

Stereo Review Presents

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# VIDEO

## BUYERS' GUIDE 1987

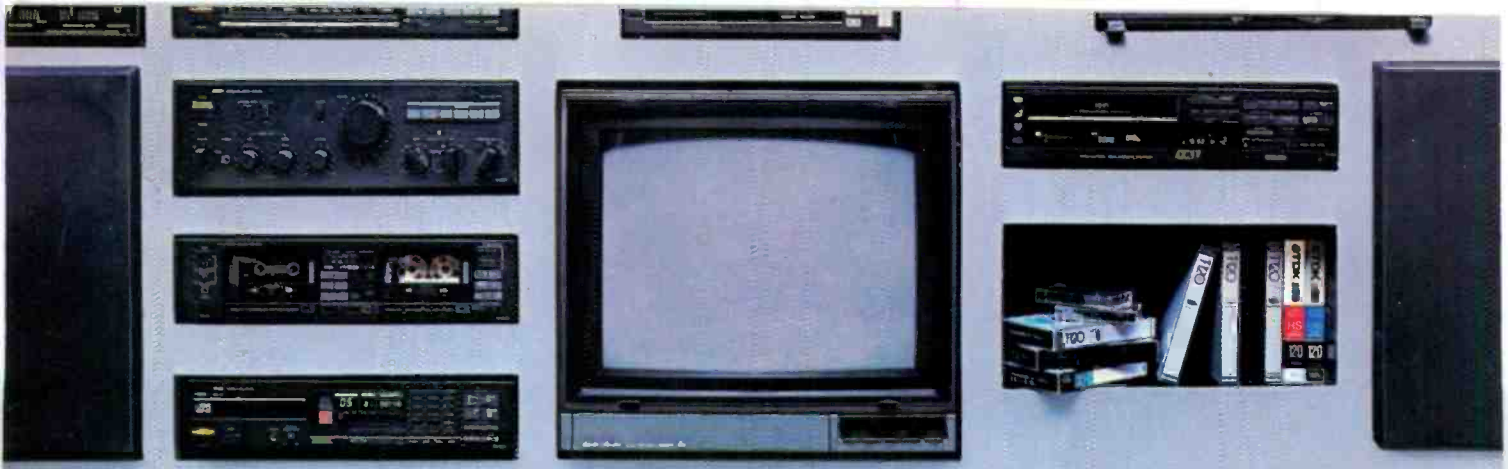
- Product listings with descriptions, specs, and prices of*
- Video Recorders • Cameras
  - Camcorders • Stereo TV • Color Monitors
  - Projection TV • Audio/Video Processors
  - Blank Video Tape • Speakers for Video
  - Satellite TV Components • Accessories
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- Feature articles on:*
- The Sight & Sound of Home Video*
  - Ten Tips to Help You Buy the Right VCR*
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# VIDEO

## BUYERS' GUIDE 1987<sup>®</sup>

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Cover components. On shelf, left to right: Fuji Super-HG TC-20 VHS-C videotape; JVC GR-C7 VHS-C camcorder (see product listing on page 78); Scotch EG E 180 VHS videotape (see product listing on page 111). Center, top to bottom: Pioneer CLD-909 LaserDisc/Compact Disc player (see product listing on page 95); RCA VMT 630HF VHS VCR (see product listing on page 70); Harman Kardon VM-100 color monitor (see product listing on page 94). At left and right of the monitor are Proton 313 powered speakers (see product listing on page 114).

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Stereo Review's  
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Stereo Review Presents Video Buyers' Guide,  
February 1987 Issue





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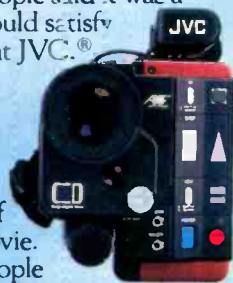
special small cassettes. And a carrier tray is provided for playback on any VHS recorder.

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Mini VideoMovie

# THE SIGHT AND SOUND OF HOME VIDEO

A basic introduction to video's bright new world—by E. Brad Meyer

**B**ack in the early seventies, there was only television. You could watch whatever was on, or turn it off, and that was that.

Those days are gone forever. In addition to regular broadcast television we get our signals from cable, videocassettes or videodiscs, or from private satellite receiving stations. The TV set, with its basic VHF and UHF tuner, has evolved into the specialized color monitor, requiring an external tuner that combines stereo reception and playback with switching facilities for several other video sources. Some TV sets can display a second picture within the first, or freeze and hold a single frame at the push of a button. Alternatives to the usual direct-view picture tube include pocket-sized TVs with color LCD displays, 40-inch rear-projection models, and two-piece front-projection sets big enough—if not yet bright enough—for a small movie theater. With a little help, however, you can sort them out and choose a complete hardware package that will give you convenient access to a world

of new programming with higher quality pictures and much better sound.

## The Tuner

As video hardware became more sophisticated its functions were divided and assigned to separate components, much as they are in audio. In audio terms, a conventional TV set is analogous to an old console radio, containing a tuner, audio and video amplifiers, a picture tube, and a loudspeaker.

All video tuners receive the usual 12 VHF and 70 UHF channels, and many will also tune to additional frequencies used by cable companies. This type of tuner, whether it is a separate component or part of a TV set or VCR, is said to be *cable-ready*. A cable-ready tuner may be able to pick up a large number of channels, although the actual number is not as important as whether it includes the ones used by your local cable system.

The audio section of the video tuner has also become more important as TV stations begin to broadcast stereo sound using the system known as Multichannel Television Stereo

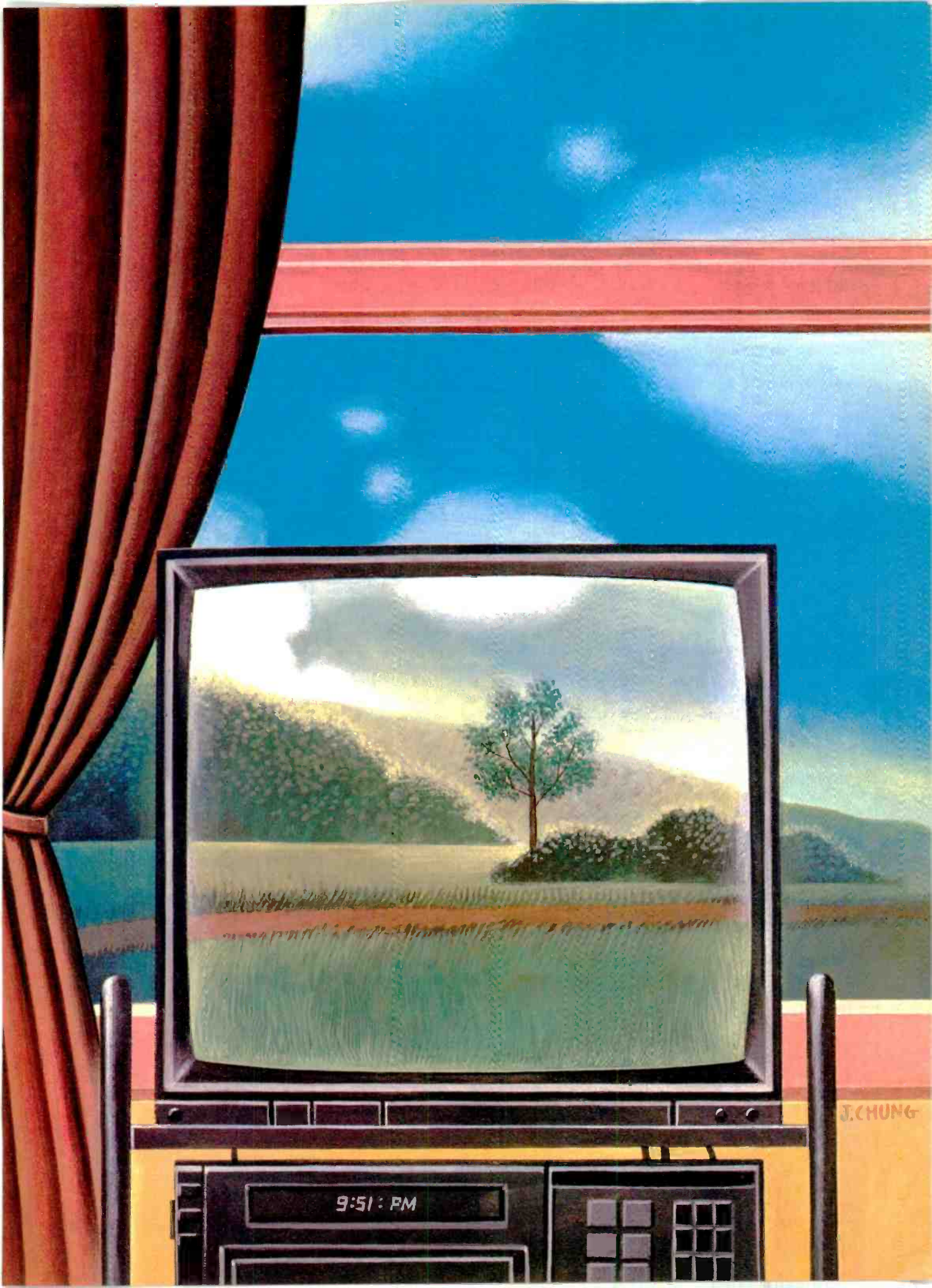
(MTS) encoding. The complete version of the system is called MTS/SAP; the SAP—Secondary Audio Program—denotes a *third* channel of audio for alternate-language programming or other uses. Some cable subscribers will not be able to receive MTS stereo broadcasts because some cable systems crowd their channels too close together to make room for the MTS subcarrier. Some of these systems do provide stereo sound through the FM band, requiring a separate audio tuner for reception.

For those who prefer component video but who don't want a wall full of black boxes, there are audio/video receivers containing both video and conventional FM audio tuners, as well as audio and video switching facilities and a stereo control amplifier for driving external loudspeakers.

## The Monitor

A *video monitor* is a specialized component that accepts only line-level or *baseband* video (as opposed to a modulated carrier) and turns it into a picture; a true monitor has no tuner and no audio circuits. But the word





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J. CHUNG



has such strong connotations of quality that its meaning has changed to denote any TV set with a jack labeled *Video In*.

An increasingly popular configuration is the *receiver/monitor*, a TV set that contains a cable-ready video tuner with RF connections for a descrambler; baseband video and audio inputs and outputs for connections to VCRs, disc players, and an external audio system; and a small power amplifier for driving its own or other external speakers. While most of these supplied speakers are mountable on the sides of the cabinet, to achieve any degree of stereo effect they must be detachable so you can separate them by at least four feet.

The best receiver/monitors have superb picture quality and will serve admirably as the core component of an audio/video system. Most current models come equipped with MTS decoders, making them true stereo TVs, while some require an external decoder and are therefore only *stereo-ready*.

## VCRs

The home VCR started the video revolution by freeing viewers from the constraints of broadcast programming. There are three different, incompatible tape formats—VHS, Beta, and 8mm—and each format is available in three forms—stationary table-top units, portable recorders, and one-piece camera/recorders, or camcorders.

Unfortunately there is no easy answer to the format question. The VHS format is the most common, and offers by far the biggest selection of prerecorded programs. If, like most people, you use your VCR mainly for watching rented movies, VHS is the best choice. Although Beta appears to have lost the fight, Sony continues to support the format and its latest machines combine some of the highest picture quality of any home recorders with professional editing capability. The 8mm format is the smallest and most convenient, with picture quality about equal to a good VHS machine. Both machines and tape are more expensive than their half-inch counterparts, and at the maximum playing time of four hours image quality suffers considerably. Prerecorded software for 8mm is relatively scarce, but if rental titles appear quickly enough the format's future seems bright.

All VCR formats offer a variety of special effects during playback, often remotely controlled. The most im-

portant, and most common, of these is fast scanning in either direction with the picture visible—the mode that allows you to skip rapidly through commercials without leaving your chair. Slow motion, still-frame and single-frame stepping are fun for picking up film techniques.

Early half-inch (VHS and Beta) recorders use linear low-fi monaural soundtracks laid down along one edge of the tape. A later development in the VHS format known as *VHS stereo* divides this linear soundtrack into two even narrower ones, still of rather low fidelity. Now both formats offer *hi-fi* sound that is recorded with FM encoding using heads located on the rapidly spinning head drum. Hi-fi tapes recorded on one deck don't always play properly on another, but at its best the technique yields sound quality superior to an audio cassette deck. (Prerecorded hi-fi software is increasingly available; the improvement in the sound for a film like *Amadeus* is dramatic.) All 8mm decks use an FM audio system, and some can also record digitally encoded sound—although with noticeably lower fidelity than CDs provide—along with the picture.

Recent improvements in the picture quality of half-inch formats carry special trade marks and bring significant benefits. The *SuperBeta* format denotes an increase in the available video bandwidth, switchable detail enhancement, and in some machines a special editing mode for improved copying. Its VHS counterpart, VHS High Quality (HQ), is not a single entity but comprises one or more of the following: Higher maximum brightness levels, detail enhancement, and the reduction of luminance (black-and-white) and chrominance (color) noise.

## Portable VCRs

Portable videocassette recorders no longer require the sacrifice of long-playing operation, programming features, remote control and special effects. Their popularity peaked about a year ago, then began to shrink in favor of the one-piece camcorder that offers greater convenience away from the home.

If you want to shoot home movies but don't want to pay for two videotape recorders, you might consider one of the full-featured half-inch portables that "dock" into a stationary tuner-timer module, giving you the best of both worlds. The latest versions come with both hi-fi sound and SuperBeta or VHS HQ picture-enhancing circuitry.

## Cameras & Camcorders

The market for separate video cameras has been collapsing so fast that the Electronics Industries Association no longer keeps sales data for the category. This provides an opportunity for owners of portable VCRs to pick up high-quality cameras at bargain prices. If you're interested in the best possible picture, look for video camera brands manufactured by photographic companies, who tend to stress image quality in their products to a greater degree than VCR makers. Some separate cameras offer stereo sound and built-in character generators so you can title your shots on location.

For convenience, though, the one-piece camcorder is the way to go. The number of occasions when any image-recording device will actually be used is inversely proportional to its size and weight. So it's reasonable to consider sacrificing some picture quality and a few features to get something you'll actually take with you when you leave the house.

The smallest and lightest camcorders are miniature 8mm units, weighing barely two pounds. With their optical viewfinders and record-only operation, they are the video equivalent of the snapshot camera. They can't show you what you've got on the tape, which must be transferred to a separate deck for playback.

There are more versatile—and more expensive—camcorders in all formats that have electronic viewfinders as well as in-camera playback and cueing, multi-speed operation, and the latest picture-enhancing circuits. In response to the 8mm challenge JVC has introduced an improved version of their miniature VHS-C camcorder with two-speed operation and VHS HQ. The small VHS-C cassette can be played in a regular VHS machine with the aid of an adaptor.

## Videodisc Players

The 12-inch laser-read videodisc is the technological ancestor of the audio-only CD. Videodisc machines can't record, but in exchange they offer picture quality distinctly superior to the best VCR along with rapid access to any part of the program and a much lower selling price—\$35 or less for a movie compared to up to \$90 for prerecorded tapes.

Most videodiscs are recorded in a format called *Constant Linear Velocity (CLV)* that gives about an hour of playing time per side, enough for most movies to fit on a single disc. CLV discs offer fast visible scan and,





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on some discs, automatic chapter search. Some special film transfers, as well as interactive programming, come in a half-hour-per-side format called *Constant Angular Velocity (CAV)*, which allows still-frame, automatic search by frame number, and everything from slow-motion to triple-speed in either direction with instant response and undiminished picture quality.

There are also eight-inch Laservision discs with 20 minutes of playing time (in CAV; more in long-play mode) retailing for around \$15 and used mostly for music videos.

The Laservision discs have stereo soundtracks using an FM system similar in performance to VHS and Beta Hi-Fi. Recent high-end players can also decode digital soundtracks present on some discs. Because the optical pickup technology is so similar, and because Laservision's digital encoding is identical to that used on CDs, some digital Laservision players can also play compact discs.

The determining factor in your consideration of a Laservision player should be the availability of discs. The Laservision catalog is closer in size to the Beta catalog than to the much larger VHS list, so if your taste runs to the eclectic you'd better stick with the latter format.

## Projection TV

Some people rent movies and invite friends over to watch with them. They make popcorn, and turn out the lights. Having gone this far in recreating the theater experience at home, they start to hunger for a screen big enough to complete the illusion. As the largest current direct-view set has a 35-inch diagonal screen, this means projection television.

The first large-screen projection sets had two-pieces with a projection module and a free-standing screen. Their descendants still offer the biggest and sharpest large pictures, with screen sizes up to 15 feet and prices ranging from \$2,000 to \$12,000. Substantially more compact and convenient are single-cabinet rear-projection sets in which the image is viewed through the screen. These have generally produced images both dimmer and fuzzier than front-projection TVs, though the latest models are vastly improved in both departments.

If you're shopping for a big set, remember that even the best large-screen TV magnifies the defects inherent in our NTSC system, and therefore cannot hope to match the

quality of 35mm film. Be aware too that differences in overall effect between store and home will be even greater than with direct-view sets.

## A/V Systems

If you have several different video components you may be suffering from coffee-table clutter—the result of three or four remote control transmitters competing for the space in front of your chair. One solution to this is the one-brand audio/video system. A large A/V system may include a 25-inch TV, one or more VCRs, an audio/video receiver, an audio cassette deck, and a compact disc player. As with one-brand audio-only systems, the loudspeakers in these packages tend to be of relatively poor quality; but the simplified hookup, the matched cosmetics and the convenience of a single remote control that runs everything will be very attractive to some people.

## A/V Processors

There is a large and growing selection of audio and video accessories to beguile the serious hobbyist. One major category is the video processor, used to modify the video signal in ways similar to audio equalizers and dynamic range enhancers. These devices are most useful for assembling home productions requiring editing and copying. The second category is the audio/video switcher—a box with lots of inputs and outputs and internal cross-connections to allow dubbing from one source to another, sometimes with both video enhancement and audio processing.

The third device is intended for use in playback: the surround-sound decoder. Precordered movies produced in Dolby stereo have the surround-sound information in their soundtracks. With a good decoder and extra amplifiers and speakers it is possible to recreate the sound of a big movie theater—to a reasonable degree—more successfully than you can duplicate the picture.

## Video Loudspeakers

A videophile's quest for better sound leads first to the replacement of the small speakers supplied with most TVs. Because of the space limitations of the average video room, speaker companies have devoted a lot of time and effort to the production of high-quality small speakers. But the magnet in a good speaker may have an external field strong enough to affect the TV picture. Many speakers intended for video use are advertised as "shielded,"

meaning they can be used right next to any TV without bleeding the colors. The effect is actually accomplished not with shielding but with a second magnet that partially cancels the field of the first. The technique works, even if it is needed only in extreme cases.

## Picture Quality

Just as audio amplifiers are sold on the basis of watts of output, video monitors are touted as having so many lines of resolution or so many megahertz of bandwidth. The latter specification refers to the ability of the set's internal circuits to pass high frequencies. In video, where the picture is formed by an electron beam moving across the screen, good high frequency response means the beam can change rapidly from light to dark and back, which in turn translates into finer detail.

Standard NTSC broadcast video has an inherent limit of 4.2 megahertz which is reached only in the best live broadcasts; many conventional sets barely reach 3 MHz, while most VCRs roll off below 2 MHz. Some monitors have bandwidths of 7 to 12 MHz, which is significant if you want to use them with a computer for displaying text.

The phrase *lines of resolution* officially refers to how many individual light and dark lines are discernible in a horizontal portion of the screen equivalent to its height. Many manufacturers, however, quote the number of lines in the entire width of the screen, producing misleading numbers that are higher by one third than they should be. Then there is the size of the phosphor dots on the screen; it does no good for the electron beam to produce fine detail if the dots that make up the picture are too small to realize it. Complicating things further is the fact that for a given dot size a larger screen will yield greater detail than a smaller one—but only if its bandwidth is high enough and only if you sit farther away from it.

In the end, judging picture quality is a subjective matter much like choosing loudspeakers; specifications aren't much help. You should also remember another characteristic of speakers: what seems most spectacular in the store won't always please you at home because the showroom's environment differs from your living room. Most TV stores are more brightly lit than the typical living room at night, thus favoring the brightest and most contrasty set over the one having the best detail, texture and color rendition at lower brightness settings. □





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## A Quick Plug for Bigger Sound.

**W**ide-screen sound is one of the reasons why theater viewing seems more like the real thing. There's a lot of good sound in today's video soundtracks as well, but you can't really enjoy it through the speaker built into your television set.

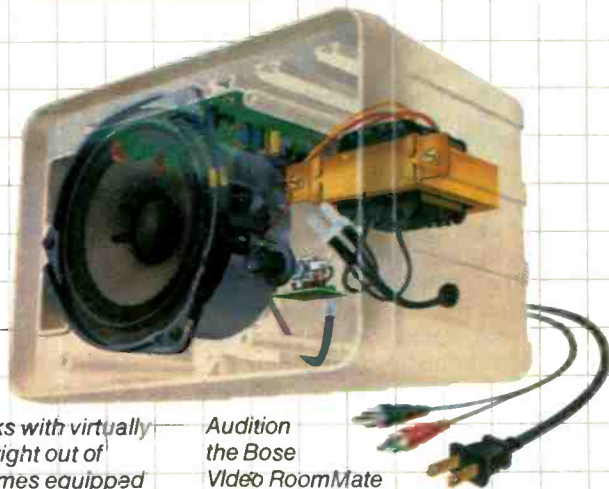
With the new Bose® Video RoomMate® powered speakers, though, you can finally take advantage of the fidelity that's trapped in video—and take your home video system one step closer to the theater itself.

Just plug the system into a VCR, television, or video disc player, and you'll hear your videos with true high fidelity. The Bose Video RoomMate system brings high-fidelity sound to nearly any video system because it comes with its own built-in amplifier and active equalizer.

In fact, the Video RoomMate system uses a lot of the audio technology that made the Bose 901® speaker an audio legend.

Best of all, the Video RoomMate system is very easy to use. It works with virtually any video component, right out of the box. The system comes equipped with RCA plugs, magnetic shielding and a volume control. Optional mounting accessories like the mounting arm shown on the left let you easily place the Video RoomMate system almost anywhere in your system. And the price of the system means that nearly everyone can afford the price of admission.

Video Review magazine recently voted the Bose Video RoomMate® system as "one of the best video products of 1985." We think you'll agree.



Audition the Bose Video RoomMate System at your authorized Bose dealer. For more information, write Bose Corporation, Dept. VBG, 10 Speen Street, Framingham, MA 01701.

**BOSE**

**Video Roommate**

POWERED SPEAKER SYSTEM

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# 10 TIPS

## TO HELP YOU BUY THE RIGHT VCR

Choosing a VCR doesn't have to be a lot of hard work.

**SO,** you've just decided to join the video revolution. You've seen the videocassette recorder ads in magazines and on television. You've played with the controls of your friend's VCR. You've walked among the thousands of movies you can rent or buy in your local video store. And you're convinced that the time has come to bring your video system up to the level of your audio components.

You're ready to become one of the 30 million Americans who owns a VCR. Now all you have to do is choose one.

If the thought of facing a commission-hungry salesman who wants to show you a wall of expensive VCRs scares the pants off you, you're not alone. Thankfully, buying a VCR today is simpler than it looks. It's possible, using common sense and some inside knowledge, to walk away with a reasonably priced full-featured VCR that does exactly what you want it to.

To that end, here are ten easy tips for selecting a VCR. That's the inside knowledge. The common sense you'll have to supply yourself.

**1. Rent a VCR first.** Many video stores rent very basic VCRs by the day or by the weekend. This makes an ideal starting point for any budding videophile. Take a rental unit home with a blank videotape and a few movies. (Make sure you don't rent a videocassette player—VCP—which will not record). Following the instructions, hook the machine to your TV and spend some time with it. Record a television show. Set the timer, and let the machine record a show by itself while you're away from home. Watch a movie or two. Don't expect a rental VCR to offer any fancy special effects or high audio quality. You're using the deck to give you some idea of how a VCR works, and also to help you find out what you might want your machine to do for you. Finally, a rental is an inexpensive way to see if VCRs are really right for you, or whether you might want to consider buying a videodisc player (VDP).

**2. Set a budget.** This is basic buying sense. Look at your finances and determine how much you want to spend. VCRs range in price from a

low of about \$200 to a high of \$1,500. Generally, there are three broad price categories: low end (\$200 to \$400), midrange (\$400 to \$800), and high end (\$800 on up). Each step up the price ladder offers more features, higher quality, and perhaps more reliability. However, excellent VCRs can be found in all price ranges. Perhaps the best way to set your VCR budget, other than by taking a glance at your bank balance, is to determine how much you spent on your audio system components and television. A good VCR for your needs ought to fall into that price range.

**3. Make a wish list.** You've experimented with a rental VCR and you know your financial limits. Now write a list of things you'd like your VCR to do. Base this list on your own experiences and the experiences of your VCR-owning friends, as well as on other research you do (such as reading this buyers' guide). You'll find that your wish list could become extensive. For example, you may want remote control, programming from here till Doomsday, and special effects such as still frame and fast search with a good







picture. You may also want a cable-ready tuner to hook into your cable decoder.

These are just a few of the many features you may write down. Once your list is complete, check off the most important wishes. You'll then be able to take your list into a video store and find the VCR that meets your specifications. Note: the worst thing you can do is shop unprepared. You'll be sold the VCR the salesperson wants to sell you, rather than what you really want.

**4. Choose a format.** Unless you've been living in a cave these past few years, you know that VCRs come in different formats, or types. The tapes and recording systems are as incompatible as an audio cassette and an 8-track tape. A tape of one format won't work in a machine of a different format. Therefore, you'll want to put some thought into which video format will be right for you. The good news is that there are fewer formats to worry about these days. Like 8-track, some of the early video systems have fallen by the wayside.

Currently, there are three video tape systems. VHS (Video Home System) is the market leader, outselling its rivals all over the world. The system was developed by JVC, and has been licensed to many other manufacturers and marketers.

If you want to make video movies at home or while traveling, you should be aware of VHS-C. A VHS-C tape is very small, so the portable VCRs and camcorders that use it are also very small. And when you want to see it, you pop the VHS-C tape in an adapter (which is shaped like a full-size VHS tape), and put the adapter into your VHS VCR.

The Beta format was pioneered by Sony. Though it, like VHS, uses half-inch videotape, the recording system and videocassettes are different. Beta doesn't sell as well as VHS, so it may be very hard to find movies on Beta. In some areas, though, there may be enough Beta movies to rent.

The newest kid on the format block is 8mm video, also developed by Sony. The 8mm system was designed for home movies, and its lightweight combined camera-recorder is ideal for that purpose. The quality of the picture and sound are good, with a mono AFM (audio frequency modulated) soundtrack and an option for a digital soundtrack. The digital soundtrack, because of its limited frequency response and dynamic range, does not have the quality of compact discs. Only one camcorder (from Kodak) is capable of

recording digital sound, so 8mm machines are usually not the best choice for making a video of a live concert. (Unfortunately, hi-fi sound is hard to find in VHS or Beta camcorders as well.) The 8mm technology is still relatively new, prices are high, and there are very few movies available for rental on 8mm tapes.

Ultimately, the choice of format must be yours. Unless you're a stickler for detail, VHS, Beta, and 8mm offer roughly comparable quality (videophiles claim Beta—especially SuperBeta—has the sharpest picture). Each of them has an audio mode with acceptable sound quality: hi-fi for VHS and Beta, and digital for 8mm. Consider other factors than quality, however. Do the video stores in your area carry only VHS tapes? What format VCRs do your friends have? If you want to trade tapes, you have to have compatible machines. Of course, having one machine for each format solves that problem, but that gets expensive.

A final twist: there are not only different formats, but also different broadcast systems. If you buy a VCR in North America for use in North America, no problem, since the machine will operate on the NTSC (National Television System Committee) standard. However, if you plan to use a VCR in Europe, you'll need either a PAL (Phase Alternation by Line) or SECAM (Système Electronique pour Couleur avec Memoire) system. It's best to buy your VCR in the country in which you plan to use it, since incompatible broadcast standards mean you won't be able to rent movies or record off the air.

**5. Think about audio and video quality.** Television has historically offered its viewers merely adequate video quality and usually awful audio performance. The VCR has changed all that. Today, high-end VCRs and monitors allow sharp, crystal clear video resolution and extremely high-fidelity audio response. A VHS or Beta Hi-Fi machine delivers 80 dB dynamic range, second only to compact disc. Such machines don't come inexpensively, but for a true audiophile they're a must-have item, especially since they can be used for audio-only recording if you want six straight hours of awesome sounds.

Ideally, you'll want to think about your VCR and television as one element of an overall audio/video system. Some manufacturers are now offering complete A/V racks. But if you have fine audio components

now, you may just want to add a few extras: an audio/video tuner, a hi-fi VCR, and a high-resolution video monitor.

#### **6. Consider the camcorder option.**

What's a camcorder, you ask? Camcorders are camera/VCR combinations. They look like video cameras, but they have the recorder part—where you put the tape—built right in. They're portable, easy to handle, and make home movies a breeze. If you buy a hi-fi VCR table-top deck, you can supplement this purchase with a full-sized VHS or Beta camcorder which uses regular tapes in the chosen format, so you won't require special adapters to play back your movies on your VCR. However, VHS-C, as mentioned above, requires an adapter because it does not use regular full-size VHS tapes. And 8mm is a separate system altogether, with its own camera and VCR. Therefore, you have some further decisions to make.

Camcorders offer flexible and easy home movie making. You may not want one right away, but plan your current system to accommodate one if you think you might want to record your children, family gatherings, holidays or vacations on videotape.

**7. Find a good store.** If you can locate a store that will give you the price you can pay, the service you need, and the VCR you want, you're ahead of the game. However, such stores aren't easy to find. Generally, you'll discover that the more service and salesmanship a store offers, the higher the VCR price tags. Discounters and "box-movers" tend to want to get you in and out as quickly as possible so they can sell the next customer. But they often offer the best price.

Your safest strategy is to browse in a number of stores, and then choose the one whose atmosphere and staff appeals to you most. If you develop a good relationship with the store, you'll get good advice and good followup support if something goes wrong with your machine. Remember, too, that the more time you spend with a salesman, the better your chances of a good price. He's invested a lot of energy in you, and he won't want to lose the sale. Just don't make price the only consideration. After all, you want quality, don't you?

**8. Get your best price.** Even so, you should never pay full retail price. You're tossing a lot of cash into this



investment, and you should bargain with your salesman to get the most for your money. Mention prices you've seen in other stores. Drag your feet a bit. But don't push too far. You still want support and service, something you won't get from a salesman whose commission you've bargained away.

An excellent approach to VCR bargaining is to ask that certain accessories be thrown into the deal. You might want a dustcover, a recording head cleaner, cables or some blank tape . . . and you might get them.

#### 9. Don't get stuck on brand names.

This simple piece of advice can save you money and get you the quality you want. The reason lies in three letters: OEM. OEM stands for original equipment manufacturer. Almost all of the VCRs you see in a video store have been made by one of five major Japanese companies. These companies, or OEMs, market VCRs themselves and also sell to companies who put out machines under their own brand. Currently, the Japanese OEMs are JVC, Sony, Sanyo, Hitachi, and Matsushita. Matsushita VCRs, for ex-

ample, appear under the Panasonic, Quasar, G.E., and Magnavox brands, among others. This means, simply, that you can find a major-brand quality VCR priced for less if it's sold under a lesser-known manufacturer's label.

Don't forget the Koreans, either. Like Japan a generation ago, Korea is making a name for itself with competitively priced, high-quality products. Check their VCRs out.

One caveat: Some brand names command buyer loyalty because of their consistent quality, service, and support. If you've had good luck with JVC products, for example, by all means stick with the brand. You won't go wrong. Just remember that major brand names aren't your only available choice.

10. Get a warranty and local service. This tenth and final tip may be the most important. VCRs are complicated and delicate machines which require careful handling, regular head cleanings, and occasional adjustments. Make sure the store you buy from can back you up in the service department, or, barring that, make sure there's a good VCR service shop

within reasonable distance from your home. A professional headcleaning can make all the difference in your VCR's longevity.

Finally, remember that every once in a while, a VCR will blow it. Perhaps the recording heads fail. Or the tape drive mechanism begins to chew your tapes. Most VCRs never suffer these problems, but if one should occur, it means major repair bills. It's essential to have a warranty that backs you up. Ideally, the VCR you choose will have local service centers. Many warranties, however, require that you box your machine and ship it back to the manufacturer or importer. Read your warranty carefully before you buy. Often, when you're trying to decide between comparable machines, the quality and duration of the warranties can be a deciding factor.

There you have it. Ten basic tips on buying a VCR. But don't rely only on these guidelines. The true key to owning a satisfactory VCR lies in the thought and care you put into your decision. Remember, there are no really bad VCRs. There are only VCRs which either meet or don't meet your needs. Happy buying! □

## What's best next to your TV?



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Unlike ordinary speakers, PS-6V speakers are internally shielded. You can place them right next to any TV set or monitor without magnetic distortion of the color or picture.

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PS-6V speakers sound great. With deep bass from the long-throw 6" woofer, and smooth peak-free response from the 3/4" soft-dome tweeter. Whether you're into music videos, classical concerts, movies, or just plain TV, everything sounds cleaner, clearer, richer with Design Acoustics PS-6V speakers.

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CIRCLE NO. 19 ON READER SERVICE CARD

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And because it's digital, Zenith's 27" square-cornered picture brings you sharper, more vibrant colors than ever

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# HIGH-FIDELITY AUDIO ON VIDEO RECORDERS

*New technology has brought high-quality sound to video music.*

**H**amlet said "the play's the thing," but in the video industry, the cliché has always been "the picture's the thing."

The audio side of the equation has been secondary for decades in the broadcast industry, and most early home video equipment seemed to treat audio as not much more than a necessary evil.

But the times they are a-changing. A new generation of sound-conscious customers is demanding, and getting, vastly improved audio performance. Music videos on cable, stereo TV broadcasts, and high-quality video recordings on VHS, Beta, 8mm, and LaserDisc are making good sound available in every possible video format. In fact, the audio performance of many current video components is actually better than the video quality!

How did this dramatic turnaround occur? Let's start at the beginning.

Just as the framers of our Constitution showed great foresight and wisdom when they constructed the rules that guide our political system, nearly fifty years ago the engineers charged with defining our television system created a structure which has provided both solid performance and a firm foundation for expansion and enhancement. Even the first standards specified full FM audio with frequency response across the audio



course, with the tiny speakers and weak amplifiers in most TVs, nobody noticed or complained much.

Television sound was also monophonic (with only one channel), since commercial stereo was just a laboratory dream when TV was invented. But several factors combined to create a demand for true stereo (two channels). Classical buffs realized the extra dimension stereo added to live concerts with clumsy—but lovely sounding—TV-FM simulcasts, while pop and rock fans clamored for music videos with stereo to match the recorded originals. At the same time, TV manufacturers saw stereo as a method of reviving languishing set sales.

The new MTS (Multi-channel Television Sound) system uses sophisticated noise reduction and other techniques to provide good channel separation and compatibility. Developed by Zenith and dbx, MTS

sound is not only stereo, but has a better frequency response and dynamic range than standard NTSC broadcast audio (although the limitation was usually the small amps and speakers in the TVs, not the signal they received).

Sets and VCRs with MTS are selling very well, and you can add stereo capability to older models with either a plug-in adapter (if your set has the appropriate jack) or add-ons that work with most older sets. Not all

*by Glenn Hart*

spectrum, a feat somewhat beyond the common electronics of the day.

The quality of TV audio in the real world never matched this promise until recently. The audio equipment at most TV stations—and the audio engineers responsible for the sound side of things—came from early radio, and the audio quality of most broadcasts was poor to fair at best. Of

# BUYING A CAMCORDER OR VIDEO RECORDER

**M**ovies are lots of fun, and the only thing better than watching them is making them. There will certainly be a better time than the present to take up video movie-making, but if you're waiting for better equipment the wait could be a long one. All of the major television, video and 35mm photography equipment manufacturers are heavily promoting one-piece, integrated camera and videocassette recorder combination models—camcorders—that are lightweight, portable, automated, and usable indoors or outdoors under a wide variety of lighting conditions. You can now take your pick of dozens of different camcorders.

At the same time, the fledgling Fellinis among us will find a good (though shrinking) selection of attractively priced two-piece portable video systems, these comprising of a video camera tethered by cable to a battery-powered portable VCR.

With such a crazy-quilt of possibilities—different models of each kind to match need, taste and budget—answering the question “Which movie-making machine is for me?” is enough to reduce otherwise confident and self-assured people to stuttering timidity, especially when confronted with a smooth-talking video salesperson who seemingly has been hawking electronics since the Norman Conquests.

It doesn't have to be that way. You can buy do-it-yourself portable video without suffering mental anguish and at prices that do not cause you to do a fast fade. To help sort it all out, let's

Choosing the  
best equipment  
to make your own  
movies.

by Murray Slovick

first try to cut through the confusion of claims and counterclaims being made in support of different video camcorder models.

### Kinds of Camcorders

The first thing you should know is there are four different camcorder videocassette systems to record pictures and sounds: Video Home System (VHS), its variant VHS-C, Betamovie, and eight millimeter (8mm).

The largest number of models available use the *full-size VHS* videocassette. No surprise there, since VHS is the world's most popular home video recording format. It provides up to 8 hours of recording and playback time on one T-160 tape for off-the-air videotaping of television broadcasts and up to 3 hours and 20 minutes of recording and playback when used with any VHS camcorder.

The difference in recording time occurs because VHS camcorders op-

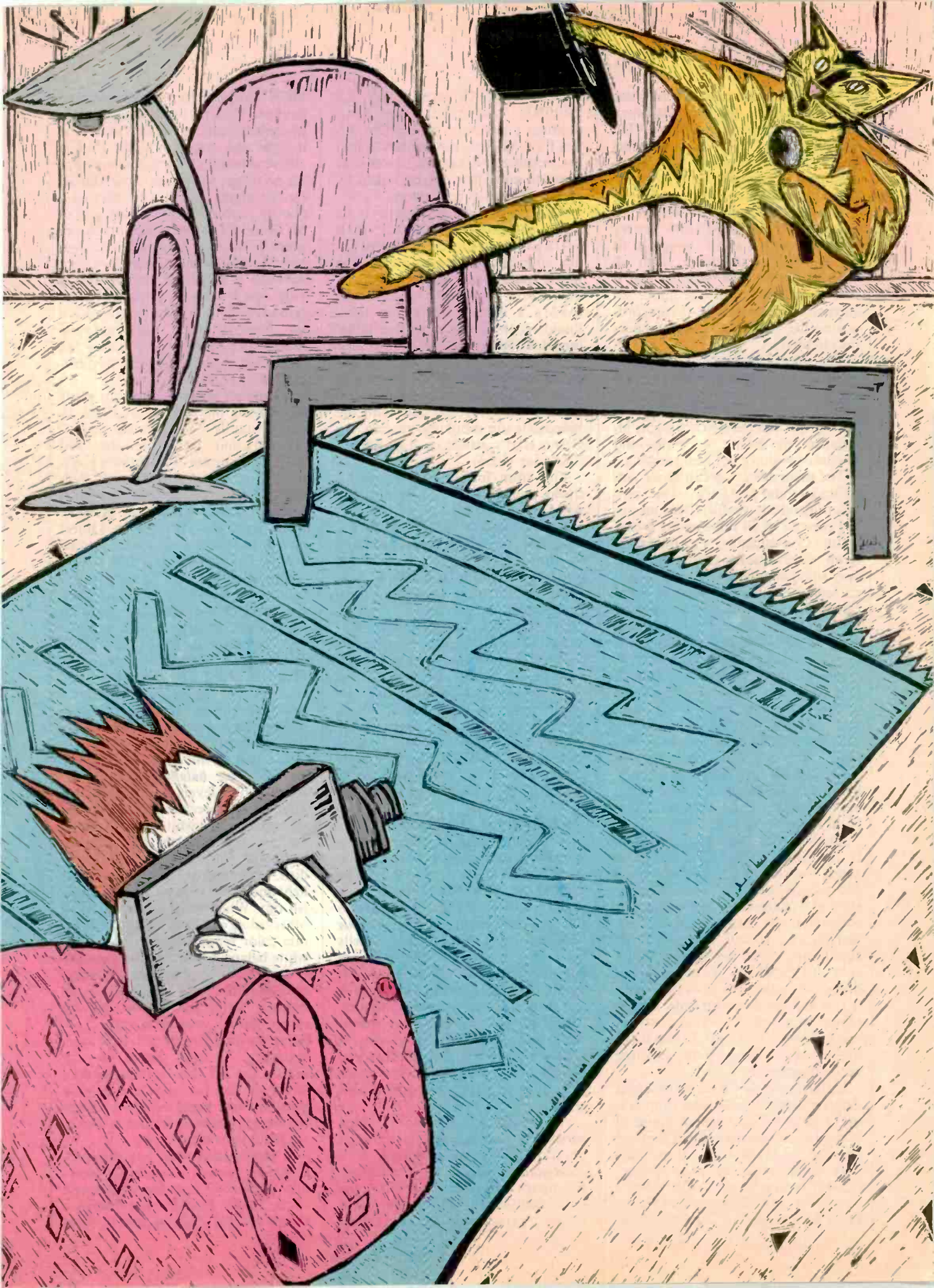
erate only at the fastest VHS speed—SP. Consequently, if you want to rent videotapes or swap tapes with friends, you'll be able to play back pre-recorded VHS movies that you rent or purchase on your VHS camcorder, but you won't be able to play back TV shows recorded off the air at the slower VHS speeds LP and SLP.

The full-size-cassette VHS camcorder weighs about 6 pounds with battery and cassette. That's about 3 pounds more than VHS-C and 8mm camcorders. The VHS camcorder also is considerably bulkier and must be operated from a shoulder mounted position. This year, many VHS camcorders offer High Quality (HQ) signal processing circuitry for more distinctive and cleaner images. Basically, HQ improves edge detail for a better defined, less “noisy” picture than VHS units without HQ.

VHS camcorders are at their weakest with regard to audio. They are comparable to the worst low-fi television receivers in audio reproduction. This year, audio dubbing lets you replace the audio track with music or narration to cover flubs, but even that must be in low-fi mono.

A variation of the VHS format, the compact VHS or *VHS-C* camcorder offers one-way compatibility with VHS videocassette recorders: you may play VHS-C cassettes in a VHS VCR if it is inserted in an adapter, but a VHS cassette cannot be inserted in a VHS-C camcorder. The VHS-C camcorder utilizes a miniature cassette about one third the size of a full-







size VHS cassette and contains less tape (the tape is the same half-inch width as the tape in a full-size VHS videocassette). VHS-C camcorders offer a maximum of one hour of recording and playback time on a single videocassette.

The VHS-C camcorder weighs 3.9 pounds fully equipped (with battery and tape) and is small enough to fit comfortably in the palm, with all controls within easy reach so that it can be operated with one hand. All currently available VHS-C camcorders use the VHS HQ picture enhancing circuitry.

The first camcorders that were available were called *Betamovie*, using the full-size Beta tape. Sony has been the major proponent of the Beta format, but has been switching its allegiance to 8mm, so Beta—and Betamovie—have been languishing.

The main advantages of 8mm video are size and portability. The 8mm videocassette is smaller than an audio cassette in all dimensions except width. Consequently, the miniature 8mm videocassette makes possible very small and lightweight home video taping equipment, and the 8mm camcorder's best use is for making home movies. When it comes to recording TV programs, it has some drawbacks, most notably a two-hour record/playback capacity, not enough to hold many full-length feature films or sporting events on one tape. And very few pre-recorded videocassette titles are available in the 8mm format. Although 8mm video can be easily transferred electronically to half-inch VHS tapes, and vice versa, neither cassette can be played directly on the other system.

Smallest of the 8mm moviemakers is the Sony CCD-MSU, which is about the size of a paperback book and weighs less than 3 pounds, including rechargeable battery and videocassette. Its name is cute, too: Handycam. A new version of the Handycam, called the Sports Handycam (CCD-MSU), is being introduced this year. The chief difference is that the Sports Handycam is contained in a water-resistant (but not waterproof) and shock-resistant molded plastic housing for shooting outdoor activities.

Unfortunately, what keeps most video equipment reviewers from falling all over one another in praise of miniature camcorders is that they are record-only devices; that is, to playback 8mm tapes you need to purchase a separate 8mm VCR. Attractive full-featured playback and record 8mm camcorders are available from

Canon, Sony, Olympus (only 3.3 lbs!), NEC, and others. Kodak has a modular 8mm video system that differs from all other camcorders in that the recorder and camera function as separate units that can be linked by means of snap-in connectors.

A special attraction of 8mm is its audio capabilities. The half-inch (VHS and Beta) formats have two audio soundtracks: *linear audio*, the low-fi track found on all recorders, and *audio frequency modulation* (AFM), a stereo high-fidelity track found on the more expensive table-model VCRs but not on camcorders. AFM half-inch VCRs, conveniently enough, are called VHS Hi-Fi and Beta Hi-Fi, using different methods to combine the audio data with the video data (for more information, see Glenn Hart's article on high-fidelity sound for video).

The 8mm format has two audio tracks, and both have OK sound. The AFM mono track has specifications matching the best VHS Hi-Fi VCRs, but, alas, is in mono. The soundtrack on 8mm AFM is recorded across most of the width of the tape, with sound information squeezed in between video information.

The second sound track is PCM—pulse code modulation—digital, which is a stereo soundtrack. The advantage of digital audio is that it gives a cleaner, purer sound, although 8mm digital sound is not as good as videodisc or compact disc digital sound. Unfortunately, digital stereo is not available on any camcorder except for the Kodak MCS system.

## What to Look For

Now that you're no longer intimidated by the various home video movie making systems, it might be helpful to take a look at some of the operation and convenience features of the equipment. The *electronic viewfinder* (EVF) for instance, tells you the most about what you are actually taping. The EVF shows you what the lens is seeing and what is not in focus, and whether exposure, illumination and contrast are within the camcorder's fairly tight limits. It also lets you view scenes while you are shooting, a kind of immediate playback, though in black and white.

At the heart of a color video camcorder (or camera) is either a photoconductive *pickup tube* or a *solid-state imager*. These transform the image into electrical video signals. Solid-state imagers are either CCD (charge-coupled device) or

MOS (metal-oxide semiconductor) devices. The solid-state imager pickup system is more durable than tube designs and does not suffer from a characteristic called *lag*, the tendency for an image to remain on screen after the object has moved, leaving a ghostly vaporous trail of itself. Use of MOS and CCD image sensors as opposed to vacuum tubes allowed engineers to shrink the camcorder's proportions and bulk without reducing video performance. They are more power efficient, and since they have no tubes to warm up, solid-state imager camcorders or cameras are ready for shooting almost immediately after being turned on.

*Autofocus* makes taping easier by eliminating the need to stop and focus constantly. There are two types—*infrared* and *image sensing*—and both work pretty well. Infrared systems, found on virtually all full-size VHS camcorders and on most 8mm camcorders, emit an invisible light beam that strikes the subject and is reflected back into a special sensor. The angle of reflection is electronically measured to calculate camcorder-to-subject distance, and the focus is automatically adjusted accordingly. Image sensing autofocus systems (found on JVC-built VHS-C camcorders) measure the degree of image contrast and sharpness and electronically adjust for variances from the optimal focus setting.

*Automatic iris* adjustment varies the lens aperture openings to suit different lighting intensity.

*Auto white balance* electronically adjusts color levels for the best picture. This is necessary because what we perceive as white light actually varies in color content depending on its source: incandescent light is reddish, for example, while fluorescent light and sunlight have more of a bluish tint. When white is balanced, all other colors can be balanced for accurate color reproduction. Continuous white balancing systems are especially attractive, because they electronically monitor color temperatures (in degrees Kelvin) as soon as the camcorder or camera is turned on, adjusting for differences in light automatically. At most, you'll only be asked to set an indoor/outdoor switch or aim the camera at a white sheet of paper while the white balancing circuitry takes a second or two to adjust to light conditions.

A *power zoom lens* lets the camcorder or camera zoom in for close-ups or zoom back for wide angle shots. Many models also feature a macro setting, allowing you to focus



extremely close to the subject (less than one inch).

### Camera Plus Recorder

The obvious appeal of the camcorder is convenience, compactness and unmatched ease of operation. But like every other kind of electronic device ever invented, camcorders are a less-than-perfect proposition. No matter what the video salesperson may claim, you do trade functionality for portability. Camcorders are less sensitive than the best separate component video cameras. Many separate cameras have interchangeable lenses which allow you to use 35mm SLR lenses you may already own; camcorders do not. Separate video camera components have many bells and whistles that have been left off of camcorders in the effort to reduce weight and bulk. Among these are time and date generators to title your tapes and fade to black or fade to white for different scene changes.

Separate portable VCRs also offer a multiple video record/playback head design, which translates into a

more stable picture in freeze frame, slow motion and other special effects playback modes.

For the serious music listener who hankers for video with a high-fidelity stereophonic soundtrack, the convenience of a camcorder is really little more than a trade-off for quality: camcorders simply have not yet attained sonic equality with either the camera-and-portable-VCR combination or the best hi-fi table-top VCRs. The two-piece system does require you to sling a VCR and battery over your shoulder while taking pictures with a hand-held or shoulder-mounted camera, but if you're unwilling to give up audio quality for portability, the two-piece portable, with stereophonic, high-fidelity audio, could be your best buy. (Note: While a year ago more than thirty-five different portable VCR component models were available, the popularity of camcorders as a mass-market item has prompted manufacturers to reduce the number of portables they offer. So if you are looking to buy a two-piece portable system don't delay: in a year or two they could be

quite scarce with limited formats available.)

One last thought. In shopping for a portable video photography system, and for a camcorder in particular, you are certain to notice that the same brand suppliers are offering products in several formats (VHS, VHS-C, 8mm). In the face of intensifying competition for your video dollar, the era is ending when manufacturers could sell me-too, look-alike portable video systems like roasted chestnuts from a street-corner stand. So, just as bettors at race tracks often try to cover the field—identifying the two or three most likely animals instead of placing a single bet on one horse—many of the large manufacturers of home entertainment electronics are now or will soon be selling portable video products in two or more formats. It is entirely too early to determine which of the formats (VHS, VHS-C, Beta or 8mm) will achieve supremacy in portable video. And, at this point, you shouldn't disregard any format on what might happen three to five years down the road. Instead, you can be using that time to make your very own movies! □

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# RECEIVING SATELLITE TV BROADCASTS

*A satellite antenna can bring you a colorful world of entertainment, music, sports, and much more—by Wendy M. Schaub*

**T**elstar, the world's first satellite for television use, was launched into orbit by the United States in 1962. Now more than twenty-four satellites orbit over North America, and across the country millions of satellite antennas, "dishes," sit on rooftops and in backyards to collect TV signals from the satellites for home viewing. These dishes do not broadcast themselves, but instead receive broadcasts from the orbiting satellites.

## **Earth to . . .**

All orbiting satellites for TV broadcasts are floating 22,300 miles above the equator in what is known as the *Clarke Belt*, named after the science-fiction author Arthur C. Clarke, who described the satellite concept in 1945. Clarke pointed out that a satellite orbiting the earth *at the same speed that the earth was turning*, and going in the same direction, would appear to be stationary. As the earth turns, the satellite moves over the same spot. This means that the satellite is always in the same position relative to the earth, so it can be located easily.

Satellites are both receivers and transmitters. A signal, known as the *uplink*, is sent to a satellite from a *ground station* on earth (this could be any TV or radio station). The satellite receives the signal, changes its frequency, and retransmits it. This

step is more commonly known as the *downlink*. Each satellite covers a certain area and transmits its own signal that has its own unique shape, or *footprint*. The signal is strongest at the center of the footprint and diminishes as you move outwards.

At the present, most satellites transmit within the C-band frequency range of 3.7 to 4.2 gigahertz (GHz). (One gigahertz is 1,000,000,000 cycles per second. Signals with such high frequencies are referred to as *microwaves*.) The telephone company also uses this frequency range for telephone lines. Satellites transmit at low power (5 to 8 watts) to avoid interference with telephone transmissions. These low-power signals are the main reason why dishes have to be so large, on the average of 8 to 16 feet in diameter. With stronger transmitted signals, satellite dish antennas could be much smaller.

In order to transmit at higher power and make use of smaller dish receivers, some satellites are using a higher frequency range, out of the telephone company's reach, known as the Ku-band. The Ku-band ranges between 11.7 and 12.2 GHz. There are not many satellites broadcasting on the Ku-band and it will probably take a few years before more are sent into orbit. Direct Broadcast Satellites, or DBS, not yet available, will

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transmit at the even higher frequency range of 12.2 to 12.7 GHz.

Satellites traffic their signals through *transponders*. Each transponder is polarized and can carry either one video signal and many audio signals or thousands of telephone conversations. Polarization increases the number of transponders available, because opposite polarities can overlap without interfering with each other. As a rule, most satellites have twelve horizontal and twelve vertical transponders, for a total of twenty-four TV signals that can be received or transmitted.

So, floating around the Clarke Belt are these satellites, just waiting for us to use them. In order to do so, we have to get out of orbit and back on the ground to one of those big dishes.

A home satellite system is dependent on a chain of various components and operations. When working together, the various stages of a ground station are responsible for the pictures and sound coming from your television set. The first and largest link in a ground station is the satellite dish itself.

## The Dish Antenna

The main function of a dish antenna is to collect, reflect, and concentrate signals transmitted by satellites to a central point above the dish known as the *focal point*. The three main characteristics of a dish which affect its performance are its size, its material, and its shape.

**Dish Sizes:** Dishes need to be large because the low-powered signals transmitted by satellites travel too far and are too weak to be captured by a small dish on earth. Most consumer dishes have a diameter from eight to sixteen feet.

All satellite-transmitted signals are aimed at the center of the United States, which is assumed to be Denver, Colorado. The closer you get to Denver, the stronger the signal, and the smaller the dish you need. A 12-foot dish located in Maine will receive the same signal power as an 8-foot dish placed in Texas. When it comes to size, you have little choice—your address is the determining factor. Use of the Ku-band or, eventually, DBS, will reduce the size that your dish needs to be, but these two frequency ranges are not yet as popular as the C-band, which offers the largest variety of programming and requires big antenna dishes.

**Dish material:** At the present most dishes are available in three materials: aluminum, fiberglass, and wire

screen. Aluminum dishes are the most rugged, not giving in easily to adverse weather conditions. They tend to keep their exact shape over the years and are usually coated with a nonreflective paint to avoid the damage caused by sunlight reflected to the focal point.

A fiberglass dish needs to have some kind of metal reflector embedded within it—without this, the microwaves will pass right through the fiberglass, and render the dish useless. Commonly, the fiberglass is sprayed onto the dish mold. Some of the better dishes, however, are pressure-molded from fiberglass-reinforced plastic. Weather conditions can warp a fiberglass dish over the years, which is why some of them make use of a mounting structure to support most of the dish.

Wire screen dishes are the most delicate and popular home satellite dishes. They are extremely susceptible to weather conditions and can be damaged easily, but they look good. Unlike aluminum and fiberglass dishes, mesh dishes are not gigantic solid monsters that block out sunlight and views. Instead, they are sleek looking and can be seen through. If you live in a large residential area, a wire screen dish will probably evoke the least complaints from environment-conscious neighbors.

Satellite dishes come either as one piece or as several petals that have to be bolted together. Either way, you'll want to make sure that your dish is smooth and the shape is accurate. Any bump, dent, or warpage in your dish can ruin or interrupt reception. You can detect bumps and bruises by running your hand across the dish surface—it should be smooth and even. To check for warpage, run two pieces of string criss-cross across the dish. The two strings should touch where they cross (at the center of the dish).

**Dish Shapes:** Dish antennas are either *parabolic* or *spherical* in shape. A parabolic dish (the type most commonly seen) is curved so that all its collected signals bounce directly into the central focal point of the dish. The accuracy of the curve is very important because a more accurate parabolic curve collects and bounces more of a microwave, making the signal stronger and reception better. The outer perimeter of a parabolic dish is, in most cases, round. The dish needs to be directly pointed at the satellite you wish to receive from, and can only receive signals from one satellite at a time. If you wish to receive signals from different satellites, you can

change the position of a parabolic dish either manually or electrically with a motorized positioner.

A spherical dish is square or rectangular in shape and has a curvature which, if extended outward, becomes a sphere. Because its shape exposes it to many different satellites, a spherical dish has more than one focal point and doesn't need to be moved to receive signals from more than one satellite. The antenna section of a spherical dish is mounted on a separate tripod in front of the dish and moves to the focal point of the signal you wish to receive.

Another aspect of shape is depth. Dishes are categorized as either shallow or deep. Their relative depth or shallowness is expressed as the ratio of the focal length to the dish diameter (*f/D* ratio). A deep dish will have an *f/D* ratio between 0.25 to 0.35, while a shallow dish will have a ratio between 0.4 to 0.5. Deeper dishes tend to be better than shallow ones at blocking out terrestrial interference (TI—interference caused by high-power land-based microwaves such as those used by the phone company).

## Gain

Gain, measured in dB, is the increase in power (amplification) that a dish gives a signal: the higher the gain, the better the dish. Larger dishes have higher gains because they have more area to collect signals.

Gain is the maximizing of the signal in the boresight (the narrow area directly in the front and center of the dish), while limiting any noise that may be surrounding it. Gain depends mostly upon the size of the dish and the frequency of the signal received. A good gain measurement can range from 34 to 35 dB for a 6-foot dish, and from 43 to 44 dB for a 16-foot dish.

Although it's the largest component of a ground station, the dish is only the first link in the signal chain. After the signal is captured and held prisoner by the dish, it needs to be gathered and reflected to the focal point. This process is accomplished by a metal object called the *feedhorn*. Circular in shape, the feedhorn collects the reflected microwave signal and, with a minimal amount of loss, conducts it back to the low noise amplifier.

## Low Noise Amplifier

The first electronic stage of a ground station, the *low noise amplifier (LNA)* is a small metal box located directly behind the feedhorn. The job



of the LNA is to amplify the weak signals transmitted by the satellite to a power strong enough to put a picture on your television screen and sound in the speaker. A metal probe less than one inch in length is located at the mouth of the LNA. Microwave amplifier circuits, lined up one right after the other, are contained within the LNA. The amplifier circuits multiply the low-powered, high-frequency incoming signal (usually less than a millionth of a volt) by, in most instances, a factor of 100,000. The probe then conducts the signal to the next electronic stage.

As with most equipment containing electronic circuits, the LNA produces a certain amount of its own noise. Any noise produced by the LNA will be amplified and passed through the rest of the ground station. For this reason, it is important that your LNA produce as little noise as possible.

The noise generated by an LNA is measured in degrees Kelvin. The lower the number, the better the LNA. Most consumer LNAs have a noise temperature of 80° to 120° K. There are some LNAs with temperatures as low as 45° K, but these are primarily used for professional applications because they are priced far above what most people can afford.

Sometimes the noise level of an LNA is expressed in decibels (dB) and called a *noise figure*. The 80° to 120° K range of most consumer dishes is equal to a 1.05 to 1.5 dB noise figure range.

Another concern of the LNA is polarity. Remember the twelve vertical and twelve horizontal transponders on the satellite? Well, for good reception, the probe located in the LNA needs to be situated on the same plane as either the twelve vertical or twelve horizontal transponders. In essence, one LNA is capable of receiving one of twelve stations of similar polarity from a single satellite at any given time. (Of course, you can switch between the polarities and satellites at will.) If you want to receive signals of both polarities at the same time, you'll need two LNAs (one positioned for vertical signals and the other for horizontal). If you do this, you will need two *downconverters* (see below) as well as a *dual-polarized* dish (a dish which can accommodate a dual feed from two LNAs).

Each satellite requires a specific positioning of the LNA probe for good reception. If the probe is slightly off position, you will receive a bad picture. If the wrong polarity is chosen, you will receive no picture at all.

Adjusting the probe for polarity and reception is referred to as *skew*.

After the signal is boosted by the low noise amplifier, it is sent through a coaxial cable to the next electronic component, known as the *downconverter*.

### **Downconverter**

Satellites transmit high-frequency signals of around 4 GHz to your satellite dish, but these frequencies are too high for your television to receive and must be lowered to usable levels. The downconverter does exactly that. It takes the amplified, high-frequency signal from the LNA and reduces it to a lower frequency, known as an intermediate frequency (IF).

Within the downconverter is a *microwave mixing circuit* and a *voltage-tuned oscillator (VTO)*. The VTO generates a signal which is combined with the incoming satellite signal by the microwave mixing circuit. The combination of these two signals creates an intermediate frequency which carries the same information as the original high frequency.

Although not part of the main chassis, the downconverter is a part of the the satellite receiver and is usually mounted on the dish near the LNA. It can, however, remain near the receiver—all that is needed is a coaxial cable long enough to run from the downconverter to the LNA that's mounted on the dish.

The downconverter requires DC voltage for power. In some instances, it also needs an additional power feed for the LNA. Some receivers, however, supply the needed power to the downconverter and LNA by way of the coaxial cable that connects them.

In most cases, the intermediate frequency is created by one mixing circuit in a process called *single conversion*. But there are some higher-priced receivers which use two mixers to create two intermediate frequencies in a process called *double conversion*. Intermediate frequencies generated by double conversion tend to have improved performance over those generated by single conversion.

The downconverter and the LNA are generally two separate components and have to be connected by a coaxial cable. If you want to eliminate that cable and opt for compactness, you can use a *low noise downconverter (LNC)*, which is a one-piece LNA/downconverter. An LNC provides the same services as a downconverter plus LNA with no loss of quality. The only drawback is that if one of the two components

(LNA or downconverter) is damaged, you have to replace the entire LNC as opposed to replacing only the damaged component with a two-piece setup.

The intermediate frequency produced by the downconverter is not a single frequency, but instead a band of frequencies centered on the main intermediate frequency. In order to properly capture the picture, sound, and color of a TV signal, this band of frequencies needs to be 30 MHz wide. This feat is accomplished by the receiver.

The receiver takes the incoming intermediate frequency, amplifies it, and then filters it down to the needed 30-MHz-wide signal, eliminating any unwanted noise lurking outside of the bandwidth. The original high-frequency TV signal sent by the satellite carries certain video and audio information which gives us pictures and sound. Even though this signal is amplified, combined, and filtered, it still carries its original audio and video information. Because of this, the high-frequency satellite signal is called a *carrier*.

Along with its one television signal, a single transponder can (and does) transmit several other audio signals which are primarily used to broadcast radio programs. These audio signals are "piggybacked" onto the main TV signal and are called *subcarriers*. In all but a few instances, the subcarrier audio signal which coincides with the viewed video signal has a frequency of 6.8 MHz (there are some video signals which use a 6.2-MHz audio subcarrier).

So far we've collected, amplified, combined, and filtered, and stripped the satellite signal, and now its time to enjoy the programming it carries. To do this, let's go to the receiver.

### **Receiver**

The basic function of a satellite receiver is to select and tune in the particular channel (frequency) you wish to view. Some receivers use a variable tuning knob to do this while others use a channel-selector knob or digital tuner. Regardless of the method used, the tuner section of all satellite receivers sends a voltage signal to the downconverter. This signal adjusts the VTO (voltage tuned oscillator) to the proper voltage needed to create the intermediate frequency that will carry the same viewing information as your chosen satellite signal (channel).

A satellite transmits twenty-four (twelve horizontal, twelve vertical) television signals, and at any given

time your dish antenna is pointed to one of the available satellites in the Clarke Belt. If you have a single LNA, you can choose from twelve different channels of similar polarities at any one time. If you have dual LNAs, you can choose among all twenty-four available channels. So, no matter what type of dish antenna or tuning is used, all satellite receivers need a twenty-four-channel tuner.

Aside from the picture, your receiver must also be able to tune in the sound from one of the subcarrier frequencies. All receivers have some kind of button or knob which lets you choose the 6.8-MHz frequency that carries the audio portion of the program being viewed. Most receivers also allow you to select the 6.2-MHz subcarrier signal used for some satellite broadcasts. If you want to receive the audio broadcasts carried by the other subcarriers, you'll need to buy a receiver with variable subcarrier tuning capabilities.

Another feature common to all satellite receivers is an RF (radio frequency) modulator. An RF modulator allows reception of a satellite signal through either Channel 3 or Channel 4 of your television set. Without the modulator, you would need a video monitor or receiver/monitor to receive the unmodulated video signals.

Like various audio receivers, satellite receivers have all types of buttons and knobs that perform all kinds of functions. A *signal-strength meter* gives indication to the strength of the incoming satellite signal, while a *tuning meter* lets you know whether the receiver is centered on the chosen signal. A *video inversion control* allows you to flip over those few transmitted signals which are inverted so you don't have to stand on your head to watch the programs. An *automatic*

*frequency control (AFC)* helps to lock in the channel you are viewing, and a *scanning control* automatically scans all the channels available to your receiver at a given time. A *horizontal/vertical form switch* manually or, in some cases, automatically chooses the correct polarity of your incoming signal, and the *skew knob* fine tunes the chosen polarity.

Remote control, stereo reception, digital tuning, and filtering are a few of the fancier features in some receivers. As with buying a receiver for your stereo system, you should have an idea of what you want and need before buying a receiver for your satellite dish system.

### Downconversion

Block downconversion (LNB) is not rezoning your neighborhood so developers can build condominiums. It is an alternate method of converting a high-frequency satellite signal to the lower intermediate frequency. Instead of stepping down one signal at a time (as in single or double conversion), block downconversion steps down the entire satellite frequency band of 3.7 to 4.2 GHz to a band 500 MHz wide containing all twelve channels of a single polarity.

If you have more than one television in your home and want each TV to be able to receive programs from your dish independently, consider dual block downconverters and dual LNAs. Each of the two converters can be hooked up to a number of receivers giving each of them the ability to tune in any one of the twelve channels of the selected polarity at any time. So, if you want, you can have twenty-four TV sets in your home each receiving a different satellite program. Twelve sets will receive one program each from the twelve horizontal signals while the other

twelve sets receive one program each from the twelve vertical signals.

### Foreseeable Future

Undeniably, a satellite dish and everything that goes with it can be expensive, but the variety of programming and information it supplies as well as its potential for growth may be well worth the investment.

*Satellite dishes are legal* and you can view any program your dish is able to receive. The amount of channels available is staggering. With just one look at *Satellite TV Week*—the satellite equivalent of *TV Guide*—you can see for yourself the enormous amount of programming offered to those who have satellite dishes. For one week alone, *Satellite TV Week* lists over 200 movies, 50 specials, and hundreds of news, religious, comedy, dramatic, and children's programs. During one time slot you can choose from fifty or more shows.

Not everyone can receive the one-hundred channels available through satellite dishes—it all depends on where you live and the size of your dish. The closer to the central satellite transmission point, the less obstacles in your way, and the larger your dish, the more channels you are able to receive.

Some of the satellite signals, such as the premium and first-run movie channels that cable subscribers are already paying for, are now being scrambled. These stations are non-commercial and depend upon subscriber fees to stay in business. Until recently, many dish owners have been able to receive these channels without having to pay a fee. But as the satellite dish became more popular cable companies decided to scramble their signals so their pay services could not be received for free.

If you want to receive a certain pay (scrambled) signal and have a decoder, all you need to do is call the cable company and tell them you want that particular service. The cable company will assign the signal to your decoder and charge you a monthly rate. Each year more and more entertainment, information, and in-home services are finding their way into your livingroom through your television set and, because of satellites, more will be following in the years to come.

This is just the beginning for satellites and satellite dishes. As with most technologies, all they need is time and attention and before you know it—they're part of your life. □









## 3-D TV?

**Forget special glasses. Now your home TV viewing can become a theatrical experience. You can tune in up to 140 cable and antenna channels in true MTS Stereo, and listen to them explode in your living room through the included 2-way shielded speaker systems when you use this amplified TV/Cable Tuner.**

By Drew Kaplan

Save your TV. Save your monitor. Now you can add 140 channel tuning, with True MTS Stereo, SAP, Simulated Stereo, and Amplified Sound that's guaranteed to knock your socks off.

With the networks' programs switching to stereo, you're in for a real experience! Stereo, powerfully reproduced through 2-way speaker systems rather than a typical 3 to 5" TV speaker, involves you emotionally in what you're viewing.

No, you won't have a real 3-D picture. But, the effect of sight and sound will seem like 3-D when you see a jet fly across the screen and hear it fly across your room, or when you see and hear a boulder or a person rushing toward you.

It's really thrilling. And after watching it for a few weeks, I can tell you that the effect seems to make your TV's picture seem bigger, because you're involved.

Of course with this advanced tuning system, you might just be receiving a sharper picture, and that helps too.

If you're like me, you already have perfectly good TVs in your home. And, if you've looked at the prices on Stereo TVs, you probably got a shock.

Besides, stereo TVs typically have speakers built-in. So, they are very close together. With this system, you can separate your speakers up to 6 feet.

You can expect the same wide-field sonic image you get from your stereo system. But, the combination of sight and sound is astounding.

### ALL THE CHANNELS

You're in for a selection adventure in programming. Whether you tune in Cable or use your own antenna, you can now have complete wireless infrared remote tuning from up to 25' away. You'll switch channels, control volume and mute.

You'll tune in all VHF channels 2-13, Cable Channels 14 (A) all the way to 71 (AAA). Plus, you'll tune in UHF.

**Note:** If you're on cable, check with your cable company before viewing anything at all, to see if they require a fee.

This isn't one of the infamous 'Black Boxes' that decodes various 'Pay TV Channels'. On cable, most of the programming isn't scrambled, it's just found outside the tuning range of the average TV.

Just push '2' then '4' when you want to watch channel 24. And you can watch 24 on either cable or UHF by just touching the input select button on the remote.

And, look at this. You can assign any stations you want (no limit) a 'Favorite' Status. And, by using the step tuning buttons you can step through only your favorite channels.

I have 4 movie channels on my cable. So, I use the 'Favorite' feature a lot. The large LED display shows you the channel. And, LEDs show when this tuner is receiving Stereo, SAP, or Antenna/Cable.

### I'VE KEPT A SECRET

OK, so you've got a great picture, 140 channel capability, and you've got MTS Stereo and SAP. Well, there's more.

The powerfully amplified speaker systems will electrify your TV viewing all the time, because whenever the tuner isn't receiving a stereo signal, it automatically creates a simulated stereo effect.

So, just look at the 'Stereo' LED to know what it's doing. You're in for some wonderful sonic experiences to go along with your multichannel viewing.

And one more thing. If you're not familiar with SAP, it's not a government agency. It's called Separate Audio Programming. You'll probably find that some of your local TV stations broadcast an audio band that normal TVs don't get.

It's not related to the TV picture. It may be music, industrial or educational. You may just find that your entertainment options are considerably broadened.

### EFFORTLESS INSTALLATION

It's easy. Just unscrew your antenna or cable connector from the back of your TV. There are 2 inputs on the back of the controller. One is for VHF or Cable, the other is for UHF. (You can switch between the two from the remote.)

Then, use the included cable to con-

nect the Controller to your TV. Finally, plug your TV into the Controller and the Controller into the wall. You can connect your VCR before or after the Tuner.

### ANOTHER SURPRISE

If you've got a monitor, you're in for a treat with this tuner. Now you can make it 140 channel cable compatible, and you can enjoy the full MTS stereo thrill.

There are Video as well as Left and Right Audio outputs on this tuner. So, you'll have direct, clean Audio and Video.

Of course, this means that there are TWO sets of outputs from the tuner. So, you can feed a TV and a monitor. You can feed a TV and VCR. And, you can feed the sound to your stereo system if you desire.

It's made by Universal and backed by their standard limited warranty.

### GET CABLE, UHF AND VHF ENJOY MTS STEREO RISK FREE

Wait till you hear the sound. It's like switching from a portable AM radio to your full stereo system. It's an awesome experience that's instantly apparent.

If you're not 100% satisfied, simply return it in its original box within 30 days for a courteous refund.

To order Universal's 140 Channel Cable Controller with MTS Stereo, SAP, Simulated Stereo VHF/UHF Switching, Matching Shielded 2-Way Speaker Systems and Video and Stereo Audio Outputs risk free with your credit card, call toll free or send your check for DAK's breakthrough price of just \$199<sup>99</sup> (\$8 P&H) Order No. 4685. CA res add tax.

Now you can tune in virtually any TV broadcast and listen to the most phenomenally dramatic sound. Plus, you'll have remote control of all functions.



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# Weird Music?

Now you can listen to music that's coursing through the AC wiring system of your home. It's exciting. It's soothing. It's vibrant. And, it's all around you.

By Drew Kaplan

No, I don't want you to listen to the 60 cycle hum of your AC power. No, I don't want you to listen to a 120 volt blast.

But, if you're like me you're going to find that this 'Weird Music' is really going to end musical frustration. And frankly, I've been frustrated.

As you might expect from reading my catalogs, I have 4 complete music systems in my home, and a very large collection of records, cassettes, open reel tapes and CDs.

One reason I'm frustrated is because I can't listen to my open reel tapes unless I'm at one of my two main systems.

And, if I'm on the patio, in the kitchen, or in the garage, I'm relegated to AM, FM or cassettes on a pocket stereo or portable.

And frankly, I've never taken the time to transfer all my albums, open reel tapes and CDs to cassettes. So, I haven't been able to listen to what I want where I want.

## WELL, NO MORE

It may seem weird to plug a speaker into an AC outlet, but a new technological breakthrough has allowed me to listen to any music I choose from my best stereo, anywhere in my home.

The music (or speaking) is transmitted through the AC wiring in my home.

So, instead of running speaker wires all over my house, I just plug in a speaker wherever I want rich, room filling sound.

I really like it. I had always wanted to have wireless speakers in my living room because my wife hates having me run wires everywhere.

In the dining room, we can have uninterrupted music from one of my auto-reverse cassette decks 'piped in' while we entertain guests.

In the bedroom, now I can listen to my old open reel tapes. And in the garage, I can use the continuous programmable playback from my CDs. Of course, my system can transmit AM or FM too.

## NOT STEREO AND PROBLEMS

It's not a perfect system. But, you'll be shocked by the magnificent rich sound.

And, installation consists of simply plugging its cable into the left and right tape jacks of your receiver and plugging in the AC power transmitter.

It will have no effect whatsoever on your stereo system.

**NOTE:** Don't worry about your tape jacks. Extra jacks are provided so you won't lose the use of your tape jacks.



But, it's not stereo. It combines the signals from the left and right channels



and transmits a combined signal throughout your home's electrical system. So, you'll enjoy full rich music anywhere.

You can plug in as many 2-way speaker systems as you wish. And, you can plug them in anywhere in your home, or office, that you'd like vibrant, room filling music.



The 9½" X 4¾" X 6" speakers will knock your socks off with their rich full sound. A 4½" woofer combined with an acoustically designed cabinet really belts out the bass, while a 2½" tweeter easily matches the high frequency response of most traditional speaker systems.

**A word about noise.** You can virtually forget it. This system is virtually noiseless. It operates on VLF (Very Low Frequency) FM that is virtually unaffected by noisy motors and fluorescent lights.

It will, however, react to wireless intercoms and the BSR's X10 remote control system that we sell. But, the reaction is momentary and not too bothersome.

So, in short, although it's not stereo (you can put two speakers in a room), it's a fabulous sounding way to listen to your favorite music wherever you are.

**IT'S PORTABLE**

Installation of the speakers consists of simply plugging them in. Then you can adjust their On/Off volume controls.

Each even has a handle on the back so you can take them out to the garage, the patio or even to unattached barns.

As long as you're on the same side of the AC transformer (most houses are), virtually any plug in your home should be a source of your favorite vibrant music.

It's made by Universal Security and backed by their limited warranty.

**NON-WEIRD MUSIC EVERYWHERE  
RISK FREE**

Wait till you hear the quality and depth of the sound. Wait till you listen to your favorite music in the bathroom, guest room, laundry or bedroom.

If you're not 100% satisfied, simply return it in its original box within 30 days for a courteous refund.

To order your Wireless Music System complete with Transmitter, Cables and a 2-Way Speaker System risk free with your credit card, call toll free, or send your check for DAK's breakthrough price of just \$69<sup>99</sup> (\$6 P&H). Order No. 4631.

You can add as many extra, Dramatic Sounding 2-Way Powered Speakers as you wish. Each is just \$49<sup>99</sup> (\$4 P&H). Order No. 4632. CA res add tax.

It's big sound wherever you are. Don't just expect boom box quality. You'll have rich deep bass and clean highs. And, best of all, you'll have your favorite music.



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INC.**

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**8200 Remmet Ave., Canoga Park, CA 91304**

# CELESTION BENTLEY





# BSR's Endangered Colossus

Prepare for bone jarring bass and dramatically clear highs from these newly developed 15" 3-way 5 speaker systems that nearly missed their chance to charm an audiophile's ear. BSR moved its dbx and ADC divisions into one facility and these speakers almost became orphans. So now, they're yours at a close-out price.

By Drew Kaplan

It's a shame. But, it's also a great opportunity to get a pair of 15" audiophile loudspeakers with the newest in stereo imaging at a market-breaking price.

Imagine a precisely matched mirror image pair of top-of-the-line BSR speakers that can effortlessly recreate the cataclysmic impact of a full orchestral crescendo at full volume and yet offer flawlessly subtle sound detail to 21,500hz.

You'll thrill to thunderous bass all the way down to 26hz. Incredibly rich, full, vibrant sound at low volume will explode with life as you increase the volume.

But before we examine the front speaker complement, the twin overlapping crossovers and the top mounted sonic placement and ambiance speakers, let's see why they were almost orphaned.

You see, BSR, the half billion dollar electronics giant, is the parent company of two of the best names in up-scale audio, dbx and ADC.

Last year dbx developed a new multi-thousand dollar speaker system called the Soundfield One which lets you sit virtually anywhere in your room and have full stereo imaging and terrific sound.

BSR decided to consolidate ADC and dbx into one building (still 2 companies) and put all its speaker efforts into dbx.

## POOR JACK

Well, while dbx's engineers were off designing their multi-thousand dollar masterpieces, BSR's Senior Acoustical Engineer (he had been Fisher's Chief Engineer for 10 years during its top end component stereo days), was designing BSR's radically new speaker line.

The revolutionary top of the line 15" stereo imaging pair pictured above will let you enjoy superb stereo imaging without sitting directly in front of your speakers.

But unfortunately, in the consolidation move, BSR's speakers went by the wayside, and so did Jack.

Enter DAK. After a few fearful negotiations and considering the engineering costs BSR had already expended, they agreed to make the speakers just for DAK.

Because there's virtually no BSR overhead left on these speakers, and the R&D was all but complete, we've gotten these speakers for virtually the component costs plus a little BSR labor.

And don't worry about Jack. BSR had him finish the engineering (they really are great people) and they'll pay him a royalty on each speaker we sell. Besides, by the time you read this, Jack is sure to be snapped up as the Chief Engineer at another esoteric audio company.

## WHAT'S STEREO IMAGING?

Stereo imagery is the logical separation and interaction between channels. It's the successful creation of a panoramic wall or stage of music rather than the confined, easily located 2 speaker sound. IT'S WHAT'S INSIDE THAT COUNTS

Imagine the full thunder of a kettle drum, or the pluck of a string bass being explosively recreated in your living room. BSR's 15" sub-bass acoustic suspension driver will revolutionize your concept of

low clean bass.

Its magnetic structure weighs a thundering 48 ounces. But that's not all. The magnetic field is developed by the rare earth metal Strontium for state of the art massive but flawlessly controlled bass.

A 38mm voice coil with a 200° centigrade temperature capacity, will handle the most demanding digital or analog recordings. And, a new super rigid cabinet design virtually eliminates coloration due to uncontrolled cabinet resonance.

At low volume, the bass will fill in and envelop you. At high volume, your room, your walls and your neighbors will shake. (Not for apartment dwellers please.)



## MATCHED PAIRS

The mid-range and high end of BSR's speakers are truly unique. Front mounted 8" polypropylene mid-range drivers provide rich sound while top mounted 5" polypropylene mid-range drivers provide an open, lifelike ambiance.

Front mounted exponential horn tweeters provide awesome brilliance to 21,500 hz, while top mounted tweeters enhance separation because they are mounted to the outside edge of each speaker.

So, this system has a specific left and a specific right speaker. You'll find wide, but interactive separation that will vastly widen your ideal listening area.

The imagery will give the illusion of musicians actually playing in front of you. Your music will take on a three dimensional quality. You'll enjoy superb stereo imagery regardless of each speaker's specific placement in your room.

## MORE SPECIFICS

The exponential horn tweeters, both in front and on the top of these systems, employ 25mm rigid phenol diaphragms for stability and accurate response.

Polyamid-imid binders and ferro-fluid coolant allow for a 300% increase in heat dissipation so you can drive the voice coils up to 200° centigrade.

Now, the mid-range. Both the 8" front firing and the 5" top firing polypropylene drivers reproduce the mid-range frequencies like no ordinary speakers.

It's amazing that so many speaker manufacturers simply slap in 5" paper mid-ranges to reproduce what's really the major portion of the sound spectrum.

BSR's 8" and 5" polypropylene mid-ranges are rigid, exacting drivers that deliver incredibly pure uncolored sound.

They have matched 25mm voice coils, also protected by ferro-fluid and polyamid-imid to 200° centigrade. They are driven by powerful barium ferrite magnetic fields.

## NOT QUITE FINISHED YET

To prevent phase shift and cancellation, two totally separate crossover networks are employed in these speakers.

All frequencies below 800 hz are directed to the 15" woofer. The front system routes frequencies above 800hz to the 8" mid-range to take full advantage of its superb reproduction capabilities. Frequencies above 3400hz are routed to the horn tweeter.

The top mounted system routes only frequencies above 1200hz to the 5" polypropylene ambiance mid-range driver, and frequencies above 3400hz are routed to the top sonic placement tweeter.

There are level controls for both the top and front mounted speakers so that you can voice the speakers to match your musical taste and environment.

Note: Only the top tweeters are mounted at the the edges. The front mounted tweeters are conventionally mounted for acoustical symmetry.

Each speaker is fuse protected for up to 200 watts peak, 150 watts continuous power. You can operate these super efficient speakers with as little as 20 watts.

## AND OH WHAT A PRETTY FACE

The speaker systems are 30" tall, 19 1/4" wide and 10 1/2" deep. Their lovely oak wood-grain appearance is enhanced by the dark removable grill cloths that beautifully contrast with the rich wood-grain tones. They're a statement of audio elegance when placed in any room. They're backed by BSR's 2 year limited warranty. A COLOSSAL DREAM COMES TRUE

## RISK FREE

You'll hear depth of sound at low levels that was previously unobtainable. And yes, when you crank up the volume, your music will explode with realism and drama.

Try these speakers in your own system. Then compare them at any Hi-Fi Store with any pair of speakers up to \$1000. If they don't beat all the competition hands down, simply return them to DAK in their original boxes within 30 days for a courteous refund.

To order your matched pair of BSR top-of-the-line 15" 3-way 5 speaker systems with unique stereo imaging risk free with your credit card, call toll free or send your check for DAK's market-breaking price of just \$298 for the MATCHED PAIR plus \$22 for Postage and Handling. Order No. 4352. CA res add tax.

It's a dream system for an audiophile. Sonically pure, thunderously powerful, these BSR speakers will make your future listening years an on-going fabulous, if not earthshaking experience.



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# Colossus System Breakers

*Even if you aren't into massive foundation-shaking sound, you can benefit from the genetic engineering of the Colossus Family. And, since many system manufacturers make most of their money on the 'included' speakers, get ready for a shock.*

By Drew Kaplan

It's true. If you've bought a stereo system in the last 5 years, it's time to take a look at the speakers.

You see, many manufacturers put all their money into the electronics and add basic 1 or 2-way speaker systems.

After all, they sell their stereos based on features. And, it's easier to sell a system with an extra button than with a woofer with a bigger or better magnet.

## REALLY DUMB

It's amazing to me that manufacturers don't provide the best speakers possible. Because, quite frankly, I find speakers can account for about 40% of the overall musical quality of your system.

This isn't an insult, but I've refused to use speakers from several large companies when I sell their systems.

So, here's my proposition. Try a pair of the BSR speakers on this page in your current system. If you're not 100% thrilled, simply return them with a note that says, "Drew, you were wrong".

**We'll not only refund your money, we'll send you a free gift.**

You can bet that I'm pretty sure you're going to like these speakers. After all, they use the same components as the Colossus Speakers on the previous page and were designed by the same engineer.

So, if you purchased top of the line speakers separately, I'd have to compare ours on a case by case basis. But if yours came with a system, I'm confident that BSR's can knock your socks off.

Use your current speakers in your bedroom or some other room. But, for really exciting sound, read on.

## THE 10" 3-WAY POWERHOUSES

The 10" Colossus systems with their rare earth Strontium magnetic structures, can reproduce dramatically clean, massive bass down to an impressive 32hz.

A new super rigid cabinet design virtually eliminates coloration due to uncontrolled cabinet resonance. So, these acoustically sealed systems can easily produce more powerful and yet more refined bass than many 12" systems.

Be sure to note the flexible black acoustic rings around the white inner liners of these woofers. They really let these woofers react to the demanding requirements of state of the art bass reproduction.

The mid-range is smoothly reproduced in fine detail by 5" rigid polypropylene mid-range drivers with 25mm voice coils.

Polyamid-imid binders and ferro-fluid coolant allow for a 300% increase in heat dissipation, so you can drive the voice coils up to 200° centigrade.

You can expect stable, accurate, uncolored mid-range that will provide you with full rich sound at low levels and increasing excitement at high levels.

The exponential horn tweeters produce dramatically striking highs up to 21,500hz that will make your music come alive. There are brightness controls so you can sculpture your sound.

The speakers are rated for 90 watts peak and 45 watts continuous power.

These speakers are 23¾" tall, 13¾"



wide, and 8¾" deep. Their rich oak wood-grain appearance which surrounds the contrasting dark grill cloths, will be an elegant addition to any room.



## 8 INCHES OF RICH POWER

BSR also has rich, powerful 2-way 8" speaker systems. They too use woofers with rare earth Strontium magnetic structures. While they won't shake your foundation, you'll be impressed with the rich full deep bass they produce.

Like their big brothers, they are enclosed in rigid cabinets to prevent bass coloration. Because they are only 8" in size, they can also reproduce mid-range.

And, they too have the flexible black acoustic rings around the white inner liners of the woofers for deep bass.

The response down to 38hz is remarkable for 8" systems. So, don't expect weak bass. And, don't expect weak highs.

You'll have the same exponential horn tweeters as in the bigger Colossus systems for a vibrant exciting 21,500hz

high end frequency capability.

On the floor or in a bookcase, the rich oak wood-grain appearance which surrounds the contrasting grills, will be a beautiful addition to any room. They are 19¾" tall, 11¾" wide and 8¾" deep.

**BSR speakers are fuse protected and backed by a 2 year limited warranty. INFUSE YOUR STEREO SYSTEM**

## RISK FREE

Compare these BSR speakers with your speakers. Listen to the deep rich bass. Then listen to the smooth clean mid-range and the dramatically alive highs.

If you're not 100% satisfied, simply return them to DAK in their original boxes within 30 days for a courteous refund.

To order the 10" 3-way Colossuses with 10" Strontium Woofers, 5" Polypropylene Mid-Ranges and Exponential Horn Tweeters risk free with your credit card, call toll free or send your check for just **\$149 FOR THE PAIR (\$14 P&H)**. Order No. 4638. CA res add tax.

To order the 8" 2-way Colossuses with 8" Strontium Woofer/Mid-Ranges and Exponential Horn Tweeters risk free with your credit card, call toll free or send your check for just **\$99 FOR THE PAIR (\$10 P&H)**. Order No. 4639.

These speakers will bring you years of superb musical sound and add truly elegant visual appeal to any room.



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# Computer PT Boat

*It's a swift, incisive, 5 pound powerhouse armed with MicroPro's powerful Wordstar Word Processing and Calc Spreadsheet Programs. This 64K briefcase portable is ready to sink battleship sized desk PCs. Add 2 modems, more software and a superb near letter quality printer, and it's a \$1,968 retail value. Price blasted to just \$699.*

By Drew Kaplan

Attack wasted time. Work where and when you want. Connected to, or competing with a desk top PC, Epson's portable computer is a perfect main computer or companion to one you have.

And competing with a desk top computer for most applications, is no idle joke. Wait till you read about the power and versatility of this computing system.

At only 5 pounds, including its built-in ni-cad batteries, it fits easily in your briefcase, without filling it up.

So, you can have full word processing, spreadsheet analyses/projections, telecommunications and computing power wherever you are, without having to look for a desk or even an AC plug.

Its full size keyboard is 98.6% the size of a standard typewriter, so your hands won't be cramped after hours of typing.

Its non-glare infinitely adjustable, high resolution, full 80 column, 8 line LCD display with full 25 line access, won't give you eye fatigue.



It has battery backed memory in the form of an instant access RAM disk, which you'll use much like a hard disk.

And, it has infinite capability to store files through its unique on-board micro-

cassette drive which functions more like a floppy disk drive than a cassette drive.

Imagine a microcassette drive with a file directory and high speed access to the beginning of the specific file you want. It knows exactly where each file is.

Now, you'll NEVER waste time when you are stuck waiting, traveling on a train, a plane or sitting in a hotel room.

**And, most important.** By using normally dead time that gets wasted every day, you'll find you have more free time to spend with your family and friends and to pursue your hobbies. Wow!

So, whether you're a writer and/or a company president as I am, or a student as I once was, this computer will let you be incredibly more productive.

If you're an accountant, which I'm not, you can run spreadsheets and models with the 16,384 cell Calc program.

However, you'll be amazed at how easy it is to use this spreadsheet program and all the things it can do for you. It comes with a great tutorial which will have you projecting your own sales, profit, and more in just about an hour.

Just imagine how effectively you can get your ideas across to clients when you can change variable models of their potential costs or profits right in front of their eyes in their own offices or even at a restaurant while you wait for lunch.

Plus there's a scheduler program for setting up appointments with day by day calendar screens that you can print out.

You can even look at a bar chart that shows how you've planned every 1/2

hour for the next 24 days. It's great for slotting in new appointments.

Of course there's a vast reservoir of programs you can buy or even download for free from electronic bulletin boards by using the included modems.



## IT GOES WHERE YOU GO

During the day, you can use it at your desk, in the warehouse or in the field for work. It's simply great for writing, inventory taking or sales forecasting.

At night, take it home to finish a project. Then, you can study your stock portfolio or log onto databases to make airline reservations, check the latest price of gold or the specific history of one of your stocks. You can even get the current S&P Green Sheet Reports.

And, look at this. You can actually  
Next Page Please. . .



...Epson Continued  
look up on-line information about public companies' 10K reports, such as earnings, officers' salaries and trends. Wow, what a great way to keep track of your competition, suppliers and customers!

If you're a student, you'll find a wealth of research information available through your modem on thousands of diverse subjects. There are lots of group forums on-line to help you with educational research. Plus, when you're through studying, you can even log onto a computer dating board and choose your ideal mate.

And look at this bonus. If you're at all shy about using modems, we've included a \$39 value (we sold it for \$24) CompuServe Membership Package, complete with a full manual and \$25 worth of free on-line time.

While many bulletin boards are free, you'll find that learning your way around CompuServe with \$25 worth of free time, will give you a good solid knowledge of how to get the information you want from bulletin boards across the country.



### HOT LINK

You can directly connect this Epson computer to any IBM PC or Clone or virtually any other computer with a serial interface and any standard communication program, simply by using its cable.

You can download (receive) a file from your desk PC to the Epson to take with you, or upload (send) a file from the Epson to your desk PC for your secretary.

In fact, this system is an incredible replacement for a secretary's typewriter. Portable WordStar will let you edit, correct and even move paragraphs or sentences at will. A letter won't have to be re-typed and reproofed if a change is made.

```
not editing
      C C C O P E R I N G M E N U >>>
D Open a document file      P PRINT a file      T TRANSMIT a file
A Open a non-document file  O COPY a file      C RECEIVE files
L Change logged drive      D DELETE a file    Z BIT to epteta
```

```
      C C C M A I N M E N U >>>
--Cursor Movement--      -Delete-      -Miscellaneous-      -Other Menu-
D star left D star right  C clear      S TAB      B Return      Y Back
A word left I word right  DEL CLR LP  V INSERT ON/OFF  O Onscreen
B line up X line down     F word pt L Find/Splice again  P Print
--Scrolling--            T size      RETURN End paragraph  Q Quick
V up line Z down line     U Stop a command  F Function Menu
F up screen C down screen
```

If you already use WordStar, you know why it's the most popular word processing program in the U.S. If you use another program, don't despair. You can still send the file. You'll just have to use it under the commands of your program.

### ALL THE THINGS YOU'LL GET

Epson's 64K Geneva Computer has a suggested retail of \$995. It is just 1.87" high, 11.58" wide and 8.42" deep. It has 3 CPUs. It has 72 keys. Plus 'Number Lock', lets you have a standard 10 key pad for fast entry of numerical data.

No matter where you use Epson's computer, you'll have up to 10-20 uninterrupted hours of computing from its internal ni-cad batteries. Then it will automatically shut down. Even after battery-low shutdown, your memory will be protected by the internal backup battery.

Of course, the AC adaptor/charger is included. So, you can operate from AC or DC to suit your needs.



Geneva's microcassette drive gives you a choice of storing your files on the RAM disk or on microcassettes. The on-board microcassette drive uses standard 30 or 60 minute microcassettes.

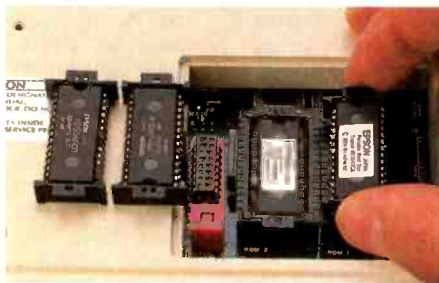
Just one 30 minute tape will store up to 50,000 bytes of information (about 25 pages of text).

And, don't forget, this intelligent machine actually stores a directory at the front of each cassette and in RAM. You can directly access any whole file without having to search a whole cassette.

This computer will power off after 10 minutes if you don't enter data to save its batteries. (Shut off time is adjustable.) Just flip a switch and you'll be exactly where you were when it powered down.

It can use its on-board clock to turn itself on. And, if you type in a password, your information will be secret.

This \$995 Computer comes complete with 4 powerful software programs plus a group of Utility Programs. The programs are stored on ROM Chips that simply slip into either of 2 sockets on the back of the computer.



Again, like a hard disk, these ROM chips are fast and load automatically. You get Portable WordStar, Portable Calc and Portable Scheduler. Plus you get a powerful form of Basic. This system can run virtually any CP/M programs.

You can write very sophisticated programs in Basic. This advanced Basic is so powerful that it even supports such obscure extensions as Inkey\$. And, it supports sound, so you can even finish Schubert's 'Unfinished Symphony'.

```
*** MAIN MENU ***
Select alphanumeric or ESC to exit
1-quit power off
2-CP/M function key
3-cursor & function key display
4-date & time
5-disk drive
6-printer
```

Here's just one menu from the Utility Programs Rom.

There are two ports on the back of the Geneva. One is a serial port for the optional disk drive(s). The other is a fully programmable RS232 serial port for the superb printer we have included. Or, you

can use it to communicate with other computers and external modems.

Of the total 64K in this computer, you can actually store files in a 24K RAM disk. The balance of RAM is used for running your programs. But, don't fret, there is lots more RAM and power to come.

### THE FLYING WEDGE

A 24K RAM disk may sound like a lot of writing to some. But if you write as much as I do, you're sure to want more. Another reason for more RAM is that WordStar creates back-up files which occupy memory space.

Back-up files are really great, because if you are editing a file you've written and you really mess it up, you can go back and get your untouched back-up file and start over. So read on for more memory.

Epson makes a \$360 accessory (included) called a Multi-Unit which gives you a 64K RAM disk and leaves all the RAM within the computer free for processing.

It's a small wedge that attaches to the bottom of the computer and doesn't increase its footprint on your desk at all. And there's more. The 1st modem I described earlier is included inside the Multi-Unit Wedge. It's a 300 baud auto-answer, auto-dial, Tone & Pulse Modem.

It's a terrific modem that comes with a modular phone cable that you plug into any standard phone jack and away you go.

Well you won't go far, since Epson doesn't include a modem program. The modem program is a \$79 value. We've included one that lets you dial in Tone or Pulse, and send or receive files. It's very sophisticated but it's very easy to use.

And oh yes, the Multi-Unit has one more feature. It has a 3rd ROM slot for the Utility ROM. So, you can keep 2 programs loaded in the computer. You can swap ROMs in less than 10 seconds, so it's no big deal, but an extra slot is nice. Once attached, the Multi-Unit actually becomes part of the computer.

### GENEVA USER'S GROUP

There is a terrific guy who knows just about everything about the Geneva, including where to find all types of software for more diverse applications.

It's a free bulletin board. If you have a modem now, you can log on by dialing 1-313-538-6968. The SysOp, as system operators are called, can answer questions and even supply you with public domain software.

He's been an incredible help to me and he's got everything from a spelling dictionary to an outline formatter to games. He can even produce ROMs for you or direct you to various bulletin boards you'll find of interest.

Since he doesn't work for DAK, I can't guarantee he'll always be there, but he has been for me, and at least you'll get a running start on doing a whole lot more than you, or frankly Epson, probably ever imagined with this computer.



Here's the 2nd included Modem. It's an external Acoustic Modem.

One last word about modems. If you're  
Next Page Please. . .



...Epson Continued on the road, you may need Epson's \$129 acoustic coupler modem. It fits on pay phone and hotel room handsets (the rounded traditional kind only).

It's a 300 baud modem that you can use with any computer. It has its own internal ni-cad batteries and its own charger. Wow, this is some system.

#### PRINTER HEAVEN

We've acquired a superb \$299 List Price NLQ (Near Letter Quality) printer from Seikosha, Epson's sister company. It can take single sheet plain paper or letterhead or fan fold computer paper.

And its printing is so good that I think **Near Letter Quality** doesn't do it justice.

It's fast, quiet and easy to use. It's AC powered. It has a Self Test Mode, Bold, Underline, Condensed and Expanded Type capabilities. It's a superb value at \$299, but to be honest, I've seen it selling for as little as \$199.

This printer is the best NLQ printer I've used. I'm proud to have my important business letters produced on this printer mailed from my office.

I can't overemphasize what a powerful word processing system this is. You can even do text screen dumps (print out exactly what you see on the screen).

#### AND YOU THOUGHT THAT WAS ALL

Epson didn't include free cables to connect any of these devices, but we have. You'll get a \$29 cable to connect the Geneva to the printer or to your desk top computer.

But, does your computer have male or female Serial plugs? Well I don't know, so we've included a \$19 Gender Bender so you can connect to male or female.

For external modem use, you'll need what's called a Flip (included). It's a \$19 value and it makes Epson's cable suitable for a modem. So, wherever you take your Geneva, you can plug in.



#### THE BEST FREE PART OF ALL

We've written an easy to understand, step by step instruction book that basically instructs you how to take the computer out of the box and how to plug it in.

**Then in step by step detail**, you'll get into each facet of its basic capabilities.

Of course, you'll get a massive set of individual instruction and reference manuals from Epson and MicroPro too.

By the way, if you suffer from fear of spreadsheets and modeling, in an hour you'll be a confirmed user. MicroPro's Calc tutorial is fabulous.

#### WHY SO CHEAP?

It's a terrific \$1,968 system. And, that's just the problem. Epson designed and built very sophisticated equipment. But they relied on salespeople to explain what was needed to consumers.

Many salespeople don't understand why you need each component and what it does. So, only the very sophisticated

consumers who figured it out themselves were able to put together a really productive system.

**Enter DAK.** Epson was stuck with 6714 computers. We made them a ridiculously low offer (we frankly didn't think they'd accept) for everything. Well, 6714 computers isn't very much to a company the size of Epson, so they accepted.

Then, we sifted through all the components and chose just the most useful, added the printer, the cables and the programs required and slashed the \$1,968 retail price down to just \$699.

Every Epson Component is backed by Epson's standard one year limited warranty. And, the printer is backed by an almost unbelievable 2 year limited warranty from Seikosha.

#### THE COMPLETE COMPUTER SYSTEM RISK FREE

Wait till you experience the power and your own increase in productivity, as I have. I'm amazed at the amount of work I can get finished in half hour segments if I'm stuck at a restaurant or during unexpected breaks between meetings.

What's even more exciting, is that instead of transferring the work to my PC when I get home, I like the keyboard on the Geneva so well that I'm finishing what I start, right on the Geneva.

Just imagine working at your desk, on the patio or in a hotel room. I actually wrote an ad on a flight from Atlanta to Boston. I'm 100% sold on this computer.

If you're not 100% satisfied with its typing or computing or communications capabilities, simply return it in its original boxes within 30 days to DAK for a refund.

To order your Epson Geneva 64K portable computer complete with Portable WordStar, Calc, Scheduler, Basic and CP/M Utilities, On-Board Direct Access Microcassette Deck, Built-In Ni-Cad Batteries, AC/Charger Adaptor, Extra 64K RAM Disk Wedge with 300 Baud Modem, External 300 Baud Acoustic Modem, Communication Software, NLQ Sheet and Fanfold Printer, plus Cable and Connectors, forget the suggested retail price of \$1,968. Call toll free or send your check for just **\$699 plus \$18 for P&H.** Order Number 4610. CA res add tax.

#### OPTIONS

Once you attach the Multi-Unit Wedge or options below, the computer initializes itself to the installed component. So, the following 2 options are **instead of**, not in addition to, the Multi-Unit.

If you don't need the extra 64K RAM disk memory, you can have the complete system with a Wedge that contains only the Modem for just **\$629 (\$18 P&H)** Order No. 4611.

If you don't need a modem and you're into writing long novels, we have the complete system less the modem and CompuServe package but with a Wedge that gives you a 120K RAM disk (Wow!) for just **\$799 (\$18 P&H)** Ord. No. 4612. **Note:** You can still use an external modem.

For the many people who already own basic Genevas, you can purchase the \$460 retail, 120K RAM disk for just **\$200 (\$5 P&H)** Order No. 4613.

#### OPTIONS FOR EVERYONE

For massive storage we have Epson's state of the art 3 1/2" floppy disk drive. It's rated at 320K. It has internal Ni-Cad Batteries and an AC Adaptor/Charger. Ep-

son's retail is \$599, plus \$19 for the Cable and \$17 for the Utility Disk for the drive. It plugs directly into the Geneva's serial port and boots automatically. This \$635 value is yours for just **\$189 (\$5 P&H)** Order No. 4614. **Note:** You may connect up to two disk drives.



A box of 10 Double Sided Double Density 320K Floppy Disks is just **\$34 (\$1 P&H)** Order No. 4615. **Note:** 3 1/2" disks are the standard format for many of the newest computers.

High Grade Microcassettes for the cassette drive are available in 30 and 60 minute lengths. They come in hard plastic boxes. 30 minute microcassettes are just **\$2<sup>90</sup>**. (\$0.50 P&H). Ord. No. 4616. 60 minute microcassettes are just **\$3<sup>90</sup>**. (\$0.50 P&H). Ord. No. 4617.

The Seikosha printer comes with a unique long life ribbon (up to 2 1/2 million characters). Extra ribbons are just **\$7 (\$1 P&H)** Order No. 4618.

You'll buy or download software as you broaden your computing needs. Epson had some great programs in stock.

You can have Travelers Pack: Time, Appointment, & Expense manager which is fabulous for a lot of reasons. But, if you bill your time, it lets you feed in projects and multiple billing amounts for each client. Each program is on its own ROM and it's a \$139 retail value. It's yours for just **\$29 (\$2 P&H)** Order No. 4619.

Epson even had a small supply of Ashton-Tate's dBase II on ROMs for the Geneva. It's a sophisticated relational database management program. It's file compatible with desktop dBase II versions. It's a \$469 retail value that's yours for just **\$199 (\$3 P&H)** Order No. 4620.

Epson also has Ashton-Tate's dBTraveler on ROMs which is a less expensive version of dBase II with most dBase II functions. It's also file compatible with desktop versions of dBase II. It's a \$329 value that's yours for just **\$129 (\$3 P&H)** Order No. 4621.

As you can see from the above software, the Geneva can run even the most complex, sophisticated programs. It makes duck soup out of most of the standard \$20 to \$99 programs you'll find.

For your desk, your home or for the great outdoors, you'll be able to write, forecast, and compute with mammoth power and in real style. Like a PT Boat, this computer moves in fast and does the job while it lets you escape the chains of traditional desktop PCs.



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8200 Remmet Ave., Canoga Park, CA 91304

# Escort Refuses!

Dear Customer, *From: Drew Kaplan*

Escort turned down our \$10,000 head to head challenge described below. Escort says that Maxon's Radar Detector is "primitive", "bottom-end" and "an off-shore produced electronics 'gadget' ". I don't know about you, but to me these words conjure up visions of a cheap toy being produced off in the middle of a rice paddy somewhere in the middle of nowhere.

Escort, on the other hand, which is made in the U.S., exudes a high cost, quality image. Don't you just bet that it costs a fortune to build Escort and Passport (the smaller version)?

Well, we are going to challenge Escort **AGAIN** to a head to head 'duel to the death' on Maxon's electronic merits alone. And, we plan to win. But first there are a few things you should know.

Cincinnati Microwave, the company that makes Escort & Passport, is a public company. And being public, they have to file financial information with the SEC.

The public information they have published appears to show that in the year that ended Dec. 1985, Cincinnati Microwave with "substantially all of its revenues and profits derived from the sale of radar warning receivers" made an operating profit of about \$45,810,000 on sales of about \$112,605,000. Wow!

The \$45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes.

Their cost of sales (goods) was only about \$40,027,000. So, if you divide \$40,027,000 by \$112,605,000 it doesn't take a genius to figure out that cost of goods represents an average of only about 35.5% of selling price. Wow!

I only bring up their profit to illustrate that a high retail price doesn't always

mean a high manufacturing cost.

There's no question in my mind that Maxon can manufacture cheaper in an off-shore 'rice paddy', but if you pay \$245 for Escort or \$295 for Passport, it should be based on a head to head test with Maxon, not on perceived retail price points.

## FORGET PRICE COMPLETELY

So, forget that Escort costs \$245, Passport \$295, and Maxon \$99<sup>90</sup>. Let's judge them on their own merits. And, let's look at just what Escort itself has to say about our challenge. (Please read DAK's and Escort's letters to the right.)

Escort says that, "Regardless of the results, such an event lends credibility to the challenger." Well, they are absolutely correct. That's why I put up the \$10,000 in the first place. Fair is fair.

Plus, there are several radar detectors that claim to have won this or that ranking in "Independent Magazine Reviews." So, I'm ignoring any reviews and asking for a one on one, head to head test.

**But look at what Escort says in their letter:** "Range is the easiest detector quality to measure, but by no means the only important quality." Wow, I thought range was really important?? Escort refers to "goodness" being determined by things not so easily measured.

Well frankly, I don't know how to measure "goodness". Escort, in my opinion,

is a top notch company. They make a superb product I'd be proud to sell. And, they have great customer service.

DAK has great toll free technical and regular customer service. But, I'd be the first to admit that with over \$45 million in profits, Escort can probably run circles around us in advertising, and maybe even in service. But, I don't think they can beat Maxon's Radar Detector.

## HOW GOOD IS GOOD?

When Escort was introduced, it was revolutionary. But, you can only go so far. And in my opinion (someone else might object), radar detecting has gone about as far as it can go. So, while Escort has made improvements, it's Maxon who has moved mountains to catch up.

## DAK UPS THE ANTE TO \$20,000

Now I realize that next to \$45 million dollars, \$20,000 isn't much, but it's a lot to DAK. And, I'll even go one step farther. I'll print the exact results of the test, win, lose, draw, or no-show in the first catalog I publish after January 1, 1987.

Escort, the ball is now in your court. Below is the "NEW" version of my challenge with the time and amount changed.

I don't know what else DAK or Maxon can do to prove that the RD-1 Superheterodyne Detector should be judged on its head to head performance against Escort, not on its selling price!

WAS \$10,000

# A \$20,000 Challenge To Escort

*Let's cut through the Radar Detector Glut. We challenge Escort to a one on one Distance and Falsing 'duel to the death' on the highway of their choice. If they win, the \$20,000 (was \$10,000) check pictured below is theirs.*

By Drew Kaplan

We've put up our \$20,000 (was 10). We challenge Escort to take on Maxon's new Dual Superheterodyne RD-1 \$99<sup>90</sup> radar detector on the road of their choice in a one on one conflict.

Even Escort says that everyone compares themselves to Escort, and they're right. They were the first in 1978 to use superheterodyne circuits and they've got a virtual stranglehold on the magazine test reports.

But, the real question today is: 1) How many feet of sensing difference, if any, is there between this top of the line Maxon Detector and Escort's? And 2) Which unit is more accurate at interpreting real radar versus false signals?

So Escort, you pick the road (continental U.S. please). You pick the equipment to create the false signals. And finally, you pick the radar gun.

Maxon and DAK will come to your highway with engineers and equipment to verify the results. And oh yes, we'll have the \$20,000 check (pictured) to hand over if you beat us by more than 10 feet in either X or K band detection.

## BOB SAYS MAXON IS BETTER

Here's how it started. Maxon is a mammoth electronics prime manufacturer. They actually make all types of sophisticated electronic products for some of the biggest U.S. Electronics Companies. (No, they don't make Escort's).



Bob Thetford, the president of Maxon Systems Inc., and a friend of mine, was explaining their new RD-1 anti-falsing Dual Superheterodyne Radar detector to me. I said "You know Bob, I think Escort really has the market locked up." He said, "Our new design can beat theirs".

So, since I've never been one to be in second place, I said, "Would you bet

\$20,000 (10) that you can beat Escort?" And, as they say, the rest is history.

By the way, Bob is about 6'9" tall, so if we can't beat Escort, we can sure scare the you know what out of them. But, Bob and his engineers are deadly serious about this 'duel'. And you can bet that our \$20,000 (was \$10,000) is serious.

... Next Page Please



... Challenge Continued  
**We ask only the following.** 1) The public be invited to watch. 2) Maxon's Engineers as well as Escort's check the radar gun and monitor the test and the results. 3) The same car be used in both tests. 4) We'd like an answer from Escort no later than December 31, 1986 and 60 days notice of the time and place of the conflict. And, 5) We'd like them to come with a \$20,000 (was \$10,000) check made out to DAK if we win.

into action in just 1/4 of one second.  
 Just imagine the sophistication of a device that can test a signal 4 times in less than 1/4 of one second. Maxon's technology is mind boggling. **But, using it isn't.** This long range detector has all the bells and whistles. It has separate audible sounds for X and K radar signals because you've only got about 1/3 the time to react with K band. There's a 10 step LED Bar Graph Meter to accurately show the radar signal's

And you'll have a very high level of protection. Maxon's Dual Conversion Scanning Superheterodyne circuitry combined with its ridge guide wideband horn internal antenna, really ferrets out radar signals.



By the way Escort, we'll be happy to have our test around a bend in the road or over a hill. Maxon's detector really picks up 'ambush type' radar signals.

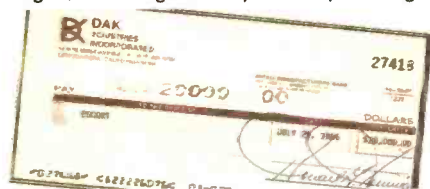
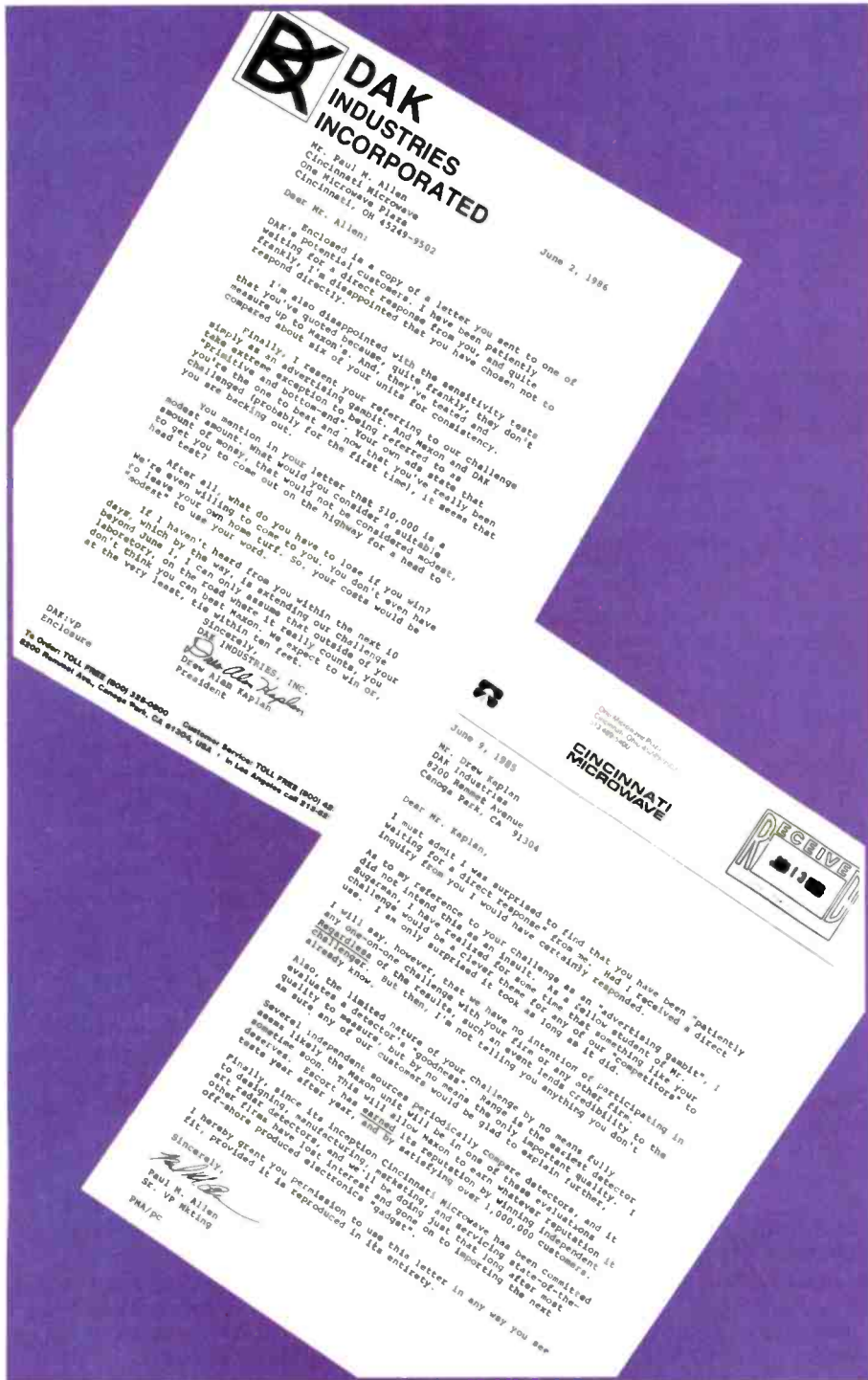
And the key word is 'radar', not trash signals. The 4 test check system that operates in 1/4 second gives you extremely high protection from signals from other detectors, intrusion systems and garage door openers.

So, when the lights and X or K band sounds explode into action, take care, there's very likely police radar nearby. You'll have full volume control, and a City/Highway button reduces the less important X band reception in the city.

Maxon's long range detector comes complete with a visor clip, hook and loop dash board mounting, and the power cord cigarette adaptor.

It's much smaller than Escort at just 3 1/2" Wide, 4 3/4" deep and 1 1/2" high. It's backed by Maxon's standard limited warranty. Note from Drew: 1) Use of radar detectors is illegal in some states.

2) Speeding is dangerous. Use this detector to help keep you safe when you forget, not to get away with speeding.



**CHECK OUT RADAR YOURSELF RISK FREE**

Put this detector on your visor. When it sounds, look around for the police. There's a good chance you'll be saving money in fines and higher insurance rates. And, if you slow down, you may even save lives.

If you aren't 100% satisfied, simply return it in its original box within 30 days for a courteous refund.

To get your Maxon, Dual Superheterodyne, Anti-Falsing Radar Detector risk free with your credit card, call toll free or send your check for just \$99<sup>90</sup> (\$4 P&H). Order No. 4407. CA res add tax.

OK Escort, it's up to you. We've got \$20,000 (10) that says you can't beat Maxon on the road. Your answer, please? Escort and Passport are registered trademarks of Cincinnati Microwave.

**SO, WHAT'S DUAL SUPERHETERODYNE?**  
 Ok, so far we've set up the conflict. Now let me tell you about the new dual superheterodyne technology that lets Maxon leap ahead of the pack.  
 It's a technology that tests each suspected radar signal 4 separate times before it notifies you, and yet it explodes

strength. And, you won't have to look at a needle in a meter. You can see the Bar Graph Meter with your peripheral vision and keep your eyes on the road and put your foot on the brake.  
 So, just turn on the Power/Volume knob, clip it to your visor or put it on your dash. Then plug in its cigarette lighter cord and you're protected.

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# VIDEO

## VOCABULARY

**SLANG**, jargon, and technical terms are all over the place in our modern high-tech world. Video is no exception, as almost monthly a new term is created for a new device or a new technology. Video isn't really all that different from its audio counterpart; only the words are dissimilar. So, if you want to increase your video vocabulary, just read the video terms below and their descriptions.

**Audio dubbing.** Transferring audio signals from another VCR or sound source to videotape without affecting the video signal.

**Beta.** A videocassette format developed by Sony in 1975, and marketed by Sony, Aiwa, Toshiba, and Sanyo. Beta uses half-inch videotape and has a cassette smaller than the VHS cassette. Beta tapes play only in Beta VCRs.

**Beta I, II, III.** Recording and playback speeds for Beta video recorders. For an L-750 tape, Beta I gives 1.5 hours of recording time, Beta II 3 hours, and Beta III 4.5 hours.

**Betamovie.** The Beta camcorder, which uses a full-size Beta cassette.

**Black level.** See DC restoration.

**Block converter.** Also known as an *upconverter*, this device allows you to add an extra video source into your antenna or cable system by inserting the source onto any unused UHF channel.

**Cable-ready.** Many cable systems provide VHF and special midband and superband channels. Normal TV

by Dawn Gordon

tuners cannot receive the midband (between VHF channels 6 and 7) and superband (between VHF channels 13 and 14) channels. A cable-ready TV or VCR can receive them.

**Camcorder.** A video camera that has a video recorder built into it. Available for full-size VHS, VHS-C (for compact cassettes), Beta, and 8-mm videocassettes.

**CED (Capacitance Electronic Disc).** The RCA-developed videodisc system that used a stylus-in-groove approach to generate video images and stereo sound. Called "needlevision" by some reviewers, the CED format never gained a wide market acceptance and was discontinued by RCA.

**Channel lock.** A VCR feature that locks the channel being recorded to prevent accidental channel change.

**Character generator.** A device used with (or as part of) a video camera to insert letters and titles onto videotape recordings.

**Chroma.** The encoded color signal. A complete video waveform consists of luminance, chroma, and sync signals.

**Comb filter.** A comb filter is a circuit element used to provide better separation of the luminance and chroma signals.

**Commercial killer.** A device that's designed to cut out commercials while time shifting. One unit works only on black-and-white program-

ming where it senses the color burst of a commercial and puts the VCR into pause until the black-and-white programming appears. Others look for fade to black and then rewind back to the point where the ads started.

**Component TV.** A TV system that you can buy in component form. The monitor (tube and driver circuitry), tuner, and speakers are all separates. In many cases, the stereo amplifiers are housed in the monitor, while the tuner chassis contains video and RF switching capabilities. The component TV system is less prevalent today because of the popularity of the monitor/receiver.

**Convergence.** A color TV image is formed by three scanning electron beams producing images in video's three "primary" colors (red, green, blue); these must be precisely aligned with each other on the screen to form a sharp composite image. If the three beams don't converge at the same spot, the result is colored fringes at the edges of objects in the image, as well as a less crisp image.

**Copyguard.** Trademarked names for processing applied to a prerecorded videotape, or TV transmission. Typically, the 60-Hz vertical sync pulses are weakened, with the expectation that when they are further weakened in copying the tape, the image will roll vertically during playback.

**CX noise reduction.** CX stands for Compatible eXpansion, a companion (compression and expansion) system developed by CBS to lower background noise of LPs, but now primarily used as a noise-reduction



system for laser videodiscs. CX works by making the loud parts softer and the soft parts louder during encoding, and then reversing the process during playback.

**dbx.** A noise-reduction system designed for audio that compresses the signal during encoding and expands the signal during playback to restore the original dynamic range. dbx I is the professional version, and dbx II, commonly used in cassette decks, is the consumer version.

**DC restoration.** The overall brightness or darkness of the television image is represented by the DC level of the video signal. In many older or inexpensive sets without adequate DC response, the screen fades to minimum grey (rather than black) between scenes and exhibits poor contrast in night scenes. Many new TV sets have special circuits and power supplies that ensure accurate restoration of the DC levels in the video signal as it is fed to the picture tube. As an incidental side effect, DC restoration circuits alter the behavior of the brightness and contrast controls. Back in the old days, the brightness control set the average brilliance of the picture while the contrast control quite literally adjusted the contrast between the light and dark areas of the picture. In a set with 100% DC restoration, the contrast control sets the "black level" (the darkness of the black areas) while the brightness control ("picture" in many newer sets) adjusts the "white level" (the brilliance of the highlights).

**Dynamic Noise Reduction (DNR).** A noise reduction system that does not require the encode/decode approach that dbx and Dolby use.

**Dolby.** For VCRs, Dolby means Dolby Stereo, a way of dividing the linear soundtrack into two channels for stereo and using Dolby circuits to reduce the concomitant noise.

**Earth station.** A home satellite system consisting of a satellite dish, an LNA (low noise amplifier) and a satellite receiver to pick up the signals and tune to the channels.

**8mm.** A VCR format that uses 8mm sized tape (close to 1/4-inch size) instead of the regular 1/2-inch variety. Some 8mm decks include PCM digital audio and can record audio only for up to 24 hours on a VCR.

**Footlamberts.** A specification used to measure the light output of a video source. Unlike other methods, a footlambert rating measures the reflected light that reaches the viewer rather than the total light output from the source, making it useful for measuring projection television brightness. A good figure for rear projection sets is 180-250 footlamberts, and 250-300 is considered excellent. Depending on the screen configuration, anywhere from 9-150 footlamberts is typical with front projection TVs.

**Ghost.** When a direct TV signal is merged with the same signal bounced off of tall buildings and mountains, you get ghosts. Because the bounced signals arrive at the TV receiver later than the direct signal, they appear as multiple images, often in varying colors on color sets. A rotary antenna that is able to rotate towards the optimum direction of the signal helps to reduce ghosting.

**Hi-Fi sound.** In 1982 Sony introduced the first Hi-Fi VCR. Called Beta Hi-Fi, the system afforded greater dynamic range, 80 dB of S/N, and much better sound than the best linear stereo VCR. Instead of using the linear stereo tracks on the edge of the tape for audio, the Beta camp took a different route and inserted the audio information in between the chroma and luminance portions of the video signal. Because the video heads could lay down the audio signals (which don't require anywhere near as much bandwidth as video signals) in that newly created gap, superior audio performance could be produced. Half a year later VHS came up with its Hi-Fi system. By using a depth multiplexing arrangement whereby two separate audio heads put down the audio information in the deep layers of the tape with the video signals on top, VHS decks could produce the same results as Beta Hi-Fi machines.

**Interlace.** TV frames are made up of pairs of successive 260-line fields whose scan lines are supposed to be evenly interlaced. Imperfect interlacing of the scan lines in alternate fields is a common problem in TVs. With severe cases, the pairs of lines drift together, forming a coarse picture.

**Large-screen TV.** Any TV with a huge screen. More specifically, another name for projection television. The term is also used to refer to the

latest breed of 35-inch conventional tube television sets.

**LaserDisc.** A system which uses a laser to read microscopic pits etched into the metal surface of a 12-inch disc. It is a noncontact system and, like the Compact Disc, wear-free. A protective coating is used on the disc to protect the metal surface.

**Linear Stereo track.** Instead of having a single mono audio track on the edge of the videotape, there are two—one for each channel. Inexpensive VCRs use this approach instead of Hi-Fi sound. In most cases, Dolby B is used for noise reduction.

**Lumens.** The light output of a video source. This measurement, unlike footlamberts, measures the light output at the source itself.

**Luminance.** That portion of the NTSC color television signal which contains the picture's brightness information. Black-and-white TVs use only luminance information, ignoring chroma signals.

**Lux.** Lux is a measurement of the light sensitivity of a video camera. The lower the figure, the more light sensitive a camera's pickup electronics are. And the more light sensitive a camera is, the better it will function in low light situations.

**Macro.** A type of lens that enables focusing at very short distances (often a few inches) from the subject.

**Monitor.** Just the video screen and the box to hold it, with no tuner to receive channels or a speaker.

**Monitor/receiver.** A television monitor with a built-in video tuner and direct video inputs for a VCR, videodisc player, computer video game system, or other video sources.

**Multichannel TV Sound (MTS).** Otherwise known as stereo TV. The transmission uses a Zenith system for receiving MTS, and dbx for noise reduction. The first stereo broadcast occurred on July 26, 1984, when Johnny Carson beat the Olympic games by two days and delivered his monologue as a stereologue.

**Multi-event programming.** The ability of a VCR to record numerous different programs on different channels while unattended. A specification

might read, "14-day/4-event programming." This means that the VCR will allow programming of four different events up to 14 days in advance. An event can consist of many shows as long as the channel doesn't change; once the channel changes you use up an event.

**Noninterlace.** A noninterlace TV set scans the video lines in numerical sequence rather than in alternate lines on alternate fields, affording a smoother picture.

**NTSC.** The system of encoding color signals for broadcast, using a 3.58-MHz subcarrier for color information, selected as the U.S. standard in 1953 by the National Television Standards Committee. Critics of the system claim that the initials stand for "Never Twice the Same Color." (Other systems for color broadcasting, used in Europe and South America, are PAL and SECAM which are incompatible with NTSC.)

**PAL.** A European TV system that stands for Phase Alternate Line, and features 625 lines as opposed to our 525. It's used in England, among other countries.

**Projection TV.** A TV set which projects an image onto a wall or screen. The two common types are front projection, which bounces the image off the screen or wall, and rear projection, which shines the image on the back of the screen while it is viewed from the front.

**Resolution.** The resolution (the amount of fine, distinct detail) across the width of the screen is basically limited by the frequency response (bandwidth) of the video circuits and by the convergence. The resolution in the vertical direction depends on the accurate interlace and also on the convergence. Sometimes the resolution is expressed numerically as the number of video "lines" (alternating black and white stripes in a test pattern) that can be squeezed into a picture without their blending together into grey video mush. A figure of 350 lines or higher for both horizontal and vertical resolution is considered excellent for home video equipment.

**RF.** Radio frequency or low-frequency signal.

**RF modulator.** A very low-power radio transmitter which accepts video and audio signals and transmits them

via a cable to the antenna terminals of your TV, usually channel 3 or 4. An RF modulator is included within videodisc players, VCRs, and video games and in some home computers to permit displaying their signals on the TV set's screen. A few TV sets are equipped with direct video and audio inputs, avoiding the need (as well as the potential signal degradation) to convert the video and audio signals to radio frequencies and subsequently demodulate them in the TV-receiver circuits.

**RGB input.** RGB (for red, green, blue) stands for the three primary colors that produce a color TV picture. An RGB input can be found on high-priced video monitors, monitor/receivers, and, most often, on computer monitors. Because this input allows video signals to bypass the tuner and RF sections of a TV, and feed the three primary colors to the tube directly, higher resolutions of anywhere from 400 to 800 horizontal lines are possible. RGB inputs are generally designed for computer use. However, there are two types of RGB inputs: digital and analog. There are two digital types. One has just red, green and blue signals plus horizontal and vertical sync, and the other has an additional signal called *intensity*. This is the type used with IBM Personal Computers. Analog RGB inputs allow for thousands of more colors to be displayed than the digital types, which only afford 8 and 16 colors, respectively.

**Scrambling.** In recent years, many premium cable TV programmers such as HBO and Showtime (and soon major networks) have started scrambling their satellite broadcasts using a system developed by MA/com called VideoCypher II. This system prevents unauthorized reception of scrambled broadcasts by home earth station owners, bars, hotels, condominiums, anyone with a satellite dish, and, most important, unauthorized TV stations. Home satellite dish owners can receive scrambled broadcasts by buying a special decoder and subscribing to each scrambled service separately.

**SECAM.** A European TV system featuring 625 lines. It can be found in France, among other countries.

**Second Audio Program (SAP).** A mono channel broadcast along with the two channels of stereo sound in the Zenith/dbx multi-channel TV sound system. The SAP is used for

bilingual programming, and other additional commentary.

**Signal-to-noise ratio (or S/N).** Video noise, which is analogous to tape hiss in audio recordings, appears as "snow," colored "confetti," or (at low noise levels) a grainy texture in the picture. A video signal-to-noise ratio of 42 dB is good; 45 dB or higher is excellent.

**Simulcast.** The ability of a stereo VCR to take the audio recording output from an FM tuner and mix it with the video picture. This is helpful when radio stations simultaneously air stereo TV audio (for concerts and other special events) while the TV station provides the mono audio and video. Because of the emergence of MTS this practice is fading.

**Snow.** Video noise which appears on the screen as thousands of white dots.

**SP, LP, SLP.** Speeds of recording or playback for VHS videocassette recorders: the acronyms stand for Standard Play, Long Play, and Super Long Play. Some recent VCRs label the SLP speed EP, for Extended Play.

**Stereo TV.** A television set ready, willing and able to receive stereo broadcasts, with a built-in decoder, stereo amplifier, and speakers.

**Stereo decoder.** A device, either built into a TV or outboard, which decodes the stereo TV broadcast signals and sends them to the speakers in the TV or to a home audio system. A decoder is necessary for the stereo signals that are broadcast to be heard.

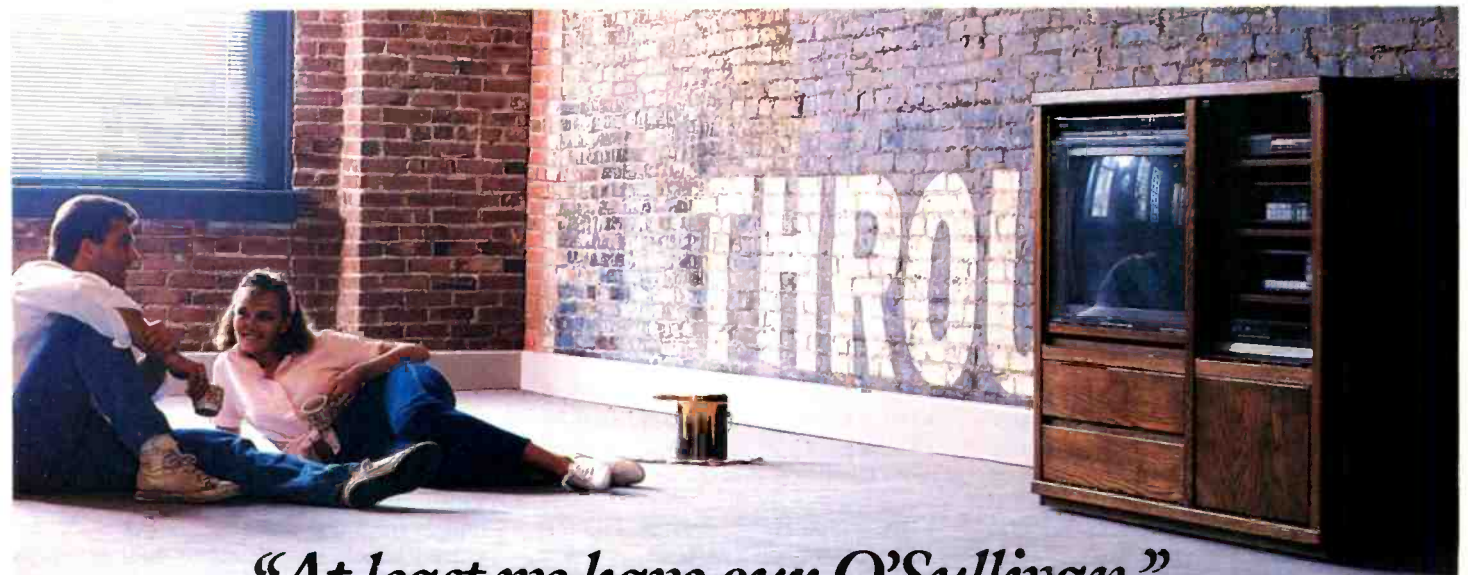
**Stereo-Ready.** A TV set that has a multiplex input designed to accept an external MTS decoder. Such TVs usually have built-in stereo amplifiers and speakers.

**SuperBeta.** A Sony-designed system that increases Beta VCRs' horizontal resolution by 20 percent. Instead of the previous 240 lines, Superbeta decks will afford up to 290 lines.

**Surface Acoustic Wave (SAW) filter.** A filter built into TV sets to eliminate interference from adjacent channels on the transmission band.

**Surround sound.** Not to be confused with 4-channel or SQ systems fashionable in the mid-seventies, surround sound decoders have become quite popular lately. Just like 35-mm movies in the theatre (where space-





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Model 72630



TV Cabinet  
Model 72620



TV/VCR Cabinet  
Model 74635



Microwave Oven Cart  
Model 60690



Audio Cabinet  
Model 52650



Entertainment Center  
Model 75680

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ships fly over your head and explosions occur behind you), these home decoders extract rear-channel information from prerecorded stereo videocassettes and videodiscs of films released after 1975. The decoders work by taking the out-of-phase (L-R) information encoded onto the tape or disc, and sending it to a pair of rear speakers. This is accomplished by using a combination of a matrix decoder, steering logic (to keep the front and rear channels separated), and usually a 30 millisecond delay. Some decoders have built-in amplifiers for the rear speakers and extra outputs for a center channel (to keep dialogue in the front center), side speakers and a subwoofer.

**Switchers.** With people buying numerous VCRs, videodisc players, TVs and video games, it's usually a big hassle connecting everything together. Switchers are designed to allow the connection of numerous sources to one another. Some switchers have four inputs and three outputs, and others have as many as 20 inputs and outputs. Most switchers are RF types, and some others are designed for direct video only; a handful can handle both. Aside from the A/B switcher, which has two inputs and one output, almost all switchers allow dubbing from one source to another.

**Sync, Synchronization signals.** The synchronization signals or timing pulses that lock the electron beams in the picture tube in horizontal and vertical step with the scanning detector of the originating TV camera. The chroma signal requires a special sync signal called a "color burst."

**Time shifting.** The ability of a VCR's tuner/timer to allow you to tape one program while you're watching another, and to record programs while you're away.

**TVRO.** Television Receive Only. Basically, another name for a satellite earth station. Receive Only means that the system can only receive and not transmit signals.

**Two-way splitter.** An inexpensive and very small device that splits an incoming RF (radio frequency) signal enabling you to send it to two or (in the case of a three-way splitter) to three units.

**UHF.** Ultra-high frequency signals which are channels 14 through 88 on most television tuners.

**VHD.** Video Home Disc is a JVC-designed videodisc system that combines the best features of the CED and laser videodisc systems. Like CED, a caddy protects the surface of the disc, and like laser the pickup is a noncontact type. VHD and its audio companion AHD (for Audio Home Disc) never made it to the U.S. market. However, VHD is quite popular in Japan.

**VHF.** Very High Frequency, used for TV signals. Channels 2 through 13 on most television tuners.

**VHS.** Video Home System. The format of most videocassette recorders in the U.S. Like Beta, VHS cassettes hold half-inch tape, but the two formats are incompatible: VHS tapes play only in VHS machines, and Beta tapes play only in Beta machines. VHS cassettes are slightly larger than Beta cassettes and much larger than 8-mm cassettes.

**VHS-C.** VHS-Compact, a type of videocassette designed for VHS-C camcorders and portable VCRs. VHS-C tapes can be played in ordinary VHS machines with the use of an adapter. Each VHS-C tape can record 20 minutes in some machines and up to an hour in others.

**VHS HQ.** A new VHS picture improvement system that sharpens the edges in the video image and reduces video noise.

**Video processor.** Also known as a signal processor, this device is generally used when dubbing from one video source to another. A video processor can be an image enhancer, which preserves fine details that are usually lost during dubbing, or it can be a color processor, which is used to revive color on old tapes, to correct inaccurate colors, or just for special effects.

**Video input.** Also known as a direct video input, this jack is usually represented by an RCA phono receptacle. Because this input bypasses the tuner and RF circuitry of a TV receiver, signals from sources such as videodisc players, computers and VCRs go directly to the video circuitry in the TV. The result is a cleaner and sharper picture. Many monitor/receivers and VCRs have direct video inputs and outputs, as well as direct audio inputs and outputs.

**Video stabilizer.** Video stabilizers are used to defeat copyguard systems

found on some prerecorded videotapes. The better units work for different types of copyguarding systems.

**Video Amplifier.** A signal booster (usually boosting the signal by 10 dB) that's generally used when you have long cable runs or when you use accessories such as switchers and signal splitters that reduce the signal strength.

**Videodisc.** See CED and laser videodisc.

**Video dubbing.** Transferring video images from one video source (VCR, videodisc, etc.) to another. Editing may be done while dubbing simply by not recording the material you do not want to appear on the copy.

**Video heads.** Video heads are used to lay down the video signals onto videotape. A video head is actually a U-shaped piece of ferrite material with its opposite ends wrapped in coils of wire to create both the north and south poles of an electromagnet. At least two heads are required on the average VCR. Each head is dedicated to recording and playing back half of a complete TV frame (otherwise known as a field). During what's called "helical scanning," thirty frames are recorded every second, and the tracks for sixty fields are placed onto the tape with every adjacent pair of tracks containing the information needed to construct one single frame. Some VCRs have 3, 4 or sometimes 5 heads to provide special effects such as freeze frame and slow motion for each VCR speed.

**Video tuner.** A chassis containing the circuitry needed for tuning to a desired television channel. See Component TV.

**Videotext and Videotex.** Two systems of transmitting computer graphics, news, weather information, etc., to TVs equipped with special decoders. Videotex, which is received through standard over-the-air broadcasting, is a one-way system, and Videotext, which requires a cable system for transmission, is a two-way interactive system whereby users can order tickets for sporting events and even use special electronic banking and shopping services.

**VSWR** (or simply SWR, for standing wave ratio). This is the ratio of maximum to minimum signals on a transmission line.



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# 1200 Baud Smart Duck

If it walks like a duck, sounds like a duck, and looks like a duck, it darn well better act like a duck. And ADC's new Hayes Compatible 1200 baud auto-answer/auto-dial modem is one heck of a duck. And, it's a market buster at just \$169.

By Drew Kaplan

Hats off to Hayes. They've just about written the book on specs and protocol for the 1200 baud modem market.

Every professional modem bills itself as 'Hayes Compatible'. But the big question is, how much does it really cost to make a top-of-the-line 1200 baud modem? Or, who's getting rich?

ADC's modem is made in the same factory, by the same people, as one of Hayes's biggest competitors. And, ADC is a division of BSR, the enormous half-billion dollar electronics giant.

So for \$169, you'll not only be getting a duck that quacks properly to Hayes modems, but sings like a nightingale to your pocketbook. It can save you a fortune in time with its extra features.

Don't forget. Now you'll get the \$39 value (DAK sold it for \$24) complete CompuServe Subscription Kit, including \$25 worth (Yes, that's twenty five dollars. Wow!) of on-line time, added by DAK, when you buy ADC's Modem.

## DUCK SOUP

Any computer with an RS232 standard serial port, will work flawlessly with this modem. And, virtually any modem or terminal software that's compatible with Hayes, will be compatible with ADC.

We've even got intelligent programs, cables, and interfaces (if you need them) to activate your IBM PC or Clone, and your Apple IIE or IIC. Of course, you can supply your own cables and modem programs for these computers or for any other computer you may own.

I've owned a Hayes 1200 baud modem for about 2 years. I just unplugged it and plugged in ADC's to operate my Hewlett-Packard dumb terminal which I use at home to monitor DAK's computer.

The only differences I noted were improved monitor sound, more screen displays and a help menu. And oh yes, one last extra. I use a few local data bases whose phone lines are always busy.

Well, ADC's intelligent modem recognizes a busy signal, hangs up and keeps retrying the number every 30 seconds.

There are less important (to me) extras like day, date and time, an extra phone jack and auto tone/pulse switching. So, you'll love it for discount services.

## DO YOU NEED TO KNOW?

Just think, you can transform your PC into a terminal that can interact with main-frames. You can download information from your main office computer and run Lotus, Wordstar, or you name it. It's all possible with your PC and modem.

You can exchange information with other computers. Say you're a writer, you can send a chapter from your home or office in Los Angeles to New York, have it edited and sent back to you.

You can even send it directly to typesetters and have a book or a newsletter prepared from your transmitted file.

It's really great when drafts of contracts are flying back and forth. Why retype everything over and over again?

Electronic mail lets you type in your message and you won't have to worry

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about playing telephone tag any longer.

You can get the weather in Baltimore, the latest quote on your company's stock, or even reserve a seat on the next flight to Las Vegas. You can upload public domain software (there's an enormous amount of free software) or sample the newest programs before you buy.

There are pay data bases like CompuServe and The Source that have information about anything, and thousands of free bulletin boards about everything from Ham Radio to Parapsychology.

There's even a book that lists and describes such diverse data bases as one with 6500 references about coffee, to one with 2,000,000 on agriculture.

Of course, economics, medicine, law and computers are all well represented.

## THE TECHNICAL SIDE OR, WHY 1200 BAUD?

The ADC Modem will communicate at 1200 baud (about 120 characters per second) or 300 baud (about 30 characters per second) automatically, depending on the link at the other end.

So, it's clearly a decision of money and time. 1200 baud is roughly 400% faster than 300 baud, so if you transfer data across the country, you save 400% on your phone bill. And think of the time \$169 can save you!

If you download material from pay data bases, even though some charge more for 1200 baud, you still come out way ahead because of the amount of information you get per dollar.

It comes with a modular phone cord that you simply connect to any standard modular jack. And, it uses standard Bell 103 and 212A protocols. It operates in half or full duplex.

Its built-in microprocessors let you automatically answer in-coming (auto-answer) calls & act on all Hayes commands.

It even waits for dial tones and phone network tones during auto-dial. The modem is 9 1/2" X 5 1/2" X 2". It's backed by ADC's standard 1 year limited warranty.

## HOOKING IT UP MADE EASY

All you need is a serial output, a cable and a modem program. Use your own for any computer. Or you can use ours for the computers below. All our modem programs on disk let you save, upload

and download files. Look how easy it is.

If you own an IBM PC or a Clone, usually you'll find an RS232 serial port already built-in. All you need is our cable and modem program on disk, which we've packaged together for just \$29 (\$3 P&H). But, before you order your cable, you may need a short sex education course.

Sex Education 1A. You need to determine whether your computer's RS232 connector is male or female.

If you look at the picture below, you'll note that ADC's RS232 Modem connector has holes going in. It's a female. If it had copper pins sticking out, it would be a male. Now wasn't that simple?



So, if yours is female, order our male cable and modem program Or. No. 4353. If you have male pins sticking out, order our female cable, Order No. 4354.

If you don't have an RS232 port, we have a serial interface card for your IBM or Clone, complete with cable and modem program for \$99 (\$4 P&H). Or. No. 4355.

For your Apple IIC, your serial interface is built-in. All you need is our cable and modem program on disk. They are just \$29<sup>90</sup> (\$3 P&H). Order No. 4356.

For your Apple IIE, you'll need a serial interface with an RS232 port, a cable and a modem program. It's all yours for just \$89 (\$4 P&H). Order No. 4357.

## 1200 BAUD SMART DUCK RISK FREE

For business or pleasure, you'll communicate, gather information and save time. If you aren't 100% satisfied, simply return it in its original box to DAK within 30 days for a courteous refund.

To Order Your ADC 1200 Baud Intelligent Modem, now including CompuServe's Complete Subscription Kit (nothing else to buy), with \$25 worth of on-line time, risk free with your credit card, call toll free or send your check for DAK's market busting price of just \$169 plus \$6 P&H. Order No. 4334.

The OnLine Directory of over 1,100 Data bases, complete with descriptions  
...Next Page Please



...Modem Continued  
is just \$14<sup>95</sup> (\$2 P&H). Order No. 4358.

The ducks will be sure to be quacking up a storm when they see BSR's factory direct, through DAK, price on this state-of-the-art 1200 baud intelligent modem.



### A LOOK AT COMPUSERVE & MORE

Get a date, check your stocks, leave E-Mail, or post messages on Electronic Bulletin Boards. Transfer files or download public domain programs. Let your computer bring you the wealth of elec-

tronic information that's on-line.

Imagine dialing a number and hooking up to a free Electronic Bulletin Board where people post messages about everything, from new jokes (I've signed onto a joke bulletin board.) to computer equipment they want to sell.

Most are free, some cost money. But until you are on-line yourself, no brief description that I can give you will even scratch the surface of what's available.

But, let's take a brief look at part of the menu (index) that you'll have at your fingertips when you log onto CompuServe. I've used CompuServe's names or descriptions. This is by no means complete. And CompuServe is just one of many data bases available to you.

No matter what your interests are, you'll spend hours on-line learning about things, making plane reservations or even playing logic games. And, on most bulletin boards, you'll find the numbers of other bulletin boards.

### PARTIAL COMPUSERVE INDEX

AIRLINES, ARTS (Art & Literature), ATARISIG (Atari Forum), AVIATION (Aviation Forum), BANK (Home Banking), BANSHI (Ban-shi Game), BROKER (Brokerage), Business (Business Menu), C64SIG (Commodore 64 Forum), CASTLE (Castle Telengard Game), CBIG (CB Interest Group), CBMSIG (Commodore Programming Forum), Clarke school (For the Oeal), COCO (Color Computer Forum), COM-MOODITIES, CP/M, CQUOTE (Current Quotes), DEMOGRAPHICS (SuperSite), DISCLOSURE (Public Company Details), EARNINGS (Earnings Projections Menu), EASY (EasyPlex), ECONOMICS, EDUCATION, EMAIL, ENCYCLOPEDIA (On-Line Grolier's Academic American Encyclopedia), ENGINEERING (Engineering Menu), ENTERTAINMENT (Entertainment Menu), ENVIRONMENT (Environmental Forum), EPIE (EPIE Forum), FINANCE, FINTOL (Personal Finance), FLIGHTS (Travel Menu), FOOD, FORUMS (Menu of Forums), GAMES (Menu of Games), GOURMET (Electronic Gourmet), HEALTHUSERS (Health Users Group), HOBBIES (Hobbies Menu), HOLLYWOOD (Hollywood Hotline), HOME (Home Menu), HOTELS (A to Z Hotels), IBMNOVICE (IBM Novice Forum), IBMSIG (IBM Users Forum), INSURANCE, INTERESTS (Other Interests), INTERFACE, INVESTMENTS (Investments Menu), IQINTERFACE (IQ Interface Program), LAWSIG (Law Forum), LEGAL (Legal Menu), LEISURE (Leisure Travel Menu), LIBRARIES (Home Reference Menu), LOTUS (World Of Lotus), LOVE (Love Messages), MAGAZINES (Electronic Publishing Menu), MAUG (Apple Users Group), MEDICAL (Medical Menu), MOVIES (Movie Reviewettes), MSOFT (Microsoft Users Group), S&P (Standard & Poors), SCI-FI (Science Fiction Forum), SCIENCE (Science Education Forum), SHOWBIZ (Showbiz Quiz), STATE (Department of State), SPORTS (Sports Menu), TECHNOLOGY, TICKER (Ticker retrieval), VACATION, VIDEO, WEATHER (NOAA Weather Wire), WINEFORUM (Bacchus Wine Forum), and MUCH MORE.

On one board, I found the numbers of 40 other boards. Wow, there's so much information, education and entertainment.

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# Computer Power Controller

**Protect your computer and 5 peripherals from spikes, turn everything on and off from the front & swivel your monitor.**

By Drew Kaplan

It's great. Now you don't have to reach around the back of your computer to turn it on. And not only can you turn on each peripheral separately, you can turn them all on or all off with one switch.

But there's more. This all new Power Controller is much more than just a fancy 'octopus' that supplies you with 6 outlets to get rid of cumbersome tangled cords.

It aids in the prevention of damage caused by voltage surges and spikes. It then goes on to filter your AC to help protect your equipment and data from line noises caused by power disturbing air conditioners, refrigerators and the like.

And look at this. It protects your equipment from itself. There are 4 separate filtered sections. So, your computer will be protected from your printer, modem or other peripherals.

on the back. 5 are switched from the front. One is unswitched but spike protected so you can leave a peripheral on.

Each of the 5 switched outlets has a non-glare status light so you know what's on. Push a button for on/off control.

You can swivel the monitor from side to side. So, if you have a separate keyboard, you can really type in comfort.

Above, you can see The Power Controller between the Visual IBM® Compatible Computer and its monitor. It is 1 3/4" high, 13 3/4" wide and 12 3/4" deep.

You can use it with virtually any computer. (It can hang off the back up to 3 1/2 inches with no problem.) It's a perfect combination of convenience and protection for your computer system. It's backed by a limited warranty.

### PROTECTION & CONVENIENCE RISK FREE

I've only had my data wiped out once by a power surge. But, I had over 2 hours of irreplaceable 1st draft copy in my computer when it happened.

Now, I'm using my new Power Con-

trollers with 4 different computers. With this added protection, maybe I won't lose data again. And, I've learned to save my data much more often since my loss.

If you're not 100% satisfied, simply return it to DAK within 30 days in its original box for a courteous refund.

To order your 6 outlet Power Controller with Spike Protection, Line Filtering, Circuit Breaker and a 10' 3-wire grounded power cable risk free with your credit card, call toll free or send your check for DAK's blockbuster price of just \$79 (\$6 P&H). Order No. 4623. CA res add tax.

I like the convenience. It's something that helps me every day. But, I'm thrilled with the added protection. If it even helps once, it's worth many times the cost.

**DAK INDUSTRIES INC.**  
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Any Other Inquiries. . . . 1-800-423-2866  
8200 Remmet Ave., Canoga Park, CA 91304



### BUT IT'S CONVENIENT

There are 6 protected 3-wire outlets



**\$49<sup>50</sup> BREAKTHROUGH!**



When you are at rest, so is your heart. A low resting heart rate usually means you're in good condition. Have you checked yours?



When you exercise, you should reach your heart's target zone. But, have I reached my exercise target zone, or just had too much coffee?

# Heart Window

**Now you can exercise, rest, swim or go out to dinner wearing the latest in computer pulse takers on your wrist. Plus, it's a talented sports watch and a formal dress watch too.**

By Drew Kaplan

It's a fact. You can tell a lot about yourself from your heart rate. You can evaluate the condition you are in, how much stress you are under, and how hard you should be exercising.

Think about it. How fast does your heart beat when you climb a flight of stairs? And how long does it take for your heart rate to return to normal?

Well, if you're at all like me, you may be a little out of shape. While I'm only 37, several friends of my own age have recently had heart attacks. And frankly, I'm getting just a bit worried.

You see, I am getting past the point where I can simply say, "I'll get back into shape next year."

So, whether you're a long distance runner (this is the ultimate jogging companion), or just a few pounds overweight like I am, your heart rate will give you a picture of your heart and body's condition.

Now you can take your heart rate anytime, anywhere with the newest in sophisticated electronic pulse takers.

And best of all, this heart computer is contained in a beautiful 24 hour alarm, 24 hour chronograph, LCD watch, that you will be as proud to wear with a coat and tie as you are when you're running.



## YOUR HEART'S TARGET ZONE

Your heart, just like any other muscle in your body, requires exercise. Unfortunately, unlike your arms, you can't see your heart's condition just by looking.

The type of exercise called aerobic exercise is specifically designed to exercise your heart. The purpose of aerobics is to reach your heart's target zone.

So what is your target zone? Your target exercise zone is between 60 and 80% of your maximum heart rate. And here's an easy way to figure it out.

Simply subtract your age from 220 beats per minute. So, for me at 37, my maximum heart rate is (220-37) or 183.

So when I exercise I should get my

heart rate up to at least (183 X 60%) or 110 beats per minute, and no higher than (183 X 80%) or 146 beats per minute.

With the Heart Window to help me, I can be sure that my workouts are valuable for my heart and neither dangerous escapades or total wastes of time. Of course, **before beginning any exercise program you should consult your own doctor.** Note: The Heart Window is designed to indicate your pulse rate and aid your exercise, not to make medical diagnoses. **BUT ISN'T EVERYONE DIFFERENT?**

Here's the really exciting part. The worse shape you're in, the faster you'll reach the target zone and the less work you'll have to do to stay in the zone.

You see, as you get in shape, your heart doesn't have to beat as hard to do the same amount of exercise. Just as when you work out with weights your arms become stronger, your heart becomes stronger with aerobic exercise.

So the Heart Window is safe for the beginner or the athlete. And, you'll really see your improvement as you exercise.

**But you don't have to exercise.** Just wearing the Heart Window and using it at the office when you're under stress, after you've walked up some stairs or around the block, will make and keep you aware of your body's physical condition.

**And look at this.** Sit down at your desk and take your pulse. Then drink a couple of cups of coffee and take your pulse again. You'll see just what your morning 'pickup' actually picks up, and if, God forbid, you smoke, take your pulse before and after a cigarette. Wow!

## ALL ELECTRONIC

With Innovative's new Pulsemeter watch, you'll have supreme accuracy. It's like a direct electronic line to your heart.

You see, unlike other pulsemeters that use a light shining through your finger, or a microphone to take your pulse, this instrument actually measures the electrical impulses that cause your heart to beat.

The back of the watch is one receptor, and the metal touch sensor on the front of the watch acts as the other sensor. Just touch the sensor, and you'll see your pulse on the large LCD Display. **IS IT A DRESS OR SPORTS WATCH?**

Innovative Time thinks that everyone interested in their pulse must be a pro-

fessional athlete. So, they've built this watch with all the athletic extras.

It's not only water resistant, it's guaranteed to 60 feet (although you can't actually take your pulse underwater). It has a stopwatch, a lap timer, and dual finish mode. Its band is made of very tough polymers. So, it's a sports watch.

But wait, I don't like black watches for dress. So, I've gotten Innovative to add a deluxe matching stainless bracelet to the watch. It's rendered in stainless and black and is a perfect high fashion choice. So, it's a dress watch.

Plus, there's a 24 hour alarm and an hourly chirp. The stainless band is great for sports or dress. So, you'll get the watch with the black band on it and the high fashion band packed with it, compliments of Innovative Time's superb engineering and DAK's good taste.

The Heart Window is backed by Innovative Time's 1 year limited warranty and comes with a 1 year battery in place.

## TRY THE HEART WINDOW RISK FREE

Now you can look at your heart as easily as the time. You'll see how you react to stress, foods and exercise. Don't let DAK's low price confuse you. Take this pulse watch to your own doctor and have him test it.

Try the Heart Window risk free. Try exercising and then check your cardiac recovery rate. If you don't like what you see, you'd better keep the watch. But if you just don't like the pulse watch, simply return it within 30 days in its original box for a courteous refund.

To order your Heart Window, Pulse Sports/Fashion Watch, complete with 2 bands risk free with your credit card, call toll free or send your check for just **\$49.50** plus \$3 for postage and handling to DAK. Order No. 9844. CA res add sales tax.

In the gym, at the track or at the office, you'll have a direct connection to the condition of your heart.



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INDUSTRIES INCORPORATED

TOLL-FREE ORDER LINE

For credit card orders call 24 hours a day 7 days a week  
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# Fat Watcher Plus

Now you can walk or jog around the block, walk around the office or even around a trade show, and know how far you've traveled and how many calories you've burned. Use the alarm to set calorie and distance goals.

By Drew Kaplan

No, you don't have to be fat. And no, you don't have to be a marathon runner. However, if you are, you're going to marvel at the feedback you'll get from this new electronic Body Monitor.

Before we explore how you can use this Body Monitor's capabilities to aid you in losing weight (as it is me) and to measure your training achievements, let's look at some interesting curiosities.

If you're like me, you've probably wondered just how far you go when you walk around the block. And, every year I attend the Consumer Electronics Show and I've always wanted to know how far I walk.

Since my plane always seems to be at the last gate at every airport, I've wondered just how far I go. I've also been curious about how much ground I cover in an average day at the office.

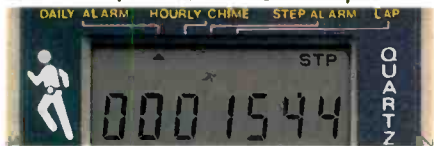
Well now, not only will I know how many steps I've taken, I'll know how many miles or hundredths of miles I've gone and how many calories I've burned.

Now we will know it all. And, with the ability to set goals, we can use this monitor to help achieve our desired fitness.

## ONE STEP AT A TIME

It all starts out with one small step. Just clip the Body Monitor on your belt or waist band and away you go.

First it counts your steps. As you can see below, I've taken 1544 steps.



It knows how far you've gone because you set it to your particular stride length. As you can see, I've got mine set at 2½ feet. But you can set yours from 0 to 7'.



Because it knows your stride length, it automatically calculates the distance you travel. Just touch a button, and as you can see, I've traveled 0.58 miles.



Push the button again, and you can see how many calories you've burned. The Body Monitor has a built-in table that calculates an average of how many calories you've burned, based on the number of steps you've taken.

And, you can be even more accurate by adding your exact weight to the body meter's reading. A formula is included.



What's really great is that you can set a target for yourself to achieve. Here I've set 2500 steps. When I reach 2500 steps, an alarm will sound to tell me that I've achieved my goal.



But steps aren't very interesting, so you can set the alarm to let you burn 100 calories or go 3 miles. It's all calculated through the steps, so it's really easy.

Let's say I want to eat an ice cream sundae. It has 260 calories. So, I'd have to walk 5200 steps. I'm forgetting the piece of cheese or maybe even a cookie.

Using the Body Monitor for running or walking lets you see just what you've accomplished. And while I can't speak for you, I personally work and play best when I set goals.



The Body Monitor lets me set and achieve goals. So, it's been a terrific aid in my personal fitness program.

By the way, it's 1.03 miles around my block and I burn about 105 calories.

I'm really excited about finding out just how far I walk at the Consumer Electronics Show, but I'll have to wait till it opens in January to find out.

**SO MUCH MORE**

It may look small, but it has so much inside. It has a built-in clock with hourly chime, so you don't have to wear a watch.

It has a stopwatch, accurate to 1/100th of a second resolution. And not only does it have a lap timer, it has first and second place finishes.

But, with all its frills and all its great curiosity satisfiers, it's really a precision fitness aid.

So, if you walk, jog or exercise, the Body Monitor can aid in measuring what you've accomplished. It comes with a one year battery, and it's backed by a one year limited warranty by Innovative Time, the Pulse Watch People.

## SATISFY YOUR CURIOSITY RISK FREE

I've been dieting and exercising for years. I use my pulse watch all the time and it tells me how I'm doing. Now the new Body Monitor gives me feedback as to what I'm accomplishing.

And, I particularly like the goal setting alarms. Now, instead of watching my watch to see when I've run enough, an alarm sounds when I'm through. Plus, it's really neat to know how much ground you've covered around the office or around the block.

If you're not 100% satisfied, simply return it to DAK in its original box within 30 days for a courteous refund.

To order Innovative Time's Body Monitor with Step Counter, Mileage Counter, Calorie Counter, Stop Watch and Goal Setting Alarm, call toll free, or send your check for DAK's breakthrough price of just \$39<sup>90</sup> (\$3 P&H) Order No. 4651. CA res add tax.

It's great for fitness, but I'm wearing mine to work and even around the house. It's small in size, but it sure feeds back a lot of exciting information.

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# a rose by any other name

*It's the sweetest phone that this writer has ever used. From its elegant good looks to its elegant sounding speakerphone, it's a class act. And, it remembers and dials up to 200 numbers by THE NAME of the person you want to call. Plus, it's now available in ivory and 1-line models too.*

By Drew Kaplan

It's not red. And it has no aroma. But it is definitely a rose amongst the thorns. Here's an all new name dialing 2-line conferencing speakerphone that will revolutionize your concept of telephones.

As president of DAK, I've tested hundreds of phones. Some are very good and you will find them in DAK's catalog. But, I've never used a better sounding, more useful phone, at home or at the office, than the phone pictured above. Let me tell you some of the reasons why.



## FIRST, IT DIALS BY NAME

I hate having to remember phone numbers. With this phone, all I do is push the 'H' button when I want to dial Home. The 'D' button dials DAK. And, the 'I' button dials my insurance broker.

Most other dialers make you remember location numbers, such as '26' for 'Mom'. So, you're really just substituting one number for another. Now, all I need to remember is the person's name.

Where I have more than one name that begins with the same letter, I can scroll through the names before it dials, or enter just the first 3 letters. So, if I want to dial Howard instead of home, I push 'H', 'O', 'W'.



It's quick, it's easy and you'll never have to remember or look up and dial anyone's number again. Each memory location can hold up to 32 digits and you can store up to 200 different names. It has a memory capacity of 4096 digits.

You can store your Sprint and MCI codes with the person's name, in a separate location that the phone automatically accesses as it dials, or totally separately so that you can automatically access the service and then dial a number manually.



And speaking of manual dialing, you don't even have to push the speakerphone button to dial. When you touch the first number on the dial, the phone automatically seizes the line, turns on its speaker, and you have on-hook dialing.

So, you never have to lift the receiver or activate the speakerphone unless someone answers the line.

## FORGOTTEN HANDSET

This phone has the latest K2 handset. It gives you traditional Phone Company fit and feel, yet, I find it even more comfortable to use.

But, you'll probably never use it. The speakerphone is so powerful, so clean, and so easy to use, you'll never pick up the handset unless you need privacy.



I've used good speakerphones before, but this speakerphone's sound quality rivals an in-person conversation, not a phone call. How's that for a description of a phone you can try on a 30 day risk free trial?

## 2-LINE MASTERPIECE

You can select Line 1 or Line 2. And, you can push 'Conference' to combine both lines for convenient business conferences or friendly group calls with friends. There are LEDs that show which line is 'In Use', 'On Hold', or 'Ringing'. And, there are different rings for each line.

Installation is a breeze. It simply plugs into one standard modular 2-line jack or two modular 1-line jacks. Nothing could be simpler. Just plug it in.

## PAGES OF HELPFUL FEATURES

The list of features would have to be microfilmed to fit on this page. There's a large LCD display that shows you the name you want to call and the number.

An automatic timer tells you exactly how long you've been talking. And, a clock appears on the display whenever you hang up.

Every conceivable feature from Mute to Tone/Pulse switching, to Pause, to Flash, to battery backup (2 C batteries included), to three direct Emergency Memory Keys and more is included.

There's even Automatic Redial which will redial a busy number for you every 30 seconds.

## YUPPIE POWER

I'm anything but a yuppie, even though I just turned 40, but when you look at the sleek, swept back, silver-grey HiTec appearance, and when you examine its complete computer keyboard, you'll understand why it would warm a yuppie's heart. My heart is warmed by what it does, but I must admit it is impressive.

It's made by Colonial Data, a research company partially owned by one of the largest inter-connect (big business phone systems) companies in the world.

It is 9½" wide, and it's backed by Colonial's standard limited warranty.

## PUT NAME DIALING ON YOUR LINE RISK FREE

It's the best sounding speakerphone I've ever heard. Dialing by names instead of numbers is a quantum leap in both technology and convenience.

Now, I don't have to remember people's phone numbers. I just touch a 'C' for customer and let the phone do the rest.

If you are not 100% convinced, as I am, that this is the best sounding, most convenient phone you have ever used, simply return it in its original box within 30 days for a courteous refund.

To order your Name Dialing 2-Line Speakerphone with God only knows how many features risk free with your credit card, call toll free or send your check for DAK's breakthrough price of just \$129 (\$4 P&H). Use Order No. 4335 for Silver-Grey. Or, use Order No. 4452 for Ivory. If you'd like the 1-line model in Ivory without the 2-line features, it's just \$99<sup>00</sup> (\$4 P&H). Order No. 4453. CA res add tax.

In DAK's electronic world, where a new best is achieved almost every day, this phone stands out as the 'best' best I've ever had the pleasure of introducing. DAK and the 'a rose by any other name' phone are not affiliated with CXC Corporation's Rose Console.



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# Surround Sound & More Explained

*Journey into space, down mountains or through meadows as you sit in front of your TV. Now the bigger than life sound of a movie theater comes to your living room. Just wait till a space ship warps right through your couch!*

By Drew Kaplan

It's awesome. Cars will race out of your TV and through your room. You'll jump because gun shots are so real. And, if you're walking through a meadow, you'll hear crickets and birds all around you.

This is just the tip of the iceberg of the effect that you can expect when you connect this Surround Sound Processor to your stereo VCR or even monaural VCR.

## WHAT IT IS

There's just no two ways about it. You are right in the middle of the action. If you're watching an avalanche, you're in it.

If there's a storm, you'd better get your rain coat. Battles will be waged and you'll be right in the middle. And, it's all in your grasp, now!

This new Surround Sound Processor takes the stereo signal from your VCR (read on for monaural) and produces dramatic sound through its two front, shielded 2-way speaker systems.

Well, big deal. That's what you get from stereo. Ah, but hold on to your chair. Because, there are over 700 movies that have Dolby® Stereo Surround Sound encoded on them. Note: Most tapes just say Dolby® Stereo, not 'Surround' on them, but wait till you hear the effect.

Surround Sound has infused movies with life when you have been at a theater. But, now you can decode them at home.

The Surround Sound signal is obtained by matching the Left and Right Channel Phase relationships and sending the difference to the rear.

The engineers create these phase differences to provide the special effects from the rear. And let me tell you, it will knock you right out of your easy chair.

You'll also have variable rear delay to add to the rear speakers' effect. You'll have massive 3 dimensional movement.

So, unlike stereo where things only move from side to side, now they can also move from the front to the back.

Moving from 2 to 3 dimensional sound is mind boggling. There's absolutely no limit to the locations in your room from which any specific sound can come.

## FIRST FOR STEREO

Switch in Surround. You'll hear the movements begin all around you. You'll

hear laser blasts from the left, applause from all around you when you're at a ball game, or a freight train approaching you from the rear. Watch Out!

If the movie you are watching doesn't have Surround or you're watching Stereo TV, switch to 'Stereo'.



You'll receive a very powerful version of Surround that is created by this processor. You'll still have full front stereo.

Plus, you'll have the variable ambiance and movement cues from the rear. In fact, in many cases you'll find 'Stereo' to be even more powerful than Surround.

There's a second stereo button called 'Music' that is especially designed to add only ambiance to the rear, for musicals and music videos.



## BUT IS MONAURAL DEAD?

You haven't been left out. There's a third switch which infuses your monaural VCR or TV station with resounding life.

It's a highbred stereo synthesizer. First it synthesizes stereo for the front speakers. Then it synthesizes a third channel for the rear action effect.

Add the variable ambiance delay and you'll have sound all around you. It's amazingly full and rich.

You'll have all the effect of a star ship going through your room. But, it won't be with the precise location detail of the Surround Signal itself.

Don't despair. It's terrific. It's full and alive. If you don't have a stereo deck for direct comparison, you'd swear that you had real Surround Sound.

It's amazing. Your viewing of TV or video will never be the same again.

## EASY INSTALLATION

It's easy. Just put it on top of your VCR or TV. Then connect the audio output(s) from your monaural or stereo VCR to the decoder. And look at this. You can switch between two video sources.

Anyway, the rest of the installation consists of hooking up the 4 speakers. Put two in front and two to the side or rear (wire included) and you are ready for thrilling, throbbing AV excitement.

## ALL THE CONTROLS

You'll have control of everything. Of course you can select input 'A' or 'B'. And you can select Surround Sound, Stereo, Synthesized Stereo or Music.

There's a master volume control. Plus, there's an input level control. And, there's a rear effects level control.

You can also delay the amount of ambient delay from 10 to 30 milliseconds. Plus, there's balance, bass and treble.

The speakers are a specially sealed acoustic suspension design. You'll be amazed at the massive sound created by the 4 woofers and 4 tweeters. It's made by Universal, the cable specialists, and it's backed by their limited warranty.

## EXPLODE YOUR CONCEPT OF VIDEO RISK FREE

The realism of a space ship warping through your living room is unparalleled. If you aren't 100% enthralled, simply return it to DAK within 30 days in its original box for a courteous refund.

To order Universal's Video Surround Sound, Stereo, Synthesized Stereo and Music decoder and enhancer that will explode your concept of the capabilities of home video risk free with your credit card, call toll free or send your check for DAK's breakthrough price (including all 4 speaker systems) of just \$199<sup>99</sup> (\$12 P&H) Order No. 4690. CA res add tax.

Move from one or two dimensional video viewing to live, center of the action, thundering, 3 dimensional video sound.



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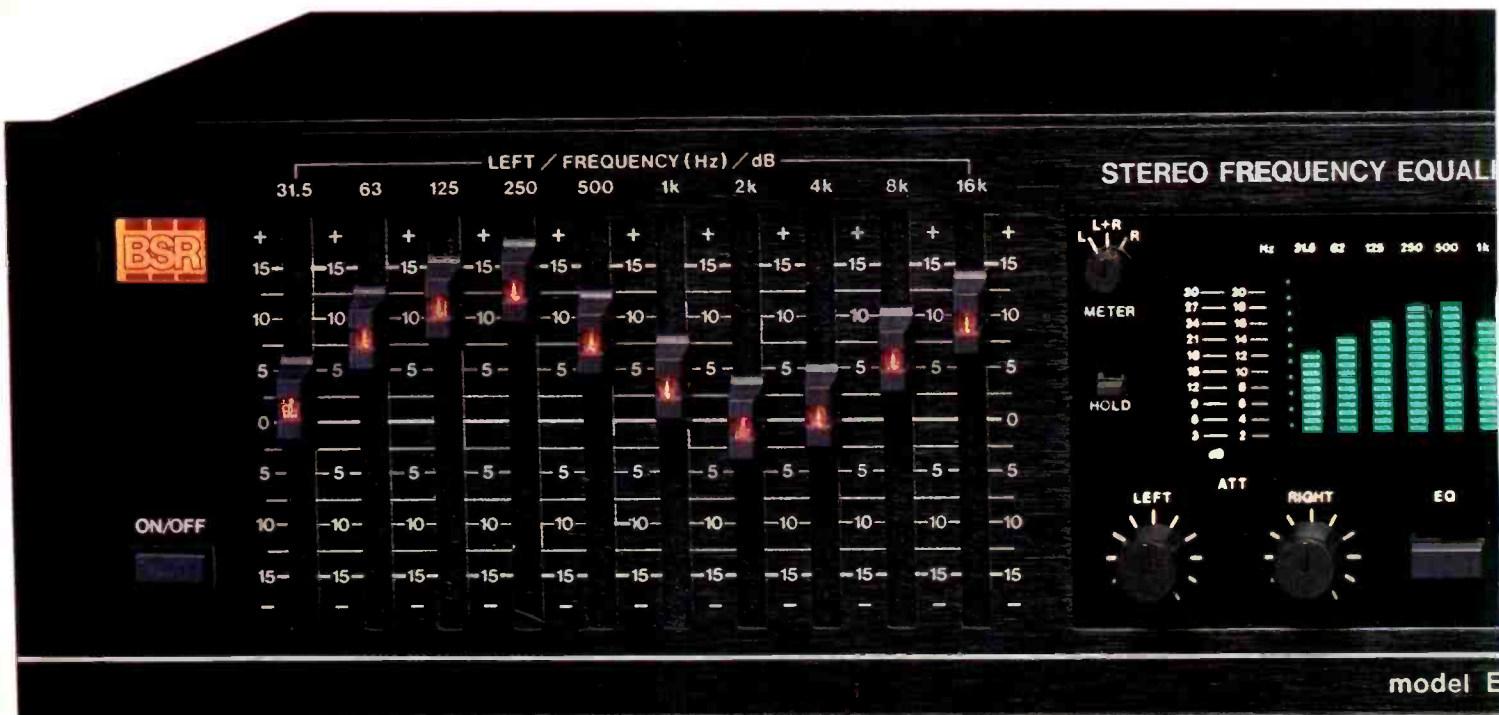
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# Smart Sound Detonator

**Obliterate the wall between you and the individual instruments in your music. Infuse your own stereo system's sound with a breathtakingly vibrant 30 to 50% improvement in sound quality that you can measure with this superb BSR Equalizer/Spectrum Analyzer limited \$149 close-out.**

By Drew Kaplan

Close your eyes. Touch a button. And you'll hear your stereo system literally explode with life.

You'll hear the gentle brushes on a snare drum, the startling bone-jarring realism of a thunder clap, or the excitement of a full cymbal crash.

You'll hear string basses and other deep low instruments emerge from bass (that will sound murky by comparison), with such clarity and such definition that you'll feel you can almost touch each instrument.

This astoundingly distinct yet powerful bass adds such a full bodied warm feeling to your music, you'll feel as if you've been lovingly wrapped in a warm soft blanket on a cold winter's night.

**But don't take my word for the sound quality improvement.** With the Pink Noise Generator, Calibrated Electret Condenser Mike and the 220 Element Spectrum Analyzer, you can instantly measure each and every improvement you make.

Plus, there's more. A subsonic filter effectively adds the equivalent of many watts onto the power of your amplifier.

Plus, with its provision for two separate tape decks including two way dubbing, you'll have much more than just greatly improved sound.

You can count on great sound from this top of the line Equalizer/Analyzer. It has a frequency response from 5hz to 100,000hz  $\pm 1$  db. And, it has an incredible 100db signal to noise ratio.

BSR, the ADC equalizer people, make this super Equalizer/Analyzer and back it with a 2 year standard limited warranty. Our \$149 close-out price is just a fraction of its true \$379 retail value.

**FIRST THE EQUALIZER  
YOUR STEREO'S HIDDEN SOUNDS**  
Your stereo can sound incredibly bet-

ter. Just a 5db roll-off at the high end, up around 14,000hz to 16,000hz, can just decimate the harmonics that give you the open feeling you'd experience at a live concert. A similar roll-off at 60hz, causes the fundamental bass notes to just fade away into the 'murk'.

An equalizer isn't some magical device that manufactures sounds that don't exist. Most of the frequencies that will make your music really vibrant, are actually already recorded in your music.

You'll be able to prove this with a few simple tests we'll try when we discuss the Spectrum Analyzer.

You see, certain frequencies are simply not reproduced with as much volume as are the mid-range frequencies which stretch from about 800hz to 2,000hz.

An equalizer simply lets you establish accurate control of all frequencies to fit your equipment, your recordings, your taste, and your listening environment.

## TOTAL MUSICAL CONTROL

And, what a job it can do. It's totally unlike bass and treble controls which simply boost everything from the mid-range down for bass, or everything up for treble. You can boost the low-bass at 31.5hz, 63hz and/or 125hz to animate specific areas or instruments.

And, when you boost the part of the bass you like, you don't disturb the mid-range frequencies and make your favorite singer sound like he has a sore throat.

The high frequencies really determine the clarity and brilliance of your music. The problem is that highs are very directional. Wherever you move in your listening room, you'll find a big difference in high end response, as you'll see when we test the Analyzer.

No recording engineer or equipment manufacturer can even begin to control your listening environment.

You can control the highs at 4,000hz, 8,000hz and/or 16,000hz, to bring crashing cymbals to life at 16,000hz while at the same time you can cut tape hiss or annoying record scratches at 8,000hz.

But there's more. Don't leave out the mid-range. You can boost trumpets at 300 to 500hz or a clarinet at 1000hz. You can boost or cut any part of the frequency spectrum a full  $\pm 15$  db.

## TAPE DECK HEAVEN

You can push a button and transfer all the equalization power to the inputs of two tape decks. Now you can pre-equalize your cassettes as you record them and get all the dramatically enhanced sound recorded right on your cassettes.

This is an especially great feature when you play your cassettes on bass-starved portables or high-end starved car stereos.



## SIMPLY PLUG IT IN

Use your tape monitor circuit, but don't lose it. Now your one tape monitor circuit lets you connect two tape decks.

Just plug the equalizer into the tape 'in' and 'out' jacks on your receiver or preamp. We even supply the cables.

As you listen to your records, FM or any 'Aux', any time you push the tape monitor switch on your receiver you'll hear your music jump to life.

The output from your receiver is always fed directly to your tape deck(s) for recording, and with the touch of a button, you can choose to send equalized or non-equalized signal to your deck(s).

When you want to listen to a tape deck, just select which tape deck you want, turn the switch on the equalizer,

model B



**\$149 CLOSE-OUT**



and your tape deck will work exactly as it did before. Except, now you can listen with or without equalization.

Look at this. You can dub tapes from deck 1 to deck 2, or from deck 2 to deck 1 with or without equalization.

#### THE SUBSONIC FILTER

Much of the power drawn from your amplifier is used to drive your woofers. When you drive the amplifier too hard, it clips and you end up with distortion.

A subsonic filter removes a lot of non-musical material you can't hear that exists below 20hz. So, it relieves your amplifier of a lot of work. It doesn't actually create more watts (Please, no letters from my 'technical' friends) for your amplifier.

But, it's like turning off the air conditioning in your car. It saves you using about 7hp of what you have. And therefore, you'll have more watts for clean powerful sounding music.

#### THE SPECTRUM ANALYZER

Now you can scientifically analyze your stereo listening room and test your equipment by using BSR's Real Time Frequency Spectrum Analyzer.

Plus, you'll see your music not as a single level on a VU meter, but as a kaleidoscopic parade of 10 individual 20 element VU meters.

Each is tuned to a specific octave of the sound spectrum. An eleventh 20 element meter averages all levels.

The effect is awesome. You can visually isolate a string bass or cymbal, and actually see each individual instrument almost as a wave moving across the 220 individual fluorescent elements.

#### THE MOUTH AND EARS

It talks. The Analyzer speaks with a voice of pure calibrated Pink Noise. Pink Noise is the standard composite 'sound' of all frequencies used for testing in labs around the world. All frequencies from 20hz to 20,000hz are generated at the exact same level at the exact same time.

It listens too. If you are testing a cassette or a component in your system, use the 'Line Button'. If you're testing your whole system with speakers, use the matched calibrated electret condenser

microphone (included). Either way, you'll have a quick, easy and accurate way to evaluate the total sound of your system.

#### HOW TO TEST

#### SPEAKERS, EQUIPMENT AND TAPE

Testing your speakers in your listening room is the really crucial test. Simply place the calibrated microphone where you normally sit to listen to your stereo.



At the end of an 18 foot cord is the ear of the system. Just clip the mike wherever you sit and test your room.

Turn on the Pink Noise. You can switch to Left Channel, Right Channel or both. There's a meter range button, a sensitivity control, and even a switch that lets you freeze the meter.

Just sit down at the equalizer. Start with one channel. You'll see all 10 octave bands on the meter. Just slide the corresponding controls to increase or decrease any area that needs help.

You have now set up your system to its maximum capability. But as you'll see, location is very important. Move the microphone 5 feet to the left or right.

Then turn on the Pink Noise and check the Spectrum Analyzer. Now you can see why the specifications that come with your system are only a starting point.

Here's a way to test your tape deck and tape. First record Pink Noise for 3 minutes at -20VU. Then play it back and note the readings on the meters.

Now, record the Pink Noise again at 0VU or +3. Wait till you see how much the high end falls off. Now you'll see why all specifications are listed at -20VU.

With the Equalizer/Analyzer you can enjoy the finest stereo sound from your system and be a test lab too.

#### WHY SO CHEAP

BSR now only sells equalizers under their ADC name. Well, as Detroit comes out with new cars each year, ADC comes out with new equalizers. We got them to supply us with just 30,000 of last year's

ADC model before they shut it down.

They had already paid for all the tooling, all the research and design, so we were able to buy these for less than half the normal price, for cold hard cash.

#### THE FINAL FACTS

There are 20 slide controls, each with a bright LED to clearly show its position. Each control will add or subtract up to 15db. (That's a 30db range!)

There are separate sound detonation slide controls for each channel at 31.5hz, 63hz, 125hz, 250hz, 500hz, 1,000hz, 2,000hz, 4,000hz, 8,000hz, and 16,000hz.

BSR backs this top of the line Graphic Equalizer/Spectrum Analyzer with a 2 year standard limited warranty. It is 17 1/2" wide, 3 1/2" tall and 8 3/4" deep.

#### MAKE YOUR MUSIC EXPLODE RISK FREE

It's startling. Music so vibrant with life you'll swear it's 3 dimensional. Sculpture your music any way you want it. If you're not 100% satisfied for any reason, simply return it to DAK within 30 days in its original box for a courteous refund.

To order your BSR EQ3000 Smart Sound Detonator 10 Band Graphic Equalizer with Real Time Spectrum Analyzer and Calibrated Mike, with Subsonic Filter and Two Way Tape Dubbing risk free with your credit card, call toll free, or send your check, not for the \$379 retail value. Don't even send the \$227.97 dealer cost. Send just \$149 plus \$8 for postage and handling. Order No. 4100. CA res add sales tax.

The sound of your stereo will explode with life as you detonate each frequency band with new musical life. And, you can see and measure exactly what you've done.



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8200 Rammet Ave., Canoga Park, CA 91304



SAME OLD DOG, BRAND NEW SUBWOOFER

# 15" Thundering Subwoofer

Man's best friend meets the audiophile's best friend at an earthshaking bone jarring new price. Now you can add the impact of a 15" subwoofer to any stereo system for just 99<sup>90</sup>.

By Drew Kaplan

A puppy may be man's best friend. Woof, Woof. . . But, now I've got a new friend you can add on to your stereo system. It doesn't need to be taken on walks, washed or fed. But, it makes a great cocktail table for you when you're being fed. And, oh what a woof it has.

## GREAT SOUND FOR EVERYONE

It's called a subwoofer. And, normally it is the beloved pet of only the most ardent audiophiles.

It's not generally understood that it can be used with virtually any speaker system in any stereo. And, in addition to substantially increasing and perfecting the bass response, it has a significant impact on the mid-range clarity too.

Before I tell you exactly how marvelous your stereo will sound when you connect this subwoofer to it, there are two things you should know.

First, you'll be getting your new friend at a phenomenal price. DAK has sold over 10,000 of Cerwin-Vega's 12" subwoofers. They had a retail price of \$332, but we sold them for \$154<sup>50</sup>.

Second, your new friend comes complete with a paid up health insurance policy in the form of a 2 year limited warranty from its father, BSR.

By the way, the puppy sitting on top of the subwoofer is the same puppy I used with Cerwin-Vega's, but wait till you hear what's under him now. You'll have BSR's 15" massive infusion of explosive bass, added to your system for just \$99<sup>90</sup>.

But don't be misled. BSR bass is clean and tight; never sloppy or overpowering. It adds a feeling of depth and fullness to your music that you simply can't get with two or 3-way speaker systems.

## HERE'S WHAT IT DOES

Basically, the problem with most speaker systems is that the bass overpowers the system. In a 3-way system, a woofer may be crossed over at about 800hz. And, in a 2-way system as high as 3000hz.

So, the woofer must handle movements of up to an inch at frequencies below about 80hz, while at the same time attempting to reproduce the very fine vibration type movements of the mid-range frequencies.

It is this difference in movements that causes both the bass to be weak or not precise, and the mid-range to become muddy (intermodulation distortion).

Even the best 3-way systems fall prey to these problems. And, it's why a subwoofer can do so much for your mid-range clarity as well as your bass.

## PROBLEM SOLVED

BSR's subwoofer has a specially engineered crossover network that sends frequencies above 120hz to your regular speakers and reproduces just the mammoth movement frequencies from 120 hz down to 22hz with a special floor firing dual wound super subwoofer.

If you have downstairs neighbors, this subwoofer isn't for you. The woofer is a very special hybrid. It has a mammoth one and one half inch voice coil which allows the speaker to make the very large



movements required to reproduce the very low frequencies.

But, it would do a lousy job of reproducing mid-range, which is why, cost aside, manufacturers don't put big voice coils in normal 10" or 12" woofers.

To make the massive movements accurate, this woofer has a very large magnetic structure. This magnetic structure also makes the subwoofer system extremely efficient. (The sensitivity is 91.5 db at 1 watt at 1 meter.)

So, whether you have two or three-way speaker systems, with 8", 10" 12" or even 15" woofers, you'll find the sonic improvements staggering.

You'll hear and feel the awesome effect of thunder rumbling through your home. You'll hear a depth and dramatic fullness to your music that won't be heavy but will thrill you with its massive strength.



Here's a 'floor's eye view' of the subwoofer. You'll feel and hear bass so alive, you'll think it is.

## EASY HOOKUP

It's easy to connect. Simply run the right and left speaker wires from your amplifier to the input terminals of the subwoofer. It works with any system from 20 to 150 watts per channel.

Then, you simply connect the speaker

wires from your two standard 8 ohm stereo speaker systems to the output terminals on the subwoofer. They receive the exact signal that they did before except that everything from 120hz down is routed only to the subwoofer.

Placement of your regular speakers is just as critical as usual for stereo imaging, but the subwoofer can be placed anywhere because low frequency material is totally non-directional.

The subwoofer makes a perfect cocktail or end table. Its rich wood-tone appearance matches any decor. It is 24½" long, 16¼" high and 20" wide.

## TRY AUDIOPHILE'S BEST FRIEND RISK FREE

The fullness, richness and depth is awe inspiring. Wait till you connect this subwoofer to your system and experience truly massive force from your music.

If you aren't 100% satisfied, simply return it to DAK in its original box within 30 days for a courteous refund.

To order BSR's Thundering Subwoofer with its dramatic 15" Dual Wound Voice Coil Subwoofer risk free with your credit card, call toll free, or send your check for DAK's breakthrough price of just \$99<sup>90</sup> (\$14 P&H). Or. No. 4514. CA res add tax.

You can't replace the love and softness of a warm puppy. But, wait till you experience the richness and depth this subwoofer will add to your bass and the clarity you'll hear in your mid-range.



**DAK INDUSTRIES INC.**

Call Toll Free For Credit Card Orders Only  
24 Hours A Day 7 Days A Week  
**1-800-325-0800**

For Toll Free Information, Call 6AM-5PM Monday-Friday PST  
Technical Information. . . . 1-800-272-3200  
Any Other Inquiries. . . . 1-800-423-2866  
8200 Remmet Ave., Canoga Park, CA 91304



# The Observers

*At the office or at home, you can scrutinize up to 4 separate areas with both picture and sound. New technology allows a single cable to both power a camera and carry the audio and video signals. There's even an automatic switcher for up to 4 cameras. It's all yours at an amazing new price.*

By Drew Kaplan

It does it all. And, it's absolutely terrific. You can monitor loading docks or swimming pools. You can watch for pilferage, shoplifting or accidents.

And, there's even an output for a video recorder so you can make a permanent record. Now you can see who comes and goes. And, you'll see what they do.

The system comes with a 12" video monitor, a sequential switching system that allows you to view up to 4 cameras from 4 to 60 seconds each, a camera complete with microphone, and an infinitely adjustable mounting arm.

You'll also get 57 feet of cable and you can add up to 300'. You can even add a weather resistant case for outside use.

## LOOK AT ALL IT DOES

The technological breakthrough that allows you to make a single wire installation lets you have sound and picture monitoring of all types of areas.

**Risk areas:** Monitor secluded side doors, corridors, equipment yards, tool cribs and other storage areas.

**Hazardous areas:** Prevent accidents or get help for one fast. You can see when people do unsafe things.

**Supervision:** You can't be everywhere at once. Now you can see who comes and goes. Monitor an entire night crew if you're on the premises, or have an 8 hour tape you can view in about 1 1/4 hours using high speed search on your VCR.

**Retail Protection:** Don't leave your employees alone in your store or in your parking lot or structure. Now the manager can be there to assist. And, you can have a recorded audio and video record.

**Theft:** From shoplifting to employee theft to vandalism, anonymity is the culprit's protection. With observation cameras, no one knows when they are being watched or when a recording is being made. It's a safety feature to protect employees from danger and to protect the company from all sorts of crime.



## NOT JUST FOR WORK

You can monitor your front door, your back yard and your pool. You can even monitor the animals in your barn or your baby in the bedroom. So, if you raise animals or children, you can always keep an eye on their safety.

And what a secure feeling for teachers, to be able to see the children on the yard at a nursery school. It's a perfect 'parent group' gift to your school or church.

**Always check local laws which may restrict some types of observation.**

## EFFORTLESS INSTALLATION



From 3 lux to 30,000 lux, you can watch what's happening with this superb new system. You'll be amazed at how sensitive it is at low light levels.

And, whatever you monitor, you'll have a superbly detailed high contrast picture.

While I wrote this ad, I had a camera aimed out the window. As it got dark, I couldn't see down the street. But the camera's automatic sensitivity adjusted, so I could see the street on the monitor almost as well as I had in the afternoon.

And best of all, the cameras are incredibly easy to install. You don't even need AC plugs where you mount them.

And, the infinitely adjustable mounting arms attach with only 3 screws to floors, walls or ceilings.

Switch on the monitor and press a camera button. All power for the entire system comes from the monitor/switcher.

You can have one or all 4 cameras connected. And, connecting the cameras is the simplest thing of all.

This system uses standard round coax type cable, just like your home's cable TV system. Through this standard cable, Magnavox sends power for the cameras.

And, the camera sends both audio and video signals back down the very same cable. So, installation consists of simply running one standard video cable.

The monitor has a built-in electronic switcher. Most automatic switchers that I've seen in surveillance, cost hundreds of dollars. With Magnavox it's included.

You set it to lock onto any camera for a minimum of 4 seconds and a maximum of 60 seconds, or pick one camera.



The signal (both audio and video) from all cameras being viewed can always be sent to your VCR for a permanent record.

**And there's more.** By simply running a standard video cable, you can also watch the output of the monitor on other

TVs in other rooms.

## ENDLESS USES

Think of the feeling of safety you'll have when you can monitor both the front and back of your home from the kitchen or the bedroom, or both.

The monitor is 12" wide, 1 1/2" tall by 12 1/2" deep. Each camera is just 9" deep, 4.5" wide and 2 1/2" tall and weighs 2 1/2 lbs. It's made by Magnavox and backed by their standard limited warranty.

## OBSERVE YOUR WORLD

### RISK FREE

Use it to protect your business or home, your employees, your family and your possessions. If you're not 100% satisfied, simply return it in its original box within 30 days for a courteous refund.

To order Magnavox's Observation System, complete with 12" Monochrome Monitor, 4 Station Electronic Automated Switcher, Black and White Camera, 57' of Cable, and Infinitely Adjustable Mounting Arm risk free with your credit card, call toll free, or send your check for only \$299 (\$11 P&H). Order No. 4415.

Each Extra Camera with Built-in Microphone, 57' Cable and Mounting Arm is just \$169 (\$4 P&H). Order No. 4549.

Weather Resistant Cases are just \$39<sup>90</sup> (\$3 P&H). Order No. 4550. CA add tax.

57' extension cables are just \$19<sup>90</sup> (\$2 P&H) Order No. 4551. Note: a pair of cable ends is included, so you can make your own cable, up to 300'.

You'll have a new sense of security when you can see and hear what's happening. And, by connecting a video recorder, you can have a permanent record of the comings, goings and actions of everyone on your property.



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## The \$999 Typewriter/Computer BOMBSHELL



# Unfair Competition?

## An Unfair Challenge to IBM's Typewriters and Computers

What if you and every secretary in your office could have powerful computers that were as easy to use, but cost less than IBM electronic typewriters? What if they also ran IBM compatible software? Well, now you can get this 256K IBM PC Clone, the Amber Monitor, the Letter Quality Printer, and The \$400 Software Library for just \$999.

By Drew Kaplan

Look around your office. Are your secretaries wasting time typing and re-typing letters and documents?

Well, throw out your dumb typewriters. Now typing on an IBM compatible computer can be as easy, and yes, cheaper than using an IBM electronic typewriter.

Every word you type can be stored in the 256,000 character memory or on floppy disks. So, when you make corrections to a letter or document, you'll never need to retype the whole letter again.

### 30 MINUTES TO PRODUCTIVITY

In 30 minutes you or your secretary will be comfortably typing letters faster than on any typewriter. This computer is so easy to use that there's no 'computer fear' from non-computer typists.

But, if you're looking for computing power, get ready to blast off. It is so powerful that it will run Lotus 1-2-3, Flight Simulator and every other IBM compatible program that we've tested.

In fact, the manufacturer states in the Operator's Guide that, "The computer is ultimately and completely compatible with the IBM Personal Computer."

Actually, typing letters is child's play for this sophisticated machine. But for \$999, it's sure to be the most popular typewriter in any office or even at home.

So, compare it to the typing ease and durability of say the new IBM Wheelwriter 5 at about \$1045, or a Xerox Memory-writer 625 at about \$1595.

Or compare just the computer section to the agility, speed, and intelligence of an IBM computer. Then, check our price.

### FORGET LIFT OFF CORRECTION

Think about making a change in the first paragraph of a letter you have dictated. Just mark up the draft copy and give it back to your secretary.

She can bring the letter back onto the 80 column 25 line Amber Monitor, make the corrections, touch one button and

the letter will automatically print out with your corrections and additions.

You'll never have to reread or re-proof retyped letters again for errors. And instead of spending 15 minutes retyping and re-proofing, your secretary can be working on your next project.

A typewriter-type word processing program whose commands flash on the screen, when needed, makes this the ideal transition from typewriter to computer.

Look how easy it is to use. Simply touch the F1 key at the left of the keyboard to delete a character. F2 deletes a word. And, F3 deletes a whole line.

F5 turns this machine into a line by line typewriter for typing directly onto envelopes or forms. F6 prints out anything on screen at any time.

This is a magnificently simple program that you or your secretary will be comfortable with in 30 minutes.

But when you are comfortable, you'll want to open our sophisticated \$400 Software Library that lets you really start to use the power of this computer.



[DAK's added Software shown with included Visual Manuals]

You can type in lists of your customer's or employee's names and addresses. Then create a letter, select which names you want to receive the letter, and the computer will automatically print out individualized letters for each person.

So if you want 5 people or 500 people

to be notified personally of your newest product or policy, now it's all automatic.

There's also a Budget Program, a Calendar Program and even a Portfolio Management Program we have included.

Of course you can use any IBM compatible PC programs from Lotus 1-2-3 to Norton Utilities. Or, you can buy other even more sophisticated word processing programs that even correct your spelling or give you an on-line thesaurus.

### MORE THAN A TYPEWRITER

This IBM compatible computer with its two 360 kilobyte drives, 256K random access memory (more is available), composite video and yes, even RGB full color graphics output, is made by Visual, the 5th largest manufacturer of office graphics terminals.

Visual's computer is loaded. It has both a Centronics parallel printer output (we've included a superb daisy wheel letter quality printer) and an RS232 serial communications port (yes, you can add a modem to access outside data banks, or your main frame computer).

Visual's 1985 price list shows a list price of \$1895 for this computer. And, that doesn't include the Amber Monitor, the Printer, or the Software Library that we've added. It just includes the computer and of course the IBM compatible MS DOS 2.1 operating system.

### WHY SO CHEAP?

Visual makes terminals. They thought they'd design a superb IBM Clone and sell it with their terminals.

Well it turned out that Visual's salesmen weren't equipped to sell computers and Visual had put too much money into these computers (the built-in color graphics, TTL output, 2 floppy disk drives and lots of other features) to sell them at today's stripped down prices.

So, Visual has sold them all to DAK and has taken an enormous loss. (But don't worry about Visual. They are a



large company and 'dumping' these computers just lets them get back to concentrating on their main terminal business.)

So, you'll save a fortune and that's why this is an unfair comparison to IBM.

You see, you're saving money only because Visual lost money. IBM not only needs not to lose money, but needs to make a profit as well.

**And, don't worry about ending up with an orphan.** Unlike small computer companies that come and go, as long as Visual makes terminals, they will be around to protect your investment. Plus, they use the Sorbus Network for service. **TAKE YOUR WORK HOME TOO! Wow!**

With the addition of a \$149 optional 25 line 80 column LCD display, you can take this computer home. It's a full monitor display screen complete with graphics.

So, when it gets to be 6:00 and there's still work to be done or files to be studied, just take the computer home or send it home with your secretary.



And, with the addition of a modem, you can even transmit files from home to the office. Or, you can log onto data bases like CompuServe or Dow Jones.

**THE GOOD, THE BAD, & THE BEAUTIFUL** From your first touch of the rugged sculptured keys of this computer, you'll appreciate the built-in rugged quality.

There's even a 10 key numeric pad. The 83 key keyboard is identical to IBM's PC, except for the addition of lights on the 'Cap Lock' and 'Number Lock' keys.

The contoured keyboard is extremely comfortable. But, I must warn you that if you've never typed on an IBM PC, they've made the Shift keys and Return Keys slightly smaller than on a typewriter and it will take you a few minutes to adjust.

The computer has two floppy disk drives that use double sided double density 5 1/4" floppy disks. Each floppy disk holds 360,000 characters.

**As a free gift from DAK, we're including a box of 10 disks. You can store 3,600,000 characters.**

The computer uses a 16 bit 8088 Intel processor with a 4.77 MHz clock speed. It is AC powered and UL and FCC listed.

There is 256K of installed random access memory (RAM) for you to use as compared to 128K for most computers and the 7K on the IBM Wheelwriter 5.

We've included Magnavox's latest 80 column 25 line 12" non-glare Amber Monitor. It has 900 lines of horizontal resolution and 350 lines of interlaced vertical resolution to display graphics.

You can also connect an RGB (red green, blue) monitor for full color graphics. With most computers, the internal 'color card' can cost you several hundred dollars. Visual's has it built-in.

You can expand this computer by adding custom cards. There is an expansion port that can be directly connected to an IBM expansion chassis. Of course, the computer is infinitely expandable by running IBM compatible software.

**Here's another bad point.** This system is bigger than a typewriter. The computer is 18" wide and 15 1/2" deep. And, with the monitor sitting on top, it is 14 1/2" tall. Actually, the computer really isn't any bigger than a typewriter.

But don't forget the printer. It can be placed up to 6' away, but it really belongs next to the computer so that you can easily put in paper, envelopes etc. It is 15 1/2" wide and 12 1/2" deep.

So for most productive use you need a return on your desk that is about 33 1/2" long. Of course, the printer can sit on a typing stand next to your desk or even your credenza. You'll be amazed at the increase in your productivity.

**THIS IS NOT A CHEAP STARTER COMPUTER.** Forget our price. Put it side by side with a similarly equipped IBM, run the same programs and you'll get the same results.

In fact, it's so compatible that you can interchange disks of your letters and programs between Visual's computer and an IBM PC whenever you wish. Wow!

#### THE PRINTER

This Silver Reed daisy wheel printer will type on your standard letterhead, envelopes, 3 X 5 cards or mailing labels.

It uses the same type interchangeable daisy wheel direct impact print system as typewriters (heavy duty of course).



The printer prints at 10-12 characters per second bidirectionally. You can set horizontal spacing, 'pitch', for expanded or contracted letter spacing. You can underline automatically and you can print normal or Bold.

**But, don't worry.** You can simply put in your paper and type. You can even use continuous form tractor feed paper with the optional \$69 tractor feed.



Or, use your own letterhead with the optional \$99 cut sheet feeder.



#### FINAL NOTES

Both the Silver Reed Printer and Magnavox monitor are backed by their respective manufacturers' limited warranties. The Visual Computer is backed by Visual's limited warranty and serviced by Sorbus (or Visual).

#### DON'T FORGET IT'S PORTABLE

For just \$149, you'll get the factory installed 80 column 25 line (graphics capable) LCD display which simply lifts off when you're using the Amber Monitor.



You may not take your computer home or to another office every day, but the versatility is phenomenal.

#### ACCEPT OUR TYPEWRITER COMPUTER CHALLENGE RISK FREE

Wait till you see this state of the art computer marvel on your desk. And wait till you see what its incredible computing power can do for your productivity.

If you're not 100% satisfied with its typing or computing ability, simply return it to DAK in its original boxes within 30 days for a courteous refund.

To get your Visual 256K IBM Compatible Computer with Two 360K Floppy Disk Drives, Composite and RGB Outputs, Amber Monitor, Silver Reed Letter Quality Daisy Wheel Printer, \$400 value Software Library, 10 Free Double Sided Double Density 5 1/4" Disks and connecting cables for the monitor and the printer risk free with your credit card, call toll free or send your check for DAK's limited Close-Out price of just \$999 plus \$24 for P&H. Order No. 4500. CA res add tax.

#### OPTIONS

If you're into massive spreadsheets and the largest programs, order the 512K upgrade which doubles the 256K memory. It's installed by the factory for an additional \$129 (\$5 P&H) Ord. No. 4625.

Add the Factory installed 80 column LCD 25 line display so you can move Visual's computer and work wherever you want. It's just \$149 (\$5 P&H) Order No. 4626.

If you want to run continuous forms, from mailing labels to checks to letterhead, the Silver Reed Tractor feed snaps on and off in about 30 seconds. It's just \$69 (\$3 P&H) Order No. 4345.

Use your standard letterhead automatically with the cut sheet feeder. It feeds paper like an automatic copier tray. It's just \$99 (\$5 P&H) Order No. 4627.

Standard 300,000 character black poly ribbons are just \$6 (\$0.50 P&H) Order No. 4346. You'll never see a lifted off correction mark that shows where errors have been removed again. You'll get 'Presidential Quality' letters that you'll be proud to mail every time.

IBM & IBM Wheelwriter 5, Lotus & Lotus 1-2-3, Flight Simulator, and Xerox & Xerox Memorywriter 625, are registered trademarks of International Business Machines, Lotus Development, Microsoft, and Xerox Corporation respectively.



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8200 Remmet Ave., Canoga Park, CA 91304



# Remote Control Blowout

## Command Consoles, Modules & Computer Interfaces

Burglars will think you've got a family of 10 at home when you're out. And, you'll feel like you've got a butler, 2 maids and a security guard when you're home. And now, for just \$19<sup>90</sup> you can interface your computer.

By Drew Kaplan

It's late at night. You're in bed. The lights are romantically low. The stereo that is playing in the background, as well as your lights, will be automatically turned off after you're asleep.

As you peacefully drift off, you'll be secure in the knowledge that to a burglar on the prowl, your family still appears to be moving about.

### CHEAP THRILLS

Romantic lighting, burglar deterrents and energy saving controls, are just the beginning of this remarkable, installation free, remote control system.

Now you can remotely turn on, off and dim your lights, thwart burglars, and even turn the lights on or off in an unattached garage or barn.

It's exciting. Just imagine effortlessly retrofitting your home for remote control without running a single wire.

From my own nightstand, I can dim the lights in the bedroom, turn off my son's TV and turn on our outside security lights or all the controlled lights in the house. Wow!

This instant remote control system simply plugs-in in seconds and consists of inexpensive space age control modules and command centers.

It actually uses your existing house or office wiring. And if you can plug in a lamp, you can plug-in this system.



### THE COMMAND CONSOLE

Imagine that you're watching TV. You can dim the lights from your easy chair. If you hear a noise, touch a button and your outside flood lights jump to life.

It's all easy when you have this top of the line Command Console, shown above, sitting next to you. It can let you control up to 16 different lights and appliances.

You can turn each on or off. You can dim or brighten lights. And look at this. You can turn all your controlled lights on or off for instant security with the 'All On' and 'All Off' buttons on the console.

You can even move it from room to room because its total installation consists of simply plugging it in. Or, at DAK's



super low price, you can put Command Consoles in as many rooms as you wish.

No matter where a Command Console is, you can control lights, fans, TVs, and stereos anywhere in or around your home.

### HERE'S HOW IT WORKS

As you push each button on the command console, a powerful but silent, encoded signal is sent down its AC cord into your home or office wiring.

This safe, silent encoded signal, travels throughout your electrical system. And, it won't disturb your TV or your FM.

It can even reach your unattached garages, barns, sheds and even your pool light, porch lights and yard lights.

Wherever you want to control a light or appliance, all you have to do is plug-in one of the system's controller modules.

Each module has a rotary dial numbered from 1 to 16. Just dial in a number to match one of the 16 number buttons.

Then, just plug the module into the wall and the lamp or appliance into the module for instant remote control.

**Important note:** You will still have local control of all your lights and appliances by just using their normal switches, even though they are plugged into modules.

Each module actually senses when you turn the controller unit's switch and automatically relinquishes control.



There are separate modules for lamps that have full range dimming capability from 0% to 100%, and handle up to 300 watts. There are appliance modules that have no dimming but can handle up to 500 watts, or 1/3hp motors.

And, there are even light switch modules that have both full dimming and 500 watt capability which you can install instead of your present wall switches.

You can move the modules from place

to place or change their code numbers in seconds. And of course, if you move, your system goes with you.

### THE TIMER

This sophisticated electronic brain can perform 32 tasks. Just plug it in and you're in operation.

Select the module number you want to control, then decide if you want the controlled device to come on or off.

If you only want something to happen once, just push the 'Once' button.

There is a 'Daily' button that lets what you've programmed occur every day.

There's a 'Security' button. You can program lights and radios to give your house a lived-in look when you're away.

With The Timer, you can set your window air conditioning to come on an hour before you return from work.

Or, you can have your porch lights come on so you'll never enter a dark house. You can set your hall light to come on at 11PM and off at 6AM. And you can have your electric blanket shut off at 7AM and come back on at 10PM.

### TELEPHONE CONTROL TOO

You can even phone home and control anything. Just plug it into both your AC line and any modular phone jack in your home or office.

Then just call your regular phone number, hold up its 'beeper controller', give your 3 digit code that you set yourself, and start controlling.

You can call home and turn on your lights before you leave work or before you leave a midnight party. It's a great security device.

### SOME NEAT IDEAS

You'll find the system changes and bends to meet your exact needs. You can set several modules to the same number so that the front and rear lights can come on together.

Or, you can set all the lamps in a room to come on and even dim together.

You're sure to want a module in your dining room. Eating by subdued light is a real pleasure. And it's important to remember that not only do you get full remote control, you get 0% to 100% brightness control of your lights.

It's like getting free dimmers thrown

...Next Page Please





**\$19<sup>90</sup> BLOWOUT**  
 Computer Interfaces were originally \$129 for:  
 ● IBM ● MACINTOSH  
 ● APPLE ● COMMODORE



...X10 Continued in with your remote control system. So, for bedside lamps, swag lamps, ceiling lights, track lights and garage lights, you'll be in full command.

And, you'll automate your fans, coffee-maker, humidifiers, and crock-pots.

With a little imagination, you can adapt other electronic devices that will let you water plants, control green houses, and of course, make use of audio cassette decks with 'timer ready' switches.

And, if you own a second home, now you can activate pipe heaters if there's an early frost, or 'switch on' the house so it's warm or cool and lit when you arrive.

#### QUITE A SYSTEM

As you get into bed tonight, think about what you'd do if you heard a noise outside or downstairs. Just push a button.

Think about how nice dimmed lights would be in your bedroom or living room. If you're at all like me, you'll love all the 'plug-in' things you can do with X10.

#### 19<sup>90</sup> COMPUTER CONTROL TOO

It's amazing. Look at your computer screen. Pick a lamp anywhere in your home and touch a button. Both the lamp on the screen and the 'real' lamp will jump to life. And, it's yours for just \$19<sup>90</sup>.

You can choose 10% to 100% intensity. And, not only can you turn anything you choose 'on' or 'off' right now, you can program the device to come 'on' or turn 'off' multiple times today, tomorrow, or any day(s) you wish during the week. **USE YOUR COMPUTER-DON'T LOSE IT**

What's really neat is that you can operate the system directly from your computer, but you store all your programmed instructions in X10's 80C48 microprocessor based Control Center.

And look at this. The Control Center instantly connects and disconnects from your computer without tying it up.

The control center has battery back up (9V battery not included), and you can back up all your stored commands on the copyable X10 master disk.

So, not only is your programming protected, but you can store summer, winter, and vacation schedules on disk.

In fact, although the included software supports at least 95 devices (minimum, depending upon which computer you own), you'll have access to 256 command capabilities. So, you can program anything you like. **Imagine all the excit-**

**ing things you can program your computer to do. Wow!**

#### FULLY COMPATIBLE

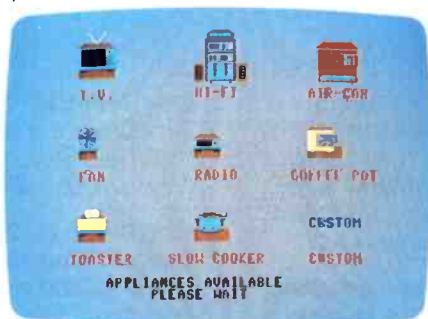
DAK has over 70,000 customers with X10 systems. The standard modules that you already own are 100% compatible. So, for \$19<sup>90</sup>, how can you go wrong?

How is it done? Well, your computer tells the Command Center what you want done. The Command Center then sends a silent encoded signal throughout your home's electrical system.

If it says, "Number 7 module turn on to 40%", only number 7 will respond. Of course, groups of modules can be controlled and you can assign several lights, such as outside flood lights, to the same number. It's all easy. It's all flexible.

#### BACK TO THE ACTION

OK, you're sitting at your Commodore or Apple IIE or IIC Computer. You'll see pictures of a variety of rooms. Just tell your computer what types of devices you'd like to control.



Whenever you would like to place a lamp or appliance, just choose one from a screen like the one shown above. These pictures, or ICONS as they are called in computerese, will appear. **There are many types of devices to choose from.**

If you were at your IBM PC you'd see text. (You can even control your whole office or factory.) If you were at your Macintosh, you can draw your own rooms, even using Macpaint. **Wow!**

So, with Command Consoles or with your computer, or with both, you'll have control never before possible of electrical devices in your home or office.

Wait till you feel the power of your computer surging through your home. A security mode can make your lights come on and off at random times for security. You can even manually control 8 devices

from the Console itself.

All Command Consoles, Modules and Computer Interfaces are backed by X10's standard limited warranty.

#### FINAL CLOSE-OUT RISK FREE

It's simply thrilling to use. It's security. It's convenience. And, it's fun.

If you aren't 100% satisfied, simply return any component to DAK in its original box within 30 days for a refund.

To order **Any Combination of Command Consoles, Modules and Computer Interfaces** call toll free, or send your check for the amounts shown below.

**Order any combination of Command Consoles and modules you desire.**

1) **The Control Console**-Lets you control up to 16 different modules. On/off/dim/all on/all off. Just \$19<sup>90</sup> (\$2 P&H). Order No. 4622.

2) **32 Event Clock Timer**-Lets you control 8 modules with up to 2 on and 2 off commands to each. Also acts as a command base plus sleep and security extras. Just \$26<sup>90</sup> (\$2 P&H). Or. No. 9777.

3) **Telephone Responder**-Phone home and control 8 devices. It's also a base. It's just \$39<sup>90</sup> (\$3 P&H). Order No. 9778.

4) **Lamp Module**-Controls/Dims lamps up to 300 watts plugged into walls. Just \$11<sup>90</sup> (\$1 P&H). Order No. 9779.

5) **Wall Switch Module**-Controls/Dims lights now controlled by wall switches. 500 watt capacity. Just replace your wall switch with this automated module. Just \$12<sup>90</sup> (\$1 P&H). Order No. 9780.

6) **Appliance Module**-Control stereos, TVs, or anything with motors. 15 amps, 500 watts, 1/3hp rating. Just \$11<sup>90</sup> (\$1 P&H). Order No. 9781.

An X10 Computer Home Controller complete with Appropriate Software Disk and Cable is just \$19<sup>90</sup> (4 P&H).

7) **For your Commodore 64 or 128**, it simply plugs in. Use Order No. 4378.

8) **For your Apple IIE or IIC**, use Order No. 4379. **Note:** For the Apple IIE only (the IIC has one built-in), you'll need a serial interface (same as for a modem). It's just \$79 (\$2 P&H). Order No. 4380.

9) **Most IBM PCs & Clones** have a serial port, so X10 should simply plug in. Use Order No. 4410.

10) **For your Macintosh**, the X10 simply plugs in. Use Order No 4411.

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# RADIO SHACK TAKES YOU TO NEW HEIGHTS IN HOME ENTERTAINMENT

## Stereo from Six Sources! CD, VCR, TV, Tape, FM, Phono



**Total Entertainment.** Radio Shack's new System 747 gives you everything. 19-inch color TV/monitor with MTS stereo, VHS Hi-Fi Stereo VCR, CD player, dual cassette deck with high-speed dubbing, digital AM/FM stereo tuner, turntable, equalizer, amplifier, wireless remotes, deluxe three-way speakers and the matching racks.

**High-Power Performance.** The heart of this magnificent system is our Realistic® SA-1000 amplifier, rated 100 watts per channel minimum rms, into 8 ohms from 20 to 20,000 Hz, with no more than 0.09% THD. Infrared remote lets you adjust and mute the volume of every sound source, pause during cassette operation, even select memorized stations from the digital tuner. The seven-band equalizer gives you total control of frequency response. The dual cassette deck has Dolby B noise reduction and high-speed or real time dubbing. Our Realistic CD-2200 compact disc player has the proven Tri-Spot laser system for accurate tracking. And the LAB-1000 turntable includes a factory-installed magnetic cartridge.

**State-of-the-Art Video.** Our TC-1000 high-resolution 19" color TV monitor/receiver has a built-in comb filter for dramatically sharper pictures, MTS/SAP decoder for broadcast stereo and second-language audio, and its own full-function wireless remote control.

**Our Best-Ever VCR Included.** Realistic Model 41 has the HQ system and comb filters for sharper pictures, plus VHS Hi-Fi Stereo for sound that rivals CD. It also includes a full-function remote control.

**Everything at 21% Off.** Purchased separately, these quality components total \$2,519.60. Buy System 747 complete and you'll have deluxe stereo sound from every source for only \$1999. Or as low as \$92 per month\*.

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\*Credit plan available. Actual payment may vary depending on balance. Prices apply at participating Radio Shack stores and dealers. Dolby is a trademark of Dolby Laboratories Licensing Corp. TV measured diagonally; simulated reception. Records, tapes and discs not included.



# 1 TABLE-TOP VCRs

## AKAI

### VHS VCRs

#### VS-626U Hi-Fi Videocassette Recorder

VHS-format table-top VCR with Hi-Fi stereo sound. Features HQ circuitry; MTS-SAP stereo tuner; four-head system; 8-event, 28-day on-screen programming; 142-channel cable-ready tuner; 16 station presets; wireless remote control; programmable from remote; still picture; frame advance; quick finder search; comb filter for high-definition picture; automatic power-on, rewind and editing functions ..... \$1,050

#### VS-565U Hi-Fi Videocassette Recorder

VHS-format table-top VCR with Hi-Fi stereo sound. Features built-in 10-W/ch amplifier with electronic volume control; HQ circuitry; MTS-SAP stereo tuner; four-head system; 6-event, 14-day on-screen programming; 107-channel cable-ready tuner; 32 station presets; wireless remote control with direct access; variable slow motion; programmable from remote; child lock system; comb filter for high-definition picture; four-head video system; auto power-on, rewind and editing ..... \$880

**VS-555U.** Similar to VS-565U except does not include built-in amplifier and volume control ..... \$850

#### VS-525U Hi-Fi Videocassette Recorder

VHS-format table-top VCR with Hi-Fi stereo sound. Features built-in 10 W/ch amplifier with electronic volume control; HQ circuitry; MTS-SAP stereo tuner; two-head video system; 6-event, 14-day on-screen programming; 107-channel cable-ready tuner; 32 station presets; wireless remote control with direct access; slow motion; child lock system; comb filter; automatic power on; rewind and editing functions ..... \$780

**VS-515U.** Similar to VS-525U except does not include built-in amplifier and volume control ..... \$750

#### VS-125U Videocassette Recorder

VHS-format table-top VCR with HQ circuitry. Features wireless remote control with direct access; 107-channel cable-ready tuner; 32 station presets; two-head video system; 4-event, 14-day on-screen programming; still picture; quick finder search; comb filter; child lock system; automatic power on; rewind and editing functions ..... \$600

#### VS-115U Videocassette Recorder

VHS-format table-top VCR with HQ circuitry. Features wireless remote control;

107-channel cable-ready tuner with 14 presets; 4-event, 14-day on-screen programming; comb filter; still picture; quick finder search; auto power on, rewind and editing ..... \$550

#### VS-112U Videocassette Recorder

VHS-format table-top VCR with HQ circuitry. Features wireless remote control; 107-channel cable-ready tuner with 12 presets; two-head video system; 4-event, 14-day on-screen programming; comb filter; still picture; quick finder search; auto power-on, rewind and editing ..... \$520

**VS-111U.** Similar to VS-112U with 2-event, 14-day on-screen programming capability ..... \$520

#### VS-110U Videocassette Recorder

VHS-format table-top VCR with HQ circuitry. Features wireless remote control; 82-channel tuner with 12 presets; two-head video system; 2-event, 14-day on-screen programming; comb filter; still picture; quick finder search; auto power on, rewind and editing ..... \$480

**VS-109U.** Similar to VS-110U with 1-event, 14-day on-screen programming capability ..... \$480

## GE

### VHS VCRs

#### 9-7400 Hi-Fi Videocassette Recorder

VHS-format front-loading table-top VCR with built-in MTS decoder, Hi-Fi sound, HQ circuitry, and 4 heads. Features dbx noise reduction; record level meters; noiseless special effects; headphone jack; sound level and L/R balance controls; 40-function remote control; on-screen programming from remote; 21-day/8-event programming with one-hour



memory backup and daily and weekly repeat; one-touch recording with standby; slanted control keyboard with illuminated graphics; see-through cassette door; top cassette window; switchable AC outlet; tape-remaining indicator; digital electronic tape counter; fine editing; up to 8 hours of recording or playback; SP, LP,

EP play and record speeds; video sharpness control. Includes VHF connecting cable; UHF twin lead wire; vertical lock tool; one pair audio cables. 17" W X 4" H X 14.2" D; 15.4 lbs ..... \$1,000

#### 9-7350 Hi-Fi Videocassette Recorder

VHS-format front-loading table-top VCR with MTS adapter input, Hi-Fi sound, HQ circuitry, and 4 heads. Features dbx noise reduction; record level meters; noiseless special effects; headphone jack; sound level and L/R balance controls; 35-function remote control; programming from remote; 14-day/4-event programming with memory backup; voltage-synthesized tuning; 93-channel VHF, UHF, CATV connection capacity; one-touch recording with standby; slanted control keyboard with illuminated graphics; see-through cassette door; digital electronic tape counter with memory; fine editing; normal- and slow-speed tracking control; up to 8 hours of recording or playback; SP, LP, EP play and record speeds; video sharpness control. Includes VHF connecting cable; UHF twin lead wire; 300-to-75-ohm transformer; vertical lock tool; one pair audio cables. 17" W X 4" H X 11.62" D; 13.9 lbs ..... \$750

#### 9-7320 Hi-Fi Videocassette Recorder

VHS-format front-loading table-top VCR with MTS adapter input, Hi-Fi sound, and HQ circuitry. Features dbx noise reduction; record level meters; headphone jack; sound level and L/R balance controls; 35-function remote control; programming from remote; 14-day/4-event programming with memory backup; voltage-synthesized tuning; 93-channel VHF, UHF, CATV connection capacity; one-touch recording with standby; slanted control keyboard with illuminated graphics; see-through cassette door; digital electronic tape counter with memory; fine editing; normal- and slow-speed tracking control; up to 8 hours of recording or playback; SP, LP, EP play and record speeds; video sharpness control. Includes VHF connecting cable, UHF twin lead wire, 300-ohm to 75-ohm transformer, vertical lock tool, and one pair of audio cables. 17" wide X 4" high X 11.62" deep; 13.6 pounds ..... \$720

#### 9-7270 HQ Videocassette Recorder

VHS-format front-loading table-top VCR with MTS adapter input, linear stereo sound, and 4 heads. Features Dolby noise reduction; HQ circuitry; noiseless special effects; 35-function remote control; programming from remote; 14-day/4-event programming with memory

backup; voltage-synthesized tuning; 93-channel VHF, UHF, CATV connection capacity; one-touch recording with standby; slanted control keyboard with illuminated graphics; see-through cassette door; digital electronic tape counter with memory; fine editing; normal- and slow-speed tracking control; up to 8 hours of recording or playback; SP, LP, EP play and record speeds; video sharpness control. Includes VHF connecting cable; UHF twin lead wire; 300-75-ohm transformer; vertical lock tool; one pair audio cables. 17" W X 4" H X 11.62" D; 13.4 lbs ..... \$700

#### 9-7175 HQ Videocassette Recorder

VHS-format front-loading table-top VCR with built-in MTS adapter, and linear stereo sound. Features Dolby noise reduction; HQ circuitry; 35-function remote control; programming from remote; 14-day/4-event programming with memory backup; voltage-synthesized tuning; 93-channel VHF, UHF, CATV connection capacity; one-touch recording with standby; slanted control keyboard with illuminated graphics; see-through cassette door; top cassette window; digital electronic tape counter with memory; fine editing; easy-to-use function display; normal- and slow-speed tracking control; up to 8 hours of recording or playback; SP, LP, EP play and record speeds; video sharpness control. Includes VHF connecting cable; UHF twin lead wire; 300-75-ohm transformer; one pair audio cables. 17" W X 4" H X 11.62" D; 14.5 lbs ..... \$630

#### 9-7250 4-Head Videocassette Recorder

VHS-format front-loading table-top VCR with 4 heads. Features noiseless special effects; HQ circuitry; 35-function remote control; programming from remote; 14-day/4-event programming with memory backup; voltage-synthesized tuning; 93-channel VHF, UHF, CATV connection capacity; one-touch recording with standby; slanted control keyboard; see-through cassette door; digital electronic tape counter with memory; fine editing; easy-to-use function display; normal- and slow-speed tracking control; up to 8 hours of recording or playback; SP, LP, EP play and record speeds; video sharpness control. Includes VHF connecting cable; UHF twin lead wire; 300-75-ohm transformer; vertical lock tool; one pair audio cables. 17" W X 4" H X 11.62" D; 12.8 lbs ..... \$600

#### 9-7245 4-Head Videocassette Recorder

VHS-format front-loading table-top VCR with 4 heads. Features noiseless special effects; HQ circuitry; 27-function remote

control; 14-day/4-event programming with memory backup; voltage-synthesized tuning; 93-channel VHF, UHF, CATV connection capacity; one-touch recording with standby; slanted control keyboard; see-through cassette door; digital electronic tape counter with memory; fine editing; easy-to-use function display; normal- and slow-speed tracking control; up to 8 hours of recording or playback; SP, LP, EP play and record speeds; video sharpness control. Includes VHF connecting cable; UHF twin lead wire; 300-75-ohm transformer; vertical lock tool. 17" W X 4" H X 12.25" D; 12.8 lbs ..... \$600

#### 9-7215 4-Head Videocassette Recorder

VHS-format front-loading table-top VCR with 4 heads. Features noiseless special effects; HQ circuitry; 17-function remote control; 14-day/4-event programming with memory backup; cable-ready electronic VHF/UHF tuner; 5X video scan SP mode, 9X LP and EP modes; pause/still frame advance; slow motion; one-touch recording with standby; slanted control keyboard; see-through cassette door; digital electronic tape counter with memory; fine editing; easy-to-use function display; normal-speed and slow-speed tracking control; up to 8 hours of recording or playback; SP, LP, EP play speeds; SP, LP, EP record speeds; video sharpness control; and vertical lock control. Includes VHF connecting cable, UHF twin lead wire, 300-ohm to 75-ohm transformer, and vertical lock tool. 17" wide X 4" high X 12.25" deep; 12.3 pounds . \$580

#### 9-7150 HQ Videocassette Recorder

VHS-format front-loading table-top VCR with HQ circuitry. Features 35-function remote control; 14-day/4-event programming with memory backup; voltage-synthesized tuner; 93-channel VHF, UHF, CATV connection capacity; pause/still control; frame advance; slow motion; one-touch recording with standby; remote video scan; slanted control keyboard; see-through cassette door; digital electronic tape counter with memory; fine editing; easy-to-use function display; normal- and slow-speed tracking control; up to 8 hours of recording or playback; SP, LP, EP play and record speeds; video sharpness control. Includes VHF connecting cable; UHF twin lead wire; 300-75-ohm transformer. 17" W X 4" H X 11.62" D; 12.5 lbs ..... \$500

#### 9-7145 HQ Videocassette Recorder

VHS-format front-loading table-top VCR with HQ circuitry. Features 27-function remote control; 14-day/4-event programming with memory backup; voltage-syn-

thesized tuner; 93-channel VHF, UHF, CATV connection capacity; pause/still control; slow motion; frame advance; one-touch recording with standby; remote video scan; slanted control keyboard; see-through cassette door; digital electronic tape counter with memory; fine editing; easy-to-use function display; normal- and slow-speed tracking control; up to 8 hours of recording or playback; SP, LP, EP play and record speeds; video sharpness control. Includes VHF connecting cable; UHF twin lead wire; 300-75-ohm transformer ..... \$470

#### 9-7120 HQ Videocassette Recorder

VHS-format front-loading table-top VCR with HQ circuitry. Features 25-function remote control; 14-day/4-event programming with memory backup; cable-ready electronic VHF/UHF tuner; pause/still control; slow motion; frame advance; one-touch recording with standby; remote video scan; slanted control keyboard; see-through cassette door; digital electronic tape counter with memory; fine editing; easy-to-use function display; normal- and slow-speed tracking control; up to 8 hours of recording or playback; SP, LP, EP play and record speeds; video sharpness control. Includes VHF connecting cable; UHF twin lead wire; 300-75-ohm transformer ..... \$430

#### 9-7115 HQ Videocassette Recorder

VHS-format front-loading table-top VCR with HQ circuitry. Features 17-function remote control; 14-day/4-event programming with memory backup; cable-ready electronic VHF/UHF tuner; pause/still control; slow motion; frame advance; one-touch recording with standby; remote video scan; slanted control keyboard; see-through cassette door; digital electronic tape counter with memory; fine editing; easy-to-use function display; normal- and slow-speed tracking control; up to 8 hours of recording or playback; SP, LP, EP play and record speeds; video sharpness control. Includes VHF connecting cable; UHF twin lead wire; 300-75-ohm transformer ..... \$430

#### 9-7100 HQ Videocassette Recorder

VHS-format front-loading table-top VCR with HQ circuitry. Features 11-function remote control; 14-day/4-event programming with memory backup; electronic VHF/UHF tuner; pause/still control; slow motion; frame advance; OTR with standby; remote video scan; slanted control board; digital electronic tape counter with memory; fine editing; normal-/slow-speed tracking control; 8 hrs of recording or playback; SP, LP, EP play and record speeds; video sharpness control. Includes VHF connecting cable; UHF twin lead wire; 300-75-ohm transformer ..... \$400

## PRICES LISTED

are only the manufacturers' suggested retail prices  
(also referred to as *list* prices):  
actual selling prices are set by each dealer.  
All prices are subject to change without notice.

## GOLDSTAR

### VHS VCRs

#### GHV-8200M Hi-Fi VCR

VHS-format table-top VCR with Hi-Fi stereo sound and built-in MTS/SAP decoder. Features SP, LP, SLP play speeds,



## Table-Top VCRs 1

SP, LP, SLP record speeds; 14-day/8-event timer; remote control; frame advance; remote pause; cable ready; still frame; auto rewind; auto fine tuning; one-touch recording with standby; HQ circuitry; 110-channel tuner with 80 presets; direct-access tuning; battery program backup; simulcast jack. Horizontal resolution 240 lines; video S/N 46 dB; audio frequency response 20-20,000 Hz  $\pm$  3 dB in Hi-Fi mode, 80-8,000 Hz  $\pm$  3 dB normal mode; power requirements 120 V, 28 W. 16.9" W  $\times$  3.9" H  $\times$  14" D; 18 lbs .. \$700

**GHV-1400M HQ Videocassette Recorder**  
VHS-format table-top videocassette recorder with double-azimuth four-head system. Features SP, LP, SLP play speeds, SP, LP, SLP record speeds; 14-day/4-event programming timer; wireless remote control; frame advance; noiseless special effects; remote pause; cable-ready tuner; still frame; auto rewind; auto fine tuning; one-touch recording; 110-channel tuner with 12 channel presets; battery program backup. Horizontal resolution 240 lines; power requirements 120 volts AC; power consumption 30 watts. 16.9" W  $\times$  4" H  $\times$  14" D; 17.5 lbs ..... \$550

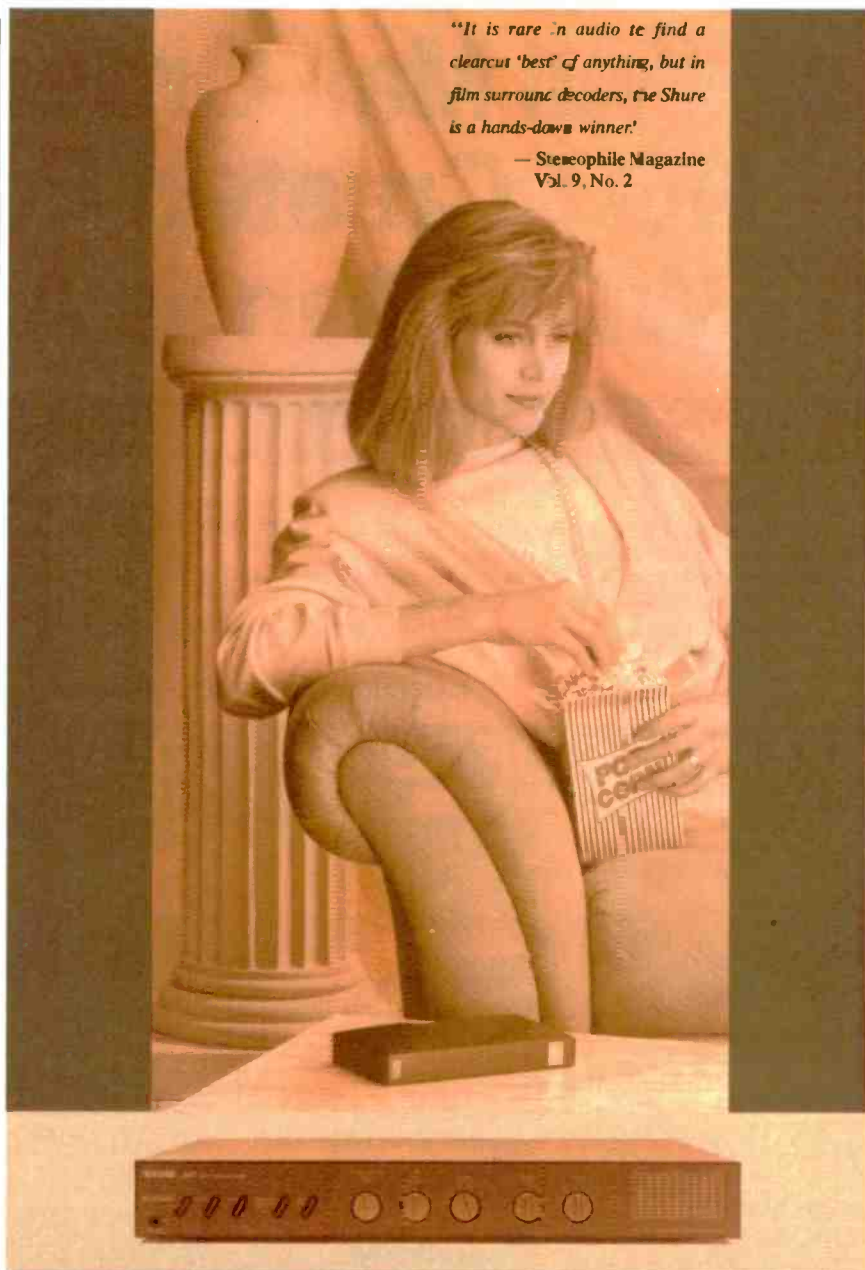
**GHV-1240M HQ Videocassette Recorder**  
VHS-format table-top VCR with auto power and play. Features SP, LP, SLP play speeds, SP, LP, SLP record speeds; 14-day/8-event timer; remote control; remote pause; cable-ready voltage-synthesized tuner with 80 presets; still frame; auto rewind; auto fine tuning; one-touch recording with 24-hr standby; direct-access tuning. Horizontal resolution 240 lines; S/N video 45 dB; power requirements 120 volts AC; power consumption 28 watts. 16.9" W  $\times$  3.9" H  $\times$  14" D; 17 lbs ..... \$520

**GHV-1245M HQ Videocassette Recorder**  
VHS-format table-top videocassette recorder with High Quality (HQ) circuitry. Features SP (standard play), LP (long play), SLP (super long play) play speeds; SP, LP, SLP record speeds; 14-day/4-event timer; wireless remote control; remote pause; cable-ready 105-channel tuner with 40 presets; still frame; auto rewind; auto fine tuning; one-touch recording with 24-hr standby; auto power and play. Horizontal resolution 240 lines; S/N video 45 dB; power requirements 120 volts AC; power consumption 28 watts. 16.9" W  $\times$  3.9" H  $\times$  14" D; 17 lbs ..... \$499

**GHV-1233M HQ Videocassette Recorder**  
VHS-format table-top videocassette recorder with High Quality (HQ) circuitry. Features SP, LP, SLP play speeds; SP, LP, SLP record speeds; 14-day/4-event timer; remote control; remote pause; cable-ready 110-channel tuner with 12 channel presets; still frame; automatic rewind; automatic fine tuning; one-touch recording (OTR) function. Horizontal resolution 240 lines; signal-to-noise ratio video 45 dB; power requirements 120 volts AC; power consumption 28 watts. 16.9" wide  $\times$  4.1" high  $\times$  14" deep; 17.5 lbs ..... \$390

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— *Stereophile Magazine*  
Vol. 9, No. 2



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## HARMAN KARDON

## VHS VCRs

**VCD-4000 Hi-Fi Videocassette Recorder**

VHS-format table-top VCR with Hi-Fi sound and HQ circuitry. Features MTS decoder for stereo broadcasts; digital servo-controlled transport; SP, LP, EP play and record speeds; 21-day/8-event timer; linear stereo; Dolby NR; remote control; frame advance; noiseless special effects; cable-ready tuner; still frame; auto fine tuning; audio dubbing; video dubbing; one-touch recording; time-remaining display; on-screen programming; variable slow motion; auto on; 2-speed search; detail control; Hi-Fi tracking control; slow-motion tracking control; program search; memory rewind; 30-sec skip/search; headphone jack with volume control. Audio FR 20-20,000 Hz  $\pm 3$  dB in Hi-Fi mode; 100-10,000 Hz  $\pm 3$  dB in normal mode; audio distortion 0.2% in Hi-Fi mode; audio S/N 80 dB in Hi-Fi mode, 48 dB in normal mode. 17.36" W  $\times$  4.62" H  $\times$  15.62" D ..... \$1,195

**VCD-2000 Hi-Fi Videocassette Recorder**

VHS-format table-top VCR with Hi-Fi sound and HQ circuitry. Features MTS decoder for stereo broadcasts; digital servo-controlled transport; SP, LP, EP play and record speeds; 21-day/4-event timer; linear stereo; Dolby NR; remote control; cable-ready tuner; still frame; auto fine tuning; audio dubbing; video dubbing; one-touch recording. Audio FR 20-20,000 Hz  $\pm 3$  dB in Hi-Fi mode; 100-10,000 Hz  $\pm 3$  dB in normal mode; audio distortion 0.2% in Hi-Fi mode; audio S/N 80 dB in Hi-Fi mode, 48 dB in normal mode. 17.36" W  $\times$  4.62" H  $\times$  15.62" D ..... \$895

## HITACHI

## VHS VCRs

**VT-1800 Videocassette Recorder**

VHS-format VCR with Hi-Fi audio and built-in MTS decoder. Features VHS HQ circuitry; SP, LP, SLP play/record speeds; 365-day, 8-event timer; on-screen display; remote control; cable-ready tuner; noiseless special effects; freeze frame; frame advance; audio dubbing; one-touch recording; time-remaining display. 17.12" W  $\times$  3.88" H  $\times$  13.5" D; 16.5 lbs ..... \$999

**VT-1720 Videocassette Recorder**

VHS-format VCR with Hi-Fi audio and built-in MTS decoder. Features VHS HQ circuitry; SP, LP, SLP play/record speeds; 14-day, 4-event timer; remote control with liquid crystal display for programming; cable-ready tuner; noiseless special effects; freeze frame; frame advance; audio dubbing; one-touch recording. 17.12" wide  $\times$  3.88" high  $\times$  13.5" deep; 16.5 lbs ..... \$799

**VT-1450 Videocassette Recorder**

VHS-format VCR with built-in MTS decoder. Features linear stereo audio with

Dolby NR; VHS HQ circuitry; LCD display remote control; 14-day, 4-event timer; cable-ready tuner; noiseless special effects; still frame; frame advance; one-touch recording. 17.12" W  $\times$  3.75" H  $\times$  13.75" D; 16.5 lbs ..... \$629

**VT-1430 Videocassette Recorder**

VHS-format VCR with built-in MTS decoder. Features linear stereo audio with Dolby NR; VHS HQ circuitry; remote control; 14-day, 4-event timer; cable-ready tuner; still frame; one-touch recording. 17.12" W  $\times$  3.75" H  $\times$  13.75" D; 16.5 lbs ..... \$599

**VT-1410 Videocassette Recorder**

VHS-format VCR with linear stereo audio. Features Dolby noise reduction; VHS HQ circuitry; remote control; 14-day, 4-event timer; MTS adapter jack for stereo decoder; cable-ready tuning; still frame; one-touch recording. 17.12" W  $\times$  3.75" H  $\times$  13.75" D; 16.5 lbs ..... \$565

**VT-1310 Videocassette Recorder**

VHS-format VCR with HQ circuitry. Features remote control; 14-day, 4-event timer; cable-ready tuner; noiseless special effects; still frame; frame advance; one-touch recording. 17.12" W  $\times$  3.75" H  $\times$  13.75" D; 16.5 lbs ..... \$499

**VT-1110 Videocassette Recorder**

VHS-format VCR with HQ circuitry. Features remote control; 14-day, 4-event timer; cable-ready tuner; still frame; one-touch recording. 17.12" W  $\times$  3.75" H  $\times$  13.75" D; 16.5 lbs ..... \$449

**VT-1100 Videocassette Recorder**

VHS-format VCR with HQ circuitry. Features remote control; 14-day, 2-event timer; cable-ready tuner; still frame; one-touch recording. 17.12" W  $\times$  3.75" H  $\times$  13.75" D; 16.5 lbs ..... \$399

## INSTANT REPLAY

## Multi-Format VCRs

**Image Translator VCR**

*Videocassette recorder with ability to translate foreign video formats. (Based on a Magnavox, Panasonic, or Quasar VCR.) Plays all PAL video tapes in color including PAL B (Western Europe, India, Africa, Far East, Australia, Scandinavia), PAL N (Argentina, Peru, Paraguay), PAL I (UK, South Africa, Ireland), PAL M (Brazil). Plays SECAM B, G, V (Eastern Europe), SECAM D (Russia), SECAM H (Middle East), SECAM L (France) in monochrome. Plays on most regular television sets or monitors. Features front-loading cassette mechanism; cable-ready 107-channel tuner; 8-event/30-day programmable timer; video peaking sharpness control; four heads; VHS Hi-Fi sound; fast-scan forward and reverse; still frame; pushbutton electronic tuning; full track/audio track erase; 25-function remote control; one-touch recording; auto stop; built-in RF modulator for channels 3 and 4; multi-function display.*

**528IT3.** Portable. Features Dolby stereo; 4-head; dockable; 139-channel tuner; 14-

day/8-event timer; variable slow motion; 26-function remote control ..... \$1,795

**530IT3.** Same as 528IT3 with Hi-Fi sound and Dolby stereo ..... \$1,950

**V38IT2.** PAL-based videocassette recorder for use in PAL countries \$1,795

**618IT3.** Tunes and records stereo SAP television programs; HQ circuitry; simulcast switch; 2 sets of audio outputs; auto index; records Hi-Fi stereo with or without video input. Features audio and video editing; 27-function infrared dual-mode wireless remote control; automatic program finder; 107-channel direct-tuning cable tuner; 30-day/8-event on-screen programmer with daily repeat and memory back-up ..... \$1,795

**615IT3.** Similar to above without MTS decoder ..... \$1,495

**62IT3.** Features front loading; one-event timer; one-speed PAL/SECAM play; three-speed NTSC record and play; still frame; fast-scan forward and reverse; slow motion; wired remote control \$749

**63IT3.** Same as 62IT3 with 4-event programming; all-speeds PAL and SECAM; 5-function wired remote control; cable-ready 107-channel tuner with 14 presets; peak-picture sharpness controls ..... \$789

**610IT3.** Same as 63IT3 with 15-function wireless remote control; HQ; tape counter memory; tape viewing window; chrome and black cabinet ..... \$859

**611IT3.** Same as 610IT3 with "pro-fect" heads for special effects at SP speed; 17-function remote control .... \$1,075

**620IT2.** Top-loading portable AC or 12-volt DC operated video player. Plays all PAL, NTSC, and SECAM speeds . \$595

**V38IT4 World Traveler VCR**

VHS-format VCR plays and records on all world systems in all speeds and operates on all voltages. Features built-in tuners and modulators for PAL BG/PAL I, NTSC/ME SECAM; Dolby NR; remote control; frame advance; noiseless special effects; remote pause; cable ready; still frame; auto rewind; channel lock; auto fine tuning; audio dubbing; one-touch recording. Power requirements 100-240 V; 50/60 Hz ..... \$1,995

**618IT4RGB Image Translator VCR**

VHS-format VCR plays PAL or NTSC tapes on RGB monitor. Features Hi-Fi audio on PAL or NTSC system; built-in MTS/SAP decoder; on-screen programming; remote control; frame advance; noiseless special effects (SP,EP); cable-ready; still frame; auto rewind; channel lock; auto fine tuning; audio dubbing; one-touch recording; time-remaining display; auto index; edit switch. \$1,895

These listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses are given in the directory beginning on page 43.

**610CM Videocassette Recorder**

VHS-format VCR with built-in caption decoder for playing "closed captioned" tapes or recording "closed captioned" broadcasts. Features auto power on; remote control; frame advance; noiseless special effects (EP); cable-ready; still frame; auto rewind; channel lock; auto fine tuning; one-touch recording . . . \$795

**KODAK****8-mm VCRs****MVS-5380 Stereo 8-mm VCR**

8-mm-format table-top videocassette recorder with digital stereo sound capability. Features SP, LP play speeds; SP, LP record speeds, rapid-search speeds; Hi-Fi sound; stereo; frame advance; noiseless special effects; remote control; remote pause; cable ready; video dubbing; still frame; automatic rewind; channel lock; automatic fine tuning; audio dubbing; pulse-code-modulated digital recording and playback; records up to eight programs over three weeks; on-screen programming; 169-channel; records up to six tracks of audio. Battery optional; battery charge lasts for 45 minutes to one hour. 6.5" W × 2.6" H × 5.3" D; 2.1 lbs. Approx. . . . \$1,600

**LLOYDS****VHS VCRs****L950 Videocassette Recorder**

VHS-format VCR with built-in 13" color television. Features wireless remote control; 105-channel cable-ready tuner; 14-day, 1-event timer; still frame; auto rewind; one-touch recording; tape counter;



audio/video input/outputs; high-speed picture search; SP, LP, SLP play/record speeds. 16.9" W × 14.7" H × 14.7" D; 42 lbs. . . . \$900

**L940.** Similar to L-950 but features VHS player only . . . \$800

**L840 Videocassette Recorder**

VHS-format table-top VCR with HQ circuitry. Features wireless remote control; 110-channel cable-ready tuner; SP, LP, SLP play/record speeds; 21-day, 4-event timer; still frame; auto rewind; one-touch recording. 17" W × 4.12" H × 14.75" D; 17 lbs. . . . \$450

For explanations of abbreviations, specifications, and technical terms, turn to the vocabulary on page 38.

**L828 Videocassette Recorder**

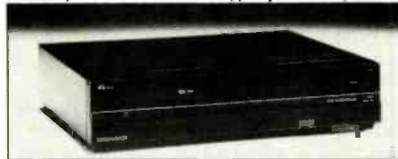
VHS-format VCR with HQ circuitry. Features wireless remote control; 110-channel cable-ready tuner; SP, LP, SLP play/record speeds; 14-day, 4-event timer;



still frame; auto rewind; channel lock; one-touch recording. 16.5" W × 4" H × 12.5" D; 16.5 lbs. . . . \$400

**MAGNAVOX****VHS VCRs****VR9565AT Stereo Videocassette Recorder**

VHS-format VCR with built-in MTS/SAP decoder. Features Hi-Fi stereo sound; 41-function wireless remote control with on-screen programming; 4-head system; 21-day/8-event programmer; cable-ready 155-channel tuner with random access; auto index search (uses silent cue for rapidly locating desired recording); 5-min backup timer; 3 record/playback speeds;



one-touch recording; channel lock; audio dubbing/mix; auto fine tuning; transition editing; CATV adaptor jack; auto pause; auto rewind; tracking controls; tape remaining indicator; forward/reverse search at 5× normal play speed (in SP mode) and 9× normal (in SLP mode). Audio frequency response 20-20,000 Hz; audio distortion <0.47 %; audio signal-to-noise >60 dB. 17" W × 4" H × 11.5" D . . . \$1,249

**VR9558AT.** Similar to VR956AT without auto index. Includes 39-function remote control; cable-ready tuner . . . \$1,049

**VR9558AT Stereo VCR**

VHS-format VCR with 4 video heads. Features on-screen programming; Hi-Fi stereo sound; 93-channel random access tuner; MTS/SAP jack (for optional external decoder); 14-day/4-event programmer; 5-min backup timer; one-touch record with standby. Special effects include forward/reverse search (5× normal playing speed in SP, 9× normal in SLP mode), still frame, frame advance, and slow motion. 37-function wireless remote includes ×2 play, and on-screen programming (help, OTR, OTR standby). Audio frequency response 20-20,000 Hz; audio distortion <0.47 %; audio S/N >60 dB. 17" W × 4" H × 11.5" D . . . \$949

**VR9550AT.** As VR9558AT without stereo capability. Includes 93-channel electronic tuner and 25-function wireless remote control . . . \$749

**VR9540AT Stereo VCR**

VHS-format VCR with Hi-Fi stereo and 2 heads. Features 93-channel random-ac-

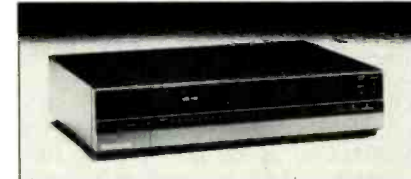
cess tuner; 14-day/4-event programmer; 5-min backup timer; 27-function wireless remote control; MTS/SAP jack; one-touch record with standby; auto fine tuning; channel lock; transition editing; auto rewind; auto still/pause release; camera-remote pause-jack; still frame; frame advance; slow motion; three play/record speeds; forward/reverse search. Audio frequency response 20-20,000 Hz; audio distortion <0.47 %; audio signal-to-noise ratio >60 dB. 17" W × 4" H × 11.5" D . . . \$849

**VR9530AT Videocassette Recorder**

VHS-format VCR with 93-channel random-access tuner. Features 2 video heads; 14-day/4-event programmer; 5-min backup timer; 35-function wireless remote control; speedy forward/reverse search; one-touch recording with standby; auto fine tuning; channel lock; still frame; frame advance; slow motion; 3 play/record speeds; transition editing; auto rewind. 17" W × 4" H × 11.5" D . . . \$649

**VR9520AT Videocassette Recorder**

VHS-format VCR with 14-position cable-ready tuner. Features 14-day/4-event programmer; 2 video heads; 5-min backup timer; one-touch record with standby; 17-function wireless remote control; auto



fine tuning; channel lock; transition editing; still frame; frame advance; slow motion; 3 play/record speeds; auto rewind; auto pause/still release. 17" W × 4" H × 11.5" D . . . \$599

**VR9510AT Videocassette Recorder**

VHS-format VCR with wireless 11-function remote control. Features 14-position UHF/VHF electronic tuner; two video heads; 14-day/2-event programmer; forward/reverse search; still frame; frame advance; slow motion; three play and record speeds; one-touch record with standby. 17" W × 4" H × 11.5" D . . . \$549

**MARANTZ****VHS VCRs****VR560HQ MTS Videocassette Recorder**

VHS-format table-top VCR with MTS stereo. Features 3 play speeds, 3 record speeds; slow motion; Hi-fi sound; linear stereo; Dolby NR; remote control; frame advance; noiseless special effects; remote pause; 140 channel random access cable-ready; auto rewind; audio and video dubbing; one-touch recording; time-remaining display; 4 heads; sharpness control; VU meters; serial recording; on-screen programming; 21-day/8-event timer. Horizontal resolution 230 lines; video signal-to-noise 42 dB; audio frequency response 20-20,000 Hz ± 3 dB



in Hi-Fi mode, audio distortion 0.3% in Hi-Fi; audio signal-to-noise 80 dB in Hi-Fi mode. 17" W X 4.12" H X 14.36" D; 17.6 lbs ..... \$1,000

#### VR465HQ MTS Videocassette Recorder

VHS-format table-top VCR with MTS stereo. Features 3 play speeds, 3 record speeds; slow motion; Hi-Fi sound; remote control; frame advance; noiseless special effects; remote pause; 110 channel cable-ready; auto rewind; audio and video dubbing; one-touch recording; 4 heads; sharpness control; serial recording; 21-day/4-event timer. Horizontal resolution 230 lines; video signal-to-noise 42 dB; audio frequency response 20-20,000 Hz  $\pm$  3 dB in Hi-Fi mode, audio distortion 0.3% in Hi-Fi; audio signal-to-noise 80 dB in Hi-Fi mode. 17" W X 4.12" H X 14.36" D; 17.6 lbs ..... \$800

#### VR460HQ Hi-Fi Videocassette Recorder

VHS-format table-top VCR with MTS stereo. Features 3 play speeds, 3 record speeds; Hi-fi sound; remote control; remote pause; 110 channel cable-ready; auto rewind; audio and video dubbing; one-touch recording; 2 heads; serial recording; 21-day/4-event timer. Horizontal resolution 230 lines; video signal-to-noise 42 dB; audio frequency response 20-20,000 Hz  $\pm$  3 dB in Hi-Fi mode, audio distortion 0.3% in Hi-Fi; audio signal-to-noise 80 dB in Hi-Fi mode. 17" W X 4.12" H X 14.36" D; 17.6 lbs ..... \$700

### MINOLTA

#### VHS VCRs

#### MV-605 Videocassette Recorder

VHS-format table-top front-loading VCR with stereo sound. Features MTS with SAP; 3 heads + 2 heads; HQ circuitry; 119-channel random-access tuner; 3 play speeds; 3 record speeds; 14-day/4-event timer; Hi-Fi sound; 5-min timer backup; LCD remote programming; instant-on; one-button record; auto (quartz) presets; auto rewind; repeat play; 30-function infrared remote. Horizontal resolution 240 lines; video signal-to-noise better than 46 dB; audio frequency response 20-20,000 Hz  $\pm$  3 dB in Hi-Fi mode; audio signal-to-noise 80 dB in Hi-Fi mode; 17.8" W X 3.7" H X 13.5" D; 17.6 lbs ..... \$860

#### MV-40S Videocassette Recorder

VHS-format table-top front-loading VCR with linear stereo. Features MTS with SAP; 3 heads; HQ circuitry; Dolby NR; 119-channel random-access tuner; 3 play speeds, 3 record speeds; 14-day/4-event timer; 5-min timer backup; LCD remote programming; instant-on; one-touch recording; auto (quartz) presets; auto rewind; repeat play; 30-function infrared remote. Horizontal resolution 240 lines; video signal-to-noise better than 46 dB; 17.8" W X 3.7" H X 12.7" D; 16.5 lbs \$685

#### MV-20S Videocassette Recorder

VHS-format table-top VCR with HQ circuitry and 107-channel random-access tuner. Features include front loading;

one-touch recording; 3 play speeds, 3 record speeds; 14-day/4-event timer; auto rewind; repeat play; 80 presets; and 24-function infrared remote. Horizontal resolution 240 lines; video signal-to-noise better than 46 dB; audio frequency response 50-10,000 Hz  $\pm$  3 dB; Power 32 watts nominal; 17.8" W X 3.7" H X 12.7" D; 16.5 lbs ..... \$510

### MITSUBISHI

#### VHS VCRs

#### HS-421UR Stereo VCR

VHS Hi-Fi stereo VCR with HQ circuitry. Features detail switch; FX-4 head design; programmable AC outlet; programmable from remote; scan; comb filter; edit switch; SP, LP, EP play/record speeds; 14 day/8-event timer; Hi-Fi sound; frame advance; remote control; remote pause; cable ready; still frame; auto rewind; channel lock; automatic fine tuning; level control with LED meters, slow tracking, fine edit, auto rewind, sharpness control, counter memory, on-screen programming, head phone jack with level control, TV/VCR switching. Horizontal resolution 240 lines; audio frequency response 20-20,000 Hz  $\pm$  3dB in Hi-Fi mode, 50-10,000 Hz  $\pm$  3 dB normal mode; audio distortion 0.3% in Hi-Fi mode, audio signal-to-noise 90 dB in Hi-Fi mode, 40 dB in normal mode; power requirements 36 W. 16.06" W X 3.44" H X 14.94" D; 20 lbs ..... \$850

#### HS-411UR Stereo Hi-Fi VCR

VHS Hi-Fi stereo VCR with VHS-HQ circuitry. Features FX 4-head design; slow tracking; fine edit; TV/VCR switching; auto rewind; multi-OTR; picture control; counter memory; auto power on; SP, LP, EP play/record speeds; 14-day/8-event timer; frame advance; noiseless special effects; remote control; remote pause; cable ready; auto rewind; channel lock;



automatic fine tuning; scan and auto play; comb filter; auto power on; auto play; auto rewind. Horizontal resolution 240 lines; audio frequency response 20-20,000 Hz  $\pm$  3 dB in Hi-Fi mode, 50-10,000 Hz  $\pm$  3 dB normal mode; audio distortion 0.3% in Hi-Fi mode; audio signal-to-noise 90 dB in Hi-Fi mode, 40 dB in normal mode; power requirements 36 W. 16.81" W X 37.44" H X 14.94" D; 20lbs ..... \$700

#### HS-339UR Videocassette Recorder

VHS-format front-loading videocassette recorder with FX-4 head design and High Quality (HQ) circuitry. Features comb filter; slow tracking; fine edit; auto

rewind; multi-function one-touch recording; counter memory; TV/VCR switching; picture control; scan; edit; SP, LP, EP



play/record speeds; 14-day/8-event timer; frame advance; noiseless special effects; remote control; remote pause; cable ready; still frame; auto rewind; channel lock; automatic fine tuning. 16.81" W X 3.62" H X 12.19" D .. \$480

#### HS 337UR Videocassette Recorder

VHS-format VCR with HQ circuitry. Features wireless remote control; SP, LP, SLP play/record speeds; cable-ready tuner; comb filter; still frame; frame advance; auto rewind; channel lock; auto fine tuning; one-touch recording; auto power on; auto play; counter memory. 16.69" W X 3.62" H X 12.19" D .. \$400

### NEC

#### VHS VCRs

#### N-965V Stereo Videocassette Recorder

VHS-format table-top VCR with 4 dual-azimuth video heads and built-in MTS stereo. Features 140-channel cable-ready tuner with digital display; Hi-Fi sound; remote control with on-screen display of timer/programming menu; remote pause; frame advance; noiseless special effects; still frame; auto rewind; channel lock; auto fine-tuning; one-touch recording; time-remaining display; HQ circuitry; linear stereo record/playback compatibility with Dolby noise reduction; 3 play speeds, 3 record speeds; 21-day/8-event timer. Horizontal resolution more than 230 lines; video signal-to-noise ratio greater than 43 dB; audio frequency response 20-20,000 Hz  $\pm$  3 dB in normal audio mode; audio distortion 0.005% in Hi-Fi mode; audio signal-to-noise ratio 48 dB in normal mode (Dolby on). Power requirements 120 VAC  $\pm$  10%, 60Hz, 41 watts. 17" X W X 4.12 H X 14.75" D; 19.2 lbs ... \$1,149

#### N-955V Stereo Videocassette Recorder

VHS-format table-top VCR with MTS-broadcast stereo tuner. Features Hi-Fi sound; Dolby NR; linear stereo record/playback compatibility; remote control with on-screen display of timer/programming menu; remote pause; cable ready; still frame; auto rewind; channel lock; auto fine tuning; one-touch recording; 110-channel voltage-synthesized tuner with 20 direct-access presets; HQ recording circuitry; 3 play speeds, 3 record speeds; 21-day/4-event timer. Horizontal resolution more than 230 lines; video signal-to-noise ratio greater than 43 dB; audio frequency response 20-20,000 Hz  $\pm$  3 dB in normal audio mode; audio frequency response

100-10,000 Hz  $\pm$ 3; audio distortion 0.005% in Hi-Fi mode; audio signal-to-noise ratio 48 dB in normal mode (Dolby on). Power requirements 120 VAC  $\pm$ 10%, 60Hz, 41 watts. 17" X W X 4.12 H X 14.75" D; 17.6 lbs ..... \$899

#### N-945V Stereo Videocassette Recorder

VHS-format table-top VCR with MTS-broadcast stereo tuner. Features Dolby NR; linear stereo; remote-control with on-screen display of timer/programming menu; remote pause; cable ready; still frame; auto rewind; channel lock; auto fine tuning; one-touch recording; 110-channel voltage-synthesized tuner with 20 direct-access presets; HQ recording circuitry; 3 play speeds, 3 record speeds; 21-day/4-event timer. Horizontal resolution more than 240 lines; video signal-to-noise ratio greater than 43 dB; audio frequency response 100-10,000 Hz  $\pm$ 3 in normal mode; audio signal-to-noise ratio greater than 48 dB in normal mode (Dolby on). Power requirements 120 VAC  $\pm$ 10%, 60Hz, 41 watts. 17" X W X 4.12 H X 14.75" D; 17.6 lbs ..... \$699

**N-925V.** As N-945V. Lacks MTS stereo; Dolby NR. 16.7 lbs ..... \$579

**N-915V.** As N-925V. Lacks on-screen display of timer/programming menu; noiseless special effects; frame advance. 16.3 lbs ..... \$449

### PANASONIC

#### VHS VCRs

#### PV1742 Hi-Fi Videocassette Recorder

VHS-format table-top videocassette recorder with Hi-Fi sound and built-in MTS/SAP capabilities. Features 4 heads; 155-channel frequency-synthesized tuner; SP, LP, SLP play speeds; SP, LP, SLP record speeds; 21-day/8-event timer; remote control; frame advance; noiseless special effects; cable ready;



still frame; auto rewind; audio dubbing; one-touch recording with standby; time-remaining display; HQ circuitry; auto in/out eject; on-screen/help/remote programming; multi-function on-screen display of mode, date, time, and channel; video search. Power requirements 120 V AC, 60 Hz, 32 W. 17" W X 4" H X 14" D; 16 lbs ..... \$1,250

#### PV1642 Hi-Fi Videocassette Recorder

VHS-format table-top videocassette recorder with Hi-Fi sound and built-in MTS/SAP capabilities. Features 4 heads; cable-ready frequency-synthesized tuner; SP, LP, SLP play speeds; SP, LP, SLP record speeds; 21-day/8-event timer; remote control; frame advance; stillframe; noiseless special effects; auto

rewind; one-touch recording with standby; HQ circuitry; auto in/out eject; on-screen/help/remote programming; multi-function on-screen display of mode, date, time, and channel. Power requirements 120 V AC, 60 Hz, 32 W. 17" W X 4" H X 14" D; 15.6 lbs ..... \$1,000

#### PV1564 Hi-Fi Videocassette Recorder

VHS-format table-top videocassette recorder with Hi-Fi sound and input for MTS adapter. Features 4 heads; cable-ready voltage-synthesized tuner; SP, LP, SLP play speeds; SP, LP, SLP record speeds; 14-day/4-event timer; remote control; frame advance; noiseless special effects; still frame; auto rewind; one-touch recording with standby; HQ circuitry; auto in/out eject; on-screen/help/remote programming; multi-function on-screen display of mode, date, time, and channel. Power requirements 120 V AC. 17" X 4" X 11.5" ..... \$850

#### PV1563 Stereo Videocassette Recorder

VHS-format table-top videocassette recorder with linear stereo sound and built-in MTS/SAP. 4 heads; cable-ready voltage-synthesized tuner; SP, LP, SLP play speeds; SP, LP, SLP record speeds; 14-day/4-event timer; Dolby NR; remote control; frame advance; noiseless special effects; still frame; auto rewind; one-touch recording with standby; HQ circuitry; auto in/out eject; on-screen/help/remote programming; multi-function on-screen display of mode, date, time, and channel. Power requirements 120 V AC, 60 Hz, 29 W. 17" W X 4" H X 11.5" D; 13.4 lbs ..... \$775

#### PV1562 Stereo Videocassette Recorder

VHS-format table-top videocassette recorder with linear stereo sound and input for MTS adapter. Features 4 heads; cable-ready voltage-synthesized tuner; SP, LP, SLP play speeds; SP, LP, SLP record speeds; 14-day/4-event timer; Dolby NR; remote control; frame advance; noiseless special effects; still frame; auto rewind; one-touch recording with standby; HQ circuitry; auto in/out eject; on-screen/help/remote programming; multi-function on-screen display of mode, date, time, and channel. Power requirements 120 V AC. 13 lbs ..... \$750

#### PV1462 Hi-Fi Videocassette Recorder

VHS-format table-top videocassette recorder with Hi-Fi sound and input for MTS adapter. Features cable-ready voltage-synthesized tuner; SP, LP, SLP play speeds; SP, LP, SLP record speeds; 14-day/4-event timer; remote control; frame advance; still frame; auto rewind; one-touch recording with standby; HQ circuitry; omnisearch still/slow/2X play (SLP mode); auto in/out eject; on-screen/help/remote programming; multi-function on-screen display of mode, date, time, and channel. Power requirements 120 V AC, 60 Hz, 29 W. 17" W X 4" H X 11.5" D; 13.2 lbs ..... \$750

#### PV1461 Stereo Videocassette Recorder

VHS-format table-top videocassette recorder with linear stereo sound and built-

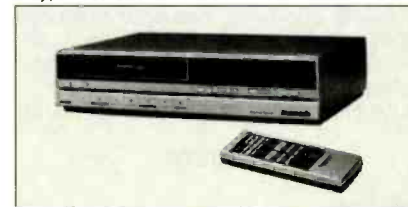
in MTS/SAP. Features cable-ready voltage-synthesized tuner; SP, LP, SLP play speeds; SP, LP, SLP record speeds; 14-day/4-event timer; Dolby NR; remote control; frame advance; still frame; auto rewind; one-touch recording with standby; HQ circuitry; omnisearch still/slow/2X play (SLP mode); auto in/out eject; multi-function display. Power requirements 120 V AC, 60 Hz, 29 W. 17" W X 4" H X 11.5" D; 13 lbs ..... \$650

#### PV1560 Videocassette Recorder

VHS-format table-top videocassette recorder with 4 heads. Features SP, LP, SLP play speeds; SP, LP, SLP record speeds; 14-day/4-event timer; remote control; frame advance; noiseless special effects; still frame; auto rewind; one-touch recording with standby; HQ circuitry; auto on/eject; multi-function display; remote programming. Power requirements 120 V AC, 60 Hz, 21 W. 17" W X 4" H X 11.5" D; 12.3 lbs ..... \$600

#### PV1364 Remote-Control VCR

VHS-format table-top videocassette recorder. Features cable-ready voltage-synthesized tuner; SP, LP, SLP play speeds; SP, LP, SLP record speeds; 14-day/2-event timer; remote control; frame



advance; still frame; auto rewind; one-touch recording with standby; HQ circuitry; omnisearch still/slow/2X play (SLP mode); auto on/eject; multi-function display. Power requirements 120 V AC, 60 Hz, 21 W. 17" W X 4" H X 11.5" D; 12.6 lbs ..... \$500

#### PV1360 Remote-Control VCR

VHS-format table-top videocassette recorder. Features SP, LP, SLP play speeds; SP, LP, SLP record speeds; 14-day/2-event timer; remote control; frame advance; still frame; auto rewind; one-touch recording with standby; HQ circuitry; omnisearch still/slow/2X play (SLP mode); auto on/eject; multi-function display. Power requirements 120 V AC, 60 Hz, 21 W. 17" W X 4" H X 11.5" D; 12.3 lbs ..... \$400

**PV1361.** As above with cable-ready tuning ..... \$450

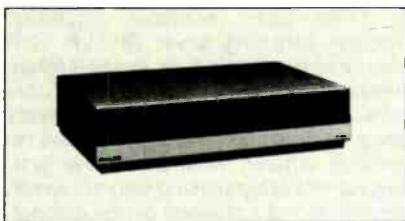
### PHILCO

#### VHS VCRs

#### VT8770AT Videocassette Recorder

VHS-format table-top VCR with HQ circuitry and 4 video heads. Features 3 play speeds, SP, LP, SLP record speeds; forward/reverse search at 5-times play speed; still frame; frame advance; slow motion; 14-day/4-event timer; noiseless special effects; 17-function wireless remote control; 93-channel cable-ready tuner; auto rewind; channel lock; auto





fine tuning; one-touch record; 5-min backup timer in case of temporary power failure; camera remote-pause jack. 17" W X 4" H X 11.5" D ..... \$749

#### **VT8765AT Videocassette Recorder**

VHS-format table-top VCR with Dolby stereo and HQ circuitry. Features 93-channel random-access tuning (cable-ready); 2 video heads; 14 day/4-event timer; 5-min back-up timer; 3 record/play speeds; audio/video input/output jacks one touch recording; auto rewind; auto fine tuning; timer record stop; channel lock; transition editing. The 27-function remote control features still, frame advance, rewind, slow up/down; and X2 play. Search/special effects include forward/reverse at 9X play speed, variable slow motion and transition editing. 17" W X 4" H X 11.5" D ..... \$699

#### **VT8760AT Videocassette Recorder**

VHS-format table-top VCR. Features 93-channel cable-ready tuner with 14 presets; 14-day/4 event timer; 5-min backup timer; one-touch recording; 3 record/play speeds; power failure indicator; auto rewind; channel lock; auto fine tuning; timer record stop; camera remote pause jack; 17-function wireless remote control; two video heads; HQ circuitry; forward/reverse speed search; still frame; frame advance; variable slow motion play at SLP playing speed; transition editing. 17" W X 4" H X 11.5" D . \$599

#### **VT8750AT Videocassette Recorder**

VHS-format table-top VCR. Features 14-preset tuner; 14-day/2 event timer; one-touch recording; 3 record/playback speeds; 11-function wireless remote control; auto fine tuning; channel lock; transition editing; auto rewind; auto rewind; camera remote pause jack; forward/reverse high-speed search; still frame; frame advance; slow motion play at the SLP playing speed. 17" W X 4" H X 11.5" D ..... \$549

### **PIONEER**

#### **VHS VCRs**

#### **VH-600 Hi-Fi Videocassette Recorder**

VHS-format videocassette recorder with SP, LP, EP play speeds; SP, LP, EP record speeds. Features rapid search; 14-day/4-event timer; stereo; wireless remote control; cable ready; video dubbing; still frame; channel lock; auto fine tuning; audio dubbing. Horizontal resolution 240 lines; video signal-to-noise ratio 42 dB; audio frequency response 20-20,000 Hz in Hi-Fi mode; audio signal-to-noise ratio 80 dB in Hi-Fi mode; power requirements 120 volts, 60 Hz AC. 17.12" W X 3.88" H X 14.5" D; 19.5 lbs . \$800

#### **Beta VCRs**

#### **VX-90 SuperBeta Hi-Fi VCR**

SuperBeta-format table-top VCR with complete editing control. Features Beta I, II, III play/record speeds; variable speed playback from still frame to 5X normal speed and frame by frame using the jog/shuttle dial; Beta-scan rapid-search; Hi-Fi sound; stereo; frame advance; remote control. noiseless special effects; cable ready; video dubbing; still frame; auto rewind; channel lock; auto fine tuning; audio dubbing. Compatible with Foresight remote unit. Horizontal resolution 300 lines; video S/N 45 dB; audio FR 20-20,000 Hz in Hi-Fi mode; power requirements 120 V, 60 Hz AC. 17" W X 4.12" H X 15.5" D; 25.5 lbs .... \$1,500

#### **VX-50 SuperBeta Hi-Fi VCR**

SuperBeta-format table-top VCR with Hi-Fi sound. Features Beta I, II, III play/record speeds; Beta-scan rapid-search; 7-day/6-event timer; stereo; remote control; cable ready; video dubbing; still frame; auto rewind; auto fine tuning; audio dubbing. Compatible with Foresight remote unit. Horizontal resolution 288 lines; video S/N 42 dB; audio FR 20-20,000 Hz in Hi-Fi mode; audio S/N 80 dB in Hi-Fi mode; power requirements 120 V, 60 Hz AC. 17" W X 4.12" H X 15.5" D; 22 lbs ..... \$800

#### **8-mm VCRs**

#### **VE-D70 Video/Digital Audio Recorder**

8-mm table-top video recorder with up to 24 hours of digital audio recording. Features 181-channel cable-capable tuner; built-in MTS/SAP decoder; FM simulcast recording capability; 21-day, 6-event program timer; sophisticated editing functions; flying erase heads; 2-speed recording (SP/LP) with four hours total video recording time; 24 hours of digital audio only rec time (LP), 6 stereo pairs; high speed picture search; noiseless freeze frame and slow motion; multi-function display with remaining time counter; PCM digital audio dynamic range >88dB; 3.75" H X 14.19" W X 13.5" D ..... \$1,450

### **QUASAR**

#### **VHS VCRs**

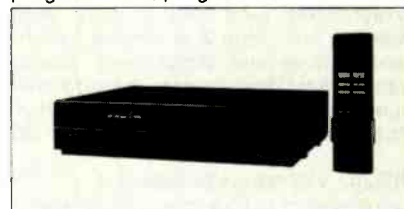
#### **VH5857 Hi-Fi Videocassette Recorder**

VHS-format table-top videocassette recorder. Features SP, LP, SLP play speeds, SP, LP, SLP record speeds; 1/5 X (SP), 1/30 X (SLP) slow-speeds; 2 X (SP, LP), 5 X (SP), 9 X (SLP) rapid-search speeds; 21-day/8-event programming;

Hi-Fi sound; stereo; frame advance; noiseless special effects; remote pause; cable ready; still frame; automatic rewind; channel lock; automatic fine tuning; audio cubbing; programmable OTR picture control; 37-function remote control; tape remain counter; automatic index search. Horizontal resolution greater than 230 lines; video signal-to-noise greater than 41 dB; audio frequency response 20-20,000 Hz -10 dB in Hi-Fi mode, 100-8,000 Hz -10 dB normal mode; audio signal-to-noise greater than 60 dB in Hi-Fi mode, greater than 42 dB in normal mode; power requirements 120 volts AC; power consumption 32 watts. 16.94" W X 4" H X 14.19" D; 17.6 lbs ..... \$950

#### **VH5865 Hi-Fi Videocassette Recorder**

Front-loading VHS-format videocassette recorder with built-in MTS stereo decoder. Features Hi-Fi stereo sound; VHS HQ; four-head video system; noise-free still frame; frame advance; variable slow motion; fast motion playback; high-speed picture search; 21-day, 8-event program timer; programmable one-touch



recording; frequency-synthesizer tuner; 42-function wireless remote control; auto power/eject; multi-function on-screen display; tape remain indicator; auto index search; timer back-up system; auto stop and rewind; picture sharpness control; direct drive cylinder motor; direct-drive capstan motor; aluminum diecast chassis. 16.94" W X 4" H X 14.19" D. 16.1 lbs ..... \$1,290

#### **VH5665 Hi-Fi Videocassette Recorder**

Front-loading VHS-format videocassette recorder with built-in MTS stereo decoder. Features Hi-Fi stereo sound; VHS HQ; four-head video system; noise-free still frame; frame advance; variable slow motion; fast motion playback; high-speed picture search; 21-day, 8-event program timer; programmable one-touch recording; frequency synthesizer tuner; 40-function wireless remote control; auto power/eject; multi-function on-screen display; timer back-up system; auto stop and rewind; picture sharpness control; direct drive cylinder motor; direct-drive capstan motor; aluminum diecast chassis. 16.94" W X 4" H X 14.19" D. 15.7 lbs ..... \$1,050

## **PRICES LISTED**

are only the manufacturers' suggested retail prices  
(also referred to as *list prices*):  
actual selling prices are set by each dealer.  
All prices are subject to change without notice.

**VH5268 Videocassette Recorder**

Front-loading VHS-format videocassette recorder with built-in MTS stereo decoder. Features VHS stereo with Dolby noise reduction; VHS HQ; four-head video system; noise-free still frame; frame advance; variable slow motion; fast motion playback; high speed picture search; 14-day, 4-event program timer; programmable one-touch recording; voltage synthesizer tuner; 27-function wireless remote control; auto power/eject; timer back-up system; auto stop and rewind; picture sharpness control; direct drive cylinder motor; direct drive capstan motor; aluminum diecast chassis. 16.94" W × 4" H × 11.62" D. 13.4 lbs . . . . \$730

**VH5168 Videocassette Recorder**

Front-loading VHS-format videocassette recorder with built-in MTS stereo decoder. Features VHS stereo with Dolby noise reduction; VHS HQ; still frame; variable slow motion; fast motion playback; high speed picture search; 14-day, 4-event program timer; programmable one-touch recording; voltage synthesizer tuner; 27-function wireless remote control; auto power/eject; electronic memory tape counter; auto stop and rewind; picture sharpness control; direct drive cylinder motor; direct drive capstan motor; aluminum diecast chassis. 16.94" W × 4" H × 11.62" D. 13.4 lbs . . . . \$630

**VH5262 Videocassette Recorder**

Front-loading VHS-format videocassette recorder with HQ circuitry. Features four-head video system; noise-free still frame; frame advance; variable slow motion; fast motion playback; high speed picture search; 14-day, 4-event program timer; programmable one-touch recording; voltage synthesizer tuner; 27-function wireless remote control; auto power/eject; timer back-up system; auto stop and rewind; picture sharpness control; direct drive cylinder motor; direct drive capstan motor; aluminum diecast chassis. 16.94" W × 4" H × 11.62" D. 12.6 lbs . . . \$600

**VH5261/5260 Videocassette Recorder**

Front-loading VHS-format videocassette recorder with HQ circuitry. Features four-head video system; noise-free still frame; frame advance; variable slow motion; fast motion playback; high speed picture search; 14-day, 4-event program timer; programmable one-touch recording; electronic tuning system; 17-function wireless remote control; auto power/eject; timer back-up system; auto stop; auto rewind at end of tape; picture sharpness control; direct-drive cylinder motor and direct-drive capstan motor;

aluminum diecast chassis. 16.94" W × 4" H × 11.62" D. 12.3 lbs . . . . \$560

**VH5165 Videocassette Recorder**

Front-loading VHS-format videocassette recorder with HQ circuitry. Features still frame; frame advance; variable slow motion; fast motion playback; high speed picture search; 14-day, 4-event program timer; programmable one-touch recording; electronic tuning system; 20-function wireless remote control; electronic memory tape counter; auto power/eject; timer back-up system; auto stop and rewind; picture sharpness control; direct drive cylinder motor; direct drive capstan motor; aluminum diecast chassis. 16.94" W × 4" H × 11.62" D. 12.3 lbs . . . . \$460

**VH5164/VH5163 Videocassette Recorder**

Front-loading VHS-format videocassette recorder with HQ circuitry. Features still frame; frame advance; variable slow motion; fast motion playback; high speed picture search; 14-day, 4-event program timer; programmable one-touch recording; electronic tuning system; 17-function wireless remote control; electronic memory tape counter; auto power/eject; timer back-up system; auto stop and rewind; picture sharpness control; direct drive cylinder motor; direct drive capstan motor; aluminum diecast chassis. 16.94" W × 4" H × 11.62" D. 12.3 lbs . . . . \$450

**VH5162 Videocassette Recorder**

Front-loading VHS-format videocassette recorder with HQ circuitry. Features still frame; frame advance; variable slow motion; fast motion playback; high speed picture search; 14-day, 2-event program timer; programmable one-touch recording; electronic tuning system; 11-function wireless remote control; electronic memory tape counter; auto power/eject; timer back-up system; auto stop and rewind; picture sharpness control; direct drive cylinder motor; direct drive capstan motor; aluminum diecast chassis. 16.94" W × 4" H × 11.62" D. 12.3 lbs . . . . \$440

**RCA****VHS VCRs****VKT/VLT700 Hi-Fi VCR**

VHS-format table-top videocassette recorder. Features SP, LP, SLP play speeds, SP, LP, SLP record speeds; SP, SLP slow-motion speeds; SP, SLP rapid-search speeds; 365-day/8-event timer; Hi-Fi sound; frame advance; noiseless special effects; remote control; remote pause; cable ready; video dubbing; still frame; automatic rewind; channel lock; automatic fine tuning; audio dubbing; five heads; Dimensia system intelligence; remote programming with on-screen display; time remaining indicator; variable slow-motion. Power consumption 48 watts. 17.12" W × 4.5" H × 14.62" D; 20 lbs . . . . \$1,299

**VMT670HF Videocassette Recorder**

VHS Hi-Fi VCR with built-in MTS/SAP decoder. Features VHS HQ picture quality; 169-channel cable-ready frequency-

synthesis tuner; simulcast capability; auto-programming tuner; SP, LP, SLP play/record speeds; high speed search, freeze frame, frame advance, variable slow motion (SP, SLP); 1-year, 8-event program timer; delayed-start express recording; infrared wireless remote control; remote programming with on-screen display; digital command center compatibility; 5-video, 2-audio heads; headphone jack; auto rewind. Hi-Fi audio section FR 20-20,000 Hz; dynamic range >80 dB; total harmonic distortion 0.4%; wow and flutter <0.005%; channel separation >60 dB. 3.88" H × 17.12" W × 13.5" D; 19.1 lbs . . . . \$899

**VMT630HF VCR—Featured on Cover**

VHS Hi-Fi VCR with built-in MTS/SAP decoder. Features VHS HQ picture quality; 119-channel cable-ready frequency-synthesis tuner; simulcast capability; auto-programming tuner; SP, LP, SLP play/record speeds; high speed search, freeze frame, frame advance, fixed slow motion (SLP); 1-year, 4-event program timer; delayed-start express recording; infrared wireless remote control; remote programming with on-screen display; digital command center compatibility; 3-video, 2-audio heads; headphone jack; auto rewind. Hi-Fi audio section FR 20-20,000 Hz; dynamic range >80 dB; total harmonic distortion 0.4%; wow and flutter <0.005%; channel separation >60 dB. 3.88" H × 17.12" W × 13.88" D; 16.1 lbs . . . . \$699

**VMT400 Videocassette Recorder**

VHS-format VCR with digital special effects. Features picture-in-picture, picture freeze, mosaic and oil-painting digital effects; VHS HQ picture quality; 119-channel cable-ready frequency-synthesis tuner; auto-programming tuner; SP, LP, SLP



play/record speeds; high-speed search, freeze frame, frame advance, fixed slow motion (SLP); 1-year, 4-event program timer; delayed-start express recording; infrared wireless remote control; remote programming with on-screen display; digital command center compatibility; auto rewind . . . . \$699

**VMT595 Videocassette Recorder**

VHS-format VCR with built-in MTS/SAP decoder. Features linear stereo with Dolby NR; VHS HQ picture quality; 119-channel cable-ready frequency-synthesis tuner; simulcast capability; auto-programming tuner; SP, LP, SLP play/record speeds; high speed search, freeze frame, frame advance, fixed slow motion (SP, SLP); 1-year, 4-event program timer; delayed-start express recording; infrared wireless remote control; remote programming with on-screen display; digital command center compatibility; 5-video heads; auto rewind. 3.88" H × 17.12" W × 13" D . . . . \$599

These listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses are given in the directory beginning on page 43.



**VMT590 Videocassette Recorder**

VHS-format VCR with 5-head video system. Features VHS HQ picture quality; 119-channel cable-ready frequency-synthesis tuner; auto-programming tuner; SP, LP, SLP play/record speeds; high speed search, freeze frame, frame advance, fixed slow motion (SP, SLP); 1-year, 4-event program timer; delayed-start express recording; infrared wireless remote control; remote programming with on-screen display; digital command center compatibility; 5-video heads; auto rewind. 3.88" H X 17.12" W X 13" D; 16.1 lbs ..... \$549

**VMT395 Videocassette Recorder**

VHS-format VCR with built-in MTS/SAP decoder. Features linear stereo with Dolby NR; VHS HQ picture quality; 119-channel cable-ready frequency-synthesis tuner; simulcast capability; auto-programming tuner; SP, LP, SLP play/record speeds; high speed search, freeze frame, frame advance, fixed slow motion (SLP); 1-year, 4-event program timer; delayed-start express recording; infrared wireless remote control; remote programming with on-screen display; digital command center compatibility; 3-video heads; auto rewind. 3.88" H X 17.12" W X 13" D; 16.1 lbs ..... \$499

**VMT390 Videocassette Recorder**

VHS-format VCR with VHS HQ picture quality. Features 119-channel cable-ready frequency-synthesis tuner; auto-programming tuner; SP, LP, SLP play/record speeds; high-speed search, freeze frame, frame advance, fixed slow motion (SLP speed); 1-year, 4-event program timer; delayed-start express recording; infrared wireless remote control; remote programming with on-screen display; digital command center compatibility; 3-video heads; auto rewind. 3.88" H X 17.12" W X 12.62" D; 16.1 lbs ..... \$449

**VMT385 Videocassette Recorder**

VHS-format VCR with VHS HQ picture quality. Features 107-channel cable-ready frequency-synthesis tuner; SP, LP, SLP play/record speeds; high speed search, freeze frame, frame advance, fixed slow motion (SLP speed); 14-day, 4-event program timer; delayed-start express recording; infrared wireless remote control; digital command center compatibility; 3-video heads; auto rewind. 3.88" H X 17.12" W X 12.62" D; 16.1 lbs ..... \$399

**REALISTIC**

**VHS VCRs**

**Model-41 Videocassette Recorder**

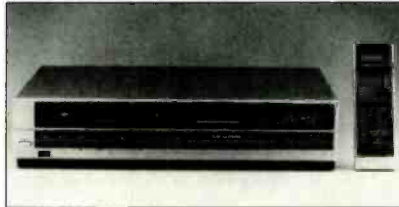
VHS-format table-top VCR with HQ circuitry and stereo sound. Features SP, LP, EP play/record speeds; comb filter; forward/reverse search; 14-day/5-event timer; linear stereo; Hi-Fi sound; Dolby noise reduction; wireless remote control; tuner/simulcast/aux input selector; one-touch recording; remote pause; still frame; automatic rewind at end of tape;



power interrupt protection. 3.69" H X 16.94" W X 13.62" D ..... \$560

**Model-31 Videocassette Recorder**

VHS-format table-top VCR with MTS/SAP television tuning. Features SP, LP, EP play/record speeds; EP rapid-search speed; 14-day/5-event timer; Dolby NR; remote control; remote pause; one-touch recording; power interrupt



protection. 3.69" H X 16.94" W X 13.62" D ..... 500

**Model-17 Videocassette Recorder**

VHS-format table-top VCR with HQ circuitry and 111-channel cable-ready tuner. Features 14-day/4-event timer; 4-heads; still-frame; 26-function wireless remote; 3 record/playback speeds; auto-rewind; one-touch recording; can set VCR to stop at preset time; backspace editor; stop-interrupt protection. 3.88" H X 17.94" W X 14.75" D ..... \$450

**Model-18 Videocassette Recorder**

VHS-format table-top VCR with 105-channel cable-ready tuner. Features 14-day/4-event timer; backspace editor; tuner/aux input selector; one-touch recording; 3 record/playback speeds; remote control; forward/reverse search; auto rewind. 3.69" H X 16.94" W X 13.94" D ..... \$350

**SAMSUNG**

**VHS VCRs**

**VT-226T Videocassette Recorder**

VHS-format table-top VCR with slow motion, frame advance and electronic counter. Features 3 play speeds; 3 record speeds; 14-day/6-event timer; remote control; remote pause; cable ready; auto rewind; channel lock; 4 heads. Horizontal resolution more than 210 lines; audio signal-to-noise ratio 40 dB in Hi-Fi mode; 17" W X 4" H X 15" D; 18.7 lbs ..... \$440

**VR-4700L Videocassette Recorder**

VHS-format table-top VCR. Features 110-channel cable-ready random-access tuning; 3 play speeds, 3 record speeds, linear stereo; 14-day/6-event timer; remote control; remote pause; auto rewind; channel lock; still frame; electronic counter. Horizontal resolution more than 240 lines; 17" W X 4" H X 15" D; 19.8 lbs ..... \$398

**VR-2410 Videocassette Recorder**

VHS-format table-top VCR with HQ circuitry. Features one-touch recording; 3 play speeds, 3 record speeds; 14-day/6-event timer; remote control; remote pause; auto rewind; remote channel up/down; LED display. Horizontal resolution more than 210 lines; 17" W X 4" H X 14" D; 18.7 lbs ..... \$380

**VT311TDL Videocassette Recorder**

VHS-format table-top VCR. Features 3 play speeds, 3 record speeds; 14-day/6-event timer; remote control; auto rewind; one-touch recording. Horizontal resolution more than 240 lines; 17" W X 4" H X 14" D; 19.8 lbs ..... \$350

**VR2500L Videocassette Recorder**

VHS-format table-top VCR with linear stereo. Features 3 play speeds, 3 record speeds; 14-day/6-event timer; auto rewind; one-touch recording; audio and video dubbing. Horizontal resolution more than 210 lines; 17" W X 4" H X 15" D; 18.7 lbs ..... \$335

**SANSUI**

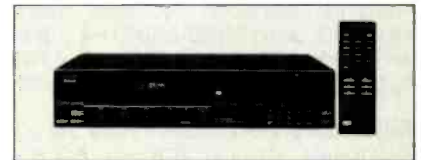
**VHS VCRs**

**SV-R9700HF Hi-Fi HQ MTS VCR**

VHS-format table-top VCR with HQ circuitry and built-in MTS decoder for stereo broadcasts. Features SP, LP, EP play speeds; SP, EP record speeds; SP, EP slow-motion speeds; SP, EP rapid-search speeds; 14-day/8-event timer; Hi-Fi sound; stereo; frame advance; noiseless special effects; remote control; remote pause; cable ready; video dub; still frame; auto rewind; auto fine tuning; audio dub; backspace editing; front loading; 1-hour memory backup. Audio S/N 80 dB in Hi-Fi mode. 17.19" W X 4.19" H X 14.94" D; 19 lbs ..... \$1,100

**SV-R9500 HQ Linear-Stereo VCR**

VHS-format table-top VCR with HQ circuitry. Features SP, EP record speeds; still frame; one-touch recording; backspace edit; counter memory; Hi-Fi sound;



linear stereo; auto rewind; auto fine tuning; audio and video dubbing; auto power on; remote pause; cable-ready; auto fine tuning. 17" W X 4" H X 13" D ... \$900

**SV-R9300HF 4-Head HQ VCR**

VHS-format table-top VCR with HQ circuitry. Features SP, LP, EP play speeds, SP, EP record speeds; SP, EP rapid-search speeds; 14-day/4-event timer; frame advance; noiseless special effects; remote control; remote pause; cable-ready; video dub; still frame; auto rewind; audio dub; 4 heads; backspace edit \$600

**SV-R5700 2-Head Remote-Control VCR**

VHS-format table-top VCR with HQ circuitry. Features SP, LP, EP play speeds,

SP, EP record speeds; SP, EP rapid-search speeds; 14-day/4-event timer; frame advance; noiseless special effects; remote control; remote pause; still frame; auto rewind; backspace editing; 2 heads. 17.19" W × 3.75" H × 13.12" D; 15.5 lbs ..... \$550

### SANYO

#### VHS VCRs

**VHR1900 Hi-Fi Videocassette Recorder**  
VHS-format table-top VCR with Hi-Fi stereo sound. Features built-in MTS/SAP decoder; HQ circuitry; wireless remote control; SP, LP, EP play and record speeds; 4-head video system; noise-free special effects; variable slow motion; high-speed search; freeze frame with



frame advance; 107-channel cable-compatible tuner; direct-access tuning; 8-event/14-day timer; one-touch recording; picture detail and sharpness adjustment; auto rewind, memory rewind; auto playback; auto power on; power failure back-up. Horizontal resolution 240 lines; video S/N 45 dB; audio FR 20-20,000 Hz ±3 dB in Hi-Fi mode; 16.5" W × 3.88" H × 14.75" D; 19 lbs ..... \$750

**VHR2900 Hi-Fi Videocassette Recorder**  
VHS-format table-top VCR with Hi-Fi stereo sound. Features built-in MTS/SAP decoder; detail-enhancement circuit; sharpness control; wireless remote; 365-day/8-event timer; on-screen display of timer program, channel, tape counter, time and date, tape transport mode and tracking; one-touch recording; linear stereo with Dolby NR playback only; SP, LP, EP play and record speeds; 111-channel cable-ready tuner; auto rewind, memory rewind; auto playback; auto power on. Horizontal resolution 240 lines; video S/N 45 dB; audio FR 20-20,000 Hz ±3 dB Hi-Fi mode; 16.5" W × 3.88" H × 14.75" D; 19 lbs ..... \$720

**VHR1550 HQ Videocassette Recorder**  
VHS-format table-top VCR with HQ circuitry. Features linear stereo with Dolby NR; remote control; 107-channel direct-access cable-ready tuner; 14-day/8-event timer; one-touch recording; SP, LP, EP play and record speeds; still frame; frame advance; high-speed search; auto rewind; memory rewind; auto power on; auto playback; power failure backup; sharpness control. Horizontal resolution 240 lines; video S/N 45 dB; audio FR 50-10,000 Hz ±3 dB; audio S/N >46 dB (Dolby on); 16.5" × 3.88" × 14.5" D; 16.25 lbs ..... \$470

**VHR 2550 Dolby Videocassette Recorder**  
VHS-format table-top VCR. Features linear stereo with Dolby NR; remote control; 111-channel direct-access cable-

ready tuner; 14-day/8-event timer; one-touch recording; SP, LP, EP play and record speeds; still frame; frame advance; high-speed search; auto rewind; memory rewind; auto power on; auto playback; power failure back up; sharpness control; horizontal resolution 240 lines; video S/N 45 dB; audio FR 50-10,000 Hz ±3 dB; audio S/N ≥46 dB (Dolby on); 16.5" × 3.88" × 14.5" D; 16.25 lbs ..... \$470

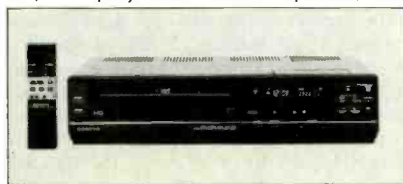
**VHR 1600 HQ Videocassette Recorder**  
VHS-format table-top VCR with HQ circuitry. Features 3-head video system for noiseless special effects; double-speed playback; high-speed search; still frame; frame advance; remote control; direct-access cable-ready tuner; 14-day/8-event timer; one-touch recording; SP, LP, EP play and record speeds; auto rewind; memory rewind; auto power on; auto playback; power failure back up; sharpness control; horizontal resolution 240 lines; video S/N 45 dB; 16.5" × 3.88" × 14.5" D; 16.25 lbs ..... \$460

**VHR 2350 Remote-Control VCR**  
VHS-format table-top VCR with HQ circuitry. Features remote control; 107-channel direct-access cable-ready tuner; 14-day/8-event timer; one-touch recording; SP, LP, EP play and record speeds; still frame; frame advance; high-speed search; auto rewind; memory rewind; auto power on; auto playback; horizontal resolution 240 lines; video S/N 45 dB; 16.5" × 3.88" × 14.5" D; 15.5 lbs \$400

**VHR 1350 HQ Videocassette Recorder**  
VHS-format table-top VCR with HQ circuitry. Features remote control; 107-channel direct-access cable-ready tuner; 14-day/8-event timer; one-touch recording; SP, LP, EP play and record speeds; still frame; frame advance; high-speed search; auto rewind; memory rewind; auto power on; auto playback; horizontal resolution 240 lines; video S/N 45 dB; 16.5" × 3.88" × 14.5" D; 15.5 lbs \$400

**VHR 2250 Remote-Control VCR**  
VHS-format table-top VCR with HQ circuitry. Features remote control; 107-channel cable-ready tuner; 14-day/4-event timer; one-touch recording; SP, LP, EP play and record speeds; still frame; frame advance; high-speed search; auto rewind; memory rewind; auto power on; auto playback; horizontal resolution 240 lines; video S/N 45 dB; 16.5" × 3.88" × 14.75" D; 15.5 lbs \$350

**VHR 1250 HQ VCR**  
VHS-format table-top VCR with HQ circuitry. Features remote control; 107-channel cable-ready tuner; 14-day, 4-event timer; one-touch recording; SP, LP, EP play and record speeds; still



frame; high-speed search; auto rewind; memory rewind; auto power on; auto playback; horizontal resolution 240 lines; video S/N 45 dB; 16.5" × 3.88" × 14.75" D; 15.5 lbs ..... \$350

#### Beta VCRs

**VCR7500 Beta Hi-Fi VCR**  
Hi-Fi video recorder with multi-channel TV sound decoder built in. 105-channel tuner; 14-day/8-event timer; 2 video heads; 1 audio head. Beta II and III play/record speeds, 9× rapid-search speed in Beta III. Features front loading; noiseless special effects; wireless 13-function remote control; remote pause; cable ready; still frame; auto rewind; auto fine tuning; audio dubbing; counter memory; headphone jack; left and right inputs for mikes; dew sensor. Horizontal resolution 230 lines in Beta II; video S/N 44 dB in Beta II; audio FR 20-20,000 Hz ±3 dB Hi-Fi mode, 50-10,000 Hz ±3 dB normal mode, Beta II; W&F 0.005% in Hi-Fi mode; THD 0.3% Hi-Fi mode; dynamic range 80 dB Hi-Fi mode, 40 dB normal mode, in Beta II. 13.19" W × 4.19" H × 13.84" D; 16.5 lbs. .... \$480

**VCR7250 SuperBeta Hi-Fi VCR**  
Beta-format table-top VCR. Features B II, B III play/record speeds; 9× rapid search speed; 14-day/8-event timer; Hi-Fi sound; remote control; remote pause; cable ready; still frame; auto rewind; auto fine tuning. Horizontal resolution 300 lines Super Beta, 260 line Beta Hi-Fi; video S/N 44 dB B II; audio FR 20-20,000 Hz in Hi-Fi mode, 50-10,000 Hz normal mode (B II); audio distortion 0.04% in Hi-Fi mode; audio S/N 80 dB in Hi-Fi mode, 40 dB in normal mode; power requirements AC 120 V, 60 Hz, 38 W. 16.56" W × 3.91" H × 15.19" D; 17.6 lbs .. \$450

**VCR7150 Beta Hi-Fi VCR**  
Beta-format front-loading VCR with Hi-Fi stereo sound. Features remote control; 14-day, 8-event timer; 105-channel cable-ready tuner; high-speed search; still



frame; auto rewind; memory rewind; one-touch recording; B II, B III play/record speeds; horizontal resolution 240 lines; video S/N 45 dB; audio FR 20-20,000 Hz ±3 dB; audio S/N 65 dB; 16.5" W × 4.63" H × 14.25" D; 21 lbs ..... \$430

**VCR4030 Remote-Control VCR**  
Beta-format front-loading video recorder with 14-function infrared remote control. Linear mono sound; play/record speeds Beta II and III; 9× rapid-search speed; 105-channel tuner; 14-day/8-event timer plus every day and every week programming; 2 video heads; 1 audio head. Features remote pause; cable ready; still frame; slow motion; auto rewind; auto fine tuning; counter memory ..... \$380



**VCR4027 SuperBeta Video Recorder**  
Beta-format front-loading VCR. Features 7-day, 1-event timer; remote control; 270 lines horizontal resolution Super Beta;



105-channel cable-ready tuner; high speed search; still frame; B II, B III play/record speeds; 16.5" W × 4.63" H × 14.25" D; 18 lbs ..... \$350

**SCOTT**

**VHS VCRs**

**SVR-504S Stereo HQ VCR**

VHS-format table-top VCR with built-in MTS/SAP stereo decoder. Converts any TV to stereo. Features HQ circuitry; Hi-Fi sound; remote control; 3 play speeds, 2 record speeds; 14-day/8-event timer; noiseless special effects; remote pause; still frame; auto fine-tuning; audio dubbing; one-touch recording; 4 video heads; 16-channel presets; LED record-level indicators; headphone jack; 139-channel cable-ready tuner; simulcast switch. Horizontal resolution 525 lines; 17" W × 4.36" H × 13" D; 21 lbs . \$850

**SVR-330S Stereo HQ VCR**

VHS-format table-top front-load videocassette recorder with built-in MTS/SAP decoder for stereo broadcasts. Converts any television to stereo sound. Features High Quality (HQ) circuitry; Hi-Fi sound; 25-button wireless remote control; three play speeds, and two record speeds; 14-day/4-event timer; remote pause; auto fine-tuning;

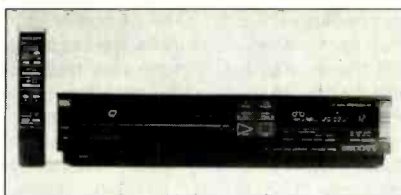


audio dubbing; one-touch recording; 2 video heads; 16 channel presets; LED record-level indicators; headphone jack; 139-channel cable-ready tuner; simulcast switch. Horizontal resolution 525 lines; 17" W × 4.36" H × 13" D; 20 lbs ..... \$750

**SVR-200S Dolby Stereo VCR**

VHS-format table-top VCR with built-in MTS/SAP stereo decoder. Converts any TV to stereo. Features HQ circuitry; 21-function wireless remote control; linear stereo; Dolby NR; cable ready; still frame; one-touch recording; 2 video heads; 1 stereo audio head; 12 channel presets; headphone jack; 3 play speeds, 2 record speeds; 14-day/4-event timer. Horizontal resolution 525 lines. 17" W × 4.36" H × 13 D; 20 lbs ..... \$600

**SVR-110.** As above without stereo. Features 105-channel cable-ready tuner; 15-



function wireless remote control; 14-day/8-event timer; 16.88" W × 4" H × 11.88" D; 15 lbs ..... \$450

**SHARP**

**VHS VCRs**

**VC-H65U Stereo Hi-Fi VCR**

VHS-format table-top front-loading videocassette recorder with built-in MTS decoder for stereo broadcasts and depth multiplex recording for improved audio quality. Features HQ circuitry with double comb filter; 14-day/6-event daily/weekly repeat programmable timer; 110-channel cable-ready PLL-synthesized tuner; 23-function wireless remote control; auto power on/playback/repeat function; one-



touch recording; 15× search; automatic program search system (APSS); still function in EP mode; fluorescent dual-time display; electronic 4-digit tape counter; 8-hour recording and playback; microcomputer-controlled power-assist drive; tuner/simulcast/auxiliary input selector; auto TV/VCR output selector; headphone jack with adjustable level; dew sensor and warning indicator; built-in RF converter; program memory backup system ..... \$820

**VC-H64U Hi-Fi VCR**

VHS-format table-top front-loading videocassette recorder with Hi-Fi sound. Features HQ circuitry with double comb filter; input for MTS decoder; 14-day/4-event daily/weekly repeat programmable timer; 110-channel cable-ready voltage-synthesized tuner with 16 memory presets; 13-function wireless remote control; auto power on/playback/repeat function; one-touch recording; 15× search; still function in EP mode; fluorescent time display; electronic 4-digit tape counter; 8-hour recording and playback; microcomputer-controlled power-assist drive; tuner/simulcast/auxiliary input selector; auto TV/VCR output selector; headphone jack with adjustable level; dew sensor and warning indicator; built-in RF converter; program memory backup system ..... \$700

**AN1000U.** MTS decoder for VC-H64U ..... \$200

**VC-687U Stereo VCR**

VHS-format table-top front-loading videocassette recorder with built-in MTS decoder for stereo broadcasts and linear stereo recording and playback. Features 4 heads; 14-day/5-event daily/weekly re-

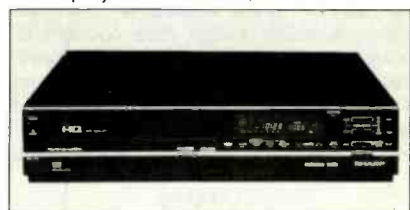
peat programmable timer; 110-channel cable-ready voltage-synthesized tuner with 16 memory presets; 14-function wireless remote control; auto power on/playback/repeat function; one-touch recording; 15× (EP mode) and 7× (SP/LP modes) search; still function and frame advance in SP/EP modes; fluorescent time display; electronic 4-digit tape counter; 8-hour recording and playback; microcomputer-controlled power-assist drive; tuner/auxiliary input selector; auto TV/VCR output selector; dew sensor and warning indicator; built-in RF converter; program memory backup system; picture tone control ..... \$700

**VC-686U 4-Head VCR**

VHS-format table-top front-loading videocassette recorder with 4 heads. Features HQ circuitry with double comb filter; 14-day/4-event daily/weekly repeat programmable timer; 110-channel cable-ready voltage-synthesized tuner with 16 memory presets; 14-function wireless remote control; auto power on/playback/repeat function; one-touch recording; 15× (EP mode) and 7× (SP/LP modes) search; still function and frame advance in SP/EP modes; fluorescent time display; electronic 4-digit tape counter with memory; 8-hour recording and playback; microcomputer-controlled power-assist drive; tuner/auxiliary input selector; automatic television/videocassette recorder output selector; dew sensor with warning indicator; built-in RF (radio frequency) converter; memory backup system for timer program ..... \$620

**VC-T64U HQ VCR**

VHS-format table-top front-loading videocassette recorder with detachable programmable card timer. Timer card allows 14-day/5-event programming from any remote location and then slips back into main unit for unattended operation from program instructions. Features HQ circuitry with double comb filter; automatic playback function; 13-function in-



frared remote control; 110-channel cable-ready voltage-synthesizer tuner; simple recording timer; 15× search in EP mode; still function in EP mode; fluorescent dual-time display; electronic 4-digit counter with memory; microcomputer-controlled power-assist drive; auto TV/VCR output selector; built-in RF converter; dew sensor and warning indicator ..... \$600

For explanations of abbreviations, specifications, and technical terms, turn to the vocabulary on page 38.

**VC-685U Stereo VCR**

VHS-format table-top front-loading videocassette recorder with built-in MTS decoder for stereo broadcasts. Features linear stereo recording and playback; HQ circuitry with couble comb filter; 14-day/4-event daily/weekly repeat programmable timer; 110-channel cable-ready voltage-synthesized tuner with 16 memory presets; 13-function wireless remote control; auto power on/playback/ repeat function; one-touch recording; 15X search in EP mode; still function EP mode; fluorescent time display; electronic 4-digit tape counter with memory; 8-hour recording and playback; microcomputer-controlled power-assist drive; tuner/auxiliary input selector; auto TV/VCR output selector; dew sensor and warning indicator; built-in RF converter; program memory backup system . \$600

**VC-6847U HQ VCR**

VHS-format table-top front-loading videocassette recorder with HQ circuitry. Features 14-day/4-event daily/weekly repeat programmable timer; 110-channel cable-ready voltage-synthesized tuner with 16 memory presets; 13-function wireless remote control; auto power on/playback/repeat function; one-touch recording; 15X search in EP mode; still function EP mode; fluorescent time display; electronic 4-digit tape counter with memory; 8-hour recording and playback; microcomputer-controlled power-assist drive; auto TV/VCR output selector; dew sensor and warning indicator; built-in RF converter; program memory backup system ..... \$570

**VC-6846US/UB HQ VCR**

VHS-format table-top front-loading videocassette recorder with HQ circuitry. Features 14-day/4-event daily/weekly repeat programmable timer; 110-channel cable-ready voltage-synthesized tuner with 16 memory presets; 10-function wireless remote control; auto power on and rewind; 15X search in EP mode; still function EP mode; fluorescent time display; electronic 4-digit tape counter; 8-hour recording and playback; microcomputer-controlled power-assist drive; auto TV/VCR output selector; dew sensor and warning indicator; built-in RF converter ..... \$550

**SYLVANIA****VHS VCRs****VC8970 Stereo Videocassette Recorder**

VHS-format table-top VCR with MTS/SAP decoder. Features Hi-Fi stereo sound; 4-head system (3 year warranty on video heads); 93-channel random-access tuner; 39-function wireless remote control; 21-day/8 event programmer; 60-



min backup timer (in case of power failure); forward/reverse high-speed search; still frame; frame advance; slow motion; one-touch record with standby; on-screen programming; auto fine-tuning; vertical lock; channel lock; transition editing; CATV adapter jack. Frequency response 20-20,000 Hz; harmonic distortion <0.47%; signal-to-noise ratio >60 dB; 17" W X 4" H X 11.5" D; .. \$1,049

**VC8960 Videocassette Recorder**

VHS-format VCR. Features 4-head system (3 year warranty on video heads); 93-channel random-access tuner; 39-function wireless remote control; 14-day/four-event timer programmer; 5-min backup timer saves program in case of power failure); forward/reverse high-speed search; 3 play/record speeds; still frame; frame advance; slow motion; one-touch record with standby; on-screen programming; auto fine-tuning; vertical lock; channel lock; transition editing. 17" W X 4" H X 11.5" D; ..... \$799

**VC8950 Videocassette Recorder**

VHS-format VCR. Features 17-function wireless remote control; 14-day/4 event programmer; 5-min backup timer (in case of power failure); forward/reverse hi-speed search; 3 play/record speeds; still



frame; frame advance; slow motion; one-touch record with standby; on-screen programming; auto fine-tuning; vertical lock; channel lock; transition editing. 17" W X 4" H X 11.5" D ..... \$749

**VC8945 Stereo Videocassette Recorder**

VHS-format VCR with Dolby stereo. Features 2 video heads (3-year warranty on heads); 93-channel random-access tuner; 14-day/4 event programmer; 5-minute timer back-up system; 27-function wireless remote control; MTS/SAP jack to connect an optional external MTS/SAP decoder; one-touch record with standby; forward/reverse search; 3 play/record speeds; auto fine tuning; channel lock; transition editing. 17" W X 4" H X 11.5" D ..... \$699

**VC8940 Videocassette Recorder**

Similar to VC8945 without stereo. Features 35-function wireless remote control ..... \$649

**VC8930 Videocassette Recorder**

VHS-format VCR with 93-channel cable-ready tuner. Features 14-day/4 event programmer; 2 video heads; 5-min backup timer; hi-speed forward/reverse search; one-touch record with standby; 17-function wireless remote control; 3 play/record speeds; auto fine tuning; channel lock; transition editing; auto rewind. 17" W X 4" H X 11.5" D ... \$599

**VC8920.** Similar to VC8930 except with UHF/VHF tuner (no CATV), 14-day/2 event programmer, and 11-function wireless remote control ..... \$549

**TATUNG****VHS VCRs****VRH-8700U Videocassette Recorder**

VHS-format table-top VCR with 14-day/4-event timer. Features remote control; SP, EP play speeds; SP, EP record speeds; still frame; auto rewind one-touch recording; remote pause; cable ready. Horizontal resolution 240 lines; video S/N 45 dB. 17.19" W X 3.75" H X 13.44" D; 15.6 lbs ..... \$599

**VRH-8800U 4-Head VCR**

VHS-format table-top videocassette recorder with wireless remote control. Features instant recording function; feather-touch symbolic control buttons; shuttle search; still frame; 14-day/4-event timer; SP, EP play speeds; SP, EP record speeds; counter memory; elapsed-time counter; picture sharpness control; auto editing; auto rewind; auto power on; cable ready. Horizontal resolution 240 lines; video S/N 45 dB. 17.19" W X 3.75" H X 14.88" D; 16.6 lbs ..... \$499

**TEAC****VHS VCRs****MV-900 Videocassette Recorder**

VHS-format table-top VCR. Features digital-memory function and effects (E-E still frame, Interval Play and Solarization); DA-4 head; SP, EP, LP play speeds; SP, EP record speeds; Hi-Fi sound; remote control with frame advance; cable ready; still frame. Power requirements 120 V AC, 38 W; 17.19" W X 3.75" H X 13.25" D; 22.2 lbs ..... \$1,200

**MV-600 Videocassette Recorder**

VHS-format table-top VCR with 108-channel quartz-locking digital tuner. Features Hi-Fi record/playback; MTS, Simulcast record capable; selectable audio monitoring, HQ circuit; video NR; sharpness control; music scan; back space assemble edit; remote control, one-touch recording. Audio frequency response 20-20,000 Hz  $\pm$  3dB in Hi-Fi mode, 100-10,000 Hz  $\pm$  3 dB in normal mode. \$699

**MV-350 Videocassette Recorder**

VHS-format table-top VCR with HQ Circuit and 110-channel cable-ready tuner. Features SP, EP, LP play speeds, SP, EP record speeds; 14-day/4-event timer; Hi-Fi sound; frame advance; remote control; still frame; still picture noise cancellation; auto rewind; auto shut-off; video signal-to-noise 40 dB; audio frequency response 100-8,000 Hz  $\pm$  3dB in normal mode; audio signal-to-noise ratio 40 dB in normal mode. Power requirements 30W + 10% ..... \$499

**VECTOR RESEARCH****VHS VCRs****V-5040 Hi-Fi Videocassette Recorder**

VHS-format table-top remote-controlled VCR with 28-day, 3-event timer. Features SP, LP, SLP play and record speeds, lin-



ear stereo; Dolby noise reduction; frame advance; noiseless special effects; remote pause; still frame; auto rewind; channel lock; auto fine tuning; one-touch recording; time-remaining display; 4 double-azimuth heads; HQ; 21-times picture search; MTS 140-channel tuner with direct access; on-screen programming; audio level controls with level meter. Cable ready. Horizontal resolution 230 lines; video S/N 47 dB; audio FR 20-20,000 Hz  $\pm 3$  dB in Hi-Fi mode; audio distortion 0.5% in Hi-Fi mode; audio S/N 90 dB in Hi-Fi mode; power requirements 120 V AC, 60 Hz, 41 W. 17" W  $\times$  4" H  $\times$  15" D; 18 lbs . . . . . \$1,099

#### V-5000 Hi-Fi Videocassette Recorder

VHS-format table-top videocassette recorder with MTS tuner. Features SP, LP, SLP play speeds; SP, LP, SLP record speeds; variable slow-motion speeds; SP, LP, SLP rapid-search speeds; 21-day/8-event timer; Hi-Fi sound; stereo; frame advance; noiseless special effects; remote control; remote pause; Dolby noise reduction; cable ready; video dubbing; still frame; automatic rewind; channel lock; automatic fine tuning; audio dubbing; four heads; unified wireless remote for VTM-25 monitor/receiver; on-screen programming. Horizontal resolution 240 lines; video signal-to-noise ratio 45 dB; audio frequency response 20-20,000 Hz  $\pm 3$  dB in Hi-Fi mode, 4-14,000 Hz  $\pm 3$  dB normal mode; audio signal-to-noise ratio 80 dB in Hi-Fi mode, 50 dB in normal mode. 17" W  $\times$  4.12" H  $\times$  15" D; 17 lbs . . . . . \$1,000

#### V-4040 Hi-Fi Videocassette Recorder

VHS-format table-top videocassette recorder. Features 4 heads (double azimuth); SP, LP, SLP play and record speeds; remote control; frame advance; noiseless special effects; remote pause; still frame; auto rewind; channel lock; auto fine tuning; 21-day/4-event timer. Cable ready. Horizontal resolution 230



lines; video S/N 47 dB; audio frequency response 20-20,000 Hz  $\pm 3$  dB in Hi-Fi mode; audio distortion 0.5% in Hi-Fi mode; audio S/N 90 dB in Hi-Fi mode; power requirements 120 V AC, 60 Hz, 35 W. 17" W  $\times$  4" H  $\times$  15" D; 18 lbs. \$849  
**V-4020.** 2-head version of V-4040 without noiseless special effects . . . . . \$749

#### V-4000 Hi-Fi Videocassette Recorder

VHS-format table-top videocassette recorder with MTS tuner. Features SP, LP, SLP play speeds; SP, LP, SLP record speeds; SP, LP, SLP rapid-search speeds; 21-day/4-event timer; Hi-Fi sound; stereo; frame advance; remote control; remote pause; Dolby noise reduction; cable ready; video dubbing; still frame; automatic rewind; channel lock;

automatic fine tuning; audio dubbing; unified wireless remote for both recorder and VTM-25 receiver/monitor. Horizontal resolution 240 lines; video signal-to-noise ratio 45 dB; audio frequency response 20-20,000 Hz  $\pm 3$  dB in Hi-Fi mode, 40-14,000 Hz  $\pm 3$  dB normal mode; audio signal-to-noise ratio 80 dB in Hi-Fi mode, 50 dB in normal mode. 17" W  $\times$  4.12" H  $\times$  15" D; 17 lbs . . . . . \$750

#### V-2001 HQ Videocassette Recorder

VHS-format table-top videocassette recorder with voltage-synthesized tuner and scan. Features SP, LP, SLP play and record speeds, 21-day/4-event timer; remote control; frame advance; remote pause; still frame; auto rewind; channel lock; auto fine tuning; one-touch recording; sharpness control; 21-times picture search. Horizontal resolution 230 lines; video S/N 47 dB; power requirements 120 V AC, 60 Hz, 32 W. 17" W  $\times$  4" H  $\times$  15" D; 16.5 lbs . . . . . \$429

#### V-2020 HQ Videocassette Recorder

VHS-format table-top videocassette recorder with frequency-synthesized direct-access tuning. Features SP, LP, SLP play and record speeds; 14-day, 8-event timer; remote control; remote pause; still frame; one-touch recording; auto rewind; channel lock; auto fine tuning. Cable ready. Horizontal resolution 220 lines; video S/N 47 dB; power requirements 120 V AC, 60 Hz, 32 W. 16.5" W  $\times$  4.5" H  $\times$  13.5" D; 15.5 lbs . . . \$399

### ZENITH

#### VHS VCRs

#### VR4100 Hi Fi Videocassette Recorder

VHS-format Hi Fi stereo VCR with built-in MTS/SAP decoder. Features Hi Fi, and linear stereo with Dolby NR; wireless 18-function TV/VCR remote control; remote programming with on-screen display; 14-day, 8-event timer with simplified direct input programming; VHS HQ circuitry with video noise reduction; 4 video, 2 audio heads; 178-channel quartz tuning



with direct-access and up/down scan; noiseless forward/reverse, variable-speed slow and fast action and frame-by-frame special effects; SP, SLP record; SP, LP, SLP playback speeds; 1-hour power back up; synchronized "Clean Edit" video insert; auto rewind; tape time remaining and program location indicator; prerecorded VCR operating guide. 17.25" W  $\times$  3.88" H  $\times$  14.88" D; 19.7 lbs . . . . . \$1,100

#### VR3300 Hi Fi Videocassette Recorder

VHS-format Hi-Fi stereo VCR with built-

in MTS/SAP decoder. "Midi" design cabinet loads cassettes "end-first" to save space. Features 29-function wireless remote control with 10-TV/19-VCR functions; remote programming with on-screen display; 14-day, 8-event timer with simplified direct input programming; VHS HQ circuitry with video noise reduction and comb filter; 4 video, 2 audio heads; 178-channel quartz tuning with direct-access and up/down scan; noiseless pause/still frame and slow motion



picture; SP, SLP record; SP, LP, SLP playback speeds; 1-hour power backup; audio dubbing capability; auto power on; auto play; play memory; auto rewind; music scan; go-to locates and plays pre-selected tape segments; instant record button; auto Hi-Fi/linear switching during playback; tape time remaining indicator; prerecorded VCR operating guide. Black; 13.44" W  $\times$  4.19" H  $\times$  14.81" D; 17 lbs . . . . . \$999  
**VR2300.** Same as 3300 except has 4-event timer. Brown . . . . . \$899

#### VR3220 Hi Fi Videocassette Recorder

VHS-format Hi Fi stereo VCR with built-in MTS/SAP decoder. Features 24-function wireless TV/VCR remote control; remote programming with on-screen display; 14-day, 8-event timer with simplified direct input programming; VHS HQ circuitry with comb filter; 4 video, 2 audio heads; 178-channel quartz tuning with direct-access and up/down scan; noiseless pause/still frame and slow motion picture; SP, SLP record; SP, LP, SLP playback speeds; 1-hour power backup; audio dubbing capability; volume control; auto power on; auto rewind; tape time remaining indicator; one-button instant record; prerecorded VCR operating guide. 17.19" W  $\times$  3.75" H  $\times$  14.88" D; 17.9 lbs . . . . . \$849

#### VR2220 Hi-Fi Videocassette Recorder

VHS-format Hi Fi stereo VCR with built-in MTS/SAP decoder. Features 17-function wireless TV/VCR remote control; remote programming with on-screen display; 14-day, 4-event timer with simplified direct input programming; VHS HQ circuitry with comb filter; 2 video, 2 audio heads; 108-channel quartz tuning with direct-access and up/down scan; pause/still frame; SP, SLP record; SP, LP, SLP playback speeds; 1-hour power back up; audio dubbing capability; volume control; auto power on; auto rewind; tape time remaining indicator; one-button instant record; prerecorded VCR operating guide. 17.19" W  $\times$  3.75" H  $\times$  14.88" D; 17.9 lbs . . . . . \$699

# 2 PORTABLE VCRs

## GE

### 1CVP5028X Portable VCR

Dockable VHS-format portable VCR with stereo capability and Dolby noise reduction. Features 4-video head system; 139-channel cable connection capability; 8 event/14 day timer; rechargeable battery; 26-function wireless remote control \$830

### 1CVP5024X Cable-Ready Portable VCR

VHS-format videocassette recorder with wireless remote control. Features special effects; slow motion; 4-event/14-day timer; electronic tape counter with memory and function display; 107-channel cable tuning capability; audio/video dubbing; tape and battery balance indicators ..... \$750

#### Portable VCR Accessories

1CVA550. CATV adapter ..... \$130  
1CVA410. Plug-in AC adapter ..... \$110

## HITACHI

### VT-98A Portable Hi-Fi VCR

Front-loading portable VHS-format videocassette recorder with 5 + 2 heads. Features 8-program/1-year timer; noise-free fine editing; stereo broadcast (MTS) reception; on-screen programming; dual-function VCR/TV wireless remote control; video dubbing; automatic audio level control; automatic rewind and shut-off at tape's end. Video signal-to-noise ratio 45 dB in SP mode; horizontal resolution 240 lines; audio frequency range 20-20,000 Hz. 17.12" W × 4.5" H × 10.12" D; 7 lbs ..... \$1450

## OLYMPUS

### VC-106 Portable Hi-Fi VCR

VHS-format portable videocassette recorder with Hi-Fi sound. Features SP, LP, SLP play speeds; SP, LP, SLP record speeds; SP, LP, SLP slow-motion speeds; SP, LP, SLP rapid-search speeds; 14-day/8-event timer (optional); Hi-Fi sound; stereo; frame advance; remote control (optional); noiseless special effects; remote pause; Dolby noise reduction; video dubbing; still frame; automatic rewind; audio dubbing; four-way power; tuner. Horizontal resolution greater than 230 lines; video signal-to-noise ratio greater than 41 dB; audio frequency response 20-20,000 Hz in Hi-Fi mode; 100-8,000 Hz in normal mode; audio distortion 0.02% in Hi-Fi mode; audio signal-to-noise ratio greater than 80 dB in Hi-Fi mode, greater than 42 dB in normal mode; power requirements 12 volts DC; power supply AC adaptor or car bat-

tery. Battery pack included. Charge lasts for 2 hours (without camera), 1 hour (with camera). 8.44" H × 3.06" W × 10.36" D; 5.9 lbs ..... \$975

### VC-105 Portable VCR

VHS-format portable videocassette recorder with four-video-head stereo system. Features SP, LP, SLP play speeds; SP, LP, SLP record speeds; SP, SLP slow-motion speeds; SP, LP, SLP rapid-search speeds; 14-day/8-event timer (optional); stereo; frame advance; noiseless special effects; Dolby noise reduction; video dubbing; still frame; automatic rewind; audio dubbing; four-way power; tuner. Horizontal resolution greater than 230 lines; video signal-to-noise ratio greater than 41 db; audio frequency response 100-8,000 Hz in normal mode; audio signal-to-noise ratio greater than 42 db in normal mode; power requirements 12 volts DC; power supply AC adaptor or car battery. Battery pack included. Charge lasts for 2 hours (without camera), 1 hour (with camera). 8.44" H × 2.75" W × 10.36" D; 5.9 lbs ..... \$800

#### Accessories

All following accessories are for use with Olympus V-105 and V-106 portable videocassette recorders.

### VR-208 Video Tuner

Video tuner for use with Olympus docking portable videocassette recorders. Receives 12 VHF, 69 UHF, all CATV channels. Features frequency-synthesis tuning; 2-week/8-event programmable timer; infrared remote control; one-touch recording; one-hour memory backup; two audio inputs; three video inputs; two video outputs; battery charger. 7.5 lbs \$415.00

VF-BA4. Compact, lightweight AC adaptor ..... \$133.50  
VF-BP3. Battery pack ..... \$49.95  
VF-CB2. Carrying bag ..... \$44.95  
VF-BC3. Car battery cord ..... \$18.50

## PANASONIC

### PV-9600A Hi-Fi Video Recorder

Portable VHS-format videocassette recorder with Hi-Fi sound. Features 139-channel cable-ready tuner; 14-day/8-event timer; four video heads; two audio heads; SP, LP, SLP play speeds; SP, LP, SLP record speeds; SP and SLP variable slow-motion speeds; SP, SLP rapid-search speeds. Includes top-loading design; noiseless special effects; wireless remote control; remote pause; still frame; frame advance; automatic fine tuning; automatic search ..... \$1,450

## PORTAVIDEO INTERNATIONAL

### VP-7100 Portable Videocassette Player

VHS-format play-only portable videocassette player with integrated 12" color monitor. Video player slides out for top loading and monitor has nonglare screen and 250-line resolution. Features SP play speed; frame advance; still frame; auto rewind; concealed front-panel controls; pull-up flush-mount handle; fast forward; RF in and out; audio/video input/output. Permanent 110 V AC power cord and optional auto replay available .... \$1,295

### VP-7700 Portable Videocassette Player

VHS-format play-only portable videocassette player with integrated 5" color TV. Features SP play speed; frame advance; still frame; auto rewind; soft eject; soft-touch microprocessor controls; built-in RF modulator; audio/video outputs. 22" W × 6" H × 16" D ..... \$995

### VP-3100 Portable Videocassette Player

VHS-format portable videocassette recorder. Features noiseless special effects; video dubbing; still frame; auto rewind; channel lock; audio dub; tape counter and reset button; soft eject mechanism; dew and power indicator lamps; soft-touch controls; video and audio outputs. Includes tamper-proof carrying case. Horizontal resolution 240 lines; video signal-to-noise 43 dB; audio frequency response 100-10,000 Hz; audio signal-to-noise 40 dB in normal mode; power requirements 120 V/AC 60 Hz. 10.62" W × 4.33" H × 12.4" D; 12.1 lbs ..... \$299

## QUASAR

### VP5750 Stereo Videocassette Recorder

VHS format portable videocassette recorder. Features SP, LP, SLP play speeds; SP, LP, SLP record speeds; rapid search; slow motion; 14-day/8-event timer; stereo; frame advance; remote control; noiseless special effects; remote pause; Dolby noise reduction; cable ready; video dubbing; still frame; auto rewind; channel lock; auto fine tuning; audio dubbing; OTR picture control; tape remain counter; battery indicator; 4 heads; camera remote switch. Horizontal resolution 230 lines; video signal-to-noise greater than 41 dB; audio frequency response 100-8,000 Hz -10 dB in normal mode; audio signal-to-noise greater than 42 dB in normal mode; power requirements 120 V AC (with tuner); 12 V DC (deck only); battery charge lasts for 3 hours with tuner. 8.44" W × 2.75" H × 10.36" D; 7 lbs ..... \$830



# 3 VIDEO CAMERAS

## GE

### 1CVC6036E Auto-Focus Video Camera

Features 0.66" Newvicon tube; stereo boom microphone; instant-replay through electronic viewfinder; auto focus; 7 lux low-light sensitivity; built-in keyboard character generator; 8:1 power zoom; VCR remote controls . . . \$1,500  
**1CVA231.** Camera carry case . . . \$90

### 1CVC6033E Auto-Focus Video Camera

Features automatic focus; 0.33" Newvicon tube; 6:1 power zoom; f1.2 lens; instant-replay through electronic viewfinder; 20 lux low-light sensitivity; auto iris/white balance; automatic dating . . . \$900  
**1CVA228.** Camera carry case . . . \$55  
**1TPD340.** Tripod . . . \$150  
**1CVA505.** Camera power supply . . . \$60

## KONICA

### CV601 Compact Color Video Camera

Auto-focus compact video camera. Features auto focus; auto iris; compatible with VHS; 0.5" Cosvicon pickup tube; four-position color balance; optical viewfinder; in-finder LED indicators. Minimum



light 35 lux; horizontal resolution 270 lines; audio frequency response 100-10,000 Hz  $\pm$  3 dB; video S/N 45 dB; power consumption 4.1 W. 2.9" L  $\times$  9.3" H  $\times$  4.7" D; 1 lb, 12 oz. . . . \$749

#### Accessories

**TF-101.** Electronic viewfinder . . . \$154  
**CL-140.** Teleconverter lens connects to lens of Konica CV601 camera to obtain telephoto and zoom effects (1.4 $\times$ ). Useful for zooming to distant subject. 43-mm diameter . . . \$92  
**AC-60.** Camera AC adapter . . . \$78

## OLYMPUS

### VX-308 Color Video Camera

VHS-compatible color video camera with 6 MHz high-definition 400-line resolution Newcosvicon tube. Features stereo microphone; automatic focus; automatic iris; automatic white balance; power zoom lens (11-88 mm); automatic fade; character generator with built-in keyboard; date and time display; remote control of VCR; interval timer recording; macro; super impositions; focus lock; manual focusing; one-touch auto focusing for special effects; diopter lens adjustment. One-inch black-and-white CRT viewfinder features on-screen indicators; fade; filter; automatic white balance; light level; gain; recording time; battery level; counter and time indicators. Minimum light 7 lux; horizontal resolution 400 lines; audio frequency response 100-15,000 Hz; video signal-to-noise ratio 45 dB (minimum); filter size 58 mm (diameter). 8.4" W  $\times$  7.5" H  $\times$  12" L; 5 lbs, 8 oz. . . . \$1,350

### VX-307 Color Video Camera

VHS-compatible compact color video camera with 0.33" Newcosvicon pickup tube. Features mono microphone; automatic focus; automatic iris; automatic white balance; power zoom lens (7-42 mm); automatic fade; date and time display; backlight compensation; negative-to-positive switch. Black-and-white CRT electronic viewfinder features on-screen date and time display; dioptic correction; low-light indicator. Minimum light 20 lux; horizontal resolution greater than 260 lines; audio frequency response 100-15,000 Hz; video signal-to-noise ratio 45 dB (minimum); filter diameter 49 mm. 3.5" W  $\times$  3.6" H  $\times$  10" L; 2 lbs, 1 oz. . . \$895

#### Accessories

**VF-BA4.** AC adapter for VC-105, VC-106, VX-403 . . . \$140.00  
**VF-CS8.** Carrying case for VX-308 \$51.95  
**VF-CS3.** Carrying case for VX-307 \$40.95

## PANASONIC

### PK-959 Color Video Camera

Shoulder model video camera. Features f/1.4 lens; 2-speed zoom; in/outdoor filter; timer fade in/out; focus in/out; 8 $\times$  power zoom; stereo mike; electronic viewfinder; auto focus; auto iris; auto white balance; auto fade; character generator; time display; remote control of VCR; compatible with VHS; standby-gain up switch. Min light 7 lux; horizontal resolution 300 lines; video S/N 45 dB \$1,110  
**PK-980.** Similar to PK-959 except with

10 $\times$  power zoom; f/1.6 lens; 10 lux; horizontal resolution 380 lines . . . \$1,350

### PK-452 Color Video Camera

Portable video camera. Features backlight switch; macro function; in/outdoor filter; 6 $\times$  power zoom; electronic viewfinder; auto focus; auto iris; auto white balance; character generator; time display; compatible with VHS; standby-gain up switch. Min light 20 lux; horizontal resolution 260 lines; video S/N 45 dB. 2.5 lbs . . . \$800

#### Video Camera Accessories

### 20H-20F Camera Extension Cable

20-ft extension cable . . . \$60

### PK-H42 Carrying Case

For PK-400 series cameras . . . \$55

### PK-H65 Carrying Case

For PK-500 and PK-900 cameras . . \$65

### PK-A739S Power Supply

Power supply with stereo audio input/output . . . \$65

## QUASAR

### VK746 Color Video Camera

Features stereo microphone; color; auto focus; auto iris; auto white balance; power zoom lens (11-88 mm); auto fade; character generator; time display; remote control of VCR; compatible with VHS videocassette recorders. 1-inch black/white electronic right/left side conversion type viewfinder with status check monitor. Negative/positive color reverse function; tilter features scroll; 7 title colors; white/black fade; title reverse; external title insert. Minimum light 7 lux; horizontal resolution 300 lines; audio frequency response 100-10,000 Hz; video signal-to-noise ratio greater than 45 dB; F/1.4; 2/3" newvicon tube. 8.36" W  $\times$  7.56" H  $\times$  16.12" D; 5 lbs, 8 oz. . \$1,000

### VK716 Auto-Focus Video Camera

Features mono microphone; color; auto focus; auto iris; auto white balance; power zoom lens (7-42 mm); time display; date display; negative-positive reverse switch; backlight switch; compatible with VHS videocassette recorders. 0.5-inch black/white CRT viewfinder with dioptic adjustment and date display. Minimum light 20 lux; horizontal resolution 260 lines; video signal-to-noise ratio greater than 45 dB; 3.5" W  $\times$  3.62" H  $\times$  10.19" D; 2 lbs, 1 oz . . . \$670

(Continued on page 91)

# CAMCORDER 4

## AIWA

### CV-80 8-mm Camcorder

8-mm video camera/player/recorder with CCD image sensor. Recorder section: SP record speed; SP, LP playback; Features Hi-Fi sound; insert function; LCD tape counter; picture search; still frame; Camera section: mono microphone; auto focus; auto iris; auto white balance; pow-



er zoom lens (12-72 mm); in camera playback; electronic viewfinder with white balance indicators. Minimum light 19 lux; horizontal resolution 330 lines; audio frequency response 28-19 Hz  $\pm$ 3dB; video signal-to-noise ratio 44.8 dB. Battery included; length of battery charge 1 hour. 4.63" W  $\times$  7.19" H  $\times$  15.81" L; 5.8 lbs with battery and cassette ..... \$1,795

## GE

### 9-9610 VHS CCD Camcorder

Combination video camera/recorder with solid-state charged coupled device (CCD) imager for better color and image response. Features 8:1 power zoom (8.5-68 mm focal length); auto focus with manual override; auto iris; f1.2 lens; macro focusing down to 1"; 7 lux illumination required; VHS HQ circuitry; auto date and time; auto white balance with override; auto indoor/outdoor switching; quick review; built-in condenser microphone; fade in/out; backlighting; tally lamp; audio dubbing; tape counter with memory; scan forward/reverse; pause/still; tilting accessory jack; built-in carry handle; SP record speed. Includes rechargeable battery; multi-voltage AC/RF adapter/charger; VHF connector cable; shoulder strap; earphone; audio/video cables and adapter plug; record/pause wired remote control. 8.7" H  $\times$  4.5" W  $\times$  14.6" D; 6.9 lbs with battery ..... \$1,800

### 9-9606 VHS Newvicon Camcorder

Combination video camera/recorder with 0.5" high-band Newvicon tube. Features 6:1 power zoom (9-54 mm focal length); auto focus with manual override; auto

iris; f1.2 lens; macro focusing down to 1"; 7 lux illumination required; VHS HQ circuitry; auto date and time; auto white balance with override; auto indoor/outdoor switching; 0.66" electronic viewfinder adjustable for left/right eye viewing; quick review; built-in condenser microphone; fade in/out; backlighting; tally lamp; audio dubbing; tape counter with memory; scan forward/reverse; pause/still; tilting accessory jack; built-in carry handle; SP record speed. Includes rechargeable battery; multi-voltage AC/RF adapter/



charger; VHF connector cable; shoulder strap; earphone; audio/video cables and adapter plug; record/pause wired remote control. 8.7" H  $\times$  4.5" W  $\times$  14.6" D; 6.9 lbs with battery ..... \$1,500

## GOLDSTAR

### GVM-70AF VHS Camcorder

One-piece VHS auto-focusing video camera/recorder/player with 0.66" CCD tube. Features 1" CRT monochrome electronic viewfinder; still frame; power zoom (12-72 mm); macro lens; mono mike; auto iris; auto white balance. Horizontal resolution (camera, VCR) 240 lines; min light 19 lux. Includes battery. Battery charge lasts 1 hr. 7 lbs . \$1,695

### GVM-70AF 8-mm Camcorder

One-piece 8-mm auto-focusing video camera/recorder/player with CCD tube. Features 1" CRT monochrome electronic viewfinder; still frame; power zoom (12-72 mm); macro lens; mono mike; auto iris; auto white balance. Horizontal resolution (camera, VCR) 300 lines; min light 19 lux. Includes battery. Battery charge lasts for 1 hr. 4.9" W  $\times$  7.48" H  $\times$  13.46" L; 4 lbs ..... \$1,695

## JVC

### GR-C7 VideoMovie—Featured on Cover

Compact-VHS format camcorder with SP, EP play/record speeds. Features mono mike; color; automatic iris; automatic white balance; 6:1 power zoom lens; macro focus. Horizontal resolution

of recorder more than 240 lines. Viewfinder features 0.6" black-and-white electronic viewfinder with indicators for recording standby; recording mode, under exposure; tape end; sensitivity; white balance; filter switch. Minimum light 15 lux; horizontal resolution of camera greater than 270 lines; video signal-to-noise ratio 40 dB; battery included; 30-minute battery charge. 4.81" W  $\times$  6.5" H  $\times$  8.81" L; 2.9 lbs with viewfinder ..... \$1,495

## KODAK

### MVS-3460 8-mm Camcorder

8-mm modular camcorder that docks to miniature 8-mm recorder. Outfit includes camera, recorder, AC adapter/charger, RF converter, battery, tape, and cases. Features Hi-Fi sound; electronic viewfinder; frame advance; still frame; auto focus; power and manual zoom (9-54 mm); macro lens. Can use as 1 piece camcorder or 2 piece system. SP, LP speeds for up to 4 hours of recording. Camera features mono mike; auto focus; auto iris; indoor/outdoor filter; battery power; dew warning. Minimum light 10 lux; horizontal resolution 280 lines. Length of charge of battery 1 hr. 5" W  $\times$  6" H  $\times$  12" L; 4.6 lbs ..... \$1,799  
**MVS-5460.** Similar to MVS-3460 camcorder listed above. Includes PCM digital stereo recorder ..... \$1,999

### 2400 8-mm Camcorder

8-mm camcorder with three heads. Features still frame; frame advance; infrared auto focus; date set; fade in/fade out; negative/positive switch; backlight switch with f/1.5 override; black-and-white electronic viewfinder with indicators for light levels, tape counter, dew, recording, indoor/outdoor light, and low battery; 0.33-inch Newvicon tube; 6 $\times$  power zoom; automatic white balance; auto iris; minimum light 20 lux; standby switch; fast forward and fast reverse; visual search; tape counter with memory; record review; tally light; 45-minute battery use/charge; microphone. Uses metal-particle and metal-evaporated videotape. Unit pack contains camcorder, battery, strap, earphone, and videocassette. Video input signal 75 ohms (1 volt p-p); audio input signal 600 ohms (-20 dB line); video output signal 75 ohms (1 volt p-p); audio output signal 600 ohms (-8 dB); power line 8 volts DC; power consumption 7.3 watts operating, 2 watts standby; video signal-to-noise ratio more than 43 dB; horizontal resolution more than 240 lines; weight 2.2 kg with battery; 412 mm W  $\times$  184 D  $\times$  187 H .. \$1,699



**2200 8-mm Camcorder**

8-mm camcorder with two heads. Features still frame; frame advance; black-and-white electronic viewfinder with indicators for light level, tape count, dew warning, recording mode, and indoor/outdoor light; 0.33" Newvicon tube; 6:1 power zoom; fully automatic white balance with override; auto iris with variable aperture; standby switch; fast forward and reverse; visual search; counter with memory; record review; indoor/out door lighting selection; tally light; 45-minute battery use/charge; microphone; earphone; macro focus (for as close as 11 mm). Unit pack contains camcorder, battery, strap, earphone, videocassette, lens cap, lens hood. Low-light capability 20 lux; video input impedance 75 ohms (1 volt p-p); audio input impedance line more than 47,000 ohms; signal level line -20 dB (0 dB=1 volt); external microphone input level -70 dB at 600 ohms; video output impedance -75 ohms (1 volt p-p); audio signal level earphone -28 dB at 8 ohms; audio signal level -8 dB (0 dB, 1 volt); power line 8 volts DC; power consumption operating 8 watts; standby 2 watts. Weight 4.9 lbs without battery; shipping weight 7.12 lbs ..... \$1,399

**2020 Cradle Unit**

Used with 2200 or 2400 camcorder to allow video recorded tapes to be viewed on TV screen. Cradle serves as AC adaptor and battery charger. Features controls for play, record, fast forward and reverse with visual search, pause/still, frame advance, stop, eject; tape counter with memory; wired remote control; tape storage drawer. Unit pack contains cradle, remote control, cradle-to-camera cable, cradle-to-TV cable plus twin-lead adaptor. Video input signal 75 ohms (1 volt p-p); audio input signal 50 k ohms (-20 dB); video output signal 75 ohms (1 volt p-p). ..... \$239

**2022 Tuner/Timer**

Used with cradle and camcorder to create complete videocassette recorder. Allows recording of broadcast TV programs. Features 105-channel cable-ready capability; 12 channel presets; LED channel display; 2-event/14-day timer; one-touch recording; lighted controls; power line 18 volts; power consumption 5 watts; 6" W X 10" D X 6" H; 2.4 lbs ..... \$300

**KYOCERA****KD-2010U 8-mm Camcorder**

8-mm camera/player/recorder with high-resolution solid-state image sensor. Recorder section: SP record speed; SP, LP playback; audio/video inputs/outputs; AFM audio; RF converter for playback through conventional TVs; LCD counter of tape time. Camera section: horizontal resolution 350 lines; auto iris-continuous or on demand; auto white balance continuous or manual; infrared autofocus continuous or on demand with manual override; f/1.2 lens with 6:1 power zoom and macro position; in-camera playback; electronic viewfinder. Includes one-hour

battery. Two-hour battery pack optional. 3 lbs, 3oz ..... \$1,795

**MAGNAVOX****VR8293 Camcorder**

VHS-format video camera/recorder with 4 heads and HQ circuitry. Features CCD pick-up device; 7 lux sensitivity; auto focus; 6X power zoom lens; f1.2 lens with macro focus; audio dubbing; 3X speed picture search; still frame; timer; counter with memory; auto rewind; auto standby; power-off eject; electronic viewfinder; jack for character generator. Includes video/AC adapter; battery pack; timer back-up battery; shoulder strap; earphone; battery charging cord; A/V cord; A/V adapter; wired pause control. 15" W X 8.75" H X 4.5" D; 6.9 lbs with battery ..... \$1,899  
**VR8294.** Same as 8293 with Newvicon pick-up ..... \$1,849  
**VR8292.** Same as 8294 with standard AC adapter and no wired pause control ..... \$1,799

**MINOLTA****CR1200S-AF VHS Camcorder**

Full-size VHS camcorder with HQ circuitry and 0.67" solid-state pickup (MOS). Features manual/power zoom lens (11.5-69 mm); auto focus; auto iris; macro lens; mono mike; diopter correction; auto white balance; B/W 2/3" electronic viewfinder; on-screen display of battery level, tape counter/tape remaining, red LED of record status, and date/time. Minimum light 7 lux; horizontal resolution 350 lines; battery included; length of charge of battery 2 hrs; power requirements 9.5 watts nominal, DC 12V; audio frequency response 20-12,500 Hz  $\pm 3$  dB. 6.4" W X 7.5" H X 14.1" L; 5 lbs, 8.19 ozs \$2,085

**CR3000S-AF VHS-C Camcorder**

VHS-C camcorder with 0.5" Saticon tube and HQ circuitry. Features manual/power zoom lens (8.5-51 mm); auto focus; auto iris; macro lens; auto-white balance with white-balance lock; record in SP or EP; character generator; mono mike; swing up B/W electronic viewfinder; on-screen display of rec, pause, low-battery, and tape-end; manual iris setting ( $\pm$ ); C.G. display. Horizontal resolution 300 lines; audio frequency response 20-12,500 Hz  $\pm 3$ ; minimum light 15 lux; battery included; length of charge of battery 1.5 hrs. 5.12" W X 5.31" H X 12.62" D; 4 lbs, 3 ozs ..... \$1,667

**NEC****V-20V VHS Camcorder**

VHS-format camcorder with CCD optical-pickup and VHS HQ recording circuitry. Features power zoom lens (8.5-51 mm); auto focus; auto iris; macro lens; built-in diopter; auto white balance; B/W 0.67" electronic viewfinder; on-screen display of battery-level, tape counter, low-light, white-balance, and dew warning; quick review; date/time insertion; built-in condenser mike with external mike jack. Minimum light 10 lux; horizontal resolu-

tion greater than 230 lines; battery included; length of charge of battery 3 hrs; power requirements 9.5 watts nominal, DC 12V; audio frequency response 100-10,500 Hz  $\pm 3$  dB; video signal-to-noise ratio greater than 43 dB; 5.81" W X 7.56" H X 14.22" L; 6 lbs, 2 ozs ..... \$1,695

**EM-A8U 8-mm Camcorder**

8-mm camcorder with CCD optical-pick-up tube. Features Hi-Fi sound; electronic viewfinder; 9-54 mm power zoom lens; mono mike; auto focus; auto iris; macro lens; 0.7" B/W electronic viewfinder; auto-white balance. Horizontal resolution greater than 240 lines; power requirements 6 VDC, 7.0 watts; audio frequency response 50-10,000 Hz  $\pm 3$  dB; video signal-to-noise ratio greater than 45 dB. Minimum light 7 lux. Battery included. Length of charge of battery 1 hr. 6.7" W X 7.3" H X 13" L ..... \$1,699

**OLYMPUS****VX-801 8-mm Camcorder**

8-mm camcorder with electronic viewfinder and Hi-Fi sound. Power zoom lens (9-54 mm, f1.2) with auto focus, auto iris, and macro lens. Features auto white balance; fade; flying erase head (insert edit); and LCD tape counter with memory. Viewfinder: 2/3" electronic B/W viewfinder with dioptic correction, record/battery indicator, standby indicator, and exposure indicator bar. Recorder section: frame advance, still frame, record review. Minimum light 7 lux; battery included; length of charge of battery 1 hr. 4.88" W X 5.36" H X 10.12" L; 2 lbs, 9 ozs ..... \$1,850  
**VF-BA81.** AC adapter/battery charger for VX-801. Includes RF converter, A/V input/output ..... \$299  
**VF-CS81.** Carrying case with storage for Movie 8 and accessories ..... \$99  
**VF-KC81.** Extension cable for VX-801 \$76

**VX-403 Camcorder**

VHS-format camcorder with HQ video circuitry and audio dub review. Camera section: 8X power zoom lens (8.5-68 mm, f1.2) with auto focus, auto iris and macro lens; auto white balance; time display; optional character generator; tape and dew warning indicators; recording indicator; white balance indicator; still-frame; mono mike. Electronic viewfinder is 0.66" B/W with left or right eye viewing, vertical swivel, and dioptic correction. Provided accessories include video AC adapter, battery pack, remote control shoulder strap, AV output connector, earphone, AV cable, VHF connecting cable, antenna adapter, and mercury batteries. Horizontal resolution more than 300 lines; minimum light 7 lux; battery included; length of charge of battery 2 hrs; 14.94" W X 8.81" H X 4.5" L; 5 lbs 6 ozs ..... \$1,950  
**VF-KG1.** Character generator for VX-403 camcorder. Features stopwatch, time/date, variable size text, text shift, title superimposition with video in/out terminal, eight-page title memory ..... \$265  
**VF-BA5.** AC adapter/battery charger for use with VX-403 camcorder ..... \$249

**VF-CS9.** VHS movie case for storage of VX-403 and accessories . . . . . \$107

### VX-402 Camcorder

VHS-format camcorder with sequential 4-head recording system, 3.9 MHz 0.5" high-band Newvicon tube, and automatic focus. Recorder section: SP play speed; SP record speed; 3X rapid-search speed; remote control; remote pause; still frame; video enhancement circuitry. Horizontal resolution 250 lines; video signal-to-noise ratio greater than 43 dB; audio frequency response 80-10,000 Hz. Camera section: mono microphone; color; automatic focus; automatic and full-manual iris control; automatic white balance; adjustable eyepiece (90°); power zoom lens (9-54 mm); time display; remote control of VCR; 49-mm lens filter. 0.5" black-and-white CRT viewfinder features on-screen display of white balance, date, light, dew, remaining battery power, and tape-count; dioptic lens correction; macro. Minimum light 10 lux; horizontal resolution 250 lines; audio frequency response 80—10,000 Hz; video signal-to-noise ratio greater than 43 dB; power requirements 12 volts DC. Battery, AC charger/adaptor, shoulder strap included. Length of battery charge 2 hours. 6.12" W × 7.56" H × 12.81" L; 5 lbs, 11 oz (without battery) . . . . \$1,850

**VF-BA5.** RF converter, battery charger, A/V output . . . . . \$226.00

**VF-CS6.** VHS movie case for storage of camcorder and accessories . . . \$107.50

**VF-BP6.** 2-hour battery pack . . . \$55.00

**VF-KV2.** Audio/video input adapter . . . . . \$50.00

**VF-KA3.** Shoulder pad . . . . . \$38.50

**VF-BC5.** Car-battery cord . . . . . \$22.00

## PANASONIC

### PV300 VHS Camcorder

Combination video camera/recorder/player with CCD tube. Features electronic viewfinder; still frame; auto focus; 8.5-68 mm macro power zoom lens; f1.2; HQ circuitry; record review; audio dub; fade in/out; date/time generator; auto iris; auto white balance. 0.66" electronic



viewfinder indicates counter, low light, tape tab, battery status and warning, dew, time, date, record LED. Minimum light 7 lux. Includes battery and carry case. Length of battery charge 2 hours. 15" W × 8.5" H × 4.5" L; 6.9 lbs with battery . . . . . \$2,000

### PV220 VHS Camcorder

Combination video camera and recorder/player with 0.5-inch Newvicon tube. 80 VIDEO BUYERS' GUIDE 1987

Features electronic viewfinder; still frame; auto focus; 9—54 mm macro power zoom lens; f1.2; HQ circuitry; record review; audio dub; fade in/out; date/time generator; auto iris; auto white balance. 0.66" electronic viewfinder indicates counter, low light, tape tab, battery status and warning, dew, time, date, record LED. Minimum light 7 lux. Includes battery and AC adapter/charger. Length of battery charge 2 hours. 14.5" W × 8.5" H × 4.5" L; 6.9 lbs with battery . . . . . \$1,700

### PV210 VHS Camcorder

Combination video camera/recorder/



player with 0.5" Newvicon tube. Features electronic viewfinder; still frame; automatic focus; 9 mm-54 mm macro power zoom lens; f1.2; HQ circuitry; record review; audio dubbing; fade in/out; date/time generator; automatic iris; automatic white balance. 0.66" electronic viewfinder indicates counter, low light, tape tab, battery status and warning, dew, time, date, record LED. Minimum light 7 lux. Includes battery and plug-in AC adapter. Length of battery charge two hours. 14.5" W × 8.5" H × 4.5" L; 6.9 lbs with battery . . . . . \$1,500

### Camcorder Accessories

All listed accessories are for use with Panasonic's PV300, PV220, and PV210 camcorders.

**PVG22M.** Character generator . . \$220.00

**PVA22M.** AC power supply/RF switcher/charger . . . . . \$190.00

**PVH22M.** Carrying case . . . . . \$150.00

**PVH18M.** Carrying case . . . . . \$125.00

## PHILCO

### VCR801AV01 Camcorder

VHS-format video camera/recorder with 4 heads and HQ circuitry. Features 0.5" Newvicon tube; 7 lux sensitivity; auto focus; 6X power zoom lens; f1.2 lens with macro focus; audio dubbing; 3X speed



picture search; still frame; timer; counter with memory; auto rewind; auto standby; power-off eject; electronic viewfinder; jack for character generator. Includes plug-in/AC adapter; battery pack; timer

back-up battery; shoulder strap; earphone; battery charging cord; A/V cord; A/V adapter. 15" W × 8.75" H × 4.5" D; 6.9 lbs with battery . . . . . \$1,799

## QUASAR

### VM-20 VHS Camcorder

Full-size VHS camera/player/recorder with CCD pick-up element. Features VHS HQ picture system; infrared auto focus; 8X power zoom lens; macro focus; electronic viewfinder; quick review; date recording function; auto white balance; fade-in/fade-out; high-speed picture search; still frame; standby function; built-in unidirectional microphone; auto iris control. Includes AC adapter; pause remote control; shoulder strap; 2-hour rechargeable battery pack. 14.94" × 8.69" × 4.56" . . . . . \$1,800

### VM-11 VHS Camcorder

Full-size VHS camera/player/recorder with VHS HQ picture system. Features infrared auto focus; 6X power zoom lens; macro focus; electronic viewfinder; quick review; date recording function; auto white balance; fade-in/fade-out;



high-speed picture search; still frame; standby function; built-in unidirectional microphone; auto iris control. Includes AC adapter; pause remote control; shoulder strap; 2-hour rechargeable battery pack. . . . . \$1,650

## RCA

### CMR300 ProWonder Camcorder

VHS-format video camera/player/recorder. Features solid-state MOS image sensor; constant auto white balance; manual white balance control; electronic viewfinder; viewfinder on-screen graphics display; tape time remaining display; time and date recording on tape; f1.2, 6:1 power zoom lens; auto/manual focus switch; infrared auto focus; macro focus; minimum light 7 lux. Power requirement/consumption, 12V DC/9.5 watts. 7.75" H × 7.36" W × 14.36" D; 5.5 lbs. Includes AC adapter/charger; battery pack; video/audio playback adapter cable; earphone; carrying handle; shoulder strap; TV RF output adapter . . . . . \$1,499

### CMR200 ProWonder Camcorder

VHS-format video camera/player/recorder. Features 0.5" Saticon pick-up tube; constant auto white balance; manual white balance control; electronic viewfinder; LCD tape counter with memory; LED battery level indicator; f1.2, 6:1 power zoom lens; auto/manual focus switch;



infrared auto focus; macro focus; minimum light 7 lux. Power requirement/consumption, 12VDC/9.5 watts. 7.44" H × 6.44" W × 13.94" D; 5.5 lbs. Includes AC adapter/charger; battery pack; video and audio playback adapter cable; earphone; carrying handle; shoulder strap; TV RF output adapter. .... \$1,299

#### Video Camcorder Accessories

#### CGA020 Character Generator

Character generator creates titles on screen and special effects; fits RCA camcorders. Features 60 characters per scene capacity; four type sizes; memory stores characters for up to one year; word register; twenty pages of characters; scrolling; curtain and window effects; stopwatch, calendar and time lapse display. 6" W × 3.12" H × 1" D ..... \$249.95

#### KK042 Camcorder Case

Molded plastic case provides rugged protection for RCA camcorders and accessories. Contains cut-foam insert to cushion and secure equipment. 18.5" W × 15.5" H × 7" D; 7 lbs ..... \$149.95

#### CB120 Camcorder Battery

120-minute on-board rechargeable nickel-cadmium battery. Provides approximately 2 hours of run time for RCA camcorders. Can be recharged in two hours with camcorder AC adapter/charger ..... \$74.95

#### CB060

60-minute on-board rechargeable nickel-cadmium battery. Provides approximately one hour of run time for RCA camcorders. Can be recharged in one hour with camcorder AC adapter/charger ..... \$59.95

#### WM002 Wireless Microphone System

Compact wireless microphone system with an omni-directional microphone, transmitter, receiver, 13-inch antenna, and audio plug. Microphone clips onto clothing and transmitter fits into pocket or clips onto belt. Uses three AA batteries. For use with all RCA video cameras except CKCO20 ..... \$134.95

#### VAA002 Camcorder Video/Audio Adapter

Allows camcorder to record video and audio from an external source such as a VCR, TV monitor, etc. Plugs directly into viewfinder connector ..... \$15.95

#### Video Camcorder Lens Accessories

#### WAL01A Wide Angle Lens

Expands a video camera's field of view by a factor of 0.6. Features black snap-closure simulated leather case with padded interior; 58 mm thread diameter with 49 mm and 52 mm step rings ..... \$119.95

#### LFK115A Special Effects Lens Filter Kit

Creates special effects with mirage, polarizer, and highlighter filters. Features 5-face mirage, 3-face mirage, center focus highlight and polarizer, plus 3 step rings.

Includes a sectionalized vinyl carrying case ..... \$102.95

#### FSA036A Film/Slide Adapter

Permits transfer of slides and print negatives to video tape. Features three step rings; three sizes of frame holders; one filter. Accommodates 35 mm slides; 35 mm negatives; 110 negatives ..... \$104.95

#### LX152A Lens Extender

Increases lens magnification by 1.5 times throughout its zoom range. Features 58 mm thread diameter with 49 mm and 52 mm step rings. Includes a snap-closure black vinyl case with padded interior ..... \$109.95

### SANYO

#### VM8 8-MM Video Camera/Recorder

8-MM camcorder with quick record/review in camera playback. Features CCD pickup; auto focus; power zoom lens (12-72 mm) with macro focusing; electronic viewfinder with adjustable viewing angle and flip-up magnifier; built-in electret microphone; external mic input; AFM audio; flying erase head; audio/video inputs; audio/video outputs; data display monitors tape length, remaining power, light level, white balance, recording function; rechargeable NiCad battery; battery charger AC power pack included; minimum light 19 lux; 5" W × 7.25" H × 13.75" L; 5 lbs, 1 oz without battery and cassette ..... \$1,470

### SHARP

#### VC-C10UAH VHS Camcorder

Combination video camera/recorder/player with HQ circuitry. Features auto focus; f1.4, 6× power zoom lens; macro focus; Newvicon pickup tube; 3× video search; rotatable electronic viewfinder/monitor; auto iris control; on-screen indicators for battery strength, recording start, white balance, under exposure, recording protect tab removed, dew warning, and tape counter; recording start tally lamp; stand by; instant review; microphone; built-in date character generator; still frame; electronic 4-digit counter; 3-way AC/DC operation. Includes rechargeable 2-hour battery pack and AC adapter/charger ..... \$1,900

#### Camcorder Accessories

VR-10AS. Shoulder pad and strap for VC-C10UAH ..... \$59.95

VR-11SB. Soft carrying case for VC-C10UAH ..... \$59.95

BT-20. Rechargeable battery pack for VC-C10UAH ..... \$49.95

VR-10SL. Adjustable shoulder strap for VC-C10UAH ..... \$19.95

CC-10. Car battery cord/adapter for VC-C10UAH ..... \$19.95

VR-10M. Pause remote control for VC-C10UAH ..... \$12.95

#### VC-C20UA VHS Camcorder

Combination video camera/recorder/player with VHS High Quality circuitry. Features 0.66" solid-state charge-

coupled device (CCD) sensor; linear stereo recording and playback; built-in audio dubbing and video insert editing; auto focus, white balance, iris, power off, and date; right-eye/left-eye convertible 0.5" electronic viewfinder; f1.2, 6× power zoom lens with macro focus; 3-way power source; electronic 4-digit tape counter with memory; recording-start tally lamp; condenser microphone; carrying handle. Includes rechargeable battery pack, AC adapter/battery charger, and RF converter. 5.06" W × 7.62" H × 14.62" D; 5.3 lbs without battery ..... \$1,900

### SYLVANIA

#### VCC151 Camcorder

VHS-format video camera/recorder with 4 heads and HQ circuitry. Features 0.5" Newvicon tube; 7 lux sensitivity; auto focus; 6× power zoom lens; f1.2 lens with macro focus; audio dubbing; 3× speed picture search; still frame; timer; counter



with memory; auto rewind; auto eject; electronic viewfinder; jack for character generator. Includes AC adapter; battery pack; timer back-up battery; shoulder strap; earphone; battery charging cord; A/V cord; A/V adapter ..... \$1,799

### ZENITH

#### VM6200 Auto-Focus Camcorder

VHS-C format camcorder with HQ circuitry. Features f1.6, 6:1 auto-focus power zoom lens with macro-focus capability; electronic viewfinder for instant on-the-spot playback; CCD pickup device; 4-head system; forward/reverse speed search; SP, SLP record/play speed; automatic white balance/iris; three-way power supply flexibility,



using battery pack, AC power adapter, car battery. Includes battery pack; grip pad; A/V output cable; TC-20 compact cassette; electronic viewfinder; AC adapter/charger; RF converter unit; cassette adapter; lens hood; lens cap; shoe adapter. 4.81" W × 6.56" H × 8.81" D; 2.9 lbs excluding battery pack and cassette ..... \$1,200

# 5 STEREO TV

## GE

### 8-2790 Stereo Receiver/Monitor

27" color console television with built-in stereo/SAP capabilities. Features square-cornered Neo-Vision picture system; unified remote control; on-screen display of time and channel; sleep timer; programmable scan memory; 2 video input jacks; 1 video program out jack; 2 pair audio input jacks; 1 pair audio through-out jacks; 1 pair variable audio output jacks; auto color adjustment; Channel Block Out selective viewing control; high-definition comb filter; second antenna input; last channel viewed; 2-way speakers with 5" X 7" woofers and 2" tweeters. Receives 12 VHF, 56 UHF, and 99 CATV channels. 41.94" W X 23.06" D X 35.62" H ..... \$1,200

### 8-2680 Stereo Receiver/Monitor

26" color console television with built-in stereo/SAP capabilities. Features square-cornered Neo-Vision picture system; Master-Touch on-screen remote control; on-screen display of time and channel; sleep timer; 1 video input jack; 1 video program out jack; 1 pair audio input jacks; 1 pair variable audio output jacks; auto color adjustment; Channel Block Out selective viewing control; high-definition comb filter; last channel viewed; up-front audio and video controls; 2-way speakers with 4" X 6" woofers and 2" tweeters. Receives 12 VHF, 56 UHF, and 99 CATV channels. 40.75" W X 22" D X 30.75" H ..... \$950

### 8-2789 Stereo Receiver/Monitor

27" color table-top television with built-in stereo/SAP capabilities. Features square-cornered Neo-Vision picture system; unified remote control; on-screen display of time and channel; programmable scan memory; sleep timer; 2 video input jacks; 1 video program out jack; 2 pair audio input jacks; 1 pair audio through-out jacks; 1 pair variable audio output jacks; auto color adjustment; Channel Block Out selective viewing control; high-definition comb filter; last channel viewed; second antenna input; 2-way speakers with 5" woofers and 2" tweeters. Receives 12 VHF, 56 UHF, and 99 CATV channels. 26.31" W X 22.25" D X 23.25" H ..... \$900

### 8-2670 Stereo Receiver/Monitor

26" color console television with built-in stereo/SAP capabilities. Features square-cornered Neo-Vision picture system; Master-Touch on-screen remote control; on-screen display of time and channel; sleep timer; 1 video input jack; 1

video through-out jack; 1 pair audio input jacks; 1 pair variable audio output jacks; auto color adjustment; Channel Block Out selective viewing control; high-definition comb filter; last channel viewed; up-front audio and video controls; coaxial cable antenna connector; 4" X 6" oval speakers. Receives 12 VHF, 56 UHF, and 99 CATV channels. 41.62" W X 21" D X 30.75" H ..... \$900

### 8-2671 Stereo Receiver/Monitor

26" color console television with built-in stereo/SAP capabilities. Features square-cornered Neo-Vision picture system; Master-Touch on-screen remote control; on-screen display of time and channel; sleep timer; 1 video input jack; 1 video through out jack; 1 pair audio input jacks; 1 pair variable audio output jacks; auto color adjustment; Channel Block Out selective viewing control; high-definition comb filter; last channel viewed; up-front audio and video controls; coaxial cable antenna connector; 4" X 6" oval speakers. Receives 12 VHF, 56 UHF, and 99 CATV channels. 43.12" W X 22.06" D X 33.94" H ..... \$900

### 8-2564 Stereo Receiver/Monitor

25" console television with built-in stereo/SAP capabilities. Features Neo-Vision picture system; dual-mode remote control with dual-mode memory to recall selected volume level and last channel viewed; 1 video input jack; 1 video through-out jack; 1 pair audio input jacks; 1 pair audio through-out jacks; auto color adjustment; quartz electronic tuning; last channel viewed; black matrix picture tube; digital channel numbers; up-front audio and video controls; coaxial cable antenna connector; 4" X 6" oval speakers. Receives 12 VHF, 56 UHF, and 99 CATV channels ..... \$780

### 8-2562 Stereo Receiver/Monitor

25" console television with built-in stereo/SAP capabilities. Features Neo-Vision picture system; dual-mode remote control with dual-mode memory to recall selected volume level and last channel viewed; 1 video input jack; 1 video through-out jack; 1 pair audio input jacks; 1 pair audio through out jacks; auto color adjustment; quartz electronic tuning; black matrix picture tube; digital channel numbers; up-front audio and video controls; coaxial cable antenna connector; 4" X 6" oval speakers. Receives 12 VHF, 56 UHF, and 99 CATV channels ..... \$730

### 8-2569 Stereo Receiver/Monitor

25" color table-top television with built-in stereo/SAP capabilities. Features Neo-

Vision picture system; dual-mode remote control with dual-mode memory to recall selected volume level and last channel viewed; 1 video input jack; 1 video through-out jack; 1 pair audio input jacks; 1 pair variable audio output jacks; auto color adjustment; quartz electronic tuning; black matrix picture tube; digital channel numbers; up-front audio and video controls; coaxial cable antenna connector; 4" X 6" oval speakers. Receives 12 VHF, 56 UHF, and 99 CATV channels. 26.38" W X 21" D X 23.32" H ... \$700

### 8-2090 Stereo Receiver/Monitor

20" color television with built-in stereo/SAP capabilities. Features Neo-Vision picture system; unified remote control; sleep timer; programmable scan memory; 2 video input jacks; 1 video program out jack; 1 pair audio input jacks; 1 pair variable audio output jacks; auto color adjustment; Channel Block Out selective viewing; high-definition comb filter; second antenna input. Includes separate detached speakers with 4" woofers and 2" tweeters. Receives 12 VHF, 56 UHF, and 99 CATV channels. 20.19" W X 19.5" D X 18.75" H (TV), 5.12" H X 10" D X 18.75" H (speakers) ..... \$670

### 8-2060 Stereo Receiver/Monitor

20" color television with built-in stereo/SAP capabilities. Features Neo-Vision picture system; Master-Touch on-screen remote control; on-screen display of time and channel; sleep timer; 1 video input jack; 1 video program out jack; 1 pair audio input jacks; 1 pair variable audio output jacks; auto color adjustment; Channel Block Out selective viewing control; high-definition comb filter; quartz electronic tuner; up-front audio and video controls; coaxial cable antenna connector; 4" speakers. Receives 12 VHF, 56 UHF, and 99 CATV channels ..... \$600

## GOLDSTAR

### CMT-2525 Stereo Television

Receiver/monitor with built-in MTS/ SAP decoder and 2-way speakers. Screen size 25 inches; one audio/video input; 2 audio/video outputs. Features 19-key remote control; random-access frequency-synthesized tuning; programmable scan; comb filter; 90-minute sleep timer. Receives 13 VHF, 69 UHF, 57 CATV channels. Horizontal resolution 280 lines; power consumption 120 W; audio output 3 W/ch. 25" W X 23.3" H X 20.4" D; 88 lbs ..... \$799

### CMT-2132 Stereo Television

Receiver/monitor with built-in MTS/-



SAP decoder. Screen size 20 inches; one audio/video input; 2 audio/video outputs. Features 19-key remote control; random-access frequency-synthesized tuning; programmable scan; comb filter; 90-minute sleep timer. Receives 13 VHF, 69 UHF, 57 CATV channels. Horizontal resolution 280 lines; power consumption 120 W; audio output 3 W/ch. 19.9" W × 16.9" H × 20.1" D; 59.4 lbs ..... \$699

### HEATH

#### Heathkit GRS-2700 Stereo TV

27" stereo television kit (must be assembled). Features Zenith system-3 picture; remote control for TV and VCR functions; parental control over channels; flashback between two channels; flat black matrix picture tube. Receives 12 VHF, 56 UHF, 122 CATV channels; two 2.5" and two 3" × 5" speakers. Horizontal resolution 330 lines; stereo output 435 mV, 600 ohms; stereo input 435 mV, 10 kilohms; speaker output 2 W from 80-20,000 Hz ±3 dB into 8 ohms; amp output 2 W/ch, FR 100-20,000 Hz ±3 dB, THD 1%. 26.75" W × 18" H × 17" D; 88 lbs ..... \$500

#### Heathkit GR-1903 Stereo TV

19" stereo television kit with remote control (must be assembled). Features Zenith system 3 picture to automatically correct color 30 times a second; parental control over channels; flashback between two channels; black-matrix picture tube. Receives 12 VHF, 56 UHF, 122 CATV channels; two 2.5" and two 3" × 5" speakers. Horizontal resolution 330 lines; stereo output 435 mV, 600 ohms; stereo input 435 mV, 10 kilohms; amp output 2 W/ch, FR 100-20,000 Hz ±3 dB, THD 1%. 26.75" W × 18" H × 17" D; 88 lbs ..... \$500

### HITACHI

#### CT2647 Stereo TV

Color TV with 26-inch screen. Receives stereo TV broadcasts with built-in adapter, amplifier, two tweeters, two woofers. Features random-access electronic-tuning, 139-channel capability; infrared remote control; comb filter; on-screen channel and time indicators; two sets video/audio input jacks with switches on front panel; video/audio output jacks; contrast control; CATV/MATV antenna connection; pecan finish; 25.5" W × 24.66" H × 20.25" D; 110 lbs .. \$1,200

#### CT1958 Stereo TV

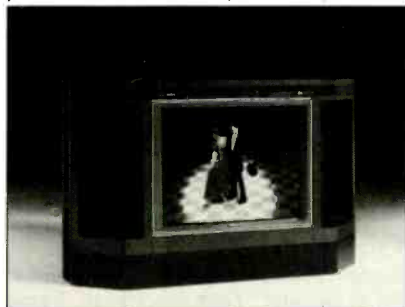
19-inch stereo television with 139-channel capability. Features random-access electronic-tuning; infrared remote control; comb filter; on-screen time/channel; video/audio input jacks; tweeter and woofer; separate bass and treble controls; audio output jacks. 28" W × 18.75" H × 19" D; 55 lbs ..... \$810

### MAGNAVOX

#### RG7500BK Stereo Monitor/Receiver

27" console receiver/monitor with built-in MTS decoder. Features comb filter;

room light sensor; auto fine tuning; TV/VCR remote control; 178-channel random-access frequency-synthesis tuning; last channel recall; on-screen time/channel display; on-screen captioning; parental control; sleep timer; personal



preference programming; programmable station scan; hide-away instrumentation drawer; 4 W/ch amplifier; 1 video input/output with stereo audio; 3 RF inputs; 400/330 line resolution (composite/tuner). Charcoal-finish contemporary cabinet. 46" W × 29" H × 21.25" D ..... \$1,599  
**RG7290.** Same as RG7500 except has compact contemporary cabinet available in ten colors. 29" W × 35" H × 19.75" D ..... \$1,599  
**RG7266PE.** Same as RG7500 except has traditional-style cabinet with pecan veneer finish. 49.5" W × 31.25" H × 21.25" D ..... \$1,599  
**RG7240AK.** Same as RG7500 except has contemporary cabinet finished in oak veneers and solids. 42.5" W × 30.75" H × 19.75" D ..... \$1,599

#### RG6160AK Stereo Monitor/Receiver

26" stereo console TV with full-square tube. Features built-in MTS/SAP decoder; 33-function wireless remote control; 4-W/ch Hi-Fi sound system; 178-channel random-access tuner; on-screen time/channel display; mute; auto fine tuning; sleep timer; mono/stereo switch; 2-way speakers; expanded mono/stereo sound; audio/video input/output jacks. Audio frequency response 100-20,000 Hz. Horizontal resolution 400 lines. Available in various finishes. 42.25" W × 28.5" H × 19.75" D; ..... \$1,099  
**RG4552CH.** Table-model version of RG6160AK (above). 25" W × 23.25" H × 20.25" D ..... \$999

#### RG5954HP Stereo TV

26-inch console with built-in MTS/SAP decoder. Features 24-button wireless remote control; 152-channel cable-ready tuner with random-access; bass/treble controls; 2-way speakers; audio input/output jacks; programmable scanning; mute; auto tuning; sleep

timer; mono/stereo/SAP switch; expanded mono/stereo. Horizontal resolution 330 lines. Pine finish cabinet. 50" W × 29" H × 21" D ..... \$959  
**RG5950AK.** Same as RG5954 with oak-finish contemporary cabinet. 41" W × 28.25" H × 19.75" D ..... \$959  
**RG5956PE.** Same as RG5954 with pecan-finish Mediterranean-style cabinet. 43" W × 29" H × 21" D ..... \$959

#### RG4550AK Stereo Monitor/Receiver

26" table-model TV with built-in stereo/SAP and full-square tube. Features 24-button wireless remote control; 152-channel cable-ready tuner with random-access; bass/treble controls; 2-way speakers; rear-panel audio/video input/output jacks; programmable scanning; mute; auto tuning; sleep timer; mono/stereo/SAP switch; expanded mono/stereo. Horizontal resolution 400 lines with video inputs. 25" W × 23.25" H × 20.25" D ..... \$899

#### RF4378SL Stereo Monitor/Receiver

20" table-model monitor/receiver with full-square picture tube. Features built-in stereo/SAP decoder for stereo telecasts and second audio program transmissions; 32-function wireless remote; 178-channel random-access tuner; receives UHF, VHF and up to 110 cable channels; on-screen time/channel display and on-screen function indicators; bass/treble



controls; 4-W/ch hi-fi sound system. Rear panel includes: stereo audio output; video out; stereo audio output (var. low level); video out (V-2 loop-thru); stereo audio L + R inputs with level controls; audio output (A-2 loop-thru); L + R external speaker jacks; in/ext speaker switch. 19.25" W × 18.75" H × 18.5" D ..... \$799  
**RF4378BK.** Similar to RF4378SL with 33-function remote control and slightly different rear panel connections. 19.25" W × 18.75" H × 18.5" D ..... \$799

#### RG4314WR Stereo Monitor/Receiver

20" stereo monitor/receiver with built-in MTS/SAP decoder. Features 6-speaker sound system (four 3-inch wide-range and 2 piezo horn tweeters); 152-channel cable-ready tuner with random-access;

## PRICES LISTED

are only the manufacturers' suggested retail prices  
 (also referred to as *list* prices):  
 actual selling prices are set by each dealer.  
 All prices are subject to change without notice.

programmable scan tuning; mute; auto fine tuning; expanded audio switch. Audio frequency response 100-20,000 Hz. Horizontal resolution 330 lines (400 lines with video inputs). Rear panel includes audio input/output and video input/output. 27" W × 18" H × 19.25" D ..... \$699

### MARANTZ

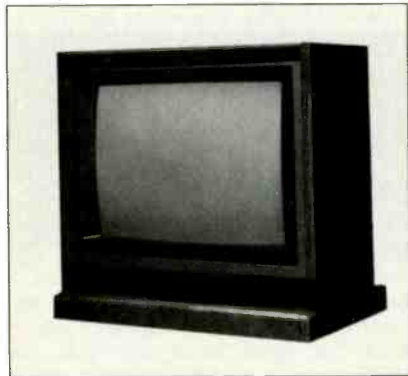
#### MR-260 Stereo Receiver/Monitor

Stereo receiver/monitor with built-in stereo speakers. Screen size 26 inches (diagonal); horizontal resolution 360 lines; receives all VHF and UHF channels and 142 CATV channels; 2 audio inputs; 3 audio outputs; 4 video inputs; 3 video outputs; 2.5-W/ch amps; 5-W/ch amps for external speakers; wireless remote control; comb filter; frequency-synthesized tuning; clock/timer. 25.88" W × 24.62" H × 19.12" D; 94.6 lbs ..... \$1,000

### MITSUBISHI

#### CK-3502R Stereo Receiver/Monitor

35-inch direct-view television with built-in MTS decoder. Features 139-channel random-access cable-ready tuner; RGB input; 400 line resolution; wireless remote control with illuminated keys; 2 video inputs with stereo audio; 2 RF inputs; 1 video/audio output; external speaker



jacks; built-in 10-W/ch amplifier; clock; comb filter; quick view; off timer; mute; on-screen information system; program timer; channel lock. Genuine oak veneer contemporary console with pedestal base. 37.94" H × 38.36" W × 23.75" D; 231 lbs ..... \$3,500  
**CK-3553R.** Similar to CK-3502 but has oak-veneer contemporary cabinet with hinged doors. 39.56" W × 41.88" H × 25.81" D; 298 lbs ..... \$3,800  
**CK-3552R.** Similar to CK-3502 but has pecan-veneer modern-style cabinet with hinged doors. 41.44" W × 41.81" H × 27.06" D; 298 lbs ..... \$3,800  
**CK-3551R.** Similar to CK-3502 but has traditional pecan-veneer cabinet with hinged doors. 40.25" W × 41.81" H × 26.19" D; 298 lbs ..... \$3,800

#### CK-2691R Stereo Receiver/Monitor

26-inch console with built-in MTS/SAP decoder. Features 139-channel random-access cable-ready tuner; 2 video inputs with stereo audio; 1 video/audio output; comb filter; programmable channel scan; last-station recall; on-screen display;

bass, treble controls; audio expansion. Genuine pine-veneer country American cabinet with hinged doors. 42.88" W × 34.06" H × 21.04" D ..... \$1,400  
**CK-2690R.** Same as 2691 except has contemporary oak veneer cabinet. 40.19" W × 31.12" H × 19.19" D ..... \$1,200  
**CK-2689R.** Same as 2691 except has cherry veneer 18th century traditional style console. 43" W × 34.56" H × 21.04" D ..... \$1,400  
**CK-2662R.** Same as 2691 except has contemporary vertical-style oak veneer cabinet. 27.31" W × 37.25" H × 21.06" D; 139 lbs ..... \$1,200

#### CS-2670R Digital Stereo Television

Digital 26-inch television with built-in MTS decoder. Features freeze frame; picture-in-a-picture; preview allowing sample images from 9 channels at a time; 2-speed strobe; 139-channel cable-ready random-access tuner; programmable channel scan; RGB input; wireless remote with illuminated keys; 2 RF inputs; 2 video with stereo audio inputs; 1 audio/video output; external speaker jacks; bass, treble, loudness and balance controls; auto-fine tuning; comb filter; last channel recall; off timer; on-screen display. 27.62" W × 22.75" H × 19.44" D; 107 lbs ..... \$950

#### CK-25E06 Stereo Television

25-inch console television with built-in MTS decoder. Features 139-channel cable-ready random-access tuner; programmable channel scan; wireless remote; automatic fine tuning; last station recall. Oak-veneer cabinet. 32.88" W × 30.75" H × 21.12" D; 128 lbs ..... \$820

#### CS-2651R Stereo Receiver/Monitor

26-inch television with built-in MTS decoder. Features 139-channel cable-ready random-access tuner; programmable channel scan; wireless remote; 1 video with stereo audio input; 1 audio/video output; auto fine tuning; comb filter; 400 line resolution; last channel recall. 26.31" W × 23.62" H × 18.69" D; 96 lbs ..... \$800

#### CS-2051R Stereo Television

20-inch stereo color TV with Mitsubishi's Diamond Vision picture tube technology. Features full-function remote control that allows integrated operation with Mitsubishi's HS-430UR videocassette recorder; comb filter; 139-channel cable compatible; random-access frequency-synthesizer tuning; channel memory and quick view; antenna A/B selection; time/channel display and recall; brightness/color/tint controls with reset; on-screen mode display; stereo/SAP indicators; loudness compensation; audio expansion; separate bass and treble; stereo audio inputs; variable stereo audio outputs; external speaker terminals; 2-speaker sound; video output and two sets of video inputs with external source selection 1 and 2 from remote. Walnut finish ..... \$670

#### CS-2011R Stereo Television

20-inch remote-control TV with built-in MTS decoder. Features 139-channel ca-

ble compatible; random-access frequency-synthesizer tuning; channel memory and quick view; 1 video with stereo audio input; bass, treble, loudness and balance controls; mute; comb filter; 400 line resolution. 22.31" W × 17.62" H × 18.69" D ..... \$550

### NAD

#### MR-26 Stereo Television

Receiver/monitor with wireless infrared remote control and built-in stereo decoder. Features front panel video and stereo audio inputs; front panel TV/game with RF input; 8-pin professional VTR connector paralleled with VCR input/output; VHF, UHF, cable, and premium cable input selections from front panel or remote control. Screen size 26 inches (diagonal); horizontal resolution more than 370 lines; video S/N 56+ luma dB. Receives all UHF channels, all VHF channels, all CATV channels; uses varactor synthesis tuning system; video bandwidth >4.2 MHz. 3 pairs audio inputs; 2 pairs audio outputs; 4 (1 RF) video inputs; 2 video outputs. Audio power amp: frequency response 40-15,000 Hz ±3 dB; S/N 65+ dB. Audio preamp: frequency response: 20 to 20,000 Hz ±1.5 dB; max output 1 V; input sens 440 mV. Tone controls ±10 dB treble, ±10 dB bass. 27.12" W × 24.25" H × 20" D ..... \$1,098

#### MR-20 Stereo Television

Receiver/monitor with built-in stereo decoder and wireless infrared remote. Features front panel video and stereo audio input; front panel TV/game switch and RF input; 8-pin professional VTR connector I/O paralleled with normal VCR I/O; VHF, UHF, cable, and premium cable inputs with premium cable loop; fixed and variable audio outputs. Screen size 20 inches (diagonal); horizontal resolution 370+ lines; video S/N 56+ dB. Receives all VHF channels, all UHF channels, all CATV channels; uses varactor tuning system; video bandwidth >4.2 MHz. 3 pairs of audio inputs; 3 pairs of audio outputs; 4 (1 RF) video inputs; 2 video outputs. Audio power amp: frequency response 40-15,000 Hz ±3 dB; S/N 65 dB. Audio preamp: FR 20-20,000 Hz ±1.5 dB; max output 1 V; input sensitivity 440 mV. Tone controls ±10 dB treble, ±10 dB bass. 21" W × 19.25" H × 19" D; 75 lbs ..... \$798

### NEC

#### DT-2680 Digital Receiver/Monitor

26-inch flat-square monitor/receiver with digital video. Video can be processed for picture-in-picture and 3 still pictures in memory. Also features monitor-in function for swapping pictures; digital processing LSI for video, chroma (with

For explanations of abbreviations, specifications, and technical terms, turn to the vocabulary on page 38.



comb filter); 8-pin RGB input for computer input; 3 audio/video inputs; 2 monitor outputs; 2 audio outputs; built-in MTS decoder for stereo TV and SAP; 142-channel PLL synthesizer cable-ready tuner with presets; full-function wireless remote control; on-screen display of channels from full-function remote control; sleep timer for auto shutoff; video and audio 2-type auto preset control function; auto white-balance control. Horizontal resolution greater than 340 lines; receives VHF, UHF, 60 CATV channels; built-in stereo amp outputs 5 watts  $\times$  2 (THD 1%) for 2 external speakers. 25.97" W  $\times$  19.4" H  $\times$  22.62" D \$1,600

#### KX-2750 Stereo Receiver/Monitor

27-inch square monitor/receiver. Planar-tinted to cut glare, set features stereo amp with 10-W/ch output; built-in stereo speakers; built-in MTS/SAP decoder for stereo TV and separate audio on SAP channel; remote-control with picture and audio controls; 3 video inputs, 2 video outputs; on-screen display of all functions; comb filter; auto picture control (black-level retention, peak-white suppression); channel lock; 24-hr timer and 180-min sleep timer. Horizontal resolution 500 lines; receives VHF, UHF, 60 CATV channels; simulated stereo for mono programs; 164-channel PLL-synthesizer tuning with random access from remote-control. 42.12" W  $\times$  27.39" H  $\times$  17.90" D; 165.6 lbs ..... \$1,300

#### CT-2610 Stereo Receiver/Monitor

26-inch monitor/receiver with full-square tube, MTS and SAP. Features 2 front-mounted stereo speakers powered by 3-W/ch amp (THD 1%), with external speakers 5-W/ch output (THD 1%); headphone/earphone outputs; bass, treble, and balance controls; comb filter; on-screen channel/time display. Rear-panel includes: 2 RF inputs, 1 RF output, 2 video inputs, 1 monitor output, 1 TV output, and 2 sets of stereo/ audio outputs. Receives VHF, UHF, and 60 CATV channels. Horizontal resolution 400 lines; 142-channel cable-ready PLL-synthesizer tuner with random-access remote control; 25.97" W  $\times$  23.62" H  $\times$  19" D; 88.3 lbs ..... \$1,000

#### CT-2020 Stereo Receiver/Monitor

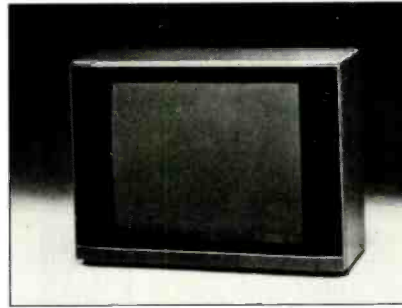
Similar to CT-2610 with 20-inch, flat-square tube. Other differences: 2.5-W/ch output from stereo amp; resolution 350 lines; 20.62" W  $\times$  19.36" H  $\times$  19.09" D; 57.8 lbs ..... \$800

#### CT-2510 Stereo Receiver/Monitor

25-inch receiver/monitor with MTS/SAP. Features 142-channel cable-capable quartz tuner; comb filter; LED channel indicator; sleep-timer; internal speakers: 3-W/ch  $\times$  2 (THD 1%); external speakers 5-W/ch  $\times$  2 (THD 1%); 2 RF inputs; 1 RF output; 1 monitor output; 1 TV output; 2 video inputs (with stereo audio); headphone/earphone outputs; simulates stereo from mono source; remote-control. Receives VHF, UHF, and 60 CATV channels. Horizontal resolution 340 lines; 20.19" W  $\times$  23.25" H  $\times$  19.6" D .. \$900

#### CT-2660 Stereo Receiver/Monitor

26-inch receiver/monitor with flat-square screen and built-in MTS/SAP. Features 142-channel cable-ready tuner; stereo speakers; comb filter; on-screen channel/time display; quartz-PLL tuner; wireless remote-control (for TV or VCR); audio output 2.5-W/ch (1% THD); 1 set audio/video input; 1 L/R audio (variable) out; receives VHF, UHF, 60 CATV channels. Horizontal resolution 340/380 lines; frequency response 35-15,000 Hz  $\pm$  3; THD >1%; 30.75" W  $\times$  23.23" H  $\times$  21.20" D; 84.9 lbs ..... \$800  
CT-2060. Similar to CT-2660 with



20-inch, flat-square screen. 24" W  $\times$  17.72" H  $\times$  18.4" D; 48.5 lbs ... \$600

#### PANASONIC

#### CTH-2600R Stereo Receiver/Monitor

26" color receiver/monitor with built-in stereo amplifier and square-corner data-grade picture tube. Features 3 sets audio/video input jacks; program out jacks; dual VHF antenna; 33-button unified remote for TV and VCR; 4.75" speakers; headphone jack; parental guidance control; on-screen display; programmable scan; sleep timer. Receives 12 VHF, 56 UHF, 99 CATV channels; horizontal resolution 400 lines; 4 W/ch; FR 100-10,000 Hz  $\pm$  3 dB; THD 2%. 27" W  $\times$  24" H  $\times$  22.25" D; 114.44 lbs \$1,800

#### CTH-2787R Stereo Receiver/Monitor

27" color receiver/monitor with built-in stereo amplifier and square-corner picture tube. Features 3 sets audio/video input jacks; TV out jacks; program out jacks; external speaker terminals; 4 speakers; dual VHF antenna; 23-function unified remote for TV and VCR; parental guidance control; on-screen display; on/off timer. Receives 12 VHF, 56 UHF, 99 CATV channels; horizontal resolution 400 lines; 8 W/ch; FR 100-10,000 Hz  $\pm$  3 dB; THD 2%. 46.06" W  $\times$  28.62" H  $\times$  26.75" D; 154 lbs ..... \$1,350

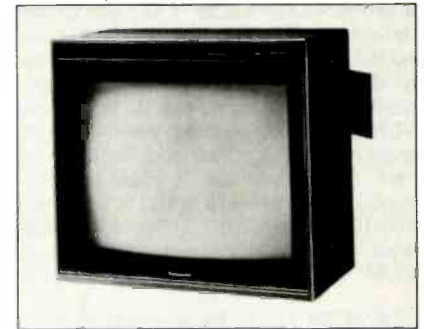
#### CTG-2077R Stereo Receiver/Monitor

20" color receiver/monitor with built-in stereo amplifier and square-corner data-grade picture tube. Features Compufocus video system with comb and SAW filters; IBM-compatible RGB input for 80-column display capability; 3 sets audio/video input jacks; TV out jacks; through-out jacks; variable audio output jacks; two types RGB input jacks; rapid tune; programmable scan; sleep timer; external speaker terminals; dual VHF antenna; 33-button unified remote for TV and VCR; on-screen display; ste-

reo headphone and earphone jacks; bass, treble, balance controls. Receives 12 VHF, 56 UHF, 125 CATV channels; horizontal resolution 480 lines; 4 W/ch; FR 100-10,000 Hz  $\pm$  3 dB; THD 2%. Teletext adaptable with Panasonic TU-1000X NABTS teletext decoder. Dark silver finish. 19.81" W  $\times$  18.94" H  $\times$  26.38" D; 66 lbs ..... \$1,300

#### CTH-2690R Stereo Receiver/Monitor

26" color receiver/monitor with built-in stereo amplifier and square-corner data-grade picture tube. Features IBM-compatible RGB input for 80-column display (700 dots per line); dual RGB inputs with more than 700 dots, 80 characters  $\times$  25 lines; 3 sets audio/video inputs; program out and variable audio output jacks; dual VHF antenna; programmable on/off timer; external speaker terminals; parental guidance control; bass, treble, and balance controls; rapid tune; programmable scan; on-screen display; 41-button unified remote; headphone jack. Horizontal resolution 480 lines with video input. Receives 12 VHF, 56 UHF, 155 CATV channels; 4 W/ch; 100-10,000 Hz  $\pm$  3 dB; THD



2%. Teletext adaptable with Panasonic TU-1000X NABTS teletext decoder. 25.88" W  $\times$  22.81" H  $\times$  20.88" W ; 105.8 lbs ..... \$1,300  
TY-GB85G. Optional matching stand for CTH-2690R ..... \$119

#### CTH-2688R Stereo Receiver/Monitor

26" color console receiver/monitor with built-in stereo amplifier and square-corner picture tube. Features comb and SAW filters; audio/video input jacks; program out and variable audio output jacks; 2-way 4-speaker sound system; programmable scan; programmable on/off timer; dual VHF antenna; 23-function unified remote for TV and VCR; on-screen display; parental guidance control; bass, treble, balance controls. Receives 12 VHF, 56 UHF, 99 CATV channels; horizontal resolution 410 lines; 2 W/ch; FR 100-10,000 Hz  $\pm$  3 dB; THD 2%. Modern design with rosewood cabinet. 38.06" W  $\times$  29.38" H  $\times$  19.62" D; 128 lbs ..... \$1,250

#### CTH-2577R Stereo Receiver/Monitor

25" color receiver/monitor with built-in stereo amplifier and Compufocus video system with comb and SAW filters. Features audio/video input jacks; program out and variable audio output jacks; programmable scan; sleep timer; 21-function unified remote for TV and VCR; bass, treble, balance controls. Receives

12 VHF, 56 UHF, 99 CATV channels; horizontal resolution 400 lines; 2 W/ch; FR 100-10,000 Hz  $\pm$  3 dB; THD 2%. Modern-style oak-veneer cabinet. 36.75" W  $\times$  29.62" H  $\times$  19.5" D; 132 lbs . . . \$1,150

#### CTH-2780R Stereo Receiver/Monitor

27" table-top color receiver/monitor with built-in stereo amplifier and square-corner picture tube. Features 3 sets audio/video input jacks; program out, TV out, and variable audio output jacks; comb and SAW filters; speaker output terminals; 4-speaker sound system; programmable scan; programmable on/off timer; dual VHF antenna; 23-function unified remote for TV and VCR; on-screen display; parental guidance control; bass, treble, balance controls. Receives 12 VHF, 56 UHF, 99 CATV channels; horizontal resolution 400 lines; 4 W/ch; FR 100-10,000 Hz  $\pm$  3 dB; THD 2%. Modern-style oak-veneer cabinet. 24.5" W  $\times$  30" H  $\times$  26" D; 117 lbs. . . . . \$1,200

#### CTH-2680R Stereo Receiver/Monitor

26" table-top color receiver/monitor with built-in stereo amplifier. Features audio/video input jacks; program out and variable audio output jacks; 4-speaker sound system; programmable scan; programmable on/off timer; dual VHF antenna; 23-function unified remote for TV and VCR; on-screen display; parental guidance control; video sensor. Receives 12 VHF, 56 UHF, 99 CATV channels; horizontal resolution 410 lines; 2 W/ch; FR 100-10,000 Hz  $\pm$  3 dB; THD 2%. Modern-style oak-veneer cabinet. 25.56" W  $\times$  22.94" H  $\times$  18.38" D; 87.5 lbs. . . \$1,100

#### CTH-2575R Stereo Receiver/Monitor

25" color receiver/monitor with built-in stereo amplifier and Compufocus video system with SAW and comb filters. Features audio/video input jacks; program through out and variable audio output jacks; 2-speaker sound system; programmable scan; sleep timer; 21-function unified remote for TV and VCR; bass, treble, and balance controls. Receives 12 VHF, 56 UHF, 99 CATV channels; horizontal resolution 400 lines; 2 W/ch; FR 100-10,000 Hz  $\pm$  3 dB; THD 2%. Traditional-style cabinet. 41.62" W  $\times$  31.88" H  $\times$  20" D; 141.06 lbs \$1,100

#### CTH-2571R Stereo Receiver/Monitor

25" color receiver/monitor with built-in stereo amplifier and Compufocus video system with SAW and comb filters. Features audio/video input jacks; program through out and variable audio output jacks; 2-speaker sound system; programmable scan; sleep timer; 21-function unified remote for TV and VCR; bass, treble, and balance controls. Receives 12 VHF, 56 UHF, 99 CATV channels; horizontal resolution 400 lines; 2 W/ch; FR 100-10,000 Hz  $\pm$  3 dB; THD 2%. Contemporary-style wildwood oak cabinet. 39.06" W  $\times$  31.5" H  $\times$  18.75" D; 130.06 lbs . . . . . \$1,000

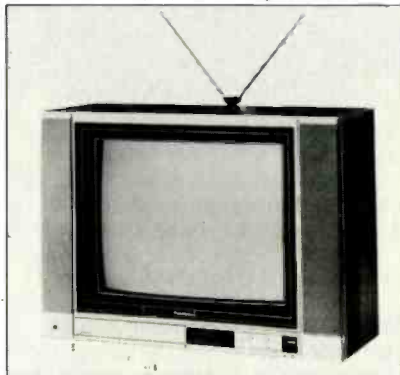
#### CTH-2570R Stereo Receiver/Monitor

25" color table-top receiver/monitor with built-in stereo amplifier and Compufocus

video system with SAW and comb filters. Features audio/video input jacks; variable audio output jacks; 4-speaker sound system; programmable scan; sleep timer; 33-button unified remote for TV and VCR; bass, treble, and balance controls; video sensor; rapid tune. Receives 12 VHF, 56 UHF, 99 CATV channels; horizontal resolution 400 lines; 2 W/ch; FR 100-10,000 Hz  $\pm$  3 dB; THD 2%. Modern-style cabinet. 24.75" W  $\times$  22.44" H  $\times$  19.32" D; 92 lbs . . . . . \$950

#### CTG-2067R Stereo Receiver/Monitor

20" color receiver/monitor with built-in stereo amp, square-corner picture tube, and Compufocus video system with comb and SAW filters. Features headphone jack; audio/video input jacks; on-screen display; parental guidance con-



trol; treble and balance controls; programmable scan; rapid tune; sleep timer; 21-function unified remote for TV and VCR; 2-way 4-speaker sound system. Receives 12 VHF, 56 UHF, 99 CATV channels; horizontal resolution 380 lines; 2 W/ch. 26.5" W  $\times$  19.5" H  $\times$  19.88" D; 69 lbs. . . . . \$899

#### PHILCO

#### R6982APE Stereo TV

26" console TV with built-in decoder for stereo TV broadcasts and SAP. Features cable-ready random-access tuner; full-square tube; expanded audio switch for enhanced sound spacing; controls for bass/treble/balance; 24-function wireless remote control; sleep timer; mute button; comb filter; auto light sensor which adjusts picture brightness for room light; audio input/output jacks; pecan-grain cabinet. Receives UHF, VHF and 84 CATV channels. Horizontal resolution 330 lines. 43" W  $\times$  29.25" H  $\times$  18.75" D . . . . . \$959  
**R6980AAK.** Similar to R6982APE with grained-oak finish. 41" W  $\times$  28.25" H  $\times$  19.75" D . . . . . \$959  
**R3971AWA.** Similar to R6982APE with 19" screen and compact dimensions. 26.5" W  $\times$  16.75" H  $\times$  18.5" D . . . \$469

#### PIONEER

#### SD-25A Stereo Monitor/Tuner

25-inch high-resolution expandable TV monitor. Features 400 horizontal lines of resolution; 5 MHz video bandwidth; multi-function on-screen display; proprietary red phosphor CRT; 3 video inputs

with stereo audio; 2 video outputs with stereo audio; built-in speakers and 10-W/ch amplifier; surround sound decoder and variable audio outputs for Hi-Fi; tinted front glass and CRT; 24.31" W  $\times$  22.06" H  $\times$  19.56" D. Includes Pioneer SD-X7 tuner pack. Tuner pack features 139 channel cable-capability; MTS-stereo decoder; two RF inputs for full use of cable and premium channels . . . . . \$1,300

#### SD-260 Stereo Monitor/Receiver

26" full-square high-resolution monitor/receiver with MTS decoder for stereo broadcasts. Features 560 lines horizontal resolution; SR-type remote for control of Pioneer Laservision players and VCR's; 10-key direct-access cable-capable tuner; multi-function on-screen display; 3 video inputs with stereo audio; 2 video outputs with stereo audio; built-in speakers with 5-W/ch amplifier; external speaker outputs; 26.19" W  $\times$  22.62" H  $\times$  19.94" D . . . . . \$1,200

#### PROTON

#### 627 Stereo Receiver/Monitor

27" stereo receiver/monitor with Proton 318 magnetically shielded video speakers. Set decodes multichannel TV stereo signal with no change required. Features 400 lines of horizontal resolution; video noise reduction; 139-channel cable-compatible tuning; switchable video sources and RF inputs; front-panel audio/video inputs/outputs; bass/treble/balance controls; RGB nine-pin computer input; on-screen channel display. Receives VHF, UHF, and CATV channels. Audio amplifi-



er section: 3-W/ch; frequency response 20-20,000 Hz  $\pm$  3dB. 27.36" W  $\times$  24" H  $\times$  18.88" D; 110 lbs . . . . . \$1,299

#### 625 Stereo Receiver/Monitor

25" receiver/monitor with stereo SAP decoder and built-in speakers. Horizontal resolution 380 lines; video signal-to-noise ratio 50 dB; receives 139 channels. Features three audio inputs; three audio outputs; three video inputs; three video outputs; digital tuning; video noise reduction system; automatic/manual fine tuning; cable converter loop; random-access remote control; on-screen display; RGB input; last-channel recall; 5% overscan. Audio power amplifier: frequency response 20-30,000 Hz  $\pm$  3 dB; tone controls  $\pm$  10 dB treble,  $\pm$  10 dB bass; geometric distortion 0.7%; video bandwidth 4.7 MHz. 26" W  $\times$  25" H  $\times$  20.5" D; 120 lbs . . . . . \$1,099



**620 Stereo Receiver/Monitor**

Receiver/monitor with built-in MTS (stereo/SAP) decoder. 20" flat-square screen provides high-contrast picture; black level provides pure blacks; horizontal resolution over 400 lines; 139-channel cable-compatible; on-screen channel display. Features front-panel audio/video inputs/outputs; variable and fixed audio outputs; bass, treble and balance controls; external stereo speaker connections and infrared remote control. Receives VHF, UHF, and CATV. Audio amplifier section: 3-W/ch, frequency response 20-30,000 Hz  $\pm$  3 dB. 21.19" W  $\times$  19.19" H  $\times$  19.75" D; 60 lbs... \$849

**619A Stereo Receiver/Monitor**

Receiver/monitor with stereo/SAP reception and built-in speakers. Screen size 19-inches; horizontal resolution 380 lines; video signal-to-noise ratio 50 dB; receives 139 channels. Features two audio inputs; two audio outputs; two video inputs; two video outputs; digital tuning; video noise reduction system; remote control; last-channel recall; 5% overscan. Audio power amplifier: frequency response 20-30,000 Hz  $\pm$  3 dB; tone control  $\pm$  10 dB treble;  $\pm$  10 dB bass. 21.25" W  $\times$  19.75" H  $\times$  19.75" D; 61.25 lbs \$749

**QUASAR****TT9000YQ Delta Stereo Television**

26-inch TV receiver/monitor with built-in MTS/SAP decoder. Features 155-channel tuning; sleep timer; channel check; channel censor; three audio left+right, three video inputs; one audio left+right, one video outputs; two 4.5" speakers;



comb filter; 420 line horizontal resolution; remote RF and video switching; detachable casters and viewing angle adjusters. Video section: receives 12 VHF, 56 UHF, 87 CATV channels. Audio amplifier section: 4 watts per channel; frequency response 100-18,000 Hz. 27.75" W  $\times$  25.75" H  $\times$  23.19" D; 114.44 lbs \$1,900

**TL9982AW Stereo Television**

27" TV receiver/monitor with built-in MTS/SAP decoder. Features 27" full-square high-contrast picture tube; 155-channel total cable tuning; TV/VCR unified wireless remote control; audio/video input/output jacks; remote RF switching; comb filter; 330/400 lines of resolution; programmable channel scan; sleep timer; channel censor; channel check station recall; contemporary style walnut console cabinet. .... \$1,100

**TL9960AP Stereo Television**

26-inch TV receiver/monitor with built-in MTS/SAP decoder. Features comb filter; 330/400 line resolution (tuner/direct video); one audio left+right, one video input; one audio left+right through-out; 1 video though-out; two 5"  $\times$  7" speakers; remote RF and video switching; sleep timer; channel check previous channel recall; channel censor; 34-function TV/VCR unified remote control. Video section: receives 12 VHF, 56 UHF, 87 CATV channels. Contemporary style console cabinet 39.12" W  $\times$  29.25" H  $\times$  17.88" D; 129 lbs ..... \$1,000

**TT6298YW Stereo Television**

20-inch full-square color stereo television with 155-channel tuning and comb filter. Set decodes multichannel TV stereo signal with no change required. Features two 75- and 300-ohm, three audio left+right, three video, two RGB inputs; three audio left+right, three video, external speaker, and headphone outputs; TV/VCR unified remote control; two 4" speakers. Video section: receives 12 VHF, 56 UHF, 87 CATV channels. 20.5" W  $\times$  19.5" H  $\times$  20.36" D; 74 lbs.. \$990

**TL9951AK Stereo Television**

25-inch stereo television with 155-channel cable-ready tuner. Features built-in MTS/SAP decoder; remote control; comb filter; sleep timer; channel-check previous channel recall; light sensor; auto color adjustment; two 4"  $\times$  6" speakers; 2 W/ch amplifier; balance control. Contemporary style console cabinet; 30.36" H  $\times$  41.25" W  $\times$  18.12" D. \$850

**TT9909AE Stereo Television**

26-inch color stereo television with 155-channel tuning; sleep timer; channel check; channel censor; unified remote control. Set decodes multichannel TV stereo signal with no change required. Features one audio left+right, and one video inputs; one TV audio left+right output; two 4"  $\times$  6" speakers; remote RF, video switching. Video section: receives 12 VHF, 56 UHF, 87 CATV channels. Black cabinet 25.5" W  $\times$  22.25" H  $\times$  18.5" D; 93 lbs ..... \$820

**TT9905AW Stereo Television**

25-inch color television with built-in MTS/SAP decoder. Features 155-channel cable-ready tuner; comb filter; 330 line resolution; 20-function remote control; light sensor; sleep timer; previous channel recall; two 4"  $\times$  6" speakers; 2 W/ch amplifier; bass, treble and balance controls; L/R program variable output; simulated walnut cabinet ..... \$793

**WL9432AK Stereo Television**

25-inch color stereo television. Set decodes multichannel TV stereo signal with no change required. Features two 4"  $\times$  6" speakers. Video section: receives 12 VHF, 56 UHF channels. 47.75" W  $\times$  28.5" H  $\times$  18.75" D; 161 lbs ..... \$620

**TT6248YW Stereo Television**

20-inch table-top stereo television with built-in MTS/SAP decoder. Features 155-

channel cable-ready tuner; sleep timer; previous channel recall; 20-function remote control. Includes VHF dipole antenna; UHF bow tie antenna. 19" H  $\times$  20.88" W  $\times$  19.5" D ..... \$540

**RCA****ColorTrak 2000 Series****GMR2790 Stereo Monitor/Receiver**

27-inch console stereo monitor/receiver with built-in MTS/SAP decoder. Features full-resolution color processing circuitry; video noise reduction; CCD comb filter; automatic picture control; light sensor; three RF inputs; direct-access cable-ready quartz tuning; programmable scan; 2 video inputs with stereo audio; 2 stereo audio outputs (1 fixed, 1 variable level); Digital Command Center remote control for RCA TV, VCR and audio system; "Vista Screen 27" 110° picture tube; Hi-Con picture tube screen; on-screen channel/time display. Includes two 5" woofers and two 2" tweeters with separate 5 W/ch amplifiers. Audio system features switchable DNR; bass and treble controls; loudness-compensated volume circuitry; 50-15,000 Hz, with less than 1.0% THD into 4 ohms. Contemporary-style beige and almond lacquer cabinet with concealed casters. 29.75" H  $\times$  48" W  $\times$  19.88" D ..... \$1,189

**FMR2723 Stereo Monitor/Receiver**

27-inch table-top stereo monitor/receiver with built-in MTS/SAP decoder. Features full resolution color processing circuitry; video noise reduction; CCD comb filter; automatic picture control; light sensor; three RF inputs; direct-access and programmable-scan quartz cable tuning; 3 video inputs with stereo audio (one bridged output); stereo audio/video processor jacks; selected video output with stereo audio; one fixed stereo audio output; external speaker terminals; Digital Command Center remote control for RCA TV, VCR and audio system; "Vista Screen 27" 110° picture tube; Hi-Con picture tube screen; on-screen channel/time display. Includes two 5" woofers and two 2" tweeters with separate 5 W/ch amplifiers. Audio system features switchable DNR (dynamic noise reduction); bass and treble controls; loudness-compensated volume circuitry; 50-15,000 Hz, with less than 1.0% THD into 4 ohms. Black lacquer cabinet. 24.12" H  $\times$  27.88" W  $\times$  18.25" D. \$899

**FMR2623 Stereo Monitor/Receiver**

26-inch table-top stereo monitor/receiver with built-in MTS/SAP decoder. Features full-resolution color processing circuitry; video noise reduction; CCD comb filter; automatic picture control; light sensor; direct-access cable-ready quartz tuning; 2 video inputs with stereo audio; 2 stereo audio outputs (1 fixed, 1 variable level); Digital Command Center remote control for RCA TV, VCR and audio system; 110° COTY picture tube; Hi-Con picture tube screen; on-screen channel/time display. Includes two 5" woofers and two 2" tweeters with separate amplifiers for

each channel. Audio system features switchable DNR; bass and treble controls; speaker on/off switch; loudness-compensated volume circuitry. Compact black lacquer cabinet. 23.62" H X 26.25" W X 20" D ..... \$799

#### ColorTrak Series

#### GMR899R Stereo Monitor/Receiver

26-inch console stereo monitor/receiver with built-in MTS/SAP decoder. Features direct-access cable-ready quartz tuning; programmable scan; 2 video inputs with stereo audio; 2 stereo audio outputs (1 fixed, 1 variable level); Digital Command remote control for RCA TV, VCR; automatic picture control; light sensor; 110° COTY picture tube; Hi-Con picture tube screen; on-screen channel/time display. Includes two 8" oval speakers with separate 5-W/ch amplifiers. Audio system features switchable DNR (dynamic noise reduction); bass and treble controls; loudness-compensated volume circuitry; 50-15,000 Hz, with less than 1.0% THD into 8 ohms. Traditional-style pecan finish cabinet with concealed casters. 32" H X 41.25" W X 20.5" D ..... \$809

**GMR895R.** Same as GMR899R except has country American-pine finish cabinet. 32.25" H X 41.36" W X 20.25" D ... \$809

**GMR893R.** Same as GMR899R except has black contemporary cabinet with swivel base and no casters. 30.36" H X 37.88" W X 19.12" D ..... \$809

**GMR891R.** Same as GMR899R except has contemporary oak-finish cabinet with swivel base and no casters. 30.62" H X 37.88" W X 19" D ..... \$809

#### GMR859R Stereo Television

26-inch console stereo monitor/receiver with built-in MTS/SAP decoder. Features direct-access cable-ready quartz tuning; programmable scan; Digital Command remote control for RCA TV, VCR; automatic picture control; light sensor; 110° COTY picture tube; Hi-Con picture tube screen; on-screen channel/time display. Includes two 8" oval speakers with separate amplifiers. Audio system features switchable DNR (dynamic noise reduction); bass and treble controls; loudness-compensated volume circuitry. Pecan-finish traditional-style cabinet with concealed casters. 30.12" H X 36.5" W X 19" D ..... \$759

**GMR855R.** Same as GMR859R except has cherry or pine finish country American-style cabinet. 34.25" H X 38.5" W X 20" D ..... \$759

**GMR851R.** Same as GMR859R except has pecan-finish contemporary style cabinet with swivel base and no casters. 30.36" H X 36.5" W X 19" D .... \$759

#### FMR722R Stereo Monitor/Receiver

26-inch table-top stereo monitor/receiver with built-in MTS/SAP decoder. Features direct-access cable-ready quartz tuning; programmable scan; 2 video inputs with stereo audio; 2 stereo audio outputs (1 fixed, 1 variable level); Digital Command remote control for RCA TV, VCR; automatic picture control; light sensor; 110° COTY picture tube; Hi-Con picture tube

screen; on-screen channel/time display. Includes two 5" oval speakers with separate 5-W/ch amplifiers. Audio system features switchable DNR; bass and treble controls; balance control; speaker on/off switch; loudness-compensated volume circuitry; 50-15,000 Hz, with less than 1.0% THD. Compact contemporary cabinet with black (FMR722ER) or oak (FMR722TR) finish. 23.25" H X 26.88" W X 19" D ..... \$699

**FMR720R.** Same as FMR722R without monitor capabilities ..... \$619

#### FMR570R Stereo Monitor/Receiver

20-inch table-top stereo monitor/receiver with built-in MTS/SAP decoder. Features direct-access cable-ready quartz tuning; programmable scan; 2 video inputs with stereo audio; 2 stereo audio outputs (1 fixed, 1 variable level); Digital Command remote control for RCA TV, VCR; automatic picture control; light sensor; 110° COTY picture tube; Hi-Con picture tube screen; on-screen channel/time display. Includes two high-compliance 5" oval speakers with separate 5-W/ch amplifiers. Audio system features switchable DNR; bass and treble controls; balance control; speaker on/off switch; loudness-compensated volume circuitry; 50-15,000 Hz, with less than 1.0% THD. Compact contemporary cabinet with black (FMR570ER) or oak (FMR570TR) finish. 18" H X 24.62" W X 16.12" D ... \$589

**FMR560R.** Same as FMR570R except has 3.5" speakers in compact contemporary cabinet. 19.36" H X 20" W X 15.88" D ..... \$589

**FMR555R.** Same as FMR570R without monitor capabilities ..... \$509

#### RADIO SHACK

#### TC-1000 (16-250) Stereo Television

19-inch monitor/receiver with MTS/SAP and PLL-tuner. Horizontal resolution 320 lines; receives VHF, UHF, CATV channels; decodes multichannel signal with no change required. Features 2 audio inputs; 1 audio output; 2 video inputs; 1 video output; comb filter; remote control; HRC, IRC, ICC cable switch. 17.88" W X 20.25" H X 18.36" D ..... \$500

#### SAMSUNG

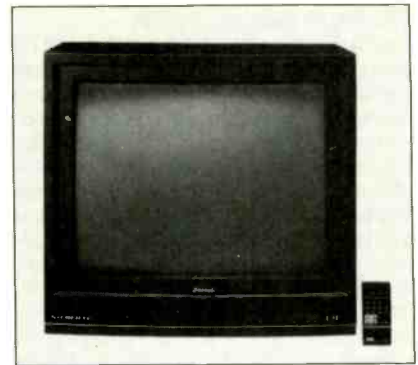
#### TC-20105 Stereo Monitor/Receiver

20-inch stereo monitor/receiver with flat-square screen. Set decodes multichannel TV stereo signal with no change required. Features 2 audio inputs; 1 audio output; built-in stereo amplifier; on-screen channel/time display; MPX jack; wireless remote. Receives VHF, UHF, 57 CATV channels; 21" W X 22" H X 18" D; 59 lbs ..... \$550

#### SANSUI

#### SV-M26AV Stereo Monitor/Receiver

26" color monitor/receiver decodes multichannel TV stereo signal with no adapter required. Features 2 audio inputs; 2 audio outputs; built-in stereo amplifier (3-W/ch); tone and balance controls; 21-function infrared remote control. Re-



ceives VHF, UHF, and CATV channels. 26.18" W X 23.81" H X 21.56" D; 86 lbs ..... \$1,000

#### SANYO

#### 62C300 Stereo Receiver/Monitor

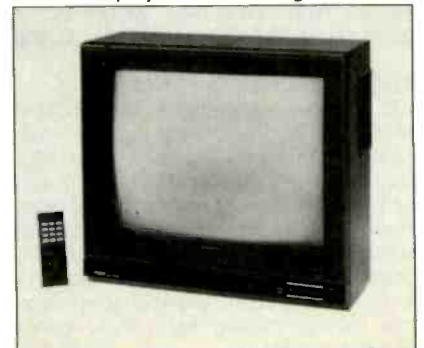
26" console stereo television with on-screen display. Features 181-channel tuner; 27-button infrared remote; 2 A/V inputs; on-screen display for bass, treble, balance, color, tint, sharpness, channel and time; sleep timer; 75-ohm input; comb filter; casters; 6.5" X 2" + 2" X 2" speakers. Video section: receives 12 VHF, 56 UHF, 113 CATV channels; Audio amplifier section: 5 watts per channel; frequency response 100-15k Hz  $\pm$  3 dB; THD 1.5%. 41.75" W X 28.75" H X 20" D; 170lbs ..... \$1,000

#### AVM270 Stereo Television

Color receiver/monitor with built-in stereo capabilities. Screen size 26 inches; horizontal resolution 320 lines; video signal-to-noise ratio 47 dB VHF, 45.5 UHF. Receives 58 CATV channels; uses direct-access tuning system. Features two audio inputs; two audio outputs with one variable; two video outputs; one video input; RGB input; bilingual capability; direct-access remote control; built-in timer; on-screen display. Audio power amp: frequency response 40-20,000 Hz -3 dB; signal-to-noise ratio 48 dB. Audio preamp: frequency response: 10-50,000 Hz -3 dB; max output one volt; input sensitivity 380 millivolts. Tone controls  $\pm$  6 dB 10,000 Hz. 26.3" W X 24.2" H X 19.7" D; 100 lbs ..... \$900

#### AVM 275 Stereo Television

26-inch color high-resolution monitor/receiver with built-in stereo decoder. Features MTS/dbx stereo decoder; 2 sets A/V inputs + 1 set AV outputs; on-screen display for fine tuning, color, tint





brightness, contrast, sharpness, bass, treble, balance, mute volume and channel; 1 set variable audio outputs; 75-ohm input; automatic brightness control; two 2.5" X 6.25" speakers. Video section: receives 12 VHF, 56 UHF, 113 CATV channels; horizontal resolution 500 lines. Audio amplifier section: 3.5 watts per channel. 26.25" H X 24" H X 19.62" D; 101 lbs. .... \$850

#### **AVM260 Stereo Television**

25-inch color monitor/receiver with built-in stereo decoder. Includes bilingual capability; infrared remote control; automatic brightness control; A/V inputs and outputs; LED channel display; stereo headphone jack; 2.5" X 6.5" 2 pc speakers; 75-ohm input. Video section: receives 12 VHF, 70 UHF, 30 CATV channels; horizontal resolution 400 lines. Audio amplifier section: 3.5 watts per channel. 25.75" W X 23.5" H X 19.31" D; 96.7 lbs. .... \$700

#### **52C200 Stereo Television**

25-inch solid-state console color television with 21-function remote. Set decodes multichannel signal with no change required. Features direct-access tuning; time remaining function; sleep timer; brightness/contrast control. Video section: horizontal resolution 260 lines; receives 12 VHF, 70 UHF, 58 CATV channels. Video bandwidth to 3.2 MHz; Audio amplifier section: 3.5 watts per channel; frequency response 100-15,000 Hz; THD 1.5%; 34.12" W X 29.75" H X 17.12" D; 135 lbs. .... \$700

#### **12C700 Stereo Television**

20-inch solid-state color television with 20-function remote. Set decodes multichannel signal with no change required. Features two sets of audio/video inputs with stereo audio capability; one set monitor outputs with stereo audio output; switchable video inputs; bilingual capability; RGB input; dockable remote; direct-access tuning; comb filter. Video section: horizontal resolution 320-400 lines; receives 12 VHF, 70 UHF, 58 CATV channels. Video bandwidth 4-5 MHz. Audio amplifier section: two watts per channel; frequency response 55-16,000 Hz; THD 1.0%. 26.25" W X 19.62" H X 20.50" D; 69 lbs. .... \$630

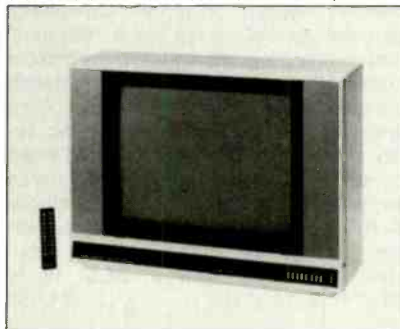
#### **AVM210 Stereo Television**

Receiver/monitor with built-in stereo capabilities. Screen size 20 inches; horizontal resolution 320 lines, direct input 380 lines; receives 58 CATV channels; uses direct-access tuning system. Features 2 audio inputs; 2 audio outputs with one being a variable; 2 video inputs; 1 video output; RGB input; bilingual capability; direct-access remote control; on-screen display; built-in timer. Audio power amp: FR 50-20,000 Hz  $\pm 3$  dB. Input sens 220 mV. 20.8" W X 19.1" H X 19.44" D; 54 lbs. .... \$550

#### **12C910 Stereo Television**

20-inch stereo television with 140-channel tuner and remote control. 75-ohm input; LED channel display; comb filter;

sharpness control; bilingual capability; automatic fine tuning; speakers: 3" X 5" (2), 2" (2); 2 sets A/V inputs; sleep timer.



Video section: receives 12 VHF, 70 UHF, 58 CATV channels; horizontal resolution 400 lines. Audio amplifier section: 2 watts per channel; frequency response 55-16k Hz  $\pm 3$  dB; THD 1%; 26.36" W X 19.75" H X 20.5" D; 61 lbs. .... \$550

#### **AVM150 Stereo Television**

Receiver/monitor with built-in stereo capability. Screen size 14 inches; horizontal resolution 320 lines, direct input 380 lines; receives 58 CATV channels; uses direct-access tuning system. Features 2 audio inputs; 2 audio outputs with one of them variable; 2 video inputs; 1 video output; RGB input; bilingual capability; direct-access remote control; on-screen display; built-in timer. Audio power amp: FR 50-20,000 Hz  $\pm 3$  dB; S/N dB. Input sensitivity 200 mV. Tone controls  $\pm 9$  dB 10,000 Hz. 15.28" W X 14.56" H X 14.78" D; 30 lbs. .... \$450

#### **91C900 Stereo Television**

19-inch stereo color television with direct access tuning. Features remote control; bilingual capability; comb filter; 75-ohm antenna input; 3.25" x 5.25" 2 pc speakers; LED channel display; sharpness, balance, tone, and fine tuning controls. Video section: receives 12 VHF, 70 UHF, 30 CATV channels; horizontal resolution 330 lines. Audio amplifier section: 1.5 watts per channel; frequency response 55-16k Hz  $\pm 3$  dB; THD 1%. 25.5" W X 18.25" H X 20" D; 46 lbs. .... \$450

### **SCOTT**

#### **HTS-2500 Stereo Monitor/Receiver**

25" monitor/receiver with black-matrix tube and in-line gun. Features on-screen channel/time display; 90-min sleep timer; 12-function wireless remote control; audio L+R input/output; video input/output; external speaker outputs; built-in side-firing wide-range speakers with adjustable reflectors; quick start picture; auto-color; removable non glare tempered glass filter screen. Receives VHF, UHF, 139 CATV channels. Audio amp outputs 4-watts/channel; 25" W X 22.9" H X 20" D; 92.5 lbs. .... \$850

#### **HTS-300 Stereo Monitor/Receiver**

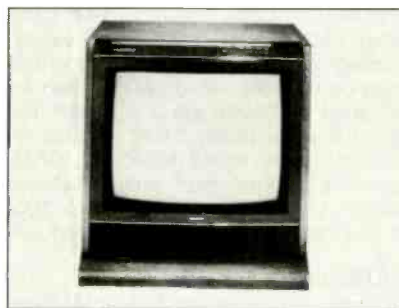
20" monitor/receiver with square-corner tube and comb filter video circuitry. Features 10-function wireless remote; on-screen channel/time display; bass/treble controls, built-in front-firing 2-way speak-

ers with piezo tweeters; 139-channel cable-ready tuner; 90-min sleep timer; auto color; stereo headphone jack; removable non glare tempered-glass filter screen. Receives VHF, UHF, 139 CATV channels. Horizontal resolution 400 lines. Audio amp outputs 5 watts/channel. 26.25" W X 18.5" H X 19.88" D; 64 lbs; .... \$650

### **SHARP**

#### **35LD956 Stereo Monitor/Receiver**

35-inch giant-screen direct-view monitor/receiver with built-in MTS decoder for stereo broadcasts. Features ambient stereo-sound output jack for surround sound systems; 35" square-cornered tinted high-contrast Linytron Plus picture tube; 140-channel cable-ready PLL quartz-synthesized electronic



tuning; 25-key random-access remote control; channel flashback; top-mounted controls; HQ circuitry; high-resolution comb filter; on-screen color-code-by-mode display; sleep timer; 3 sets of audio/video inputs and outputs; 2-way antenna inputs; external speaker jacks; AFT; ACS; one-button picture-balance control; woodgrain cabinet with easy-roll casters. Includes 75-/300-ohm antenna adapter ..... \$3,995

#### **26LC386 Stereo Monitor/Receiver**

26" monitor/receiver with built-in MTS decoder for stereo broadcasts. Features ambient stereo-sound output jack for surround sound systems; 26" square-cornered Linytron Plus picture tube with removable tinted glass; 140-channel cable-ready PLL quartz-synthesized electronic tuning; 25-key detachable random-access remote control; channel flashback; top-mounted controls; high-resolution comb filter; on-screen color-code-by-mode display; 2-way/2-speaker sound system; audio tone and balance controls; direct audio/video input jacks and audio line output jack; 2-way antenna inputs; sharpness control; AFT; ACS; one-button picture-balance control; rapid-on picture and sound; simulated woodgrain console cabinet with easy-roll casters. Includes 75-/300-ohm antenna adapter ..... \$1,350

#### **26LC286 Stereo Monitor/Receiver**

26" monitor/receiver with built-in MTS decoder for stereo broadcasts. Features ambient stereo-sound output jack for surround sound systems; 26" square tinted high-contrast Linytron Plus picture tube; 140-channel cable-ready PLL

quartz-synthesized electronic tuning; 23-key random-access remote control; channel flashback; high-resolution comb filter; LED channel indicator; 2-way/2-speaker sound system; audio tone and balance controls; direct audio/video input jacks and audio line output jack; 2-way antenna inputs; CATV jack; AFT; one-button picture-balance control; Simulated woodgrain console cabinet. Includes 75-/300-ohm antenna adapter . . . . . \$1,000

#### 26LV76 Stereo Monitor/Receiver

26" monitor/receiver with built-in MTS decoder for stereo broadcasts. Features ambient stereo-sound output jack for surround sound systems; 26" square tinted high-contrast Linytron Plus picture tube; 140-channel cable-ready PLL quartz-synthesized electronic tuning; 23-key random-access remote control; channel flashback; high-resolution comb filter; LED channel indicator; 2-way/2-speaker sound system; audio tone and balance controls; direct audio/video input jacks and audio line output jack; external speaker jacks; 2-way antenna inputs; supplied sound reflectors; CATV jack; AFT; one-button picture-balance control; black cabinet. Includes 75-/300-ohm antenna adapter . . . . . \$1,000

#### 20LP86 Stereo Television

20" color television with built-in MTS decoder for stereo broadcasts. Features ambient stereo-sound output jack for surround sound systems; 20" square-cornered Linytron Plus picture tube with removable tinted front glass; 140-channel cable-ready PLL quartz-synthesized electronic tuning; 20-key random-access remote control; channel flashback; LED channel indicator; 2-way/2-speaker sound system; audio tone and balance controls; external speaker jacks; 2-way antenna inputs; CATV jack; AFT; ACS; one-button picture-balance control; surface acoustic wave (SAW) filter; black cabinet. . . . . \$760

#### 20LV76 Stereo Monitor/Receiver

20" monitor/receiver with built-in MTS decoder for stereo broadcasts. Features ambient stereo-sound output jack for surround sound systems; 20" flat-square tinted high-contrast fine-pitch Linytron Plus picture tube; 110-channel cable-ready PLL quartz-synthesized electronic tuning; 20-key random-access remote control; channel flashback; high-resolution comb filter; LED channel indicator; 2-way/2-speaker sound system; audio tone and balance controls; direct audio/video input jacks and audio line output jack; external speaker jacks; 2-way antenna inputs; CATV jack; detachable VHF dipole and UHF bow-tie antennas; AFT; one-button picture-balance control; black cabinet . . . . . \$690

### SYLVANIA

#### RPF702 Stereo Receiver/Monitor

27" table-top receiver/monitor with built-in MTS decoder. Features comb filter; room light sensor; auto fine tuning;

TV/VCR remote control; 178-channel random-access frequency-synthesis tuning; last channel recall; on-screen time/channel display; on-screen captioning; parental control; sleep timer; personal preference programming; programmable station scan; hide-away instrumentation drawer; two 4" X 6" speakers; 4 W/ch amplifier; 2 video inputs with stereo audio; one bridged output; 1 selected video output with stereo audio; variable stereo audio output; external speaker terminals; 3 RF inputs; 400/330 line resolution (composite/tuner). Contemporary cube-style oak-veneer cabinet. 26.5" W X 23.5" H X 19.5" D . . . . . \$1,199

#### RPF590 Stereo Receiver/Monitor

27" console receiver/monitor with built-in MTS decoder. Features comb filter; room light sensor; auto fine tuning; TV/VCR remote control; 178-channel random-access frequency-synthesis tuning; last channel recall; on-screen time/channel display; on-screen captioning; parental control; sleep timer; personal preference programming; programma-



ble station scan; hide-away instrumentation drawer; 4-W/ch amplifier; 1 video input/output with stereo audio; 3 RF inputs; 400/330 line resolution (composite/tuner). Contemporary-style oak, finish cabinet with concealed casters. 44.5" W X 31" H X 17" D . . . . . \$1,599

#### RNF486 Stereo Receiver/Monitor

26" console receiver/monitor with built-in MTS decoder. Features comb filter; room light sensor; auto fine tuning; TV/VCR remote control; 178-channel random-access frequency-synthesis tuning; last channel recall; on-screen time/channel display; sleep timer; programmable station scan; 4-W/ch amplifier; 1 video input/output with stereo audio; 400/330 line resolution (composite/tuner). Traditional-style pecan-veneer cabinet with concealed casters. 48" W X 30.5" H X 18.5" D . . . . . \$1,099  
**RNF482.** Same as RNF486 except has contemporary-style oak-veneer cabinet with swivel base. 40" W X 28.5" H X 16.5" D . . . . . \$1,099  
**RNF480.** Same as RNF486 except has compact contemporary oak-veneer cabinet with swivel base. 30" W X 28.5" H X 16.6" D . . . . . \$1,099

#### RNF378 Stereo Television

26" console television with built-in MTS decoder. Features comb filter; room light sensor; auto fine tuning; TV/VCR remote control; 152-channel random-access frequency-synthesis tuning; last channel

recall; sleep timer; programmable station scan; 4-W/ch amplifier; 330 line resolution. Traditional-style pecan-veneer cabinet with concealed casters. 46" W X 29.5" H X 18.5" D . . . . . \$959  
**RNF375.** Same as RNF378 except has pine-finish country-American cabinet. 46" W X 29.5" H X 18.5" D . . . . . \$959  
**RNF372.** Same as RNF378 except has contemporary-style oak-finish cabinet on swivel base. 40.25" W X 28.5" H X 17" D . . . . . \$959

#### RLF351 Stereo Television

25" console television with built-in MTS decoder. Features comb filter; room light sensor; auto fine tuning; TV/VCR remote control; 152-channel frequency-synthesis tuning; last channel recall; sleep timer; station scan; 4-W/ch amplifier; 330-line resolution. Contemporary oak-finish cabinet 34.5" W X 29" H X 17" D \$899

#### RKF198 Stereo Receiver/Monitor

20" receiver/monitor with built-in MTS/SAP decoder. Features comb filter; room light sensor; auto fine tuning; TV/VCR remote control; 178-channel random-access frequency-synthesis tuning; last channel recall; on-screen time/channel display; on-screen captioning; parental control; sleep timer; personal preference programming; programmable station scan; 4-W/ch amplifier; 1 video input/output with stereo audio; switchable RF inputs; 400/330 line resolution (composite/tuner). Contemporary charcoal finish cabinet . . . \$799

### TATUNG

#### 26 CFD Stereo Television

26-inch stereo TV with built-in stereo amplifier and a set of right/left separate audio inputs. Features 18-key full-function remote control; 133-channel cable-ready capability; oak cabinet with black full-square tube . . . . . \$1,300

#### 26 CFG Stereo Television

26-inch stereo television with built-in amplifier. Features set of separate right/left audio inputs; 133-channel cable-ready capability; comb filter; black full-square tube; walnut cabinet; 18-key full-function remote control . . . . . \$1,220

#### 26 CFMT Stereo Television

26-inch stereo television with built-in stereo amplifier and one set of right/left separate audio inputs. Features 133-channel cable-ready; comb filter; full-function remote control; silver cabinet . . . . . \$1,000

These listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses are given in the directory beginning on page 43.



**20 CFMT Stereo Television**

20-inch stereo television with 134-channel cable-ready capability. Features 16-key full-function wireless remote control; comb filter; tinted-glass; silver cabinet ..... \$630

**VECTOR RESEARCH****VTM-25 Stereo Television**

Color receiver/monitor with built-in stereo capabilities and MTS tuner. Screen size 25 inches (measured diagonally); horizontal resolution 400 lines; receives 12 VHF, 70 UHF, 62 CATV channels. Features PLL-synthesized tuning; infrared wireless remote control; two stereo-pair audio inputs; two stereo-pair audio outputs; two video inputs; two video outputs; 5-watt/channel amplifier. 25" W × 25" H × 20" D; 90 lbs ..... \$850

**ZENITH****SC2793 Stereo Receiver/Monitor**

27-inch receiver/monitor with Bose audio system. Features built-in MTS/SAP decoder; three separate audio amplifiers; built-in world system teletext; Zenith Digital System 3 color circuitry; digital comb filter; digital color sentry; 178-channel cable-ready direct-access tuner with programmable channel scan; timed entry channel selection; channel flashback; wireless remote for use with TV/VCR/teletext; 2 video inputs with stereo audio; one bridged video with stereo audio output; 2 audio outputs (one fixed level/one variable and switchable for amp or direct speaker connection); digital connection center; S14-source selector; RGB input; on-screen

displays; bass, treble, balance controls; extended stereo enhancement. Available



in table-top cube-style cabinet with slate color finish. 24.75" H × 26.75" W × 20" D ..... \$1,400  
**SC2793P.** Same as SC2793 with pecan-veneer finish cabinet ..... \$1,400  
**SC2749Y.** Same as SC2793 except has black-lacquer oriental-style console cabinet with swivel base; 32.75" H × 29" W × 20.75" D approx. .... \$1,700  
**SC2747P.** Same as SC2793 except has pecan veneer traditional-style console cabinet; 32.75" H × 31.25" W × 21.5" D approx. .... \$1,700  
**SC2791.** Same as SC2793 without Bose audio design. Features two 6.5" oval speakers. Available in slate or pecan approx ..... \$1,000

**SC2741X Stereo Television**

27-inch stereo TV with 178-channel capability and built-in stereo decoder. Features video filter; automatic color clarifier; sharpness control; quartz-con-

trolled electronic tuning; Computer Space Command 6500 infrared wireless remote control; on-screen audio display; up and down channel scanning; channel flashback feature; parental-control provision; 5-watt amplifier; two 6.5" round woofers, two 2.5" tweeters; separate bass, treble, and balance controls; auxiliary jack panel included. 30" high × 39.25" wide × 22.12" deep approx ..... \$1,300

**SC2731G Stereo Television**

27-inch full-square stereo TV with quartz-controlled electronic tuning. Features Computer Space Command 6500 wireless remote control; magic-touch tuning; timed entry channel selection; on-screen channel number display; on-screen time display; 178-channel direct-access cable-ready tuner; on-screen audio display; up and down channel scanning; channel flashback feature; parental control provision; 5-watt/ch amplifier; two 6.5" oval speakers; bass, treble, and balance controls. 29.31" H × 40.94" W × 18.12" D approx . \$1,100

**SC2729N Stereo Television**

27-inch full-square stereo television with Computer Space Command 6500 infrared wireless remote control. Features video filter; picture control; digital true-lock picture hold; quartz-controlled cable-ready electronic tuning; time entry channel selection; on-screen channel number display; on-screen time display 178-channel direct-access tuning; on-screen audio display; up and down channel scanning; channel flashback feature; parental control provision; 5-watt amplifier; two 7" oval speakers; separate bass, treble, and balance controls; auxiliary jack panel included. Approx .... \$1,050

## Video Cameras

## Video Cameras

(Continued from page 77)

**VK706 Color Video Camera**

Features mono microphone; color; auto iris; auto white balance; power zoom lens (8-48 mm); negative-positive reverse switch; backlight switch; compatible with VHS videocassette recorders. 0.5-inch black/white CRT viewfinder with dioptic adjustment. Minimum light 30 lux; horizontal resolution 260 lines; video signal-to-noise ratio greater than 45 dB . \$490

**SANYO****VSC800 Color Video Camera**

Solid-state color video camera with 6:1 power zoom lens. Features auto focus; one-inch electronic viewfinder with flip-up magnifier; power zoom lens (12.5-75 mm) with macro focusing; mono mike; auto iris; auto white balance; remote control of VCR; jacks for external microphone and earphone; minimum light 28 lux; horizontal resolution >260 lines; 5.88" W × 5.5" H × 7.5" D .... \$1,000  
**VSC700.** Same as VSC800 but without auto focus ..... \$700

**Accessories****VCT 70 Table Tripod Stand**

Designed for use with with Sanyo VSC 700/800. Features threaded camera adapter, portable ..... \$50

**VCT 80 Tripod**

Full tripod for VSC 700 or VSC 800 \$80

**VCA 45 Adapter**

AC adapter for VSC 700 or VSC 800. Separate outputs for video, audio, and VCR pause control ..... \$75

**VCP 70 Camera Bag**

Foam-lined case for VSC 700/800. . \$45

**PRICES LISTED**

are only the manufacturers' suggested retail prices  
 (also referred to as *list prices*):  
 actual selling prices are set by each dealer.  
 All prices are subject to change without notice.

# RECEIVER/MONITORS

## MITSUBISHI

### CS-2001R Receiver/Monitor

20-inch receiver/monitor with wireless remote control. Features 139-channel



cable-ready tuner; off timer; last-station recall; 1 audio/video input. 19.94" W × 18.12" H × 19" D; 50 lbs . . . . . \$470

### CS-2000 20" Color Receiver/Monitor

Table-top video receiver/monitor with pecan-grain finish and 20" Diamond Vision picture tube (APLC). Receives 139 VHF, UHF, CATV channels. Features random tuning system; cable-capable tuner; auto fine tune; 1 audio input; 1 video input. 19.94" W × 18.12" H × 19" D; 50 lbs . . . . . \$400

## NEC

### CT-1420 Receiver/Monitor

14-inch receiver/monitor with flat-square tube. Features 42-channel cable-ready quartz tuner; comb filter; non-glare screen; 18-function wireless remote-con-



trol; sleep-timer; LED channel indicator. Receives VHF, UHF, and 60 CATV channels. Horizontal resolution 340 lines; 1 audio/video input/output. 14.75" W × 14.75" H × 15.34" D; 26.49 lbs . . . \$500

## PANASONIC

### CTG-2085R Digital Receiver/Monitor

20" color receiver/monitor with picture-within-a-picture capabilities, freeze 92 VIDEO BUYERS' GUIDE 1987

frame for inserted picture, 2 RGB inputs for computer and teletext decoder, and data-grade picture tube. Features frequency-synthesis tuning; 3 audio inputs; 3 audio outputs; 3 video inputs; 3 video outputs; unified full-function remote with brightness, color, tint, digital, and VCR controls; headphone jack; earphone jack for insert picture; auto white balance. Receives 12 VHF, 56 UHF, 99 CATV channels. Horizontal resolution 400 lines; video input 1 V p-p at 75 ohms; audio input 0.5 V RMS at 47 kilohms. Stereo adaptable with optional MTS decoder (\$179). 19.81" W × 18.94" H × 20.38" D; 64.8 lbs . . . . . \$1,500

### CTG-2083R Color Receiver/Monitor

20" receiver/monitor with square-corner data-grade picture tube and built-in teletext decoder (NABTS). Features 2 audio inputs; 2 audio outputs; 2 video inputs; 2 video outputs; frequency-synthesis tuning; 44-button unified remote for TV, teletext, and VCR; programmable scan; rapid tune; sleep timer; SAW and comb filters. Receives 12 VHF, 56 UHF, 69 CATV channels. Horizontal resolution 400 lines. Stereo adaptable with decoder. 19.81" W × 18.94" H × 20.38" D; 63.8 lbs . . . . . \$1,500

### CTG-2567R Color Receiver/Monitor

25" receiver/monitor with Compufocus video system with comb and SAW filters. Features 1 audio input; 1 video input; 20-function detachable remote; programmable scan; sleep timer; on-screen display; dual VHF antenna; two speakers; parental guidance control. Receives 12 VHF, 56 UHF, 99 CATV channels. Horizontal resolution 400 lines. Stereo adaptable with decoder. Modern-style cabinet with oak finish and swivel base. 27.38" W × 34.36" H × 20.69" D; 130 lbs . . \$1,000

### CTH-2560R Color Receiver/Monitor

25" receiver/monitor with Compufocus video system with comb and SAW filters. Features 1 audio input; 1 video input; 32-button remote for TV and VCR; unified remote tuning; programmable scan; sleep timer; rapid tune; 2 speakers. Receives 12 VHF, 56 UHF, 99 CATV channels. Horizontal resolution 400 lines. Stereo adaptable with decoder. 24.75" W × 22.44" H × 19.36" D; 88 lbs . . . . . \$850

### CTG-2530R Color Receiver/Monitor

25" table-top receiver/monitor with Compufocus video system with comb and SAW filters. Features 1 audio input; 1 video input; frequency-synthesis tuning; programmable scan; sleep timer; 2 speakers. Receives 12 VHF, 56 UHF, 99

CATV channels. Horizontal resolution 400 lines. Stereo adaptable with decoder. Medium-oak woodgrain cabinet. 26.06" W × 23.12" H × 19.62" D; 88 lbs . . . . . \$599

### CTH-2053R Color Receiver/Monitor

25" receiver/monitor with Compufocus video system with comb and SAW filters and square-corner picture tube. Features 1 audio input; 1 video input; frequency-synthesis tuning; 20-function clip-on remote control; programmable scan; sleep timer; rapid tuner; CATV master antenna. Receives 12 VHF, 56 UHF, 99 CATV channels. Horizontal resolution 400 lines. Stereo adaptable with Panasonic TUG-3010S decoder. 19.88" W × 19.25" H × 18.88" D; 52 lbs . . . . . \$580

### CT-515B Receiver/Monitor

5" portable receiver/monitor with 3-way operation (AC adapter, DC rechargeable, or DC vehicle). Features audio/video input and output jacks; electronic tuning; station search; earphone; muting circuitry to automatically cut out noise on empty channels; tinted screen cover; external antenna terminal. Receives 12 VHF, 56 UHF channels. Red finish. 6.18" W × 6.12" H × 11" D; 5.5 lbs . . . . . \$500

**CT-516S.** Same as above with silver finish . . . . . \$500

Optional designer stand for CT-515B/CT-516S . . . . . \$49

### CTH-1463R Color Receiver/Monitor

14" receiver/monitor with Compufocus video system with SAW filter and square-corner picture tube. Features 1 audio input; 1 video input; frequency-synthesis tuning; 21-function clip-on remote control; programmable scan; programmable on/off timer; rapid tuner; CATV master antenna connector; parental guidance control; on-screen display. Receives 12 VHF, 56 UHF, 99 CATV channels. 14.69" W × 14.18" H × 15.88" D; 29 lbs . \$500

### CTH-2023R Color Receiver/Monitor

20" receiver/monitor with Compufocus video system with SAW filter and square-corner picture tube. Features 1 audio input; 1 video input; frequency-synthesis tuning; programmable scan; CATV master antenna connector. Receives 12 VHF, 56 UHF, 99 CATV channels. Stereo adaptable with TUG-3010S decoder. 19.25" W × 19.88" H × 18.88" D; 52 lbs . . . . . \$480

## Accessories

**TUG-3010S.** MTS/SAP stereo decoder for Panasonic stereo-adaptable receiver/monitors . . . . . \$179



## QUASAR

## TU9840YK Receiver/Monitor

26-inch color receiver/monitor with sleep timer, channel check, and channel censor. Set decodes multichannel TV stereo signal with addition of DC4300YA stereo decoder by owner. Features two 4" × 6" speakers; 20-function remote control. Receives 12 VHF, 56 UHF, 87 CATV channels. 32.25" W × 30" H × 17.88" D; 126 lbs. .... \$720

## TT9804AU Receiver/Monitor

25-inch color receiver/monitor with 155-channel tuning, sleep timer, and channel check. Set decodes multichannel TV stereo signal with addition of DC4300 stereo decoder by owner. Features 20-function remote control; one audio left/right, one video input; audio left/right through-out, video through-out outputs; two 4" × 6" speakers; remote RF switching. Receives 12 VHF, 56 UHF, 87 CATV channels. 25.25" W × 23.5" H × 21.25" D; 93 lbs. .... \$690

## TT6278YW Receiver/Monitor

20-inch color receiver/monitor with full-square tinted screen, 155-channel tuning, sleep timer, and channel check. Set decodes multichannel TV stereo signal with addition of DC4300YA stereo decoder by owner. Features remote control; 75/300-ohm video input and through-out; audio input and through-out. Receives 12 VHF, 56 UHF, 87 CATV channels. 20" W × 18.62" H × 20.25" D; 55 lbs. ... \$480

## TT6277YW Receiver/Monitor

20-inch color receiver/monitor with full-square tinted screen, 155-channel tuning, sleep timer, and channel check. Set decodes multichannel TV stereo signal with addition of DC4300YA stereo decoder by owner. Features 75/300-ohm input; 6.25" × 2.25" speakers; 19-function remote control. Receives 12 VHF, 56 UHF, 87 CATV channels. 20" W × 18.62" H × 20.25" D; 54 lbs. .... \$470

## TP3959YQ Receiver/Monitor

14-inch remote control receiver/monitor. Features 155-channel cable-ready tuner; channel censor; sleep timer; on-screen display of channel, time, remaining time on sleep timer; programmable channel scan; audio/video input/output jacks. 14.75" H × 14.81" W × 16.25" D; 28.36 lbs. .... \$450

## UP1775E/H Receiver/Monitor

7-inch portable color receiver/monitor. Features AC/DC operation; audio/video inputs; auto-search electronic VHF/UHF

tuner with on-screen bar channel indicator; built-in VHF/UHF antenna; external antenna terminals; glare-guard filter. Includes AC and car adapter cord. Available in black or white. 7.94" H × 9.31" W × 11.75" D; 11.62 lbs. .... \$430

## UP1325YE Receiver/Monitor

3.3-inch portable color receiver/monitor. Features three-way operation AC/DC/battery; audio/video inputs; VHF/UHF/mid-band cable tuner; 7-position electronic pushbutton tuning. Includes rechargeable battery pack, AC adapter, car cord. 5.5" H × 8" W × 8.12" D; 8.25 lbs. .... \$410

## TT4278YW Receiver/Monitor

16-inch receiver/monitor with remote control. Features audio/video input/through-out jacks; 155-channel cable-ready tuner; auto color system with light sensor; square-corner picture tube; remote control with programmable channel scan; sleep timer; previous channel recall. Includes VHF dipole antenna and UHF bow-tie antenna. 16.25" H × 16.5" W × 17.25" D. .... \$390

## RCA

## FMR623R Monitor/Receiver

25-inch table-top monitor/receiver with direct-access cable-ready quartz tuning. Features 18-button remote control; programmable channel scan; 110° COTY picture tube; Hi-Con picture tube screen; audio/video input/output; light sensor; on-screen channel/time display. Includes one 2" and two 4" speakers. Ebony or oak (FMR622R) finish cabinet. 21.75" H × 25.5" W × 18.25" D. .... \$579

## RADIO SHACK

## 16-232 Receiver/Monitor

Receiver/monitor with IR remote control. Screen size 13 inches; horizontal resolution 320 lines; receives VHF, UHF, and CATV channels. Features comb filter; PLL tuning system; 1 audio input; 1 audio output; 1 video input; 1 video output. 13" W × 14.5" H × 14.62" D. .... \$350

## 16-107 Portavision Receiver/Monitor

Screen size 5.5-inches (measured diagonally); electronic tuning system; 1 audio input; 1 audio output; 1 video input; 1 video output; 7.31" W × 6.5" H × 12.36" D. .... \$300

## SHARP

## 26LC276 Monitor/Receiver

26-inch remote control console monitor/receiver. Features 26" square-cornered, high-contrast, Linytron picture tube; MTS adapter jack; audio/video input jacks; quartz-synthesized 110-channel cable-ready tuner; 19-key random-access infrared remote control; LED channel indicator; channel flashback; two-way antenna inputs; CATV jack; automatic color system; automatic fine tuning; one-button picture balance control; surface acoustic wave filter to reduce "ghosts" and phase distortion;

simulated woodgrain cabinet. Includes 75/300 ohm antenna adapter. .... \$900

## 26LV56 Monitor/Receiver

26-inch remote control monitor/receiver. Features 26" square-cornered, high-contrast, Linytron picture tube; MTS adapter jack; high resolution comb filter; audio/video input jacks; quartz-synthesized 110-channel cable-ready tuner; 19-key random-access infrared remote control; LED channel indicator; channel flashback; two-way antenna inputs; CATV jack; automatic fine tuning; one-button picture balance control; surface acoustic wave filter; black cabinet. Includes 75/300 ohm antenna adapter. .... \$780

## 20LV56 Monitor/Receiver

20-inch remote control monitor/receiver. Features 20" flat, square-cornered, high-contrast, Linytron picture tube; MTS adapter jack; high resolution comb filter; audio/video input jacks; quartz-synthesized 110-channel cable-ready tuner; 19-key random-access infrared remote control; LED channel indicator; channel flashback; two-way antenna inputs; CATV jack; automatic fine tuning; one-button picture balance control; surface acoustic wave filter; detachable VHF dipole, UHF bow-tie antennas; black cabinet. Includes 75/300 ohm antenna adapter. .... \$600

## 14LV76 Monitor/Receiver

14-inch remote control monitor/receiver. Features 14" flat, square-cornered, high-contrast, Linytron picture tube; MTS adapter jack; high resolution comb filter; audio/video input jacks; RGB terminal; quartz-synthesized 110-channel cable-ready tuner; 18-key random-access infrared remote control; LED channel indicator; channel flashback; two-way antenna inputs; CATV jack; automatic fine tuning; one-button picture balance control; surface acoustic wave filter; detachable VHF dipole, UHF bow-tie antennas; mini headphone jack; black cabinet. Includes 75/300 ohm antenna adapter. .... \$510

## 14LV66 Monitor/Receiver

14-inch remote control monitor/receiver. Features 14" flat, square-cornered, high-contrast, Linytron picture tube; MTS adapter jack; high resolution comb filter; audio/video input jacks; quartz-synthesized 110-channel cable-ready tuner; 18-key random-access infrared remote control; LED channel indicator; channel flashback; two-way antenna inputs; CATV jack; automatic fine tuning; one-button picture balance control; surface acoustic wave filter; detachable VHF dipole, UHF bow-tie antennas; mini headphone jack; available in black, red or silver cabinet. Includes 75/300 ohm antenna adapter. .... \$460

## 3LS36 Monitor/Receiver

3.5" AC/DC portable monitor/receiver. Features 3.5"-square fine-pitch Linytron picture tube with tinted front screen; continuous electronic tuning; on-screen bar channel display; audio/video input/output jacks; mini earphone jack; auto-

These listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses are given in the directory beginning on page 43.

matic fine tuning; one-button picture balance; Includes AC adapter, car battery cord, telescoping VHF/UHF antenna and external antenna adapter ..... \$430

#### 5LS36 Monitor/Receiver

5" AC/DC portable monitor/receiver. Features 5"-square fine-pitch Lynitron picture tube with tinted front screen; continuous electronic tuning; on-screen bar channel display; audio/video input/output jacks; mini earphone jack; auto-matic fine tuning; one-button picture balance; AC/DC three way operation; top-mounted carry handle. Includes AC adapter, car battery cord ..... \$410

#### SAMSUNG

#### TC-20105 Monitor/Receiver

19-inch cable-ready monitor/receiver with slotted-mask black-matrix tube. Features audio/video input; quick-start in-line gun; MTS jack; wireless remote. Receives VHF, UHF, 57 CATV channels; 20" W × 19" H × 20" D; 56 lbs .. \$450

#### TC-9833T Monitor/Receiver

19-inch cable-compatible monitor/receiver with random-access tuning. Features audio/video input; ear-phone jack. Receives VHF, UHF, 57 CATV channels; 19" W × 17" H × 18" D; 18.8 lbs.

#### C5101MA Monitor/Receiver

5-inch receiver/monitor uses standard AC or 12 volts DC power. Features quick-start in-line gun CRT and electronic varactor tuner. 8" W × 5" H × 13" D; 9 lbs ..... \$260

#### SANYO

#### AVM 258 Receiver/Monitor

Color receiver/monitor with 25-inch screen (measured diagonally); horizontal resolution 400 lines; receives 12 VHF, 70 UHF, 30 CATV channels; direct-access frequency-synthesizer tuning system; comb filter; 17-function remote control; video bandwidth 4-5 MHz; 1 audio input; 1 audio output; 1 video input; 1 video out-

put. Audio power amp: FR 70-15,000 Hz at 1% THD. 104 lbs ..... \$599

#### SCOTT

#### HT-200 Receiver/monitor

20" receiver/monitor with square-corner tube and comb-filter video circuitry. Features 11-function wireless remote control; quartz-synthesizer tuner; on-screen channel/time display; programmable timer; auto-color; removeable tempered-glass glare-filter. Horizontal resolution 400 lines. Receives VHF, UHF, 139 CATV channels. 1 audio output; 1 video input/output. 19.75" × 17.4" × 19.25" . \$530

#### HT-190 Receiver/monitor

19" receiver/monitor with in-line gun, black-matrix tube and comb-filter circuitry. Features 11-function wireless remote control; on-screen channel/time display; auto-color; removeable tempered-glass glare filter; 1 audio output; 1 video input/output; cable-ready quartz tuner; 19.88" W × 17" H × 19" D; 48 lbs \$480

# 7 COLOR MONITORS

#### HARMAN KARDON

#### VM-100—Featured on Cover

High-resolution video monitor. Features brightness and contrast stabilizing circuit; transient-response enhancement circuitry. Screen size 25 inches (measured diagonally); horizontal resolution 400 lines; 3 video inputs; 1 video output. 25" W × 22.06" H × 19" D; 94.4 lbs ..... \$799

#### PIONEER

#### SD-25A Video Monitor

25-inch high-resolution expandable TV monitor. Features 400 horizontal lines of resolution; 5 MHz video bandwidth; multi-function on-screen display; proprietary red phosphor CRT; 3 video inputs with stereo audio; 2 video outputs with stereo audio; built-in speakers and 10 W/ch amplifier; surround sound decoder and variable audio outputs for hi-fi; tinted front glass and tinted CRT; 24.31" W × 22.06" H × 19.56" D. Includes Pioneer SD-X7 tuner pack. Tuner pack features 139 channel cable-capability; MTS-stereo decoder; two RF inputs ..... \$1,300

#### PROTON

#### P602M Color Monitor

Color monitor with 25" screen; horizontal

resolution 380 lines; video bandwidth >4.7 MHz; 5% overscan; geometric distortion 0.7%. Features 1 audio input; 1 audio output; 1 video input; 1 video output; comb filter; ultra-stable power supply; 10-watt stereo amplifier; high black level retention; automatic shut-down. Built-in audio power amplifier: frequency response 40-12,000 Hz ± 3 dB. 26" W × 23" H × 20.5" D ..... \$899

#### P600M Color Monitor

Color monitor with 19-inch screen. Horizontal resolution 370 lines; video bandwidth >4.7 MHz; 5% overscan; geometric distortion 0.7%. Features 1 audio input; 1 audio output; 1 video input; 1 video output; high-performance comb filter; precision deflection yoke; ultra-stable power supply; auto shut-down; high black-level retention; 7-watt stereo amplifier. Audio power amp: FR 40-12,000 Hz ± 3 dB. 21.5" W × 18" H × 19" D; 70 lbs ..... \$549

#### SHARP

#### 26LV96 Video Monitor

26" monitor included in System 96 A/V system. Monitor features 26" flat-square, fine-pitch, Lynitron plus picture tube with removable tinted glass screen; horizontal resolution up to 500 lines; high resolution

comb filter; on-screen display of channel, time, sleep timer, time remaining, sound volume level, type of input; video input/monitor output connectors; video controller connection terminal; viewing angle adjustment controls; one-button picture balance control; surface acoustic wave filter (reduces ghosts and phase distortion); high gloss black cabinet. Also included in system: AN2000U video controller; AN96SP speakers. Video controller features built-in MTS decoder; built-in 30 W/ch amplifier; ambient stereo output jack for surround sound systems; quartz-synthesized 140 channel cable-ready tuner; 38-key TV/VCR random access remote control; channel flashback; sleep timer; bass, treble, balance control; external speaker jacks; 3 audio/video inputs and dual outputs; audio line input jacks; headphone jack ..... \$2,300

#### TATUNG

#### 2700M Monitor

27" color monitor with 375-line horizontal resolution. 26.22" W × 23.36" H × 20" D; 101.2 lbs ..... \$1,099

#### 2000M Monitor

20" color monitor with 375-line horizontal resolution. 20.25" W × 19.06" H × 19" D; 53.5 lbs ..... \$599



# 8 VIDEO TUNERS

## MULTIVISION

### 3.1 Tuner

Converts any TV to a digital, MTS stereo set. Features picture-in-a-picture (PIP); connects to video or RF input of TV; inset image can be scanned, moved, varied in size, or frozen; built-in MTS decoder and audio amplifier directly drive speakers; includes line feed; wireless remote control of all features plus video switching for VCR and one additional source. Receives 12 VHF, 69 UHF, 70 CATV channels; 2 stereo audio inputs; 2 audio outputs; 2 video inputs/outputs ..... \$499

## PIONEER

### SD-X7 Tuner

Tuner module pack included with SD-25A 25-inch video monitor. Features 139-channel cable tuning; MTS decoder; 2 RF inputs. Monitor features multi-function on-screen display; proprietary red phosphor CRT; 3 video inputs with stereo audio; 2 video outputs with stereo

audio; built-in speakers and 10-watt-per-channel audio amplifier. Surround sound decoder, variable audio outputs \$1,300

## PROTON

### 601T Stereo Video Tuner

Video tuner with built-in MTS/SAP decoder. Features 3 audio inputs; 4 audio outputs; 3 video inputs; 4 video outputs; 139-channel digital PLL tuning; simultaneous view and record for all sources; electronic-controlled front-loading door; remote control; last-channel recall; FM simulcast; built-in stereo; SAP.... \$450

## SHARP

### AN2000U Video Tuner

Video tuner with built-in MTS decoder included in System 96 A/V system. Tuner features built-in MTS decoder; built-in 30 W/ch amplifier; ambient stereo output jack for surround sound systems; quartz-synthesized 140-channel cable-ready tuner; 38-key TV/VCR random-access

remote control; channel flashback; sleep timer; bass, treble, balance control; external speaker jacks; 3 audio/video inputs and dual outputs; audio line input jacks; headphone jack. Also included in system: 26LV96 26" video monitor; AN96SP speakers. Monitor features 26" flat-square, fine-pitch, Lynitron plus picture tube with removable tinted glass screen; horizontal resolution up to 500 lines; high-resolution comb filter; on-screen display of channel, time, sleep timer, time remaining, sound volume level, type of input; video input/monitor output connectors; video controller connection terminal; viewing angle adjustment controls; black cabinet ..... \$2,300

## TATUNG

### 2700T Video Tuner

Frequency-synthesis tuner with 3 audio inputs, 2 audio outputs, 3 video inputs, 2 video outputs, and built-in MTS decoder for stereo broadcasts. Receives 12 VHF, 70 UHF, and 63 CATV channels .. \$399

# 9 VIDEODISC PLAYERS

## PIONEER

### CLD-900 CD/LV Player

Plays 12-, 8-inch LaserDiscs, Compact Discs. Features digital sound for videodiscs encoded with digital sound; stereo sound; CX noise reduction; remote control; forward scan; backward scan; still/step control; 1/2, 1/4, 1/8, 1/16 slow-speeds; solid state laser system; connections for computer/video games; Video section: horizontal resolution >350 lines; video signal-to-noise ratio 42 dB. Digital audio section: FR 5-20,000 Hz  $\pm$  0.5 dB; output level 260 mV; THD 0.003% at 1,000 Hz; S/N 96 dB. Analog audio section: Frequency response 20- 20,000 Hz  $\pm$  3 dB; output level 260 mV; S/N >70 dB with CX. 16.56" W  $\times$  6.62" H  $\times$  17.62" D; 34 lbs, 4 oz ..... \$1,200

### CLD-909—Featured on Cover

Combination CD/LaserVision player plays 12-, 8-inch LaserDiscs and Compact Discs. Features high-resolution video reproduction (400 lines); semiautomatic front loading; flawless tracking of CLV discs using special tilt servo; new "swing mechanism" for compact cabinet size; increased CD tracking abilities; programmable for CD/LaserVision playback



(10 tracks/10 chapters); time search capability accurate to one second; chapter skip; chapter repeat; CD subcode output; on-screen display; wireless remote con-

trol; high reliability drive system; improved CD sound; digital sound Laser-Disc playback; digital audio FR 4-20,000 Hz  $-$  1.0 dB,  $+$  0.5 dB (EIAJ); S/N 98 dB; dynamic range >95 dB; channel separation >92 dB; total harmonic distortion <0.005%; 16.56" W  $\times$  4.69" H  $\times$  16.03" D; 25 lbs, 6 oz ..... \$900

### LD-700 Videodisc Player

Front-loading videodisc player with solid-state laser. Features slow/fast motion and freeze frame; stereo sound; CX noise reduction; remote control; forward scan; backward scan; still/step control; slow-speed control; pause control; frame/time display; random access; chapter display control; connections for computers/video games. 16.56" W  $\times$  4.75" H  $\times$  16.5" D; 27 lbs, 5 oz ... \$500

# 10 PROJECTION TV

## GENERAL ELECTRIC

### 40HP5000K Projection TV

Rear-projection color TV with built-in 20-watt stereo amplifier. Stereo/bilingual broadcast adaptable. Programmable wireless remote control operates TV and some GE videocassette recorders. Features Sound-Plus audio-enhancement system; video and audio jack pack; cabinet of oak solids and veneers; optional coordinate cabinet available; 139-channel electronic tuning; last-channel-viewed control; sleep timer. Screen size 40" diagonal, 789 square inches. Floor space required 5.6 square feet; ceiling height required 4 feet. 47.88" H × 37.56" W × 21.75" D; 203 lbs ..... \$3,000

## GOLDSTAR

### PJT-4588 Projection Television

45" rear-projection TV with 139 cable-ready tuning. Features audio/video terminals; comb filter; built-in MTS/SAP; on-screen display of channel and time; 90-minute sleep timer; remote control; three lenses; 4 speakers. Floor space required 6.9 square ft; ceiling height required 4.6 ft; 264 lbs ..... \$3,999

## HARMAN KARDON

### VPM-500 Projection Television

Projects picture from 4' to 20' diagonally on a user-selectable flat or curved screen mounted from a floor or ceiling position. Features dual-stage hybrid lens assembly for better edge focus; linear phosphor and color demodulator for improved color registration; 7" tubes. Includes 37-function remote control; built-in stereo amp and speakers; RGB input; stereo synthesizer; on-screen convergence from remote. Light output 350 lumens; resolution 400 lines, 600 lines RGB. Requires 4 square feet of floor space. 77 lbs ..... \$4,795

## HEATHKIT

### GR-4500 Projection Television Kit

45" rear-projection television kit with stereo. Kit may be assembled in 20 hours. All circuit boards except one are factory built and tested. Features liquid-cooled CRT; cable-ready tuner; black-matrix screen. Remote control includes channel-lockout for parental control, flashback feature between two channels, and VCR functions. Audio frequency response 100-10,000 Hz into 8 ohms (less than 2% THD); 5-W/ch amp; 6.5" and 2.5" speakers. Requires 7.8 square ft floor space; 270 lbs ..... \$1,695

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## INFINITY

### RS-TV Projection Television

5-15 foot projection television with built-in surround sound decoder. Features 10 W/ch amplifier; 178-channel cable-ready tuner; built-in MTS decoder; wireless remote control; on-screen graphics; fine



furniture finish; 2 RF inputs; 2 video inputs; RGB; TTL; horizontal resolution >400 lines; light output >250 lumens; floor or ceiling mount. Approx 110 lbs ..... \$4,999

## KLOSS

### Video Beam 3000

7 to 10 foot professional projection data monitor. Features 3 Novatron II projection tubes with spherical phosphor target and integrated Schmidt optical system and CRT; NTSC, RGB/Analog and RGB/TTL inputs; horizontal and vertical lockup; automatically varied horizontal and vertical scan frequencies for control boards; floor or ceiling mount; aluminum carry case. 29.36" H × 25" W × 9" D; 70 lbs ..... \$7,500

### Novabeam 100

5 to 15 foot projection receiver/monitor. Features three novatron picture tubes; Farudja image processing circuitry; digital wireless remote control; stereo sound system; floor or ceiling mount. 11" H × 26" W × 28" D; 80 lbs \$3,990-\$4,295

## MAGNAVOX

### RG8575BK Projection Receiver/Monitor

37-inch projection receiver/monitor with built-in MTS decoder. Features 180 degree black matrix screen (180° viewing angle); 33-button TV/VCR/CATV wireless remote control; 170 foot lamberts peak brightness level; 7-inch liquid cooled tubes; optically-coupled lens system; switchable TTL/analog capability; on-screen time/channel/function display; 178-channel random-access cable-ready tuner; programmable channel scan; last station recall; on-screen captioning; pa-

rental control; AFT; comb filter; auto color circuit; personal preference control setting memory; sleep timer; expanded mono/stereo sound; remote RF switching; two 5" woofers, two 2" tweeters; 10 W/ch stereo amplifier (at 8 ohms from 50-20,000 Hz with no more than 0.5% THD); bass, treble and balance controls; two sets of video/stereo audio inputs with bridged outputs; tuner video output; tuner monaural audio output, stereo audio output; external speaker terminals; 9-pin RGB input; composite sync output; blanking input; normal/overlay switch. Metallic-grey contemporary cabinet; 36" W × 40" H × 20.5" D ..... \$2,399

### RG8501AK Projection Receiver/Monitor

37-inch rear-projection receiver/monitor with built-in MTS decoder. Features wireless TV/VCR remote control; 120 degree black matrix screen; 152-channel random-access cable-ready tuner; programmable channel scan; last channel recall; liquid-cooled optically-coupled



lens system; comb filter; room light monitor; auto fine tuning; 400/330 line resolution (composite/tuner); two 4" × 6" speakers; bass, treble and balance controls; video/stereo audio input/output jacks. Contemporary oak-finish cabinet with recessed casters. 33" W × 40" H × 20" D ..... \$1,999

## MITSUBISHI

### VS-581R Projection Television

50-inch rear-projection TV with MTS stereo decoder. Features remote control with illuminated keyboard; black-matrix anti-reflective screen; 120° viewing angle; comb filter; 2 RF inputs; bass, treble and loudness controls; off timer; program timer; programmable channel memory; 139-channel cable-ready random-access tuner; 2 video inputs with stereo audio; 1 video output; 1 stereo audio output; last channel recall; on-screen display. Oak veneer wood cabinet with bi-fold doors ..... \$3,800



**VS-461RS Projection Television**

45-inch rear-projection television with built-in MTS decoder. Features remote control with illuminated keyboard; black-matrix anti-reflective screen; 120° viewing angle; 235 FL brightness; comb filter; 2 RF inputs; bass, treble and loudness controls; off timer; program timer; programmable channel memory; 139-channel cable-ready random-access tuner; 2 video inputs with stereo audio; 1 video output; 1 stereo audio output; last channel recall; on-screen display. Oak veneer wood cabinet with bi-fold doors ..... \$3,300

**VS-408RS Projection Television**

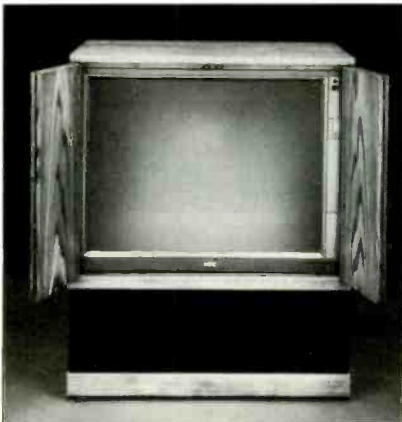
40-inch rear-projection television with built-in MTS decoder. Features 300 FL brightness; 120° viewing angle; black-matrix anti-reflective screen; 2 video inputs with stereo audio; 1 audio/video output; wireless remote with illuminated keys; 139-channel random-access cable-ready tuner. Genuine pecan-veneer cabinet with bi-fold doors. 49" H × 40.88" W × 30.12" D; 255 lbs ..... \$3,000  
**VS-407RS.** Same as 408 but with oak-veneer cabinet ..... \$3,000

**VS-363R Projection Television**

36-inch rear-projection television with built-in MTS decoder. Features 36" washable screen; 180 FL brightness; comb filter; 400-line resolution; cable-ready tuner; 2 video inputs with stereo audio; 1 audio/video output; on-screen display; programmable channel scan; bass, treble, loudness, and balance control; off timer. 46.5" W × 34.4" H × 24.4" D; 143 lbs ..... \$2,100

**NEC****PJ-4650 Stereo Projection TV**

46-inch projection television. Features liquid-cooled CRT; 142-channel cable-ready tuner; sleep-timer; full-function



remote-control; on-screen channel/time display; built-in MTS stereo with SAP; simulates stereo from a mono signal; 10 watts-per-channel stereo amp with 2-way speaker system; 2 RF inputs, 1 RF output; 2 video/stereo inputs. Horizontal resolution 600 lines; comb filter; receives VHF, UHF, 61 CATV channels; 120° viewing angle; relative illumination 25%; 7" CRT with magnetic focus; brightness at center 280-ft lamberts; cabinet with folding shutters; 318.5 lbs ..... \$3,400

**PJ-4100 Stereo Projection TV**

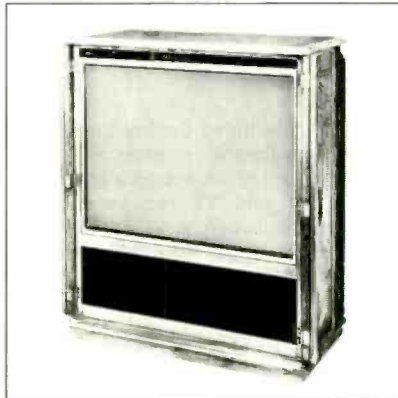
41-inch projection television. Features liquid-cooled CRT; 142-channel cable-ready tuner; sleep-timer; full-function remote; on-screen channel/time display; built-in stereo with SAP; simulates stereo from a mono signal; 10 watts-per-channel stereo amp with 2-way speaker system; 2 AV inputs; 1 monitor out with audio; 1 loop out; 2 RF inputs; 1 RF output; set of audio outputs. Horizontal resolution 500 lines; comb filter; receives VHF, UHF, 61 CATV channels; 120° viewing angle; 6.5" CRT; 40.62" W × 47.19" H × 25.40" D (with casters); 174.4 lbs \$2,800

**PJ-3715 Stereo Projection TV**

Similar to PJ-4100 with 37-inch screen; 130° viewing angle; brightness 180-ft lamberts; horizontal resolution 400 lines; 5.5" CRT; 35.09" W × 41.12" H × 21" D (with casters); 125.4 lbs ..... \$2,400

**PANASONIC****PTH-4583R Stereo Projection TV**

45" projection TV with optically coupled lenses and liquid-cooled picture tubes.



Features comb and SAW filters; black matrix screen; built-in stereo amp; 2-way 4-speaker sound system; 3 sets of audio/video input jacks; program out jacks; TV out jacks; auto-out-to-amp jacks; cable-ready 155-channel tuning; dual VHF antenna; parental guidance control; bass, treble, and balance controls; sleep timer; rapid tune; programmable scan; on-screen display; 22-function unified remote for TV and VCR. Audio output 10 W/ch from 60-15,000 Hz with no more than 1% THD; 250 foot-lamberts peak high-light brightness. Heartwood-pecan woodgrain cabinet with full-length doors. 51.36" H × 42.5" W × 27" D; 269 lbs ..... \$3,300

**PTG-4073R Stereo Projection Television**

40" projection TV with built-in stereo reception. Features 2 sets audio/video input jacks; 1 set audio/video output jacks; variable audio output jacks; cable-ready 155-channel tuner; parental guidance control; on-screen display; bass, treble, and balance controls; programmable scan; external speaker jacks; 33-button unified remote. Audio output 10 W/ch from 40-13,000 Hz with no more than 1% THD; 200 foot-lamberts brightness. Contemporary-style oak cabinet with doors. 45.88" H × 37.44" W × 22.5" D; 240 lbs ..... \$3,000

**PTH-3778R Stereo Projection Television**

37" projection TV with built-in stereo. Features 1 set audio/video input jacks; 2 sets audio/video output jacks; variable audio output jacks; cable-ready 155-channel tuner; dual VHF antenna; parental guidance control; sleep timer; unified remote control. Audio output 5 W/ch from 60-15,000 Hz with no more than 1% total harmonic distortion; 250 foot-lamberts brightness. 45" H × 34" W × 22" D; 173 lbs ..... \$2,500

**PHILCO****P8237AAK Projection Television**

37-inch rear-projection receiver/monitor with built-in MTS decoder. Features wireless TV/VCR remote control; 120 degree black matrix screen; 152-channel random-access cable-ready tuner; programmable channel scan; last channel recall; liquid-cooled optically-coupled lens system; comb filter; room light monitor; auto fine tuning; 400/330 line resolution (composite/tuner); two 4" × 6" speakers; video/stereo audio input/output jacks. Contemporary oak-finish cabinet with recessed casters. 33" W × 40" H × 20" D ..... \$1,999

**PIONEER****SD-P40 Projection Monitor/Receiver**

40" rear-projection monitor/receiver with built-in MTS stereo decoder. Features 450 lines of horizontal resolution; liquid-cooling/liquid-coupling multi-coated lens system; double lenticular screen for low color shift; black level stabilizer; comb filter linear-tracking focus circuit; velocity modulation; wireless remote control; multi-function on-screen display; 139-channel cable-capable tuner; 2 RF inputs for cable and premium channels; 3 video inputs with stereo audio; 2 video outputs with stereo audio; 12-W/ch amplifier and speakers ..... \$3,500

**QUASAR****PR5585AK Projection Television**

45-inch projection television with built-in MTS/SAP decoder. Features TV/VCR unified remote control; auto color system with light sensor; 155-channel cable-ready tuner; L/R audio input/output; L/R variable audio output; video input/output jacks; comb filter; 330/400 line resolution (tuner/direct video source); 5 W/ch stereo amplifier; 2 RF inputs with remote switching; sleep timer; previous channel recall; channel censor; two five-inch speakers; bass, treble and balance controls; contemporary oak finish cabinet with bi-fold doors. 49.75" H × 42.25" W × 27" D ..... \$3,200

**PR5525AU Projection Television**

Similar to PR5585AK minus cabinet. 48.88" H × 88" W × 27.5" D .. \$3,000

**PR498JYP Projection Stereo Television**

40-inch projection color stereo TV. Set decodes multichannel TV stereo signal

(Continued on page 112)

# AUDIO/VIDEO PROCESSORS

## AKAI

### SS-V20 Audio/Video Selector

Features built-in 4.5" color monitor; contrast control; 2 outputs; 6 inputs; RF video/audio conversion; direct connections between VCR and TV receiver or monitor; switcher selection between 6 sources; monitor selector for left and right channels or LR; headphone jack; record source selector. Can operate during recording and playback. Audio FR 20-30,000 Hz  $\pm 1$  dB; video FR 50 Hz-6 MHz  $\pm 1$  dB. 17.3" W  $\times$  3.9" H  $\times$  12.6" D; 16.1 lbs ..... \$850

### PS-V20 Audio/Video Processor

Features joystick control; fade control; contrast control; 2 outputs; 1 input; DNR noise reduction; connection between two VCRs; eliminates stretches of picture snow on videotape; reduces noise; eliminates copyguard; colorizer; synthesized stereo mike mixing; color correction; provides video gain and can operate during recording and playback. Audio FR 20-20,000 Hz  $\pm 3$  dB; luminance S/N 45 dB. 17.5" W  $\times$  2.6" H  $\times$  10.2" D; 8.4 lbs \$510

### SS-V5 Audio/Video Selector

Audio/video selector with unique signal flow display. Features 1 output; 5 inputs; RF video/audio conversion; direct connection between VCR and TV receiver or monitor; switcher selection between 5 sources; monitor selector for left and right channels or LR. Can operate during recording and playback. Audio FR 20-30,000 Hz  $\pm 1$  dB; video FR 50 Hz-6 MHz  $\pm 1$  dB. 17.3" W  $\times$  2.5" H  $\times$  10.2" D; 7.3 lbs ..... \$290

### D1-V5 Audio/Video Distributor

Features 5 outputs; 1 input; direct connection between VCR and TV receiver or monitor; monitor selector for left and right channels or LR. Can operate during recording or playback. Audio frequency response 10-50,000 Hz  $\pm 3$  dB; luminance signal-to-noise ratio 70 dB; video frequency response 50 Hz-10 MHz  $\pm 3$  dB. 17.3" W  $\times$  2.6" H  $\times$  10.2" D; 6.8 lbs ..... \$220

## APHEX SYSTEMS

### AVM-8000 Surround Sound Decoder

Decodes any stereo input into as many as 8 outputs. Surround sound modes include: SQ-8, Dolby-compatible cinema, stereo enhance, and by-pass. Full-featured remote-control for volume, mute, balance, power on/off. Audio frequency response from 10-40,000 Hz  $\pm 0.5$ ; 17"  $\times$  1.75" H  $\times$  9" D ..... \$895

## ARCHER by RADIO SHACK

### 15-1272 Audio/Video Processor

Enables on-screen comparison of processed and original signals. Features fade control; 2 outputs; 2 inputs; RF video/audio conversion; direct connection between VCR and TV receiver or monitor; connects between 2 VCRs; reduces noise; switcher selects between 2 sources; eliminates copyguard; can operate during recording and playback. 9.94" W  $\times$  2.25" H  $\times$  6.36" D ..... \$100

### 15-1278 Audio/Video Processor

Features surround sound; stereo synthesizer, stereo expander, receiver in/out jacks; on/off delay eliminates 'pops'; DNR noise reduction. 9.94" W  $\times$  2.25" H  $\times$  6.36" D ..... \$90

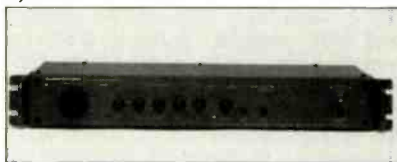
### 15-1263 Audio/Video Control Center

Features switchable processor loop; 4 outputs; 4 inputs; direct connection between VCR and TV receiver/monitor; connection between 2 VCRs; switcher selection between 4 sources; operation during recording or playback. 9.88 W  $\times$  2.25" H  $\times$  6.12" D ..... \$70

## AUDIO CONTROL

### Video Soundtracker II

Features five-band equalizer; high-quality comb filter; stereo synthesizer; and noise reduction for TV, VCR or satellite system. Connects audio output of video systems to home Hi-Fi. Cuts out hiss,



adds stereo dimension. May be used to add stereo dimension to rear channels. THD below 0.05%; noise reduction 14 dB; noise -80 dB; maximum input/output level 6 V RMS; input imp 47 kohms; output imp 150 ohms. 17" W  $\times$  2.5" H  $\times$  6" D; 6 lbs ..... \$159

## AUDIOSOURCE

### AV-ONE Audio/Video Selector/Processor

Designed to serve as an active control center for any audio/video system. Complete switching capability allows interface of up to five video inputs at one time. Dubbing between any of the sources is done through a recording selector section. Features a video processor with separate controls for detail and sharpness; video fader for improved re-

ording quality; built-in RF modulator; 16 outputs; 21 inputs; DNR noise reduction; 10-band audio equalizer. Connects directly between a VCR and television receiver or monitor or between two VCRs; can operate during recording and playback; reduces noise; switcher selects between five sources. Audio FR 20-20,000 Hz  $\pm 0.5$  dB; video frequency response 5 MHz  $\pm 3$  dB; S/N 86 dB audio, 67 dB video; sharpness enhance level -4 dB minimum; detail enhance level -6 dB minimum. 10 lbs ..... \$580

### AV-THREE A/V Switcher/Processor

Audio/video processor and switcher. Features fader; enhancer; color and hue control; selection between five A/V inputs and outputs; built-in RF modulator; low-noise A/V distribution amplifiers. Audio section features DNR; stereo synthesizer; audio insert. Video frequency response 50-3.5 MHz  $\pm 3$  dB. 16.5" W  $\times$  2.25" H  $\times$  10" D; 9 lbs ..... \$200

### AV-FOUR A/V Switcher/Processor

Audio/video processor and switcher. Video section features selection between five inputs and three outputs; built-in RF modulator; low-noise audio/video distribution amplifiers. Audio section features 15-watt/channel amplifier; surround synthesizer; stereo synthesizer; DNR. Video frequency response 50-3.5 MHz  $\pm 3$  dB; luminance S/N >80dB. 9 lbs ..... \$200

### SS-ONE Dolby Surround Sound Processor

Dolby Surround Sound processor with



stereo synthesizer and hall effects. Features: variable digital time delay; 15-watt/channel amplifier ..... \$290

## CARTER

### 60-280 Stereo Decoder

Decoder permits stereo broadcasts to be received with non-stereo equipment. Features theatre-like sound; two 5-watt speakers; audio noise reduction; and low/high/stereo modes ..... \$160.00

### 60-608 Video Image Enhancer

Improves performance of video cameras, and videocassette recorders. Useful when duplicating 2nd or 3rd generation tapes ..... \$98.00



**DENON****AVC-500II Audio/Video Processor**

Audio/video control center with Denon surround processor and Dolby. Features master volume control (permits adjustment of front/rear level during surround sound playback); input for external audio sources (simulcast capable); 30 W + 30 W amp; 5-band graphic equalizer; auto copy function; headphone jack. Audio frequency response from 10-50,000 Hz  $\pm 3$  dB; THD 0.3%; video frequency response 5-6,000 Hz  $\pm 1.5$  dB. 434 mm W  $\times$  97 mm H  $\times$  280 mm D; 5.6 kg . \$375

**FOSGATE****3601 Surround Sound Decoder**

Dolby Surround processor with built-in 40-watt amplifier. Features optional line outputs for external amplification; modified Dolby B circuit in surround channel; center-front output; LED surround-channel indicator; adjustable bass EQ; ultra-low-distortion electronic volume and balance controls; built-in time delay; 5 monitor indicators; tape/monitor switch. Remote control unit and rack-mounting adapters available. Requires 4 or 5 speakers (2 or 3 front channel/2 rear channel). Main decoder section: THD 0.05% 20-20,000 Hz; FR 5-40,000 Hz  $+0, -1$  dB; bass EQ 18 dB boost at 45 Hz; input level 100 mV; input imp 50,000 ohms; output level adjustable to 3.5 V/RMS. Time delay section: delay 20 mS fixed; FR 20-7,000 Hz  $+0, -3$  dB; THD 0.5%. 17.25" W  $\times$  3.5" H  $\times$  7.5" D; 10 lbs ..... \$549

**3600 Surround Sound Decoder**

Surround sound decoder with built-in 25-watt amplifier. Similar to 3601 but with no Dolby circuitry or time delay. 17.25" W  $\times$  2.75" H  $\times$  6.25" D; 9 lbs ..... \$399

**HEATHKIT****SK-107 Stereo Synthesizer Kit**

Stereo synthesizer kit features two operating modes: pseudo-stereo and mono; 2 audio outputs, 1 input. Can be built in one evening. Requires 9-volt battery or power supply ..... \$17

**KRAMER****VS-38E Switcher/Generator**

Professional production switcher and special effects generator (SEG). Features 3 composite inputs on three busses; RGB camera input for superimposing one picture into another via a Blue Key effect; a Downstream Keying input for a character generator or genlock camera; a key input for use with a B/W camera; separate control for fade-to-black. Other features include a built-in blackburst sync generator; (A-B)/C video bus structure; 8 wipe patterns; blue keying effect; colorizer for adding color to light or dark areas during use of downstream keying input; downstream keyer for keying in character generator or a DSK camera; sepa-

ate preview bus to display inputs, color generator, downstream key, black output of B/W camera, special effects, and program out; separate ten-pin camera socket tied to input one for supplying power to a camera and genlock to other inputs to that camera through the two black burst outputs. Looping inputs with high-z/terminate switches allow inclusion of other video processing devices in system. Signal-to-noise ratio better than 60 dB; crosstalk better than 56 dB at 3.58 MHz; frequency response better than 10 MHz. 480  $\times$  264  $\times$  120 mm rack mountable on 19" ..... \$1,995

**KCP-180 Color Encoder**

RGB/NTSC color encoder converts computer or camera generated color RGB signal, either TTL or analog, to full RS170 NTSC composite video. Accepts and reconstructs poor computer sync so that video can be recorded on VCR or displayed on standard monitor/receiver. Features a color bar generator; brightness/hue controls; video gain; fade control; 2 outputs and 2 inputs. Input has looping nine-pin TTL connectors and looping BNC analog connectors; accepts sync or syncon green; accepts both positive and negative sync; converts either interlace or noninterlace video. Video nonlinearity 3%; hue control  $\pm 120^\circ$  blue-green; luminance signal-to-noise ratio 60 dB. 19" W  $\times$  1.75" H  $\times$  7.25" D; 5 lbs ..... \$1,995

**NC-11 Video Mixer/Pattern Generator**

Video mixer for use with two genlock video sources. A pattern generator for creating up to 99 special effects with option of soft border, reverse video or wave effect. Joystick lever allows control over pattern placement on screen. Other features include a video paint box for colorizing foreground, background or borders; an automatic fader; an RS232 port for computer; fade control, video gain, 2 outputs, 3 inputs, and connections between two VCRs. Video frequency response 8 MHz; luminance signal-to-noise ratio 60 dB ..... \$1,495

**VS11EMK2 Video Hi-Fi Processor**

High-resolution video enhancer with split screen and color processor. Features video gain; fade control; contrast control; split screen control; definition control; three-input video switcher; three-output video and stereo audio distribution amplifier; 10-pin camera input. Color control  $\pm 10$  dB at subcarrier frequency; luminance S/N ratio 60 dB; audio bandwidth 20-20,000 Hz  $\pm 3$  dB ..... \$749

**VS-33 Vertical Interval Multi-Sync Switcher**

Switches any two nonsynchronous video signals together with their stereo audio component. Switching time is under 50 milliseconds and a fade-in fade-out period is not required to effect a switch. Other features include a selection of 3 inputs on 2 input busses in any combination of composite video sources; sync or non-sync inputs, with automatic nondelayed vertical interval or maximum 50 milli-

second delayed nonsynchronous vertical interval; automatic nondelayed stereo audio follows video in either synch or nonsync modes; preview bus monitors all inputs prior to going out on line; a separate program switcher for sending on line previewed input; complete compatibility with all Kramer and most other switchers, SEG's pattern generators, and video processors ..... \$699

**VS-1010 Stereo Video/Audio Processor**

Combines video enhancement with video stabilizer. Color processor includes phase chroma gain and burst controls; video gain and fader circuit; bypass switching; video switcher with three inputs and outputs; 5-band audio equalizer; audio mixer with five inputs; four stereo audio outputs; mike output; headphone jack ..... \$499

**VM7-E Video Processor**

Video processor removes video noise and snow from composite video picture. VNL circuitry removes up to 10 dB of video noise from signal. Features include video splitter; luma control for proper brightness and contrast; processors; enhancers; frequency control for finding which area in video bandwidth requires maximum noise reduction. 3.5 lbs ..... \$299

**VX-18 Video Improvement Center**

Combines enhancer with video processor. Includes video stabilizer; fader control; video enhancement with  $\pm 10$  dB definition control; color processing with  $\pm 8$  dB color gain control and  $\pm 8$  dB color hue control; video distribution amplifier with RF output and three video and audio outputs ..... \$249

**VS-2ES Video/Stereo Audio/Distributor**

Combines video enhancer with video gain circuit and stereo-audio mixer. Features automatic noise limiter; color processor; video amplifier/fader; three video outputs with two-in/three-out stereo-audio mixer ..... \$249

**MARANTZ****AU-251 Audio/Video Controller**

Features fade control; contrast control; three outputs; four inputs; direct connection between videocassette recorder and television receiver or monitor; connection between two videocassette recorders; switcher selection between three sources. 16.5" W  $\times$  1.5" H  $\times$  7.5" D; 3 lbs, 15 oz ..... \$200

**AVS-351 Dolby Surround Processor**

Dolby Surround processor with built-in 22-W amp. Features surround matrix and synthetic stereo modes; pair of surround mini speakers. 16.5" W  $\times$  2.36" H  $\times$  7.12" D; 6.8 lbs ..... \$300

**NAIAD****Hifidivision F-20 A/V Processor**

Provides high-quality source for video components not equipped with audio outputs. Features built-in stereo amp;

stereo simulator; NR; output for connection to MPX decoders; switching between 2 video/1 audio source(s); headphone jack. 20 W/ch from 30-20,000 Hz with no more than 0.7% THD; audio FR 30-20,000 Hz  $\pm 3$  dB ..... \$199

## ORA

**HQ1000 Audio/Video Enhancer**

Upgrades older VCRs to HQ improvements of newer units. Enhances stereo/ audio and video signals when copying between two VCRs ..... \$70

## NEC

**A-1300E Surround Sound Amplifier**

Audio/video surround sound amplifier. Unified remote-control operates all NEC TVs, VCRs, projection TVs, and CD players. Features surround sound effects: Dolby, matrix, and synthetic stereo. 7 inputs; 50-W  $\times$  4 or 130-W  $\times$  2 from 20-20,000 Hz with no more than 0.05% THD. Audio frequency response from 10-70,000 Hz  $\pm 3$ . 4 lbs ..... \$699

**AVD-700E Digital Delay Processor**

Digital-delay processor/switcher provides adjustable delay circuit for rear channel (from 0—92 msec). Features 6 video inputs, 5 video outputs; 11 audio inputs, 8 audio outputs; surround sound effects: Dolby, hall, matrix, and creation; 42-function remote-control with memory. Frequency response (analog stage) 10-10,000 Hz  $\pm 3$  dB, (digital stage) 10-20,000 Hz (+0.5, -1 dB); signal-to-noise ratio 100 dB; 0.005% THD .... \$699

**AV-300 Decoder/Amplifier**

Audio/video surround sound decoder/amplifier with 30-W/ch through 4 channels. Features video gain; contrast control; 5 outputs; 5 inputs; DNR noise reduction; monitor selector for L+R or LR; infrared remote control; 3 surround sound effects; synthetic stereo; bass and treble controls adjustable by  $\pm 10$  dB; audio preamp out. Connects directly between VCR and TV receiver or monitor, and between 2 VCRs; switcher selects between 5 sources; can operate during recording and playback. 60-W/ch from 10-40,000 Hz with no more than 0.045% THD. 17" W  $\times$  4.31" H  $\times$  13.36" D; 21 lbs ..... \$499

## PIONEER

**SX-V900 Audio/Video Receiver**

125-W/ch audio/video receiver with video source dubbing. Features nonswitching amplifier; 3 video inputs with stereo audio; DDD (Digital Direct Decoder); quartz-PLL digital synthesis tuning; 10 AM/10 FM station presets; station search; preset volume control; simulated stereo; DNR Dynamic Noise Reduction System; speaker A, B, A+B switch; 2 tape monitors; MM/MC phono input; FM usable sensitivity (mono) 10.8 dBf; amplifier: 125 W/ch minimum at 8 ohms, from 20-20,000 Hz, with no more than 0.005% THD; 6 oz ..... \$825

**C-90 Audio/Video Control Amplifier**

A/V control amplifier with wireless remote control. Features motorized rotary volume control; 5 audio inputs (CD, phono, tuner, tape 1, tape 2); 5 visual inputs; 3 power supplies (2 audio, 1 video); 2 visual outputs (1 for display, 1 for rec selector); recording selector tape dubbing switch; infrasonic filter; high/low filter; video enhancer; 20 lbs, 14 oz .... \$800

**VSX-5000 Audio/Video Receiver**

Audio/video receiver with built-in surround sound processor. Features non-switching amplifier type II; full system remote control; 3 video inputs with stereo audio; two-way video dubbing and simultaneous recording with two VCRs; video enhancer with split screen; built-in 4-mode surround sound processor with Dolby position; video noise filter; dynamic expander; quartz-PLL digitally synthesized tuner; two RF inputs (standard FM, cable FM); 20 station presets; direct-access tuning; 3-position acoustic memory; audio tape dubbing; LCD front panel display; selectable FM display (frequency or call letters); continuous average power front channels 100 W/ch (stereo mode), 70 W/ch (surround mode) minimum at 8 ohms from 20-20,000 Hz with no more than 0.005% (stereo) and 0.007% (surround) THD; rear channels 10 W/ch at 8 ohms from 40-15,000 Hz with no more than 0.3% THD; 4.88" H  $\times$  16.56" W  $\times$  5.12" D; 25 lbs, 20 oz ..... \$570

**SX-V500 Audio/Video Receiver**

80-W/ch audio/video receiver with video source dubbing. Features nonswitching amplifier type II; 3 video inputs with stereo audio; quartz-PLL digital synthesis tuning; 8 AM/16 FM station presets; auto station search; memory scan; simulated stereo; DNR Dynamic Noise Reduction System; speaker A, B, A+B switch; 2 tape monitors; 2 adapter loop circuits; amplifier: 80 W/ch minimum at 8 ohms, from 20-20,000 Hz with no more than 0.005% THD; FM usable sensitivity (mono) 10.8 dBf; 4.75" H  $\times$  16.56" W  $\times$  11.81" D; 21 lbs, 6 oz ..... \$500

**SA-V70 Audio/Video Amplifier**

Amplifier with built-in surround sound processor. Features detachable system remote control; 5 audio/5 video inputs; 4-mode surround sound processor; two processing loops for video enhancer and graphic equalizer; record output selector; 6 AC outlets (5 switched); separate electronic volume controls for front and surround; electronic balance control; power output front channels 50 W/ch (stereo), 25 W/ch (surround) from 20-20,000 Hz into 8 ohms, THD  $\leq 0.09\%$ ; power output rear channels 25 W/ch (surround) from 100-4,000Hz into 8 ohms,  $\leq 1\%$  THD; FR phono 20-20,000 Hz  $\pm 0.5$  dB; FR line level 20-50,000 Hz  $+0/-2$  dB; 16.56" W  $\times$  5.12" H  $\times$  15.31" D ..... \$485

**VSX-4000 Audio/Video Receiver**

Audio/video receiver with built-in speaker matrix surround sound processor. Features nonswitching amplifier type II;

full-system remote control; 3 video inputs with stereo audio; two-way video dubbing and simultaneous recording with two VCRs; video enhancer with split screen; video noise filter; quartz-PLL digitally synthesized tuner; 20 station presets; direct-access tuning; 3-position acoustic memory; audio tape dubbing; LCD display; selectable FM display (frequency or call letters); continuous average power 60 W/ch minimum at 8 ohms from 20-20,000 Hz, with no more than 0.005% THD; 4.88" H  $\times$  16.56" W  $\times$  5.12" D; 21 lbs, 6 oz ..... \$430

**SX-V400 Audio/Video Receiver**

60-W/ch audio/video receiver with video source dubbing. Features nonswitching amplifier type II; 2 video inputs with stereo audio; quartz-PLL digital synthesis tuning; 8 AM/16 FM station presets; auto station search; memory scan; simulated stereo; video noise filter; speaker A, B, A+B switch; 2 tape monitors; amplifier: 60 W/ch minimum at 8 ohms, from 20-20,000 Hz with no more than 0.005% THD; FM usable sensitivity (mono) 10.8 dBf; 4.75" H  $\times$  16.56" W  $\times$  11.81" D; 18 lbs, 15 oz ..... \$360

**SP-101 Synthesized Surround Processor**

Designed to recreate sound as it naturally occurs in four different sound modes: stadium, theater, studio and simulated stereo. 0.003% distortion at 1,000 Hz; maximum output voltage 1,000 Hz, 0.03%, R, L, 50,000 ohms 7 V; THD 0.5% (1,000 Hz; output 1 V). 16.56" W  $\times$  2.36" H  $\times$  13.25" D; 8.2 lbs ..... \$350

**SX-V300 Audio/Video Receiver**

Quartz-synthesized PLL receiver with 2 video inputs. Features simulated stereo; noise filter; eight AM/FM presets. Amplifier section: 45 continuous average watts per channel from 20-20,000 Hz with less than 0.08% total harmonic distortion into 8 ohms. IHF IMD 0.08%; frequency response 20-20,000 Hz  $\pm 0.5$  dB. FM section: alternate-channel selectivity 65 dB; 50-dB quieting sensitivity mono 1.6  $\mu$ V (15.7 dBf), stereo 19.5  $\mu$ V (37 dBf); signal-to-noise ratio A-weighted mono 80 dB, stereo 75 dB; total harmonic distortion mono 0.4%, stereo 0.4%; separation 40 dB at 1,000 Hz. AM section: sensitivity 10  $\mu$ V. 16.4" W  $\times$  3.9" H  $\times$  8.9" D; 11 lbs, 7 oz ..... \$260

**SX-V200(BK) Audio/Video Receiver**

Quartz-synthesized receiver with two video inputs. Features simulated stereo; 8 FM/AM presets. Amplifier section: 30 continuous average watts per channel from 20-20,000 Hz with less than 0.3% total harmonic distortion into 8 ohms; IHF IMD 0.3%; frequency response 20-20,000 Hz  $\pm 0.5$  dB. FM section: alternate-channel selectivity 65 dB; 50-dB quieting sensitivity mono 1.6  $\mu$ V (15.7 dBf), stereo 19.5  $\mu$ V (37 dBf); signal-to-noise ratio A-weighted mono 80 dB, stereo 75 dB; total harmonic distortion mono 0.4%, stereo 0.4%; separation 40 dB at 1,000 Hz. AM section: sensitivity 10  $\mu$ V. 16.6" W  $\times$  3.9" H  $\times$  8.9" D; 11 lbs, 7 oz ..... \$190



**AVS-700 Audio/Video Selector**

Features 4 inputs, 3 outputs (2 for VCR recording); composite video switcher with stereo audio follow; simulated stereo; DNR noise reduction. 16.56" W × 2.36" H × 8.5" D; 6 lbs, 3 oz. . . . \$160

**VZ-100 MTS Decoder**

MTS decoder with automatic stereo/mono switching, SAP output, and dual function. Luminance S/N 74 dB; video FR 50-10,000 Hz ±1 dB. 16.56" W × 1.94" H × 4.75" D; 3 lbs, 8 oz. . . . \$150

**VS-60 Audio/Video Selector**

Audio/video selector with two outputs and two inputs. Luminance signal-to-noise video 55 dB, audio 100 dB. 16.6" W × 2.4" H × 8.4" D; 6 lbs, 3 oz. . . . \$150

**PROTON****690 MTS Decoder**

Multichannel television stereo decoder and SAP with input sensitivity level control. Four selections available: stereo, main, SAP, or all. Features two outputs, one input, and two sources. 10.12" W × 2.62" H × 16.25" D; 8 lbs, 8 oz. . . . \$150

**RECOTON****V624 MTS Stereo TV Decoder (Fred III)**

MTS stereo decoder with digital filters. Connection to cable TV set top converters with selectable channel 3/4 RF input. Stereo TV sound probe allows any TV or



VCR to receive and decode MTS and SAP; multi-band stereo synthesizer automatically senses monaural broadcast and simulates stereo; built-in 12-W/ch integrated stereo amp with individual slide-type volume, balance, bass and treble controls. Dynamic Noise Reduction, MPX inputs for direct connection; 1 line output and line input; audio frequency response from 20-14,000 Hz; signal-to-noise ratio greater than 70 dB; stereo separation 35 dB ±5 dB; 13" W × 7" H × 3" D; 10 lbs. . . . \$201

**V622 MTS Stereo TV Decoder (Fred I)**

MTS stereo decoder with digital filters. Allows stereophonic reproduction of any program broadcast in stereo. Designed by Larry Schotz, this Sound Probe allows any TV or VCR to sense and decode MTS stereo broadcasts. Multiband synthesizer senses and simulates stereo from monaural broadcasts; spatial expander increases stereo separation. S/N greater than 70 dB; stereo separation 35 dB ±5 dB; 3 lbs. . . . \$150

**V623 (Fred II)**. Same as Fred I but includes SAP for bilingual broadcasts and selectable channel (3/4) RF input for instant connection to cable TV set-top converters. . . . \$180

**SANSUI****AV-99 Audio/Video Signal Processor**

Features fade control; contrast control; direct connection between videocassette recorder and television receiver or monitor; connection between two videocassette recorders; switcher selection between three sources; operation during



recording and playback; joystick-operated color wiper; joystick-operated color generator; zoom; video enhancer; video stabilizer; color bar generator; color background generator; tape counter; monitor selector; 16.94" W × 4.06" H × 11.25" D; 9.0 lbs. . . . \$650

**AV-77 Audio/Video Processor**

Combines functions of video processor, audio processor and audio/video switcher in one unit. Video controls include detail sharpness; picture; Art 1, 2 and 3 controls and special effects; wipe and fader. Features connections for two videocassette recorders, video disc, video camera, and audio amplifier. Permits bidirectional audio and video duplication, microphone mixing and voiceover or dubbing. Multi-directional controls for expanded stereo or stereo simulation. Built-in RF converter. Video frequency response 6.5 Hz-10 MHz ±2 dB; video signal-to-noise ratio 62 dB; maximum audio output level 1.0 volts; THD 0.05%; dbx noise reduction improved by 30 dB. 16.94" W × 3" H × 10.44" D; 8.2 lbs. . . . \$400

**DS-77 Surround Sound Processor**

Decodes encoded stereo video tapes to provide surround sound performance.



Features 3 surround sound effects: Theater, QS Surround and Hall. Built-in 10-W/ch amp to drive rear or front speakers; sub-bass synthesizer and peak attacker; outputs for 3 sets of speakers; stereo synthesizer for mono materials. 16.94" W × 2.94" H × 9.88" D; 8.6 lbs. . . . \$400

**SANYO****SA100 Dolby Surround Sound Processor**

Dolby Surround processor with built in

For explanations of abbreviations, specifications, and technical terms, turn to the vocabulary on page 38.

amplifier. Features built-in 20 W/ch amplifier; 3-way signal processing (Dolby Surround, simulated hall surround, simulated stereo); variable time delay 15-30 ms; input balance control; variable surround balance control; FR 60-20,000 Hz with no more than 0.9% THD. . . . \$200

**SURROUND SOUND INC****720 Full Logic Stereo Surround System**

Features digitally controlled adjustable time delay; full function wireless remote control with low-noise VCA technology; modes for: Dolby surround, music surround, mono enhance, bypass. Total harmonic distortion 0.015%; front channel frequency response +0.5 dB 5-50,000 Hz; surround channel frequency response +0.5 dB of Dolby specification; front to back separation 60 dB; dynamic range 110 dB; decoding detector range 80 dB; 2 line level stereo inputs; 6 outputs including center channel auto switching for correct imaging. . . . \$600

**M-360 Surround Sound Stereo Decoder**

Designed to be plugged into a tape-monitor or external-processor loop or connected to the main output of a pre-amplifier. The difference signal is delayed, filtered, Dolby decoded, and passed through master volume control which adjusts front and rear levels simultaneously. Features stereo-surround matrix full stereo decoder mode and synthesizer-separate matrix and synthesizer for monophonic sources. Signal to noise ratio 62.6 dB at surround speaker output. . . . \$300

**TEAC****Audio/Video Controller**

Features Dolby surround, hall surround, and matrix surround with built-in 12-W/ch amp, video enhancer and audio insert. Includes fade control; 5 inputs; noise reduction; connects between 2 VCRs; reduces noise; can operate during recording and playback; 12-W/ch from 100-6,000 Hz with no more than 1% total harmonic distortion; audio frequency response 20-100 kHz ±3dB; luminance signal-to-noise ratio 62 dB; video frequency response 6-10 MHz ±3dB; 17.12" W × 2.75" H × 11.62" D; 9.94 lbs. . . . \$599

**TECHNICS****SA-590 Audio/Video Receiver**

Audio/video receiver with 48-key wireless infrared remote control and full TV/VCR features. Features front/rear VCR inputs; VCR sound EQ-simulated stereo; simulcast capable; quartz-synthesizer tuning with 16 presets; low-noise LCD display; new Class A computer-driven amplifier; headphone jack; 7-band equalizer with touchpad control (5 memories: 3 user, 2 factory). 100 watts-per-channel from 20-20,000 Hz with no more than 0.007% THD; audio frequency response 5-70,000 Hz -3 dB. 16.94" W × 3.75" H × 11.16" D; 17.4 lbs. . . . \$600

# 12 VIDEO ACCESSORIES

## AMBICO

### V-0623 Wireless Microphone

Wireless electret condenser hand-held microphone includes receiver. Features 200-ft range. 7.3" W × 1.5" H × 1.0" D; 0.36 lbs ..... \$100.00

### V-0614 TelePrint Converter

Enables direct 35-mm print-to-video tape transfer; built-in table pod. 9.5" W × 8" H × 6.25" D; 6 lbs ..... \$80.00

### V-0612 Telecine Converter

Utilizes a system of mirrors to transfer film or slides to video tape. Features built-in macro lens for simple set-up of



any video camera even if it does not have its own macro function; built-in table pod; high-resolution screen ..... \$80.00

### V-0604 Transceiver with Headphones

Infrared transceiver allows private listening to any audio source without cables. Features power supply; transmitter; receiver; headphones. 30-18,000 Hz frequency response. 1 lb ..... \$70.00

### V-0680 Tape-to-Tape Enhancer

Boosts video and stereo audio signals between master and slave VCRs during tape duping; video and audio gain controls (up to 3 dB for video, 20 dB for audio); AC power supply ..... \$70.00

## A.M. PRODUCTS

### Video Head Cleaner

Wet system video head cleaner with fluid for up to thirty cleanings.

AM 75103. VHS ..... \$19.95  
AM 75104. Beta ..... \$19.95

### AM 75106 Video Head Cleaning Kit

Manual head cleaning kit includes cleaning fluid and chamois probes .... \$7.99

### AM 75201 Videocassette Lock

Locking device for VHS video tapes. Includes 3 locks and one key .... \$4.95

## A.M.P.S.

### 6B Battery Pack

Rechargeable belt-worn battery pack. Features internal cigarette lighter receptacle; circuit breaker; recharge up to 250 times. 12 V; 6.5 amps ..... \$59.99

### NI-48 Battery Pack

Rechargeable belt-worn Nickel-Cadmium battery pack. Features cigarette lighter receptacle; circuit breaker; recharge up to 1500 times; 12 V; 4.4 amps. \$129.95

## APATURE PRODUCTS

### Linear Digital Synthesized Cable

Silver Litz wire with teflon dielectric and 100% shielding. Features gold-contact RCA plugs. Passes 92,000 megabits of information per second. Available in one- or two-meter lengths ..... \$50.00

## ARCHER by RADIO SHACK

### Cable Converters

15-1285. 60-channel cable-converter with infrared remote control; electronic tuning; digital display; HRC/standard cable switch; full-function remote; remote fine tune; remote on/off; 11.5" W × 2.75" H × 6.5" D ..... \$119.95

15-1281. Cable TV block converter. Tunes mid and super-band cable channels. Converts up to VHF. Fine tuning for PLL tuners ..... \$29.95

### 15-1289 Video Remote Control Extender

Extends range of hand-held video remote controls ..... \$49.95

### 15-1284 Video Distribution Center

Combines signals from antenna/cable television and up to 3 other sources with channel 2, 3, or 4 output. Sends all signals through a single coax cable to other television sets ..... \$49.95

### 15-1273 Modulator

RF modulator for audio/video. Channel 3 or 4 TV output; input imp switch, 1 kohm or 75 ohm; computer or video compatible; 3.19" W × 1.5" H × 4.75" D \$24.95

### 15-1117 Amplifier

Inline coax amp for use with TV's, VCR's, or TV ant. For long cable runs. Amp can be put anywhere in the line; 10 dB gain from 50-900 MHz ..... \$14.95

### 15-1119 Cable Distribution Amplifier

One input, four outputs ..... \$12.95

### 15-1116 Cable Distribution Amplifier

Features 1 input and 2 outputs . \$10.95

## 15-1118 VHF/Cable Booster

Booster amp for use with RF video selector switches, cable converters, VCR's and TV's; 2.36" × 1.36" × 4.75" \$9.95

## AZDEN

### WMS-10 Wireless Microphone System

Wireless microphone system for video cameras/camcorders. Receiver attaches securely to camera and plugs into external mic. jack. Transmitter attaches to belt and microphone attaches to lapel or collar. Features range of over 100 feet. Operates on one AA and one 9-volt battery. Mic output 3 mV. 1 lb ..... \$150

### WMS-20 Wireless Microphone System

Same as WMS-10 with two microphones (one handheld and one clip-on) and carrying case. 1.25 lbs ..... \$175

## BIB

### VE-1 Camcorder Care Kit

Portable, lightweight, shock-resistant plastic carrying case contains one Bib automatic head cleaner; combination air duster/lens cleaning brush; lens cleaning brush; lens cleaning fluid; 50 sheets of lens cleaning tissues; soft cloth.

VE-1/VHS. For VHS format .... \$24.95

VE-1/Beta. For Beta format .... \$24.95

VE-1/8 mm. For 8-mm format .. \$24.95

### VE-40 VHS VCR Head Cleaner

One-piece push-button head cleaner. Push-button automatically applies correct amount of fluid to cleaner. Cleans complete tape travel path ..... \$14.95

VE-41. Beta VCR head cleaner . \$14.95

### 8 MM Automatic Cleaner

Nonabrasive wet/dry 8-mm video cleaner ..... \$12.95

### VE-44 8-mm Video Camera Lens Care Kit

Lens cleaning fluid, 50 abrasive-free lens cleaning tissues, and lens cleaning brush, in dust-free storage box .. \$7.95

### A-612 "TWO-SHOT" Disposable Audio Head Cleaner

Cleans the erase, record/playback heads and complete tape travel path. Automatically applies correct amount of cleaning fluid onto the cleaning tape ..... \$1.79

## BUSH

### AV-1375 Audio/Video Center

Features 25" wide TV compartment; adjustable VCR shelf; glass-enclosed storage area with adjustable video shelf; silk screened, wood-framed glass doors, have 20.25"-wide glass-enclosed audio



area with three adjustable shelves, also silk screened oak and oak-laminate cabinetry ..... \$399.95

#### AV-774 Home Entertainment Center

Combination home entertainment center/room divider features 2 pull drawers. Library oak finish. 49" W × 69.5" H × 15.5" D; 180 lbs ..... \$249.95

#### V1332 Artisan Video Cabinet

Features 19.25" high by 27" wide TV compartment with adjustable shelf and oak-framed glass doors. Hand-stained and finished oak and oak laminates. 28.5" W × 42.25" H × 16.5" D \$199.95

#### V306 Videocassette Storage Cabinet

Locked storage cabinet includes three-tiered shelves inside doors. 23.75" W × 30.25" H × 115.75" D; 645 lbs \$149.95

#### AV738 Home Entertainment Center

L-shape design; open shelf for TV (up to 26"); safety-tempered glass doors with 3 adjustable shelves; enclosed storage area; library oak finish. 47" W × 35.88" H × 15.5" D; 93 lbs ..... \$149.95

#### V362 Video Entertainment Center

TV compartment with adjustable shelf accommodates up to 26" set; height-adjustable VCR/accessory shelf and videocassette storage area; tempered glass doors. 28.25" W × 44.5" H × 17.75" D; 97 lbs ..... \$139.95

#### V1330 TV/VCR Cart

Solid oak construction; shelf for VCR; accommodates up to 26" monitor. 26.62" W × 26.75" H × 16.5" D \$119.95

### CERTRON

#### VCS/3 Videocassette Storage Case

For VHS or Beta with labels. 3 cases for ..... \$3.99  
10-pack ..... \$11.99

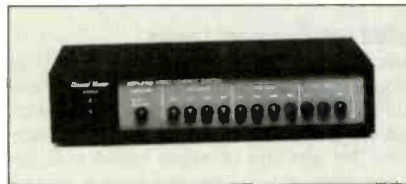
#### Rack 3 Videocassette Rack

Plastic rack holds 3 VHS or Beta cassettes. .... \$1.99 ea  
VI-LIB. Holds 8 VHS or Beta cassettes. .... \$10.95

### CHANNEL MASTER

#### 0772 Amplified Video Control Unit

Provides selective switching of 4 input



sources to two television sets and 1 videocassette recorder. Features amplification at antenna port to boost signal ..... \$99.95

#### 0779 Video Enhancer

Enhances "washed-out" video signals. Built-in RF converter converts raw audio and video signals to a signal that can be fed directly to VHF terminals ... \$89.95

#### 0764 40-Channel Block Converter

Shifts all standard VHF channels (2-13) and midband and superband channels (A-5--W) to specific UHF frequencies. Features fine tuning; VHF feed-thru for any VHF channels ..... \$29.95

#### 0776 Stereo Adapter

Features a stereo matrix circuit to provide 2 channels of simulated stereo from mono TV audio signal ..... \$29.95

#### 0053 Single Channel Filter

75-ohm channel 3 bypass filter with notch traps on band edges .... \$18.95

#### 75-Ohm Channel Coupler/Traps

0573. Reduces interference on channel 4 when VCR is on channel 3 ..... \$18.15

0574. Reduces interference on channel 3 when VCR is on channel 4 ..... \$18.15

#### 0766 Video Coax Switch

Allows manual selection between any two 75 ohm inputs to 75-ohm TV \$5.95

#### 2, 3, and 4 Set Couplers

*Couplers which equally divide an incoming signal into varying amounts of branch lines. 75-ohm; UHF/VHF/FM.*

7394. Divides signal into 4 branch lines ..... \$5.95

7393. Divides signal into 3 branch lines ..... \$4.69

7392. Divides signal into 2 branch lines ..... \$3.55

### COAST

#### Coastar VTR-F2 Tripod

Video tripod featuring oil fluid pan head with large platform camera, quick release system. Built-in bubble level. Opens to 62", closes to 26" ..... \$189.95

#### Coastar VC-1505 Camcorder Case

Designed to carry camcorders and most large video cameras. Exterior tripod straps. 15.25" × 9" × 9" ..... \$135

#### Coastar VC-1405 Carryall

Twin-pocket video carryall for all low-silhouette camcorders. Features adjustable dividers; two full-gusset front pockets. 15" × 6" × 7.5" ..... \$130

#### Coastar VC-86 Camera/Recorder Bag

Holds portable VCR and a compact video camera. Cordura exterior, padded interior ..... \$120

#### Coastar VC-20 Camcorder Carryall

Holds all camcorders. 15" × 10" × 8.75" ..... \$102

#### Coastar VC-67 Camera Case

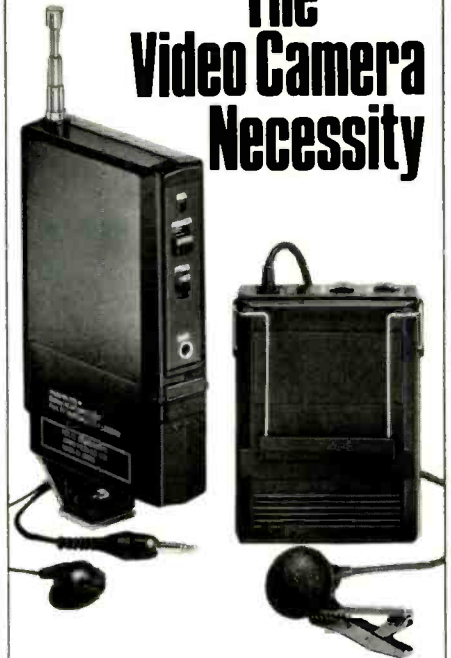
Holds all cameras and camcorders. Full-length front pocket ..... \$102

### COMFORTSTRAP CORP.

*All straps are constructed of genuine leather; adjustable webbing sections available in black, grey, red, and blue. Fastex Delrin hardware*

**Video Strap 1.** For cameras that have two strap eyelets ..... \$14.95

# The Video Camera Necessity



Extend the dimensions of your video filming capabilities with the AZDEN WMS-10 wireless remote microphone system. Now you can record from a distance (over 100 feet) with up-close clarity, avoiding all extraneous noises.

The Receiver attaches securely to the video camera and plugs into the ext. mic. jack. It even has a monitor earphone! The compact transmitter clips to the subject's belt, etc., and the unobtrusive electret microphone clips to a tie, lapel, or collar. Choose from two frequencies (49.83kHz or 49.89kHz) for the cleanest sound!

### ★ NEW, MODEL WMS-20 ★

Identical in performance to the WMS-10, the WMS-20 comes with both a hand-held mic. and a clip-on mic. for added versatility. Includes a handsome leatherette carrying case.

# AZDEN

CORPORATION  
147 New Hyde Park Road  
Franklin Square, New York 11010  
(516) 328-7500

A wholly owned division of Japan Piezo Co., Ltd.

CIRCLE NO. 69 ON READER SERVICE CARD

**Video Strap 2.** For cameras that have one strap eyelet and rotary fasteners that screw into tripod socket . . . \$15.95  
**Video Strap 3.** For cameras with a rectangular strap eyelet and rotary fastener that screws into tripod (JVC Camcorder, Kodavision K2400) . . . \$15.95

### CUSTOM WOODWORK & DESIGN

All CWD Woodmore cabinets are constructed with solid oak or walnut side panels, matching wood veneer tops, bottoms, and adjustable shelves. Each cabinet is finished with a hand-rubbed oil and protective wax coating. All cabinets are modular in design to be used individually, grouped, or stacked.

#### Magic Lowboy

Offers remote control access to complete audio/video system. Can be used for stow-away bar, hidden computer center, or grouped for a wall unit. 32" H × 47.25" W × 19" D, rises to a maximum height of 53 inches.

Walnut . . . . .	\$2,300
Oak . . . . .	\$2,000
Black Oak . . . . .	\$2,300
Hi-Gloss Black . . . . .	\$3,450

#### Woodmore Smallboy

Holds stereo TV and speakers on top, accessories and videotape machine below. 47.25" W × 21" H × 19" D.

SB-2174 . . . . .	\$420
SB-2173 . . . . .	\$335
SB-2172 . . . . .	\$335
SB-2175 . . . . .	\$430
SB-2176 . . . . .	\$590

#### Woodmore Monitor Cart

Includes adjustable shelf and chrome casters. 21" H × 30.5" W × 19" D.

MC-2152. Natural oak finish . . . . .	\$245
MC-2153. Dark oak finish . . . . .	\$245
MC-2154. Natural walnut finish . . . . .	\$315

#### Woodmore Video Cube

Includes 0.75" stacking rail for stacking on top of the Woodmore Monitor Cart.

VC-3052. Natural oak finish . . . . .	\$265
VC-3053. Dark oak finish . . . . .	\$265
VC-3054. Natural walnut finish . . . . .	\$345

#### Cabinet Accessories

Optional doors are available for all cabinets. Glass doors are available with chrome, brass, or black hardware. Doors feature 160° concealed hinges and solid wood pulls. Prices for glass doors range from \$45 to \$55 per pair. Prices for wood doors range from \$78 to \$155 per pair.

#### Slide Out Swivel

Allows monitor to slide out of swivel to any viewing angle. Extends 9"; weight limit 150 lbs.

SOS-52 . . . . .	\$90
SOS-53 . . . . .	\$90
SOS-54 . . . . .	\$100

#### Videocassette Drawers

**VTD-2.** Natural oak videocassette drawer. Holds 26 VHS or Beta tapes . . . \$70  
**VTD-3.** As above in dark oak . . . \$70

#### Cabinet Bases and Rails

1.75" wood bases and 0.75" stacking rails are available for all cabinet models, in addition to multi-cabinet leveler bases. **ECB-2.** For grouping two 24" wide cabinets and one video unit. Includes 8 levelers allowing individual cabinets the appearance of a one-piece wall unit . \$100  
**PSV-5492.** Natural oak projection screen valance. Designed to be stacked on top of three 21" Woodmores. Completely surrounds the screen for most two-piece projection television systems. . . . \$300

### DANEFURN

#### Audio/Video Cabinets

**DFAV 5.** TV/video cabinet with pull-out shelf for VCR and drawer for video tape storage. 36" W × 20" H × 35.5" D \$399  
**DFAV 2.** TV/video cabinet with glass doors and drawer for video tape storage. 30.25" W × 20" H × 23.25" D . . . \$257  
**DFAV 6.** Audio cabinet with glass door and vertical drawer for tapes . . . \$500  
**DFAV 7.** Audio cabinet with double glass doors and pullout turntable shelf . . \$437  
**DFAV 8.** Audio cabinet with double doors, vertical drawers for tapes, and pull-out turntable shelf . . . \$597  
**DFAV 116.** Audio cabinet with glass door and lift top . . . . . \$317  
**DFAV 115G.** Complete entertainment center includes pull-out shelf, glass doors, and storage drawers . . . \$587

### DISCWASHER

#### Discwasher Video Starter Kit

Starter kit contains Discwasher Video Head Cleaner, A-B switch, signal splitter, two 1-meter RF cables, 2-meter RF cable, instruction manual. Available in Beta and VHS formats . . . . . \$29.95

#### Discwasher Video Head Cleaner

Nonabrasive dry cleaning system for videocassette recorders. Good for fifty cleaning operations. Available in Beta and VHS formats . . . . . \$16.95

#### Video Gold-Ens Connector Cables

Audio/video connector cables with ultra-low capacitance and true 75-ohm impedance. 1-meter . . . . . \$9.95  
**1-Meter.** Double strand . . . . . \$13.95  
**1-Meter.** Triple strand . . . . . \$21.95  
**2-Meter.** Single strand . . . . . \$10.95  
**2-Meter.** Double strand . . . . . \$14.95  
**2-Meter.** Triple strand . . . . . \$23.95

### EL MAR

#### M-1 VCR Multiplier

VCR Multiplier allows up to four TVs to share a single VCR. Remote control feature for all VCR functions. . . . \$79.95

### FISCHER AMERICA

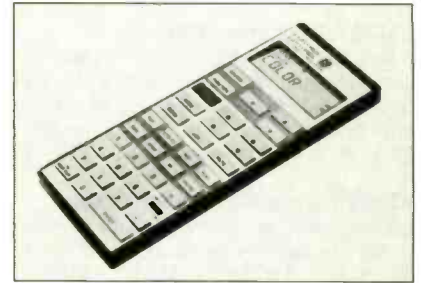
#### 33040 Video Cassette Storage System

Storage system comes in modules holding 5 Beta or VHS videocassettes each. At the touch of a button compartment pops out and door swings away for access to the cassette . . . . . \$19.99  
**33042.** Same as 33040 in black . \$21.99

### GE

#### RRC600 Control Central

Wireless remote control can command virtually any 4 audio/video components regardless of manufacturer. Built-in programmable microcomputer records infrared codes of each component learning all



its specialized functions. Can be easily reprogrammed. Operates at a range of up to 10 meters. Uses 4 AAA batteries. Features visual display of functions programmed into memory as they are selected and auto shut off . . . . \$150.00

### GENEVA GROUP

#### PF 211 Videotape Bulk Eraser

Restores videotape to original blank state. 2,300 gauss flux intensity; auto shut-off prevents burn-out . . . \$54.95

#### VCR-300 Dustcover

100% cotton duck breathes, lets heat escape. Tan with brown fabric trim; vinyl window over control panel . . . \$14.95

#### VCR Maintenance Products

**VCR-109.** High-velocity jet air stream Super Blast spray cleaner eliminates loose tape oxide, dirt, dust; 10 oz . . . \$7.20  
**VCR-205.** Head demagnetizer with angled tip; removes residual magnetism from heads, rollers, guides . . . \$39.95  
**VCR-130.** Drop-in VCR head cleaning cassette for VHS format. Removes dirt, smoke, and oxide debris. Wet system, provides 45 cleanings. Spun-bonded pure polyester cleaning tape consists of tiny cross weave pockets . . . \$29.95  
**VCR-135.** As 130 for Beta . . . \$29.95

**PF-360.** Wet-type head cleaner for VHS-C camcorders . . . . . \$29.95

### GUSDORF

#### 5890 Entertainment Center

Hickory-grain-finished cabinet that houses a 25" TV and 2 speakers. Features shelves for audio components; safety-glass doors; drawers and cabinets for storage of video tapes and accessories; antique bronze-tone trim; pull handles; rear-access ports for wires; heat venting system. 66.62" H × 48.25" W × 22.5" D . . . . . \$519.95

#### 4450 Deluxe Entertainment Center

Finished in a popular oak, it will accommodate 19-26" TV. Audio section features safety-glass push-to-open door and two adjustable shelves. 46.36" W × 46" H × 15.81" D . . . . . \$249.95



**5535 Video Cabinet**

Video cabinet with swivel feature that allows rotation from the base. Features oak surface; sculpted corners; space for either a 19-inch or compact 25-inch television; pull-out top shelf; video cassette organizer; a drawer for accessories. 45.25" H X 27" W X 15.75" D \$159.95

**5830 Video Cabinet**

TV-cart video cabinet proportioned to fit a standard 19-inch television on the top surface and a VCR or cable box on a bottom shelf. Hickory finish. \$139.95

**3345 Video Cart**

Accommodates 25" TV. Stores video components and accessories. Oak or dark-walnut \$104.95

**INNOVATIVE CONCEPTS****Flip 'N Play Library Storage Case**

Library storage case for videocassettes. Protects cassettes from dust, light, and moisture. 3 cases \$3.60

**Flip 'N Play Protection Plus Case**

Storage case for videocassettes. Locking mechanism provides dust-free environment. Made of extra-durable plastic. Approved for mailing by US and Canadian postal services. Available in black, brown, cream. 3 cases \$7.44

**IRISH****V-10 VHS Head Cleaner**

Wet-type head cleaner for VHS-format VCRs. 4.5" W X 8.25" H X 1" D \$10.20

**KALIMAR****K-482 Video III Tripod**

Tripod features fluid head, level indicator, and bracket for movie light. All metal construction. Size (closed) 27.5"; 7.5 lbs \$249.95

**K-486 Video 1 Tripod**

Tripod with channel-locked legs and brace; panhead is spring loaded 3-way, 3-stop; elevator is geared; height extension is 60 inches; closed 22 inches; 4.5 lbs; aluminum and steel construction \$149.95

**K-325 Video Light**

Light attaches easily to any video camera; plugs into AC outlet; 250-W bulb with adjustable barn doors \$119.95

**KODAK****VCR Pro Care Kits**

Pro Care Kits include Kodak video head cleaner; head cleaner spray; 2 T-120, or L-750 videocassettes; dust cover; Kodak Video Tape Entertainment Guide.

PC-V. For VHS format \$64.95

PC-B. For Beta format \$64.95

**Basic Care Kits**

Similar to Pro Care Kit without Kodak Video Tape and Disk Guide to Home Entertainment.

BC-V. For VHS format \$44.95

BC-B. For Beta format \$44.95

**KOSS****KED-1 Electronic Demagnetizer**

Audio/Video demagnetizer \$16.99

**Clean 'N' Toss Videocassette Cleaner**

Cleans all internal tape path components. Preserves both picture and sound. Good for 40-50 cleanings. 7.25" W X 4" H X 1" D.

KCT-2. For Beta cassettes \$12.99

KCT-3. For VHS cassettes \$12.99

**KRAMER****VM-10A A/V Distribution Amplifier**

Features ten video and stereo audio outputs feeding from one video and audio source; one video loop with Hi-z/75 ohm termination switch and stereo audio loop. Video nonlinearity better than 2%; chroma phase error less than 2 degrees; video bandwidth 20,000 Hz; signal-to-noise ratio 65 dB \$399

# Discwasher® cleans the yuckies off your VCR heads.

Discwasher® Video Head Cleaner picks up the yucky tape oxides that cause fuzzy pictures and mushy sound. This patent pending process cleans all your

audio and video heads without scratching the surface. It also cleans along the entire tape path. There are absolutely no harmful chemicals in this

exclusive dry cleaning system.

Discwasher is the technological leader in maintaining picture and sound clarity.

Discwasher, 4309 Transworld Road, Schiller Park, IL 60176.

Find out what we can do for your record, compact disc and tape equipment, too!

**discwasher®** For good, clean fun.

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A Division of International Jensen Inc.



CIRCLE NO. 9 ON READER SERVICE CARD

**VS-66 Digital Video/Audio Switcher**

Digital switcher uses microchips for all switching. Features include parallel switching of 4 video and stereo audio inputs to 4 video and stereo audio outputs in any matrix combination; can route, monitor and split signals without having to plug and unplug cables; all inputs and outputs are isolated and buffered. Video section: 4 inputs, 75 ohm, 1 volt; 4 outputs, 75 ohms, 1 volt; nonlinearity less than 1%; video bandwidth 8Mhz  $\pm$  3 dB; video/audio gain error 1 dB. Audio section: 4 stereo inputs, 47 kilohms, 1 volt; 4 stereo outputs, 100 ohms, 1 volt; channel cross talk <50 dB; audio bandwidth 20-20,000 Hz  $\pm$  1 dB. 9.25" W  $\times$  2.25" H  $\times$  6.36" ..... \$349

**VM-11E Screen Splitter**

Video splitter displays 2 video sources on same monitor for comparison of processed to nonprocessed video. Also allows viewing of 2 pictures at the same time. 15.5 cm W  $\times$  5.5 H  $\times$  13 D. \$149

**LASER by SWIRE MAGNETICS****Wet System Head Cleaner**

Designed to clean video heads. VHS or Beta ..... \$11.99

**MAGNAVOX****V80061 Camera Power Supply**

Provides power to video camera enabling use of VCR table models for color camera recording. Stereo audio recording capability ..... \$79.95

**MARANTZ****AV-251 Video Switcher**

Video switcher with 2 VCR loops; 2 aux video inputs; selectable audio source; video fader; sharpness control; dynamic noise reduction; and misc mixing. 16.5" W  $\times$  1.5" H  $\times$  7.5" D; 3.9 lbs ..... \$200

**MAXELL****Maxell/Recoton Video Starter System**

Video starter kit containing 1 Maxell standard video cassette, 1 Maxell HGX video cassette, 1 Maxell video tape handbook, 1 Recoton wet head cleaner, and 1 Recoton dust cover ..... \$49.95

**MEMOREX by MEMTEK****Gold Series Video Accessories**

Features gold-plated connectors for durability and efficient conductivity.

**10 dB Four Output Amplifier.** Designed to amplify video signals and improve picture quality. Connects to coaxial television cable wherever an AC outlet is available ..... \$19.99

**Remote 10 dB Coaxial Amplifier.** Designed to amplify video signals and improve picture quality. Connects to coaxial television cable wherever an AC outlet is available ..... \$17.99

**10 dB Amplifier.** Designed to amplify video signals and improve picture quality for any VHF or cable television channel ..... \$14.99

**Video Accessories**

**VHS Wet Head Cleaner.** Nonabrasive wet head cleaner for VHS VCRs ... \$15.99  
**Stereo VHS Dubbing Kit.** For dubbing between 2 stereo or Hi-Fi VCRs ... \$15.99  
**VHS Dubbing Kit.** Individual audio and video cables for dubbing between two VCRs ..... \$11.99

**MKG****T1500-H2000 Headset**

Wireless, infrared stereo headset operates with TVs and VCRs ..... \$119.95

**SF1001 TV Cart**

3-drawer cart for TVs and/or VCRs. Includes bottom cabinet to store up to 36 videocassettes ..... \$119.95

**B-7 Beta Cassette Rewinder**

Features belt drive; soft eject; cooling fan; automatic cut-off ..... \$34.95  
**V6.** Rewinder for VHS format .. \$34.95

**VHC-1010 Beta Video Head Cleaner**

Wet/dry system ..... \$9.95  
**VHC-1050.** For VHS format ..... \$9.95

**PVH-12 One Drawer Cabinet**

Stores 12 VHS or Beta videocassettes ..... \$9.95

**MULTIPLEX TECHNOLOGY, INC.****Digital D - Frequency Agile Modulator**

Agile modulator allows one video source to be viewed on more than one TV. Can also be used to combine multiple video sources into a single wire. All TVs in the house could be viewing one VCR tape. .... \$399.95

**A3V Channel Plus Three**

Unit assigns user-selected unused UHF channels to three video sources such as VCRs, cameras, disc players, satellites, computers, pay TV decoders, etc. All TVs in home can view added sources by tuning to their assigned channel numbers. 10.75"  $\times$  1.5"  $\times$  8"; 2.5 lbs \$309.95

**NADY SYSTEMS****49 VR Wireless Microphone System**

Wireless microphone system for video cameras. Features microphone/transmitter and miniature receiver. Effective operating range of 100 feet

Hand-held microphone/transmitter ..... \$199.95  
 Lavalier clip-on microphone and transmitter bodypack ..... \$159.95

**NAIAD****VR45 Video Stand**

Features space for up to 26" TV; 2 adjustable shelves; storage drawer for tapes and accessories; casters. Contemporary woodgrain finish. 27" W  $\times$  47" H  $\times$  18" D; 85 lbs ..... \$179.00  
**VR35.** Similar to above except one adjustable and one fixed shelf. Contemporary woodgrain or high-tech black finish. 26" W  $\times$  23" H  $\times$  15.62" D; 51 lbs ..... \$119.00

**VR25.** As VR35 with one shelf and behind-door storage compartment. Contemporary woodgrain or high-tech black finish. 26" W  $\times$  19" H  $\times$  15.62" D; 40 lbs ..... \$89.00

**NILES AUDIO****VSA-1 Direct Video/Stereo Audio Patch**

Passive A/V matrix switcher for connection of satellite and video components. Patches both direct video and stereo audio signals. Permits dubbing, monitoring, and signal processing. Has connections for up to 4 components plus connections for a video monitor and a Hi-Fi auxiliary input. Features 65-dB isolation; no active components to degrade signal quality; 100% PC board construction (no hand wiring) ..... \$150

**OLYMPUS****6162 Video Tripod**

Bilora video-profile tripod with all-metal "fluid-effect", horizontal/vertical panhead, and removable 5-section monopod. Features detachable head; built-in spirit level. Suitable for heavy cameras and camcorders ..... \$199.95

**1012 Tabletop minipod**

Pocket-sized tripod with ballhead, lightweight construction. For lightweight camcorders and video cameras \$12.95

**VF-KR2 Film Transfer Adaptor**

Enables the transfer of slides and print negatives to video tape. Attaches to lens of video camera ..... \$115.95

**Video Lights**

**Woodbury Model 12L.** Lightweight, high-power video light with barn doors. 3400°K output; 8.33 amps; DC; 430 lux at 10 feet; 0.5 lbs ..... \$74.50

**Model 12B Battery Pack.** NiCad rechargeable battery and charger for Woodbury video lights ..... \$149.50

**ORTOFON****VC-030 Video Maintenance Kit**

Cleaning system for VHS VCRs. Cleans entire tape path. Contains cleaning cassette, cleaning fluid, and anti-static screen cleaner in deluxe album box ... \$24.95

**VC-031.** As above for Beta VCRs \$25.95

**O'SULLIVAN****79780 Entertainment Center**

Features dark oak finish; two adjustable component shelves; retractable VCR and turntable shelves; area for 26" monitor; four solid oak doors below; 48.5" W  $\times$  49.5" H  $\times$  21" D ..... \$559.95

**74760 TV/VCR Cabinet**

Accepts 26" monitor or smaller TV; adjustable shelf; pull-down door conceals retractable VCR shelf; rounded-rail design; 29.75" W  $\times$  37" H  $\times$  20.88" D ... \$399.95

**DC980 Audio/Video Center**

Cabinet features four adjustable shelves for audio components; tempered glass



door; retractable VCR shelf; TV shelf to accommodate most 19-inch TVs; storage area below with doors; elm vinyl laminate finish; 47.31" H X 19.36" D X 49" W; 183 lbs ..... \$300.00

**79160 Horizontal Entertainment Center**

Features twin-folding front doors; four adjustable component shelves; 26" television area; adjustable TV shelf; oak laminate finish; solid oak trim; pullout shelf for turntable; twin storage area for albums, tapes; brass hardware. 20.75" H X 22.5" D X 53.36" W ..... \$279.95

**79238 Entertainment Center**

Large TV area, two tempered clear-glass doors protect for components and accessories areas. Large drawer hides accessories; bottom shelf is adjustable or removable. Twin vein-line doors conceal album storage area. 48.5" W X 69" H X 14.75" D ..... \$199.95

**DC933 Video/TV Cabinet**

Cabinet features shelf to accommodate most 19-inch TVs; upper shelf for VCR; tape storage area below with doors; bartonwood vinyl-laminate finish; casters; 49.75" H X 15.88" D X 28.88" W; 91 lbs ..... \$160

**79280 Entertainment Center**

Features twin-tempered clear glass doors over component area, TV area for 19" color TV or 20" monitor; twin vein-line doors on album and accessories storage area. 48.12" W X 47.25" H X 15.5" D ..... \$149.95

**PANASONIC****PK-A789S Power Supply**

Power supply with stereo audio input/output ..... \$65

**20H-20F Camera Extension Cable**

20-ft extension cable ..... \$60

**PK-F35C Adapter**

35-mm slide/negative transfer adapter excluding C-mount cameras ..... \$40

**PHOENIX GOLD****PVW-1000 Video Tape Rewinder/Eraser**

Features photo-electric cell that guards against tape breakage; slow start-up and stop to prevent stretching of tape; 3.5 minutes to rewind or erase a T-120 tape; operates on AC adaptor ..... \$139.95

**PVW-880 Rewinder**

Rewinds videocassette in 3.5 minutes. Photoelectric cell prevents tape breakage. 9.5" W X 3" H X 6.5" D; 3 lbs \$60

**VA-218 High-Isolation A/B Switch Box**

Features 90 dB of isolation; glass epoxy PCB; 0.25 lb ..... \$9.99

**EXT-2 Extend Kit**

Allows extension of rabbit ears or 300-ohm cable to the connection of the TV or videocassette recorder. Gold termination; connection box offers noise suppression ..... \$4.99

**PIVOTELLI****Television Mounting Brackets**

Brackets will hold up to 176 lbs; pivot 360°; swing-out and push-back to wall. Can be mounted at any height and will hold TVs from 12"-25". Steel with plastic covering. In white or black ..... \$49-199

**QUASAR****VE81UN Video Controller**

Video controller switches up to 5 RF input signals to any 3 output devices. Contains picture signal booster amp \$89.95

**THE RACK FACTORY****BX30 Beta Tape Cabinet**

Audio/visual tape rack holds 30 Betamax tapes. Designed for wall mounting or free standing. Walnut grain finish; 21.36" W X 17.75" H X 3.36" D; 15 lbs \$37.95  
**VHS30**. Similar to BX30 except for VHS format ..... \$37.95

**RCA****CGA010 Character Generator**

Character generator with four type sizes (small to extra large). Up to 60 charac-

**THE POWER PACKAGE**

A new line of products designed to extend the performance of your camcorder through innovation, quality, and dependability.

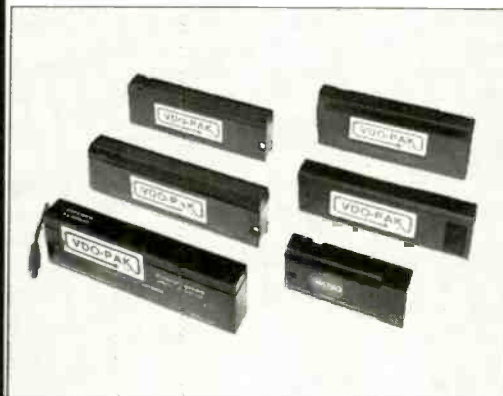
**PART III:**

Revitalize your camcorder or portable VCR with the replacement batteries you've been searching for!

VDO-PAK's complete line of replacement batteries supplement the life of even the oldest camcorder and portable VCR. These are the batteries you haven't been able to find before that will keep your camcorder/VCR in top shape for a guaranteed year! If you can't locate VDO-PAK's extensive replacement battery line—ask your dealer. Tell him VDO-PAK has the power extension your camcorder/VCR needs!

**POWER EXTENSION**

- RB-200:** 2 hr. direct replacement for all Hitachi/RCA VHS camcorders.
- RB-22:** fits all Sony 8mm units—including the HandiCam.
- RB-86:** the source of power for the original Matsushita VHS camcorder.
- RB-85:** covers the power needs of even newer Matsushita VHS camcorders and portables.
- RB-84:** replaces power in Matsushita portables.
- RB-83:** revitalizes newer Matsushita/RCA portables.
- RB-13:** 2 hours of power for JVC's compact VHS/C camcorders.



Outfit your camcorder and portable VCR with the products that support the professionalism of your video hobby—only from VDO-PAK Products.

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800-874-5906  
Fla. 800-342-4900

CIRCLE NO. 30 ON READER SERVICE CARD

ters can be added to a scene at one time and up to 20 groups of characters can be stored and recalled. Characters may be stored in the battery-powered memory (two AA batteries included) for several



months. Up to 40 words can be stored in the word register. Features "curtain" and "window" special effects; stopwatch display; time-lapse capability; built-in belt clip. 8" X 3.25" X 1" ..... \$269.95

#### AV019 Electronic Video Switcher

For use with monitors, VCRs, computers and other video sources. Features electronic switching and selection of up to five different inputs and three outputs. Includes RF signal amplifier .... \$119.95

#### SK406 Surge Suppressor

Protects solid-state equipment from line voltage surges. Features 6, 15 amp, U-grounded outlets; circuit breaker; on/off switch with pilot light; heavy duty 6-foot cord; UL listed ..... \$29.95

#### CPS03 Camera Power Supply

Provides AC power to a video camera when used with a table-top VCR. Features regulated voltage output for steady pictures; control switch for different audio levels; color-coded connectors; 500-watt AC outlet ..... \$75.95

#### AV046 Video Power Pack

Eleven-cell rechargeable 4.5-Ah nickel cadmium battery for use with all 12-volt DC portable video equipment. Features adjustable shoulder strap; built-in belt clip and overcharge prevention. UL-listed charger included. 3.5 lbs ..... \$124.95

#### AC009 Custom Tripod

Video-camera tripod with three-section aluminum legs. Features spring-loaded and slotted pan head; elevator friction control on center column; locking center brace; lever locks; retractable leg spikes. Folded length 27.5", extends to 62.5". 10 lbs, 8 oz ..... \$219.95

### RADIO SHACK

#### 44-1140 Videocassette Rewinder

Rewind or fast-forward VHS-format tapes. Batteries or AC adapter required ..... \$29.95

#### VCR Head Cleaning Systems

*Non-abrasive cleaning systems for heads, capstans, pinch rollers and guides.*

44-1185. Automatic cassette system for VHS ..... \$14.95

44-1186. Automatic cassette system for Beta ..... \$14.95

108 VIDEO BUYERS' GUIDE 1987

#### 44-233 Bulk Tape Eraser

For Beta/VHS, and audio tapes. \$29.95

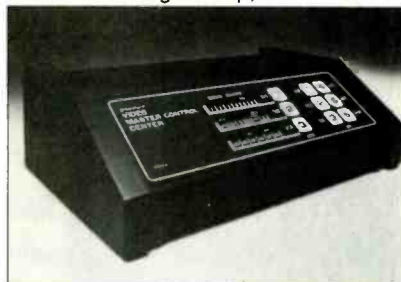
#### Videocassette Cabinets

44-1199. Two drawers. Holds 24 VCR tapes. \$29.95

### RECOTON

#### V612A Master Control Center

Connect up to 6 video components to master device. Operate any of three output functions simultaneously. Features built-in 10 dB signal amp; 75 dB isolation



and insertion; loss of less than 3 dB; LED mode indicators; master keyboard. 7" W X 3.5" H X 5" D; 4 lbs ..... \$149.95

#### V161 VCR Camera Tripod

Heavy-duty tripod features spring-loaded pan/tilt head; telescoping legs open to 57.5"; geared crank-column with built-in leveler; rubber feet; 4.5 lbs ... \$129.95

#### V141 Wet Head Cleaner

VHS head cleaner for removing dust and oxide build-up on heads, capstan and tape path. Features specially bonded cleaning tape. .... \$18.99

#### V143 VCR Fashion Dust Cover

Universal dust cover features quilted padded nylon; installation cutouts; full-width clear front window. Available in Black or Grey; fits VHS or Beta VCR ..... \$14.99

### SAC

#### VBX-10 Video Storage System

Wire rack contains ten plastic boxes to store Beta or VHS tapes. For wall-mount or table-top; black; stackable ..... 35

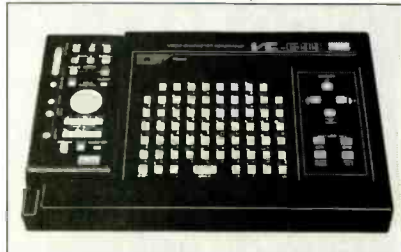
#### KDV-36 Folding Shelf System

Holds 36 video cases ..... \$30

### SANSUI

#### VC-G99 Video Character Generator

Character generator for videotape titling. Features 20 characters per line, 7 lines



per title; 124 different characters in four languages; easy-to-use keyboard \$400.00

#### AT-700 Programmable Timer

Automatically activates equipment for playback or recording at any set time within 24-hour period. Features clock and three 700-W total outlets. \$100.00

### SCITECH

#### SEG-31 Special Effects Generator

Two-camera special effects generator with manual wipe and variable speed autowipe. Features camera 1, 2 and effect selector; fade; H, V, corner or plug-in effect selector; variable speed fade to black; fade from black; intercom plug; four effects plus modular wipe cartridges; vertical interval switching; stereo Hi-Fi audio-follow-video; load switches; videocassette recorder start and stop control. 8" W X 2" H X 4.6" D; 2.2 lbs ..... \$974

### SCOTCH

#### 4500 Action Series Battery

Portable nickel cadmium battery designed for use with portable VCRs, and anything else that can be plugged into a universal 12-V car cord adaptor. Provides up to 8 hours of recording, shooting, lighting, and playing time. Unit can be recharged for re-use in 16 hrs. Features flame-retardant impact case; recharging unit ..... \$139.95

#### Headcleaning Videocassette

Headcleaning cassette which uses a specially formulated tape with a prerecorded message. Played like a standard videocassette. Cleans heads while playing and prerecorded message is shown on screen when heads are clean. Cassette contains five minutes of cleaning video tape ..... \$19.95

### SONRISE CABINET SYSTEMS

#### SW-6 Video Cabinet

Horizontal cabinet with wood-framed, bronzed-glass doors, wood-framed glass lift top for turntable and 1 adjustable shelf on left side. Storage drawer on right side. 42.5" W X 25.25" H X 17.5" D; 90 lbs ..... \$750

#### SP-12R Video Cabinet

Video cabinet designed to accommodate 27-inch monitor and VCR with monitor concealed behind solid tambor doors with room below for storage. 32" W X 49" H X 17.5" D; 90 lbs ..... \$736

#### SJ-7 Lowboy Video Cabinet

Horizontal cabinet with wood-framed bronzed-glass doors on left side of unit and adjustable shelf. Right side is open with a slide-out shelf for videocassette recorder storage. 42.5" W X 25.25" H X 17.5" D ..... \$636

#### SC-9 Vertical TV Cabinet

Video cabinet with tambor doors to conceal up to 19-inch monitors. Doors below for VCR storage. 32" W X 34.5" H X 17.5" D; 80 lbs ..... \$592

Continued on page 123



# 13 VIDEOTAPE

## AIWA

### 8-MM Videotape

P6-90Y. 90 min	\$16.00
P6-60Y. 60 min	\$14.00

## BASF

### Pure Chrome VHS Videocassettes

Pure chrome videotape with long-term stability.

T-160. Playing time 2.66-5.33-8 hrs	\$15.95
T-120. Playing time 2-4-6 hrs	\$8.95

### HG Chrome VHS Videocassettes

Super high-grade chrome videotape with high S/N for brighter pictures and clean running tape.

T-160. Playing time 1-2-3 hrs	\$16.55
T-120. Playing time 2-4-6 hrs	\$11.55
TC-20. Playing time 20-60 mins	\$10.95

### Hi-Fi VHS Videocassettes

Super high-grade Hi-Fi videocassettes for true high-fidelity audio.

T-120. Playing time 2-4-6 hrs	\$12.95
T-160 HG. Playing time 2.66-5.33-8 hrs	\$18.55

### Pure Chrome Beta Videocassettes

Videotape with pure chrome formulation for lower noise and brighter picture.

L-750. Playing time 3-4½ hrs	\$8.95
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### HG Beta Videocassette

Super high-grade chrome videotape with high-density chrome for improved sound and picture.

L-750. Playing time 3-4.5 hrs	\$11.55
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## CERTRON

### VHS Stereo High-Grade Tape

T-120	\$8.99
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## GEMINI INDUSTRIES

### L-500 Beta Videotape

Video S/N  $\pm 2$  dB; color S/N  $\pm 2$  dB; audio sens at 400 Hz  $\pm 1$  dB. 1-2-3 hours

	\$4.99
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### T-120D VHS Videotape

Video S/N  $\pm 2$  dB; color S/N  $\pm 2$  dB; audio sens at 400 Hz  $\pm 1$  dB

	\$4.99
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## IRISH

### VHS Videocassette Tape

T-120. Playing time 2¼/6 hrs	\$9.95
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## KODAK

### Kodavision 8-mm Videotape

Metal-particle tape.

MP-90	\$15.99
MP-60	\$13.99

### High-Grade VHS Videotape

With high-density particle packing for re-recording, erasure, and signal stability.

T-160 HGX	\$19.99
T-120 HGX	\$11.99
T-90 HGX	\$11.79
T-60 HGX	\$11.49
T-30 HGX	\$10.99

### Hi-Fi Videotape

Ultra-fine-grain magnetic particles provide high signal-to-noise ratio. Tape features dust-resistant leaders to minimize static electric buildup.

HFT-120. VHS format	\$14.99
HFL-750. Beta format	\$14.99

### VHS Videotape

T-160	\$16.99
T-120	\$9.99
T-90	\$9.69
T-60	\$9.49
T-30	\$8.99

### High-Grade Beta Videotape

With high-density particle packing for re-recording, erasure, and signal stability.

L-830 HGX	\$16.49
L-750 HGX	\$11.99
L-500 HGX	\$10.99
L-250 HGX	\$9.49

### Beta Videotape

L-750	\$9.99
L-500	\$8.99
L-250	\$7.99

## LASER by SWIRE MAGNETICS

### VHS Videotape

T-120 Standard Grade. 2-4-6 hours	\$6.99
T-120 High Grade. 2-4-6 hours	\$8.69

## KONICA

### Super Pro Videotape

High-density formulation for high-band and standard VCRs. Good for live recording with portables and camcorders.

VHS T-120. 2-4-6 hrs	\$19.95
Beta L500. 1-2-3 hrs	\$18.95

### VHS and Beta Super Hi-Fi Grade Videotape

High density formulation for high-fidelity video. Shows improvement in fine detail resolution, video S/N, and audio frequency response.

VHS T-120. 2-4-6 hrs	\$14.95
Beta L750. 1.5-4.5 hrs	\$14.95
Beta L500. 1-3 hrs	\$13.95

### MP6 Series 8-mm Cassettes

Metal particle formulation.

MP6-90S. 90 min	\$16.95
MP6-60S. 60 min	\$13.95

### Super HG Videotape

VHS T-120. 2-4-6 hrs	\$10.95
Beta L750. 1.5-3-4.5 hrs	\$11.95
Beta L500. 1-2-3 hrs	\$10.95

### SSR Videotape

VHS T-120. 2-4-6 hrs	\$9.95
VHS T-60. 1-2-3 hrs	\$8.95
Beta L750. 1.5-3-4.5 hrs	\$9.95
Beta L500. 1-2-3 hrs	\$8.95

## MAXELL

### Standard Epitaxial VHS Videotape

Magnetic video recording tape with a stronger base film for durability and stability. Video signal-to-noise ratio +2.5 dB; color signal-to-noise ratio +3.7 dB; audio signal-to-noise ratio +3 dB; audio sensitivity +1.3 dB; video output +1.3 dB; chroma output +1.2 dB.

T-60. 1-2-3 hours	\$8.99
T-120. 2-4-6 hours	\$9.99
T-160. 2.66-5.33-8 hours	\$14.99

### Standard Epitaxial Beta Videotape

Beta videotape with a durable-base film and surface coating. Video signal-to-noise ratio +2.5 dB; color signal-to-noise ratio +3.2 dB; audio signal-to-noise ratio +2 dB; audio sensitivity +1.5 dB; video output +1.5 dB; chroma output +1.7 dB.

L-500. 1-2-3 hours	\$8.99
L-750. 1.5-3-4.5 hours	\$9.99
L-830. 1.66-3.33-5 hours	\$14.99

### High-Grade Epitaxial VHS Videotape

VHS videotape with small densely-packed high-grade epitaxial particles for improved performance in extended-play modes. Video signal-to-noise ratio +3 dB; color signal-to-noise ratio +4 dB; audio S/N +3.3 dB; audio sens +2 dB; video output +2 dB; chroma output +2 dB.

HGX T-60. 1-2-3 hours	\$11.99
HGX T-120. 2-4-6 hours	\$12.99
HGX T-160. 2.66-5.33-8 hours	\$17.99

These listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses are given in the directory beginning on page 43.

**High-Grade Epitaxial Beta Videotape**

Beta videotape with small densely packed oxide particles for improved performance in *Bill* mode. Video signal-to-noise ratio +3.3 dB; color signal-to-noise ratio +3.3 dB; audio signal-to-noise ratio +2.5 dB; audio sensitivity +2 dB; video output +2 dB; chroma output +2.5 dB.

**HGX L-500.** 1-2-3 hours ..... \$11.99  
**HGX L-750.** 1.5-3-4.5 hours ..... \$12.99  
**HGX L-830.** 1.66-3.33-5 hours .. \$17.99

**High-Grade Gold Epitaxial VHS Videotape**

VHS videotape with improved audio qualities for use with Hi-Fi videocassette recorders. Video signal-to-noise ratio +4.3 dB; color signal-to-noise ratio +5.3 dB; audio signal-to-noise ratio +4 dB; audio sensitivity +2 dB; video output +2 dB; chroma output +2.1 dB.

**HGX Gold Hi-Fi T-60.** 1-2-3 hours \$15.99  
**HGX Gold Hi-Fi T-120.** 2-4-6 hours \$16.99

**High-Grade Gold Epitaxial Beta Videotape**

Beta videotape with low skew and jitter for better quality Hi-Fi and stereo sound video recording. Video signal-to-noise ratio +4 dB; color signal-to-noise ratio +4.3 dB; audio signal-to-noise ratio +3.5 dB; video output +2.5 dB; chroma output +2.5 dB.

**HGX Gold Hi-Fi L-500.** 1-2-3 hours \$15.99  
**HGX Gold Hi-Fi L-750.** 1.5-3-4.5 hours ..... \$16.99

**High-Grade Gold VHS-C Videotape**

Video signal-to-noise ratio +4.3 dB; color signal-to-noise ratio +5.3 dB; audio signal-to-noise ratio +4 dB; audio sensitivity +2 dB; chroma output +2.1 dB

**HGX TC-20.** 20 min ..... \$9.99

**Professional-Quality VHS Videotape**

VHS videotape with molecularly-bonded superfine magnetic particles on an ultra-smooth base film. Video signal-to-noise ratio +6.3 dB; color signal-to-noise ratio +6 dB; audio S/N +3.9 dB; audio sensitivity +2 dB; chroma output +2.1 dB.

**RX Pro T-120.** 2-4-6 hours ..... \$19.99

**Professional-Quality Beta Videotape**

Beta videotape featuring molecularly bonded superfine magnetic particles on an ultra-smooth base film. Video signal-to-noise ratio +4.7 dB; color signal-to-noise ratio +4.5 dB; audio S/N +3 dB; audio sensitivity +2 dB; chroma output +2.5 dB.

**RX Pro L-500.** 1-2-3 ..... \$18.99

**Metal-Particle 8-mm Videotape**

8-mm videotape with increased anti-oxidation formula to help prevent loss of "recordability" due to oxidation.

**MP-15.** 0.25 hours ..... \$9.99  
**MP-30.** 0.5 hours ..... \$11.99  
**MP-60.** 1 hour ..... \$14.99  
**MP-90.** 1.5 hours ..... \$16.99  
**MP-120.** 2 hours ..... \$19.99

**MEMOREX by MEMTEK****VHS Pro Cam Series Videocassettes**

VHS videotape designed for portable video recording. Features 20% stronger

cassette shell molded in high impact ABS plastic; heavy-duty base film with resistance to damage and stretching; anti-static mechanism that prevents static build-up; safeguard storage case with locking mechanism to keep out dust.

**T-120.** 2-4-6 hours ..... \$14.99

**VHS Pro Hi-Fi Series Videocassettes**

VHS videotape designed for Hi-Fi and PCM digital video recording. Features permagass binder system that helps eliminate oxide shedding; anti-static mechanism that prevents static build-up; safeguard storage case.

**T-120.** 2-4-6 hours ..... \$12.99

**VHS HG Master Series Videocassettes**

VHS videotape designed for extra performance in all critical recording parameters. For use in master recording or in home video cameras. Includes safeguard dustproof plastic storage case.

**T-120.** 2-4-6 hrs ..... \$11.99

**VHS Pro Series Plus Videocassettes**

VHS videotape designed for high chrome output for brilliant life-like color, high S/N for picture clarity and stability. Includes dustproof plastic storage case.

**T-120.** 2-4-6 hrs ..... \$9.99

**VHS High-Standard Series Videocassettes**

VHS videotape designed for general purpose video recording. Features improved tape formulation and color reproduction.

**T-120.** 2-4-6 hours ..... \$8.99

**Beta High-Grade Videocassettes**

Beta videotape designed for extra performance in all critical recording parameters. For use as master recording or in home video cameras.

**L-750.** 1.5-3-4.5 hours ..... \$11.99

**Beta High-Standard Videocassettes**

Beta videotape designed for general purpose video recording.

**L-750.** 1.5-3-4.5 hours ..... \$9.99

**PANASONIC****Premium Standard VHS Videotape**

General-purpose tape for wide range of uses. Time shifting; shorter lengths for economical recording; up to 8 hours recording time.

**NV-T30 PSD** ..... \$6.00  
**NV-T60 PSD** ..... \$7.00  
**NV-T120 PSD** ..... \$9.00  
**NV-T160 PSD** ..... \$12.50

**Super High-Grade VHS Videotape**

Designed for master recording and making home movies.

**NV-T60 SHG** ..... \$9.00  
**NV-T120 SHG** ..... \$12.00

**Super Hi-Fi VHS Videotape**

For Hi-Fi video use. Designed for low noise and wide frequency response.

**NV-T60 HF** ..... \$10.00  
**NV-T120 HF** ..... \$13.00

**QUASAR****VHS Format Video Tape****VF-T120 Hi-Fi Videotape**

Hi-Fi videotape designed for extended use. Formulated to deliver high output with low noise. Recommended for mastering Hi-Fi recordings. Video signal-to-noise +3 dB; color signal-to-noise +5 dB; audio sensitivity +1.5 dB; play lengths 2, 4, or 6 hours ..... \$8.99

**VG-T120G Super High-Grade Videotape**

High-density particle formulation for improved color saturation and video resolution. Recommended for use in SLP mode or camera recordings. Video signal-to-noise +1 dB; color signal-to-noise +5 dB; audio sensitivity +1 dB; play lengths 2, 4, or 6 hours ..... \$8.49

**VC-T120R SGT Videotape**

Recommended for off-air time-shift recordings. Features picture sharpness, color stability, and minimal drop-outs. Video S/N better than +1 dB; color S/N better than 2 dB; audio sensitivity 0.5 dB; play lengths 2, 4, or 6 hours ..... \$6.99

**RCA****VHS Videotape**

**T-60.** 1-2-3 hours ..... \$7.95  
**T-120.** 2-4-6 hours ..... \$8.95  
**T120 SHG.** 2-4-6 hours ..... \$11.95  
**T-160.** 2.5-5.3-8 hours ..... \$26.95

**Beta Videotape**

**L-500.** 1-2-3 hours ..... \$7.95  
**L-750.** 1.5-3-4-5 hours ..... \$8.95  
**L-750 SHG.** 1.5-3-4-5 hours ..... \$11.95

**REALISTIC****44-410 VHS Videotape**

Supertape gold high grade; playing time 2-4-6 hours.

**T-120** ..... \$9.99

**44-400 VHS Videotape**

Supertape; playing time 2-4-6 hours.

**T-120** ..... \$7.99

**44-475 Beta Videotape**

Supertape; playing time 2-4-6 hours.

**L-750** ..... \$7.99

**PRICES LISTED**

are only the manufacturers' suggested retail prices  
 (also referred to as *list* prices);  
 actual selling prices are set by each dealer.  
 All prices are subject to change without notice.



## SCOTCH

**EG VHS Videotape**

Features Anachron cobalt encapsulated ferric oxide particles; video signal-to-noise ratio 2.0 dB; color signal-to-noise ratio 4.0 dB; audio sensitivity 2.0 dB; video output 2.0 dB; chroma output 1.0 dB. T-120. 2-4-6 hours ..... \$6.99

**EG Beta Videotape**

Features Anachron cobalt encapsulated ferric oxide particles; video S/N 1.0 dB; color S/N 1.0 dB; audio sens 1.5 dB; video output 1.0 dB; chroma output 1.0 dB. L-500. 1-2-3 hours ..... \$6.49  
L-750. 1.5-3-4.5 hours ..... \$6.99

**EG Plus High-Grade VHS Videotape**

Video S/N 3.0 dB; color S/N 5.0 dB; audio sens 1.5 dB; video output 2.0 dB; chroma output 1.0 dB. T-120 EG Plus. 2-4-6 hours ..... \$8.99  
T-160 EG Plus. 2.6-5.3-8 hours . \$10.99

**EG Plus High-Grade Beta Videotape**

Video signal-to-noise ratio +2.0 dB; color signal-to-noise ratio 5.0 dB; audio sens 1.5 dB; video output +1.0 dB; chroma output 1.0 dB. L-830 EG Plus. 1.6-3.3-5 hours . \$10.99  
L-750 EG Plus. 1.5-3-4.5 hours . \$8.99

**EXG VHS Videotape**

Features extra high-grade tape formulation; Static Barrier™ backcoating; time left recording gauge; laser scan inspection. Video signal-to-noise ratio +5.5 dB; color signal-to-noise ratio +5.1 dB; audio sensitivity +1.5 dB; RF output +4.0 dB; color output +6.3 dB; audio output uniformity 0.5 dB. T-120. 2-4-6 hours ..... \$9.99

**EXG Beta Videotape**

Features extra high-grade tape formulation; Static Barrier™ backcoating; time left recording gauge; laser scan inspection. Video signal-to-noise ratio +2.5 dB; color signal-to-noise ratio +5.0 dB; audio sensitivity +1.5 dB; audio output uniformity 0.5 dB; RF output +4.5 dB; color output +2.0 dB. L-750. 1.5-3-4 hours ..... \$9.99

**EXG Pro Videotape**

Features extra high-grade tape formulation; Static Barrier™ backcoating; proprietary anti-static treatment on cassette shell; anti-static leader tape; high impact cassette shell; virtual elimination of dropout caused by dirt and transient static peaks. T-120. VHS-format. Video signal-to-noise +5.5 dB; color signal-to-noise +5.1 dB; audio sensitivity +1.5 dB; RF output +4.0 dB; color output +6.3 dB; audio output uniformity 0.5 dB; frequency response 20-20,000 Hz. 2-4-6 hrs ..... \$12.99  
L-750. Beta-format. Video signal-to-noise +2.5 dB; color signal-to-noise +5.0; audio sensitivity +1.5 dB; RF output +4.5 dB; color output +2.0 dB; audio output uniformity 0.5 dB; frequency response 20-20,000 Hz. 1.5-3-4 hours ..... \$12.99

**EXG Hi-Fi Videotape**

Features extra high-grade tape formulation; high quality audio reproduction with Hi-Fi videocassette recorders; Static Barrier™ backcoating. Frequency response 20-20,000 Hz; dynamic range 91 dB; audio sensitivity +1.5 dB; audio output uniformity 0.5 dB; total harmonic distortion 0.3%.

T-120. VHS-format. Video signal-to-noise +5.5 dB; color signal-to-noise +5.1 dB; RF output -4.0 dB; color output +6.3 dB. 2-4-6 hours ..... \$10.99  
L-750. Beta-format. Video signal-to-noise +2.5 dB; color signal-to-noise +5.0 dB; RF output +4.5 dB; color output +2.0 dB. 1.5-3-4 hours . . . \$10.99

**EXG VHS Camera Cassette**

Features anti-static system including Static Barrier™ backcoating, anti-static tape leader and proprietary 3M anti-static shell treatment. Video signal-to-noise ratio +5.5 dB; color signal-to-noise ratio +5.1 dB; audio sens 1.5 dB; RF output +4.0 dB; color output +6.3 dB. T-120. 2-4-6 hours ..... \$11.99

**EXG Beta Camera Cassette**

Features anti-static system including Static Barrier™ backcoating, anti-static tape leader and proprietary 3M anti-static shell treatment. Video signal-to-noise ratio +5.5 dB; color signal-to-noise ratio +6.3 dB; audio sens 1.5 dB; RF output +4.5 dB; chroma output +2.0 dB. L-750. 1.5-3-4.5 hours ..... \$11.99

**8-mm Videotape**

8-mm videotape with metal-particle formulation. MP P6-120. 2 hours ..... \$17.99  
MP P6-90. 1.5 hours ..... \$15.99  
MP P6-15. 15 minutes ..... \$8.49

## TDK

**HD-Pro Videocassettes**

Designed for videophiles to be virtually free dropouts with 6 dB improvement in both luminance and chrominance S/N ratios. Packing density 12 times higher than TDK's standard reference tape. New HDD binder system and ultra-flat smooth base film, 1 micrometer back coating; SQ cassette shell. Clamshell library case. Video S/N ±6.0 dB; color S/N ±6.6 dB (VHS); audio frequency response ±2.5 dB (VHS); VHS (±1.0 dB); Beta (±1.5 dB). VHS T-120. (2-4-6 hrs) ..... \$17.40  
VHS T-20 ..... \$11.80  
Beta L-750 ..... \$17.40  
Beta L-500 ..... \$12.20  
Beta L-125 ..... \$10.90

**EHG Hi-Fi VHS Videocassettes**

For critical recording on Hi-Fi VCRS and for PCM digital audio recordings. Uses ultra-refined Super Avilyn particles. TDK's high-density/durability-binder system, ultra-smooth/flat-base film and high-conductivity back coating. Precision-made SQ shell. Video S/N ±4.5 dB; color S/N ±5 dB; audio FR 20-20,000 Hz; audio sens ±1.0 dB; Bet value 35 m2/g.

VHS T-120 ..... \$14.70  
VHS T-60 ..... \$12.30

**EHG Hi-Fi Beta Videocassettes**

For critical recording on Hi-Fi VCRS and for PCM digital audio recordings. Uses ultra-refined Super Avilyn particles. TDK's high-density/durability-binder system, ultra-smooth/flat-base film and high-conductivity back coating. Precision-made SQ shell. Video S/N ±4.5 dB; color S/N ±5 dB; audio FR 20-20,000 Hz; audio sens ±1.0 dB; Bet value 35 m2/g.

Beta L-750 ..... \$14.70  
Beta L-500 ..... \$12.30

**SA E-HG VHS Videocassettes**

Extra High-Grade Super Avilyn formulation for higher output than standard videocassettes. Designed for improved performance at all speeds, especially in superlong play mode. VHS T-160 ..... \$16.00  
VHS T-120EHG 2-4-6 hrs ..... \$11.80  
VHS T-60EHG ..... \$9.90

**SA E-HG Beta Videocassettes**

Extra High-Grade Super Avilyn formulation for higher output than standard videocassettes. Designed for improved performance at all speeds, especially in superlong play mode. L-830EHG ..... \$13.10  
L-500EHG ..... \$11.80  
L-750EHG ..... \$9.90

**Super Avilyn HS Videocassettes**

TDK's High Standard tape with HDD binder system, SQ shell mechanism and superflat film base. Video S/N (±5 dB); Bet a 25 m2/g; Beta (±1.0 dB); coercivity 690 (59.9) oersteds. VHS-120. .... \$10.80  
Beta-750. .... \$10.80  
VHS T-160. .... \$12.70  
VHS T-120. .... \$9.40  
VHS T-60. .... \$8.00  
VHS T-30. .... \$7.00  
Beta L-750. .... \$9.40  
Beta L-500. .... \$6.60

**Super Avilyn Compact Videocassette**

Extra High-Grade Super Avilyn 0.5" VHS-Compact videocassette designed for compact portable VCRs and camcorders. Compatible with all home VHS recorders when used with a special adapter. Features same improvements as standard-size equivalent. TC-20EHG. 20 min ..... \$9.20

**MP 8-mm Videocassettes**

Feature high-density metal powder "Super Finavinix" to meet demands of 8-mm recording. P6-120MP ..... \$19.99  
P6-90MP ..... \$15.99  
P6-30MP ..... \$12.99

For explanations of abbreviations, specifications, and technical terms, turn to the vocabulary on page 38.

(Continued from page 97)

with no change required. Features two video/stereo audio inputs; one audio left+right, one video output; two 2.5" and two 6.5" speakers; 34 remote control functions; remote RF and video switches; sleep timer; channel check. Video section: horizontal resolution 400 lines; cable-ready tuner. Audio amplifier section: 10 W/ch; frequency response 100-18,000 Hz. 37" W × 44.6" H × 22.6" D ..... \$2,600

#### PR4970YK Projection Stereo Television

40-inch projection color stereo television. Set decodes multichannel TV stereo signal with no change required. Features two audio left+right, two video inputs; one audio left+right, one video output; two 2.5" and two 6.5" speakers; 34 remote control functions; remote RF and video switches; sleep timer; channel check. Video section: horizontal resolution 400 lines; receives 12 VHF, 56 UHF, 87 CATV channels. Audio amplifier section: 10 watts-per-channel; frequency response 100-18,000 Hz. 38.5" W × 44" H × 22.12" D; 219 lbs ..... \$2,400

#### PR4720AK Projection TV

37-inch projection television with built-in MTS/SAP decoder. Features TV/VCR unified remote control; auto color system with light sensor; 155-channel cable-ready tuner; L/R audio input/output; L/R variable audio output; video input/output jacks; comb filter; 330/400 line resolution (tuner/direct video source); 5 W/ch stereo amplifier; 2 RF inputs with remote switching; sleep timer; previous channel recall; channel censor; two five-inch speakers; bass, treble and balance controls; contemporary cabinet with simulated oak finish. 43.25" H × 35.36" W × 22.12" D; 400 lbs ..... \$2,150

### SANYO

#### PTV 40 Projection Television

40-inch diagonal rear-projection television with built-in stereo circuitry. Features full complement of audio and video jacks; 30-key infrared remote control; on-screen multifunction display; automatic fine tuning; bilingual capability; on/off timer. Resolution 320 lines off air, 400 lines direct video input; tuning range: VHF 2-13, UHF 14-83, CATV 58 channels; speaker 6.5" round × 2, 2" round × 2; power consumption 230 watts; floor space required 38.6 × 23 square inches; ceiling height required 45.9 inches; 250 lbs ..... \$2,200

**PTV 41.** Same as above with accordion-style front panel doors. 267 lbs. \$2,300

### SHARP

#### 40KD855 40-Inch Projection Television

40-inch rear-projection television with built-in MTS decoder and 20-key random-access remote control with channel flashback and RF switching. Features 140-channel cable capability; in-line three-tube, three lens projection system; high-resolution comb filter; 240 FL

advanced projection tube technology; MTS/mono switching; sharpness control; 2 sets of video inputs; 2-way RF inputs/outputs; 2-way, 2-speaker sound system; left+right audio inputs/outputs; compact woodgrain cabinet with full-foldback doors. Horizontal resolution 330 lines (400 lines with direct video). 41" W × 25" D; 209 lbs ..... \$2,795

**40KD855.** Same as 40LD876 but without foldback cabinet doors ..... \$2,595

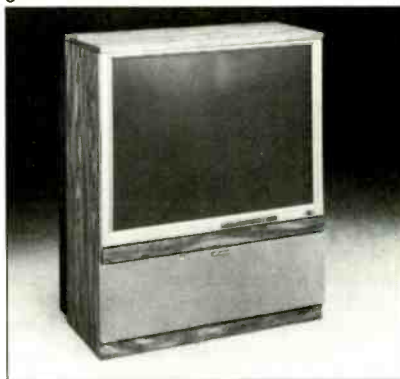
### SYLVANIA

#### RSF414 Projection Receiver/Monitor

37-inch rear-projection receiver/monitor with built-in MTS decoder. Features wireless TV/VCR/CATV remote control; 180 degree black matrix screen (180° viewing angle); 152-channel random-access cable-ready tuner; programmable channel scan; last channel recall; liquid-cooled optically-coupled lens system; comb filter; room light monitor; auto fine tuning; 400/330 line resolution (composite/tuner); two 5" woofers, two 2" tweeters; expanded audio switch; bass, treble and balance controls; video/stereo audio input/output jacks. Contemporary oak-finish cabinet with recessed casters. 36" W × 40.75" H × 21" D ..... \$2,199

#### RSF411 Projection Receiver/Monitor

37-inch rear-projection receiver/monitor with built-in MTS decoder. Features wireless TV/VCR remote control; 120 degree black matrix screen; 152-channel



random-access cable-ready tuner; programmable channel scan; last channel recall; liquid-cooled optically-coupled lens system; comb filter; room light monitor; auto fine tuning; 400/330 line resolution (composite/tuner); two 4" × 6" speakers; bass, treble and balance controls; video/stereo audio input/output jacks. Contemporary oak-finish cabinet with recessed casters. 33" W × 40" H × 20" D ..... \$1,999

### RCA

#### DVM4000 Projection Monitor/Receiver

Dimensia rear-projection monitor/receiver with 40-inch screen and built-in MTS/SAP decoder. Features built-in microprocessor; Dimensia control center remote control; full-resolution color processing circuitry; video noise reduction; CCD comb filter; 350 line resolution; direct-access cable-ready tuner; two 6"-

high compliance woofers; two 2" tweeters. 40.88" H × 36.36" W × 26.36" D; 195 lbs; ebony finish ..... \$2,990

**DVM4001.** Same as DVM4000 with oak finish ..... \$2,990

#### PMR500 45" Projection Monitor/Receiver

45-inch rear-projection monitor/receiver with built-in MTS/SAP decoder. Features full-resolution color processing circuitry; video noise reduction; CCD comb filter; Digital Command Center remote control for RCA TV, VCR and audio system; Digital Command audio/video system compatibility; liquid-cooled/liquid coupled projection system; automatic picture control; direct-access cable-ready tuner; 2 video inputs with stereo audio; 2 audio outputs (1 fixed, 1 variable); external speaker terminals. Oak cabinet with concealed casters. 42.75" H × 40" W × 26.36" D ..... \$2,499

#### PMR450 Projection Television

45-inch rear-projection television with built-in MTS/SAP decoder. Features full-resolution color processing circuitry; video noise reduction; CCD comb filter; 18-button remote control; silicon-gel coupled projection system; automatic picture control; direct-access cable-ready tuner. Hickory cabinet with concealed casters. 44.5" H × 40" W × 24.5" D ... \$2,049

### ZENITH

#### PV4543P Projection Stereo Television

45-inch black-matrix-screen stereo TV with built-in stereo decoder. Features 178-channel capability; quartz-controlled electronic tuning; on-screen audio display; favorite-channel scanning; two 6.5" round woofers, two 2.5" tweeters; video/audio input and output jacks; remote antenna switch. 44.62" H × 41" W × 27.25" D ..... \$2,849

#### PV4547P Projection Stereo Television

45-inch black matrix screen stereo TV. Features quartz-controlled electronic tuning; Computer Space Command 6500 remote control; on-screen audio display; favorite-channel scanning; 5-watt stereo amplifier with two 6.5" round woofers, two 2.5" tweeters; video/audio input and output jacks. 44.62" H × 27.24" W × 27.25" D ..... \$3,099

#### PV800PG Projection Monitor

8-foot projection TV. Features multiple monitor loop; black level; color level; tint; range finder on/off. Audio section: 15 watts output; input impedance 100 kohms, phono input jack; power 120 V, 60 Hz. Resolution 330 lines .... \$1,995

These listings are based on data provided by the manufacturers. For more product information, contact an authorized dealer or the manufacturer directly. Manufacturers' addresses are given in the directory beginning on page 43.



# 14 VIDEO SPEAKERS

## AMBICO

### V-0690 Audio for Video Speaker

Next-to-TV compression-loaded speaker with metal cylinder and anti-magnet caps on speaker magnet. Wood with silver or black veneer finish. Features built-in 8-watt amp; 3 inputs (TV, VCR, AUX); input switcher; bass, treble, volume controls; AC power supply; on/off switch; stereo/ambient switch. 1 woofer: 4" cone. 1 tweeter: 2" cone. Frequency response 50-20,000 Hz  $\pm$  3 dB; minimum power 6 watts; maximum power 9 watts; input impedance 50 kilohms; sensitivity 500 mV at 1% THD, 1,000 Hz ..... \$170/pr

## B & W LOUDSPEAKERS LTD.

### VM2 Video Acoustic Monitor

Acoustic-suspension floor-standing speaker with 8" cone woofer, 8" cone midrange, 1" polyamide dome tweeter. Features Zero Magnetic Field drivers allowing close placement to video monitors. FR 53-20,000 Hz  $\pm$  3 dB; power range 10-100 watts; sens 91 dB SPL/W/m; impedance 8 ohms; black or gray finish; 11.5"  $\times$  26.75"  $\times$  12.63" ..... \$598/pr

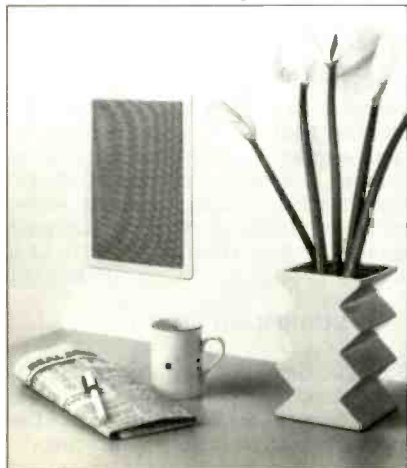
### VM1 Video Acoustic Monitor

Ported floor-standing speaker with 8" cone woofer, 1" polyamide dome tweeter. Features ZMF drivers as in VM2. Frequency response 70-20,000 Hz  $\pm$  3 dB; power range 10-75 watts; sensitivity 91 dB SPL/W/m; impedance 8 ohms; black or gray finish; 10.25" W  $\times$  19.25" H  $\times$  7.88" D; 19 lbs ..... \$398/pr

## BOSTON ACOUSTICS

### 360 2-Way Speaker

Flush-mount speaker designed for installation in walls or ceilings. Can be used



as a rear-channel speaker in any audio/video system. Features 6.5" long-throw woofer; 1" CFT dome tweeter. FR 48-20,000 Hz  $\pm$  2 dB; 8-ohms imp; power range 5-60 watts. Requires 3" mounting depth ..... \$400/pr

### A40V Video Monitor Speaker

Compact speaker designed for use with video monitors and color televisions. Features Magnaguard magnetic shielding for placement next to a video receiver or monitor without affecting picture quality; 0.75" Ferrofluid tweeter, 6.5" long-throw woofer; power range 5-50 watts; FR 68-20,000 Hz  $\pm$  3 dB; imp 8 ohms; 13.5" H  $\times$  8.25" W  $\times$  7.25" D; 9 lbs. Black finish ..... \$180/pr

## INFINITY

### VRS-2 Video Speaker

Self-powered acoustic-suspension bookshelf speaker. Features built-in 25 W/ch amplifier; magnetic shielding; adjustable cabinet height; 8" woofer; 1"



dome tweeter; FR 43-22,000 Hz  $\pm$  3 dB. 9.5" W  $\times$  21.5-25" H  $\times$  11.5" D; 26 lbs each ..... \$499/pr

### VRS-3 Video Speaker

Acoustic-suspension bookshelf speaker. Features magnetic shielding; adjustable cabinet height; 8" woofer; 1" dome tweeter; FR 50-22,000 Hz  $\pm$  3 dB; max power 100 watts; min power 5 watts. 9.5" W  $\times$  21.5-25" H  $\times$  11.5" D; 24 lbs each ..... \$299/pr

### VRS-4 Video Speaker

Acoustic-suspension bookshelf speaker. Features magnetic shielding; 6.5" woofer; 0.75" dome tweeter; FR 59-22,000 Hz  $\pm$  3 dB; max power 75 watts; min power 5 watts. 11 lbs each ..... \$199/pr

## NAD

### 8100 Video Speaker

Bi-amplified acoustic-suspension speaker for bookshelf or floor use. Features 5" woofer; 0.75" dome tweeter; magnetic field less than one gauss; dynamic signal processing for clean bass response; magnetic fluid-cooled tweeter. Output: 15 watts-woofer; 15 watts-tweeter; frequency response 60-20 Hz  $\pm$  3dB; flat-black finish; 7.25" W  $\times$  19.25" H  $\times$  10" D; 18 lbs ea ..... \$278/pr

## NAIAD

### T60 Hifidelivision Video Stand/Speaker

Floor-standing video stand with built-in ported video speakers. Speakers feature 6" cone woofer and 1.5" cone tweeter. Cabinet wall lined with MU metal. Walnut or rosewood vinyl finish. FR 40-16,000 Hz  $\pm$  3 dB; sens 90 dB SPL/W/m; max power 50 W; min power 10 W; imp 8 ohms. 37.25" W  $\times$  20.25" H  $\times$  16" D; 60 lbs ..... \$179/pr

## NEC

### RS-100 Video Speaker

Floor-standing video speaker with passive dual-transmission path; low-frequency section with passive termination. Features 10" polypropylene mass-loaded passive radiator; two 8" polypropylene long-throw woofers; 35-mm cambric dome midrange; 1" elliptical dome tweeter; poly-arc adjustable high-frequency array (lead-shielded on one speaker). Frequency response 28-20,000 Hz  $\pm$  3 dB; minimum power 25 watts; maximum power 200 watts; sensitivity 90 dB SPL/W/m; impedance 4 ohms. 14" W  $\times$  42" H  $\times$  16" D; 103 lbs each; fine oak veneer ..... \$1,500/pr

### RS-500 Video Speaker

Floor placement acoustic-suspension video speaker. All drivers are magnetically shielded. Features 12" cone woofer; 5" polypropylene-acetate cone midranges; and soft-dome tweeter. Frequency response 40-20,000 Hz  $\pm$  3 dB; minimum power 15 watts, maximum power 130 watts; sensitivity 92 dB with 1-watt input measured at 1 meter; impedance 8 ohms; finished in teton oak; 14" W  $\times$  27" H  $\times$  10.75" D; ..... \$499/pr

### AVS-300 Video Speaker

Bookshelf acoustic-suspension video speaker with 5.5" cone woofer and 1" polymer dome tweeter. Frequency response 80-20,000 Hz  $\pm$  3 dB; minimum power 5 watts; maximum power 60

watts; sensitivity 89 dB SPL/W/m; impedance 8 ohms. 6.5" W X 9.75" H X 5.62" D; 6.12 lbs ea; oak or ebony vinyl finish .....\$149/pr

### PIONEER

#### CS-V900D Audio/Video Speaker

Floor-standing or bookshelf digital audio/video speaker with ported enclosure. Features 12" cone woofer; 4.75" boron-cone midrange; beryllium-ribbon tweeter. Frequency response 30-50,000 Hz; minimum power 80 watts rated; maximum power 240 watts; sensitivity 91 dB SPL/W/m; impedance 6 ohms. 15.36" W X 26.75" H X 13.88" D; 65 lbs ea; natural walnut veneer .....\$1,300/pr

#### CS-V90 Audio/Video Speaker

Floor-standing 4-way audio/video speaker. Features 12" woofer; 6.31" low midrange; 4.75" high midrange; 2" tweeter; impedance 6 ohms; sensitivity 90 dB SPL/W/m; maximum power 120 watts; 15.3" W X 47.44" H X 16.19" D.\$700/pr

#### CS-V70A Audio/Video Speaker

Floor-standing magnetically shielded audio/video speaker with ported enclosure. Features 12" cone woofer; 5" cone midrange; 2.5" cone tweeter. Frequency response 35-20,000 Hz; minimum power 35 watts rated; maximum power 100 watts; sensitivity 90 dB SPL/W/m; impedance 6 ohms. 15.36" W X 36.56" H X 13.5" D; 46 lbs, 5 oz ea; rosewood finish .....\$400/pr

### POLK

#### Videosound Series Speakers

#### VS-25 Video Speaker

Bookshelf speaker with combination dual-opposed and magnetic shielding for placement near TVs. Features 6.5" fluid-coupled subwoofer; 6.5" Polk trilaminate bass driver; 1" polydome tweeter. Frequency response 26-25,000 Hz  $\pm$  3 dB; minimum power 3 watts; maximum power 125 watts; sensitivity 93 dB SPL/W/m; impedance 6 ohms; hi-tech black finish; 8.5" W X 22.75" H X 11" D; 25 lbs .....\$340/pr

#### VS-19 Video Speaker

Bookshelf speaker with combination dual-opposed and magnetic shielding for placement near TVs. Features 6.5" Polk trilaminate bass driver; 1" polydome tweeter. Frequency response 28-25,000 Hz  $\pm$  dB; minimum power 3 watts; maximum power 100 watts; sensitivity 93 dB SPL/W/m; impedance 6 ohms; hi-tech black finish; 22 lbs .....\$300/pr

#### VS-12 Video Speaker

Bookshelf speaker with combination dual-opposed and magnetic shielding for placement near TVs. Features 6.5" Polk trilaminate bass driver; 1" polydome tweeter. Frequency response 30-25,000 Hz  $\pm$  3 dB; minimum power 3 watts; maximum power 80 watts; sensitivity 93 dB SPL/W/m; impedance 6 ohms; hi-tech black finish; 19 lbs .....\$200/pr

### PROTON

#### 313 Video Speaker—Featured on Cover

Acoustic-suspension bi-amplified video speaker with 20-watt internal woofer amplifier and 5-watt internal tweeter amplifier. Features 4.5" cone passive rad; 4.5" cone woofer; 1.75" ferrofluid-cooled cone tweeter; tweeter level control; input sensitivity control; magnetically shielded. Frequency response 80-20,000 Hz  $\pm$  6 dB; impedance 8 ohms. 6.5" W X 23" H X 7.5" D; 12 lbs ea; black finish \$300/pr



312. Same as 313 except frequency response 100-20,000 Hz  $\pm$  6 dB. Designed to complement the 600M monitor in height and style; 6.5" W X 18" H X 7.25" D; 14.5 lbs ea .....\$300/pr

### QUASAR

#### SW99 Video Speaker

Bookshelf acoustic-suspension speaker with built-in amplifier. Amplifier: 10 watts-per-channel driven into 8 ohms from 30-20,000 Hz with no more than 0.5% THD. Features 5.44" woofer; 2.5" tweeter; bass equalizer circuit; magnetically shielded; accepts high- or low level inputs. Audio/video surround sound system synthesizes stereo from mono sources. Frequency response 30-22,000 Hz  $\pm$  16 dB; 7.28" W X 12.56" H X 8.45" D; 10 lbs ea .....\$200/pr

#### SW30 Video Speaker

Bookshelf or wall-mountable round speaker with 4" midrange. Designed as rear speaker for an audio/video system. Frequency response 150-20,000 Hz  $\pm$  10 dB; maximum power 25 watts; sensitivity 85 dB SPL/W/m. 5.85" diameter; 2.5 lbs ea; black metal finish .....\$50/pr

### RECOTON

#### Fred SP-II Video Speaker

Self-powered bookshelf speaker with magna-shield design. Features 12-W/ch

For explanations of abbreviations, specifications, and technical terms, turn to the vocabulary on page 38.

built-in stereo amplifier; 5.25" cone woofer; 1.25" cone tweeter; volume, balance, bass, and treble controls; 2 aux inputs for playback of MTS stereo TV decoder. Frequency response 60-20,000 Hz  $\pm$  3 dB; sensitivity 91 dB SPL/W/m; impedance 4 ohms; matte black finish; 6" W X 18" H X 7" D; 10 lbs .....\$200/pr



Fred SP-I. Same as Fred SP-II without woofer/tweeter. Features 5.25" full-range driver. Frequency response 80-18,000 Hz  $\pm$  3 dB; sensitivity 90 dB SPL/W/m; 6" W X 9" H X 6" D; 5 lbs .....\$150/pr

Fred SP-III. Same as Fred SP-I without built-in amp. Frequency response 80-18,000 Hz  $\pm$  3; maximum power 50 watts; minimum power 2 watts; impedance 4 ohms; sensitivity 90 dB SPL/W/m; 6" W X 9" H X 6" D; 5 lbs .....\$100/pr

### SANSUI

#### S-V929U Video Speaker

Floor-standing speaker with 12" passive radiator. Features 12" cone woofer; 4" cone midrange; 2.5" tweeter. Frequency response 29-22,000 Hz  $\pm$  3 dB; maximum power 160 watts; sensitivity 92 dB SPL/W/m; impedance 8 ohms; 15.25" W X 41" H X 11" D; 48 lbs .....\$600/pr

#### S-V828U Video Speaker

Floor-standing speaker with 10" passive radiator. Features 10" cone woofer; 4" cone midrange; 2.5" tweeter. Frequency response 32-22,000 Hz  $\pm$  3 dB; maximum power 160 watts; sensitivity 91 dB SPL/W/m; impedance 8 ohms; 13" W X 37.44" H X 11" D; 41 lbs .....\$460/pr

#### S-V727U Video Speaker

Floor-standing speaker with 10" passive radiator. Features 10" cone woofer; 8" cone woofer; 4" cone midrange; 2" cone tweeter. Frequency response 30-22,000 Hz  $\pm$  3 dB; maximum power 65 watts; sensitivity 90 dB SPL/W/m; impedance 8 ohms; 13" W X 34" H X 10.25" D; 28.5 lbs .....\$320/pr

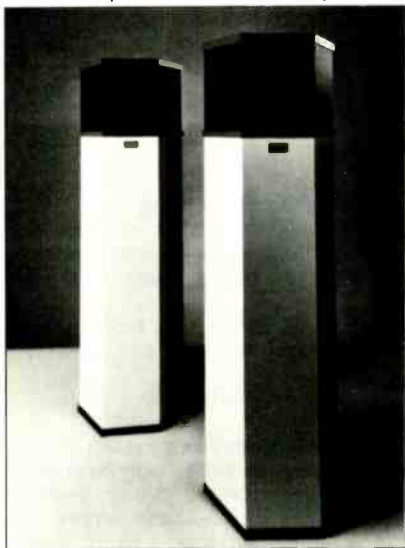
### SURROUND SOUND INC

#### SSI-2000 Omni-Directional Speakers

Floor-standing video speakers radiate sound equally in every direction. Designed for surround sound applications, they feature 2-way bass reflex system



which includes: 8" woofer, 2" dome tweeter. Frequency response 32-18,000 Hz  $\pm$  3 dB; maximum power 150 watts; minimum power 15 watts; impedance



eight ohms; sensitivity ninety dB with an input of 1 watt measured at 1 meter; white finish . . . \$398/pr

#### SPEAKERLAB

##### Speakerlab DVS 1 Video Speaker

Single enclosure, designed to double as stand for television monitor. Contains a set of 3-way speakers. Features two 4" cone midrange drivers; 12" dual-voice-coil, rear-firing woofer; 0.75" dome tweeter on each side; front panel controls for volume of midrange and high frequencies, output of optional rear-channel ambience speakers; magnetically shielded for television placement; stand-design for monitor. Crossover frequencies 150 Hz, 3,000 Hz; sensitivity 92 dB; nominal impedance 8 ohms; frequency re-sponse 30-21,000 Hz at  $\pm$  3 dB; power range 5-150 W; 25" W  $\times$  24" H  $\times$  22.5" D . . . \$600

#### TEAC

##### S-2001 Video Speaker

Floor-standing speaker with floor, wall or hanging-mount hardware included. Features planar bass driver, cone tweeter. Frequency response 50-20,000 Hz  $\pm$  3 dB; maximum power 150 watts; sensitivity 98 dB SPL/W/m; impedance 8 ohms; 16.12 W  $\times$  31.81" H  $\times$  11.7" D; 12.125 lbs . . . \$599/pr

##### S-10 Video Speaker

Wall-mount speaker with sound reflection. Maximum power 30 watts; impedance 8 ohms; black or white finish; 11.75" W  $\times$  11.75" H  $\times$  5.75" D; 5.5 lbs . . . \$299/pr

#### TECHNICS

##### SB-RX50 Video Speaker

Bookshelf ported speaker with double-magnetic shielding. Features 9.5" honeycomb carbon woofer; 1.12" mica-diaphragm tweeter; auto-reset thermal

protection. Frequency response 30-48,000 Hz  $\pm$  3dB; minimum power 20 watts; maximum power 160 watts; impedance 6 ohms; walnut veneer finish. 11.75" W  $\times$  18.91" H  $\times$  11.09" D; 36.4 lbs . . . \$840/pr

##### SB-R200 Video Speaker

Bookshelf or wall-mount speaker with acoustic-suspension and magnetic shield. Features thermal-protection; mica-diaphragm tweeter; honeycomb radiator and woofer. FR from 65- 25,000 Hz  $\pm$  3dB; minimum power 20 watts; maximum power 160 watts; sensitivity 89 dB SPL/W/m; impedance 8 ohms; walnut veneer finish. 23.75" W  $\times$  14.88" H  $\times$  3.34" D; 20 lbs . . . \$600/pr

##### SB-RX30 Video Speaker

Bookshelf ported speaker with double-magnetic shielding. Features auto-reset thermal protection; rear-facing port; 9" honeycomb woofer; 1.12" mica-diaphragm tweeter. Frequency response 52-25,000 Hz  $\pm$  3dB; minimum power 20 watts; maximum power 120 watts; sensitivity 88 dB SPL/W/m; impedance 6 ohms; simulated wood finish. 10.75" W  $\times$  14.97" H  $\times$  8.97" D; 16.5 lbs \$400/pr

##### SB-F2MKII Video Speaker

Bookshelf acoustic-suspension speaker with double-magnetic shielding. Features

thermal protection; 5.5" honeycomb woofer; 1.12" honeycomb tweeter. Frequency response 55-33,000 Hz  $\pm$  3dB; minimum power 20 watts; maximum power 100 watts; sensitivity 88 dB with an input of 1 watt measured at 1 meter; impedance 8 or 4 ohms. Aluminum die-cast cabinet with black finish. 6.19" W  $\times$  10.03" H  $\times$  6.78" D; 11.0 lbs . . . \$320/pr

##### SB-R100 Video Speaker

Bookshelf or wall-mount acoustic-suspension speaker with magnetic shielding. Features 32-cm passive radiator; honeycomb woofer; mica-diaphragm, disc iweeter. FR 70-25,000 Hz  $\pm$  3dB; minimum power 20 watts; maximum power 100 watts; sensitivity 87 dB SPL/W/m; impedance 8 ohms. Aluminum die-cast cabinet with black finish. 12.40" W  $\times$  12.40" H  $\times$  2.75" D; 10.0 lbs . . . \$310/pr

##### SB-F1MKII Video Speaker

Bookshelf acoustic-suspension speaker with magnetic shielding. Features 4.75" honeycomb woofer; 1.12" mica-diaphragm disc tweeter. FR from 65-33,000 Hz  $\pm$  3dB; minimum power 20 watts; maximum power 80 watts; sensitivity 86 dB SPL/W/m; impedance 8 or 4 ohms. Aluminum die-cast cabinet with black finish. 5.28" W  $\times$  8.62" H  $\times$  5.34" D; 6.4 lbs . . . \$260/pr

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# AUDIO/VIDEO SYSTEMS

## AKAI

### HT-952WR Remote Control A/V System

Audio/video system features a 26-inch stereo MTS-SAP monitor/receiver with 142 channel cable-ready tuner and 20-function remote with random access; 4-head Hi-Fi VCR with MTS-SAP 107 channel cable-ready stereo tuner, HQ circuitry and wireless remote with direct access; video processor/colorizer with A/V fading and enhancing; 6-input video switcher with built-in 4.5" color monitor and bi-directional dubbing; 130 W/c integrated amplifier; 7-band graphic equalizer with spectrum analyzer; Dolby and matrix surround sound decoder; 20-preset quartz AM/FM tuner; 3-head auto-reverse cassette deck with Dolby B and C; programmable Compact Disc player with remote control; 4-way speakers with 15" woofers and magnetic shielding; 3-way 8" speakers for surround sound; furniture quality cabinet ..... \$6,200

### HT-452WR Remote Control A/V System

Audio/video system features a 26-inch stereo MTS-SAP monitor/receiver; Hi-Fi VCR with MTS/SAP stereo tuner and HQ circuitry; 100 W/c amplifier; 5-band graphic equalizer; Dolby and matrix surround sound decoder; 16-preset quartz AM/FM tuner; Compact Disc player; double cassette deck with Dolby; semi-automatic belt drive turntable; 4-way speakers with 15 inch woofers and magnetic shielding; furniture quality cabinet \$3,600

### HTR445WR Remote Control A/V System

Audio/video system features a 26-inch stereo MTS-SAP monitor/receiver; 100 W/c amplifier; 7-band equalizer; surround sound processor; 16-preset quartz AM/FM tuner; Compact Disc player; double cassette deck; semi-automatic belt-drive turntable; 4-way speakers with 12 inch woofers and magnetic shielding; furniture quality cabinet ..... \$2,500

### HTR335WR Remote Control A/V System

Audio/video system features a 26-inch stereo MTS-SAP monitor/receiver; 80 W/c amplifier; 5-band equalizer; surround sound processor; 16-preset quartz AM/FM tuner; Compact Disc player; double cassette deck; belt-drive turntable; 3-way speakers with 12 inch woofers; furniture quality cabinet ... \$2,300

### HT-220 Remote Control Midi A/V System

Audio/video system features a 20-inch stereo MTS-SAP monitor/receiver; 40 W/c amplifier with 5-band graphic equalizer and surround sound stereo decoder; 16-preset AM/FM/SW quartz tuner; dou-

ble cassette deck with Dolby; fully-automatic belt-drive turntable; 2-way flat-diaphragm speakers with magnetic shielding ..... \$1,920

## GE

### 11-5311 Remote-Control A/V System

Audio/video system consisting of Model 8-2789 27" stereo/SAP color monitor/receiver with Dual Mode remote control, on-screen display, Channel Block Out tuning system, last channel viewed, high-definition comb filter, and Neo-Vision picture tube. Other included components: Model 9-7320 VHS Hi-Fi VCR with input for stereo adapter, 35-function

Dolby, high-speed dubbing, and continuous play; 10-band graphic equalizer; programmable clock/timer; semiautomatic belt-drive turntable; 2-way 8" speakers ..... \$1,000  
**11-5220.** As above with Model 8-2569 25" monitor/receiver ..... \$1,500

## MARANTZ

### AVX-615CD Audio/Video System

System features furniture-styled console with wooden doors; 12" 3-way speakers; Marantz Digtouch wireless remote control of all components; 5-band graphic equalizer; digital tuner with 24 presets; linear-tracking turntable; auto-reverse



NEC ES-2600 A/V System

remote control, 93-channel cable-ready voltage-synthesized tuner, and 14 day/4-event timer; 110-W/ch integrated amplifier; AM/FM tuner with 16 presets; dual cassette deck with Dolby B, high-speed dubbing, and continuous play; semiautomatic belt-drive turntable; 14-band graphic equalizer; 3-way 12" speakers; 23-function remote control (for audio components); matching deluxe custom woodgrain audio and video cabinets ..... \$2,800  
**11-5310.** As above with Model 8-2060 20" monitor/receiver ..... \$2,300

### 11-5210 Remote-Control A/V System

Audio/video system consisting of Model 8-2060 20" stereo/SAP monitor/receiver with Dual Mode remote control, on-screen display, Channel Block Out tuning system, sleep timer, last channel viewed, high-definition comb filter, Neo-Vision picture tube. Other included components: 30-W/ch integrated amp; 7-function remote control (for audio components); AM/FM quartz digital tuner with 6 AM/FM presets; dual cassette deck with

dual cassette deck with Dolby B and C and high-speed dubbing; programmable Compact Disc player; VHS Hi-fi VCR with 142-channel cable-ready tuner, MTS stereo, 8-event 21-day timer; 25" monitor with 134-channel cable-ready tuner and MTS stereo ..... \$4,000

### AVV-212CD Audio/Video System

System features furniture-styled console with wooden doors; 12" 4-way speakers; digital tuner with 16 presets; 5-band equalizer; wireless remote control; belt-drive turntable; dual cassette deck with Dolby B and high-speed dubbing; programmable CD; VHS Hi-fi with HQ, 110-channel cable-ready tuner, MTS stereo, and 4-event/21-day timer; 26" monitor with 142-channel cable-ready tuner, and MTS stereo ..... \$3,500

### AVX-165CD Audio/Video System

System features furniture-styled console with wooden doors; 12" 3-way speakers; 165-W/ch; wireless remote control; 5-band graphic equalizer; digital tuner with 16 presets; direct-drive turntable; dual



## Audio/Video Systems

cassette deck with Dolby B and C and high-speed dubbing; programmable Compact Disc player; VHS Hi-fi VCR with 105-channel cable-ready tuner, MTS stereo, and 4-event/21-day timer; 25" monitor with 134-channel cable-ready tuner, and MTS stereo ..... \$3,500

### AV-130CD Audio/Video System

System features furniture-styled console with glass door; 12" 3-way speakers; 130-W/ch; wireless remote control; 7-band graphic equalizer; digital tuner with 24 presets; belt-drive turntable; dual cassette deck with Dolby B and high-speed dubbing; programmable CD; VHS Hi-fi VCR with 105-channel cable-ready tuner, MTS stereo, and 4-event/21-day timer; 25" monitor with 134-channel cable-ready tuner, and MTS stereo . . . \$3,000

### VS-65VR Audio/Video System

System features wedge-shaped cabinet; 12" 3-way speakers; 26" monitor with 142-channel cable-ready tuning, MTS stereo, wireless remote control; VHS Hi-fi VCR with HQ, 110-channel cable-ready tuning, MTS stereo, wireless remote control, and 4-event/21-day programmable timer ..... \$2,000

### VS-70VR Audio/Video System

System features furniture-styled console; 8" 2-way speakers; 26" monitor with 142-channel cable-ready tuning, MTS stereo, and wireless remote control; VHS Hi-Fi VCR with 110-channel cable-ready tuning, MTS stereo, wireless remote control, and 4-event/21-day programmable timer ..... \$2,000

## NEC

### ES-2600 Audio Video System

Audio/video system features CT-2610A 26" stereo monitor/receiver; N-955 VHS Hi-Fi VCR; A-1300E surround-sound amp with 50 watts X 4 or 130 watts X 2 power; remote control (works with all current NEC products); T-601E AM/FM tuner; K-700E dual-cassette deck with Dolby B and C NR; CD-500E CD player; VR-500 A/V cabinet; RS-500 12" 3-way video speakers ..... \$3,999

## PANASONIC

### SC-AVS1 Audio/Video System

Audio/video system with unified remote control of all audio and video components. System includes: Model CTH-2697RP 26" color monitor/receiver with square-corner data-grade picture tube, cable-ready 155-channel tuner, built-in MTS decoder for stereo broadcasts, and TV audio muting; Model PV-1566 Hi-Fi stereo VHS videocassette recorder with 4 heads, noiseless special effects, HQ circuitry, and 14-day/4-event programmable timer; SG-D45 50-W/ch stereo cassette receiver with double cassette deck, AM/FM quartz-synthesizer digital tuner, 16 random-access presets, auto scan, auto memory, 5-band graphic equalizer, and Dolby B NR; Model SL-H308U semiautomatic turntable with P-mount cartridge and CD-servo motor;



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### PIONEER

#### F-PRO1A Audio/Video System

Audio/video component system with 40" projection monitor/receiver. Components include: SD-P40 projection monitor with built-in MTS stereo decoder; CLD-909 combination CD/LV player; SA-V70 audio/video integrated amplifier with built-in surround sound processor; TX-V70 digital-synthesized FM/AM tuner; CT-V70 auto-reverse double cassette deck; PL-V70 front-loading turntable; CS-V90 A/V speakers; CS-VX50 surround sound speakers; CB-V90 rack ..... \$7,300  
**F-PRO2.** As F-PRO1A with LD-700 Laser-Displayer instead of CLD-909 . . . \$6,900

#### F-77/1 Audio/Video System

Audio/video component system with 26" stereo monitor/receiver. Components include: SD-2601 26-inch full-square

auto-reverse cassette deck; PL-X505 fully automatic belt-drive turntable; CU-AX001 remote control unit; CS-V9920 4-way magnetically shielded speakers; RA-W900 component ..... \$4,000

### PROTON

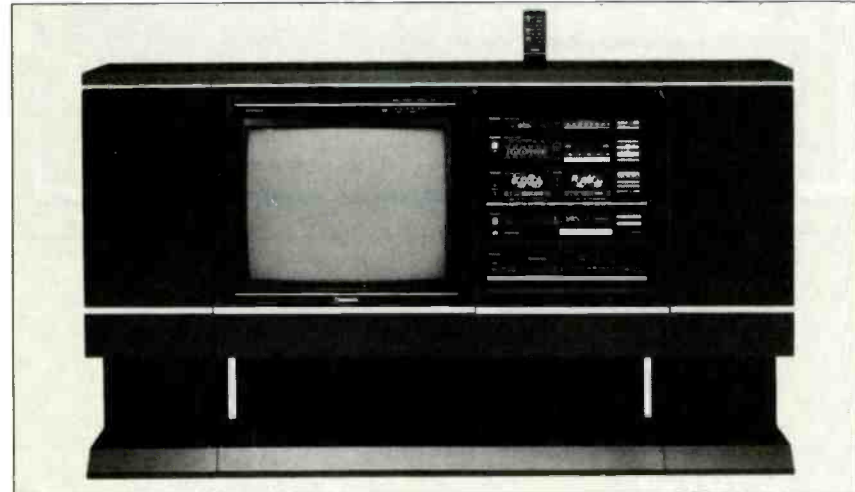
#### AV-27 Audio/Video System

Features 27" 627 stereo monitor/receiver with flat-square-tube screen and matching Proton 318 speakers. Audio components include 830R Compact Disc player, 730R cassette player, 430R tuner, and D530R 30-W amp with Dynamic Power on Demand (can boost power up to four times rated output). System is housed in Proton R12 black wood rack ..... \$2,695/system

### RCA

#### Dimensia Audio/Video System

*The Dimensia audio/video system includes a videocassette recorder, graphic equalizer, AM/FM tuner, cassette deck, turntable, Compact Disc player, component cabinet, monitor base, speaker*



Panasonic SC-AVS1 Audio/Video System

monitor/receiver with built-in MTS decoder; CLD-909 combination Compact Disc/LaserVision player; SA-V70 audio/video integrated amplifier with built-in surround sound processor; TX-V-70 digital-synthesized FM/AM tuner; CT-V70 auto-reverse double cassette deck; PL-V70 front-loading turntable; CS-V70A magnetically shielded speakers; CS-VX50 surround sound speakers; CB-V70 equipment rack; CB-V2601 TV monitor rack ..... \$4,500  
**F-77/2.** Same as F-77/1 but with LD-700 LaserDisc player instead of CLD-909 combination CD/LV player ..... \$4,100

#### AV-950R Audio/Video System

Audio/video component system with 26" stereo monitor/receiver. Components include: SD-2601 26-inch full-square monitor/receiver with built-in MTS decoder; EG-X707 audio/video signal processor; A-X1010V 100 W/ch integrated amplifier; F-X707 quartz-PLL synthesis AM/FM tuner; PD-X909 multi-play Compact Disc player; CT-X707WR double

stands, and choice of two integrated amplifiers, two receiver/monitors, and two pairs of speakers. With the different choices of receiver/monitor, integrated amplifier, and speakers, eight different audio/video systems are possible. The available components are as follows:

**DVM4000.** Dimensia rear-projection monitor/receiver with 40-inch screen and built-in MTS/SAP decoder. Features built-in microprocessor; Dimensia Command Center remote control; full-resolution color processing circuitry; video noise reduction; CCD comb filter; 350-line resolution; direct-access cable-ready tuner; on-screen system status display; record protection; automatic mode switching; 34 jack input/output panel; antenna switching; programmable channel memory; previous channel selection; DNR noise reduction; loudness compensation; two-way speakers. Luminance bandwidth 4.2 mHz (limit); peak light output 200 fL; audio power output 10 W/ch; 40.88" H x 36.36" W x 26.36" D; 205 lbs; ebony finish cabinet. . . . . \$2,990

**DVM4001.** As DVM4000 in oak . \$2,990  
**DVM2600.** 26-inch monitor/receiver with built-in MTS/SAP decoder. Features Dimensia Command Center remote control; record protection; automatic mode switching; 34 jack input/output panel; antenna switching; FM simulcast reception (with optional tuner); on-screen system status display; video noise reduction; CCD comb filter; cable-ready tuner; programmable channel memory; previous channel selection; DNR noise reduction; stereo broadcast complete; audio B; loudness compensation; two 5" woofers; two 2" tweeters. Horizontal resolution greater than 350 lines; luminance bandwidth 4.2 mHz (limit); audio frequency response 50-15,000 Hz; 23.62" H x 26.36" W x 20" D, 106 lbs; ebony finish \$1,300  
**FKC2601.** FKC2600 with oak finish \$1,300  
**MVR975HF Convertible VCR.** VHS-format VCR with Hi-Fi audio and built-in MTS decoder. Features Dimensia system compatibility; SystemLink cabling; automatic status indication; 133-channel cable-ready tuner; remote control; video/audio dubbing; 5-video, 2-audio heads; 1-year, 8-event program timer; on-screen programming; SP, LP, SLP play/record speeds; noiseless special effects (SP, SLP); high-speed picture search; freeze frame; frame advance; variable slow motion; reverse play; forward/reverse indexing; auto rewind; memory rewind; time remaining indicator. Audio FR 20-20,000 Hz; dynamic range >80 dB; wow and flutter 0.005%; THD 0.4%; channel separation 60 dB. Power consumption: 7.3 watts (deck only); 45 watts (tuner/timer on AC line). 3.12" H x 9.25" W x 10.12" D, 6.3 lbs (recorder section); 4.12" H x 17.12" W x 12.75" D, 10.8 lbs (tuner/timer section) ..... \$1,499

**VLT/VKT700 Videocassette Recorder.** VHS-format table-top VCR. Features SP, LP, SLP play/record speeds; remote control; simulcast audio recording; SystemLink cabling; automatic status indication; automatic switching; on-screen display; 365-days/8-event timer; audio and video dubbing; 133-channel F.S. tuner; search (SP, SLP); still (SP, SLP); frame advance (SP, SLP); variable slow-motion (SP, SLP); double speed (SP, SLP); reverse play (SP, SLP); 5 video record/playback heads; 2 VHS Hi-Fi record/playback heads. Audio frequency response 20-20,000 Hz; dynamic range greater than 80 dB; W&F 0.005%; THD 0.4%; channel separation 60 dB. 4.88" H x 17.12" W x 12.75" D; 20 lbs. \$1,299  
**MSA200 Integrated Amplifier.** Features automatic input selection; system record protection logic; remote control volume and mute; simultaneous recording and playback capability; automatic status indication; SystemLink cabling; electronic volume control; preset turn-on volume; LED display; tape monitor; loudness compensation; subsonic filter; three AC convenience outlets; one switched AC outlet; headphone jack; preamp out/main amp in jacks. 100 W/ch into 8 ohms at 20-20,000 Hz with no more than 0.05% THD; S/N phono 75 dB, line 78 dB; 4.6" x 17.12" x 14.5" 19.8 lbs. . . . . \$390



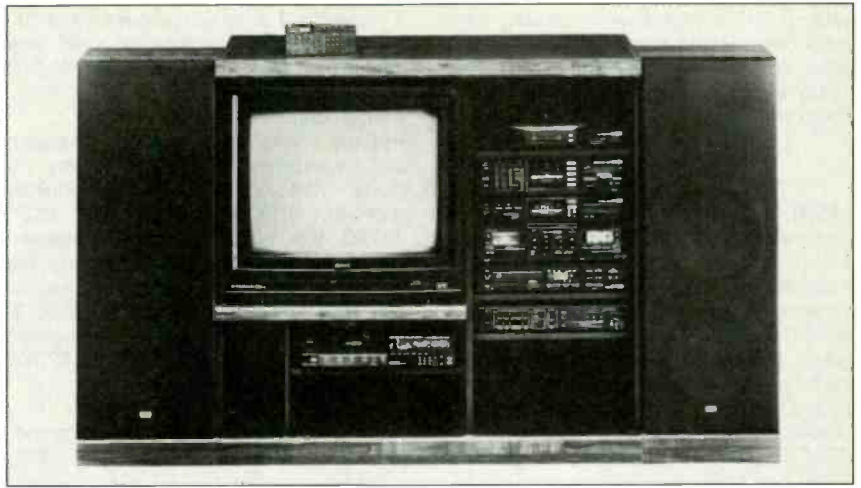
**MSA100 Integrated Amplifier.** Similar to MSA 200 except 50 watts per channel; no tape monitor; no switched AC outlet; no preamp out/ main amp in jacks; fluorescent display. 3.25" H X 17.12" W X 11.12" D; 12.6 lbs, 9 oz ..... \$300

**MGE160 Graphic Equalizer.** 10-bands-per-channel; lighted slide controls. Frequency response 20-20,000 Hz ± 1 dB; S/N 96 dB; center frequencies 31.5, 63, 125, 250, 500, 1,000, 2,000, 4,000, 8,000, and 16,000 Hz; THD 0.007%. 17.12" W X 3.25" H X 8.88" D; 6 lbs, 9 oz. . . . \$170

**MAT110 AM/FM Tuner.** Features remote control; automatic status indication; automatic switching; SystemLink cabling; quartz synthesized tuning; signal strength indicator; 16-station random-tuning memory; preset-channel scanning; last-channel memory; FM search tuning; AC convenience outlet. FM section: sensitivity 11.2 dbf; S/N 75 dB mono, 68 dB stereo; separation 45 dB at 1,000 Hz; capture ratio 1 dB; AM suppression 50 dB; frequency response 30-15,000 Hz. AM section: S/N 50 dB; selectivity 40 dB; separation 40 dB. 17.12" W X 2.36" H X 9" D; 5 lbs, 4 oz. . . . \$250

**MTR120 Cassette Deck.** Features auto-reverse; remote control; automatic status indication; automatic switching; automatic control integration; system record protection logic; SystemLink cabling; random-access programming; scan and play programming; automatic-tape cueing; fluorescent peak meters; Dolby B and C noise reduction; headphone jack with volume control; microphone inputs; record level control. Frequency response 20-19,000 Hz metal, 20-18,000 Hz high bias; 20-16,000 Hz normal; S/N 74 dB Dolby C, 68 dB Dolby B, 59 dB no noise reduction; W&F 0.06% WRMS. 17.12" W X 4.5" H X 11.12" D; 10 lbs ..... \$350

**MTT135 Turntable.** Front-loading linear-tracking turntable with direct-drive; quartz-locked PLL speed servo; automatic size and speed selection; tonearm



Sansui AV110GR Audio/Video System

**MCD140 Compact Disc Player.** Features remote control; automatic status indication; automatic switching; system record protection logic; SystemLink cabling; directory display panel; forward/direct access programming; headphone jack with volume controls. Frequency response 5-20,000 Hz ± 0.5 dB; dynamic range 90 dB; S/N 90 dB; separation 90 dB. 17.12" W X 3.36" H X 11.12" D; 10 lbs, 13 oz. . . . \$300

**MCD145 Compact Disc Player.** Same as MCD140 with power disc loading drawer. 3.25" H X 17.12" W X 10.88" D; 9.1 lbs ..... \$399

**SPK385 Speakers.** Air suspension speaker with 11" polypropylene woofer, 4" midrange, 1" dome tweeter. Frequency response 35-20,000 Hz; maximum power 120 watts; imp 6 ohms. 13.88" W X 24.88" H X 12.75" D; 36 lbs; ebony or tawny oak finish ..... \$400/pr

**SPK215 Speakers.** Features two 4" woofers; 4" passive rad; 2" tweeter. Frequency response 70-20,000 Hz; maximum power 20 watts; imp 8 ohms; crossover

VHS Hi-Fi VCR with HQ; model-1000 stereo ensemble with wireless remote; model-2200 Compact Disc player; Optimus-1000 speakers; audio/video racks ..... \$1,999

**SANSUI**

**AV-1500R Audio/Video System**

Includes SV-M26AV 26" flat-square-tube monitor/reciever with MTS and SAP; 140-channel cable-ready tuner; AE750 90-W/ch integrated amp; D-E750 auto-reverse cassette deck with Dolby B and C; CD-E750 Compact Disc player; T-E550 quartz-PLL AM/FM tuner with 16 presets; P-E350 automatic direct-drive turntable; GX-60U audio cabinet; GX-VOISU video cabinet; SV-R9500 VHS Hi-Fi VCR and 3-way speakers; RS-1500AV hand-held remote control ..... \$4,400

**AV-1100R Audio/Video System**

Includes SV-M26AV 26" flat-square-tube monitor/reciever with MTS and SAP; 140-channel cable-ready tuner; A-1100R 100-W/ch integrated amp; D-70BW high-speed double-cassette deck with Dolby; CD-E750 Compact Disc player; T-700 quartz-PLL digital tuner with 16 presets; P-L45 automatic linear-tracking turntable with P-mount cartridge; GX-V5000U A/V cabinets and S-6LU 3-way speakers; RS-1500AV hand-held remote control \$3,200

**AV-1000 Audio/Video System**

Includes SV-M26AV 26" flat-square-tube monitor/reciever with MTS and SAP; 140-channel cable-ready tuner; S-XV1000 audio/video control center with 2 stereo amps for cinema surround sound; quartz-PLL digital tuner can handle both video and audio sources and has 16 presets; D-70BW high-speed dubbing double cassette deck; P-D15 semiautomatic direct-drive turntable; GX60U and GX-VOISU audio and video cabinets; S-6IU 3-way speakers ..... \$2,700

**AV-700 Audio/Video System**

Includes SV-M26AV 26" flat-square-tube monitor/reciever with MTS and SAP; 140-channel cable-ready tuner; A-700 55-W/ch integrated amplifier; T-700 quartz-PLL digital tuner with 16 pre-



Pioneer AV-950R A/V System

muting; P-mount cartridge. Features autostatus indication; auto switching; auto matic control integration; system record protection logic. S/N 78 dB (DIN-B); W&F 0.025% WRMS; FR 10-25,000 Hz. 3" H X 12.62" W X 14.25" D; 15 lbs . . \$349

**MTT130 Turntable.** Same as MTT135 except top loading. 10 lbs ..... \$250

2,000 Hz. 5.5" W X 23.5" H X 12.25" D; 13 lbs ..... \$150/pr

**RADIO SHACK**

**Model-747 Audio Video System**

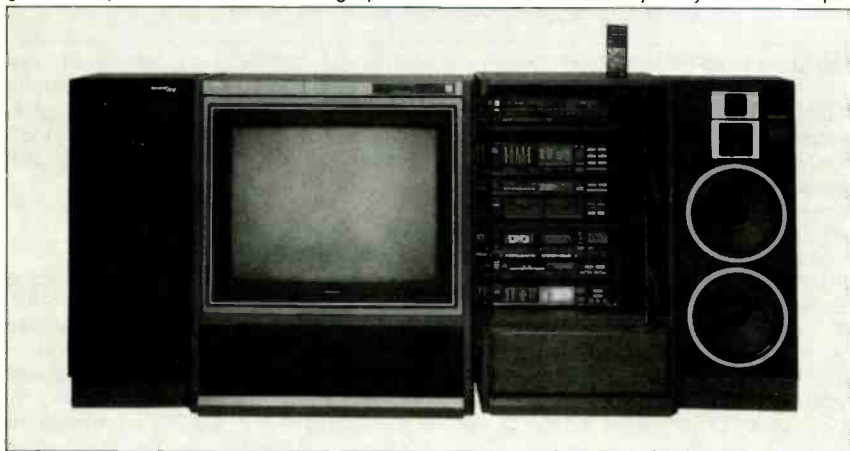
Audio video system features TC-1000 19" TV/Monitor with stereo; model-41

sets; D-70BW high-speed dubbing cassette deck; P-D15 semiautomatic direct-drive turntable; GX60U and GX-VOISU audio and video cabinets; S-4IU 3-way speakers ..... \$2,200

### SANYO

#### AV800 Audio/Video System

Remote-control audio/video system with 35" direct-view monitor/receiver. Components include: AVM350 35" stereo monitor/receiver with 560-lines of resolution; VHR1900 VHS Hi-Fi VCR with HQ, built in MTS decoder, 4-head double azimuth special effects; SA100 surround sound processor; JA760 100 W/ch integrated amplifier; EQ960 10-band graphic



Sanyo AV800 Audio/Video System

equalizer; JT760 AM/FM tuner; CP960 Compact Disc player; RDW760A double cassette deck; TP960 automatic linear-tracking turntable; RBAV5 unified remote control; AVS800 3-way speakers with 12" woofer, 12" passive radiator, 5" midrange, 3" tweeter; AVF800 system cabinet ..... \$6,200

#### AV700 Audio/Video System

Remote-control audio/video system with 40" rear-projection monitor/receiver. Components include: PTV40 40" rear projection stereo monitor/receiver; VHR1900 VHS Hi-Fi VCR; SA100 surround sound processor; JA760 100 W/ch integrated amplifier; EQ960 10-band graphic equalizer; JT760 AM/FM tuner; CP960 Compact Disc player; RDW760A double cassette deck; TP960 automatic linear-tracking turntable; RBAV6 unified remote control; AVS700 3-way speakers with 12" woofer, 12" passive radiator, 5" midrange, 3" tweeter; AVF700 system cabinet ..... \$5,200

#### AV600 Audio/Video System

Remote-control audio/video system with 25" monitor/receiver. Components include: AVM261 25" stereo monitor/receiver; VHR1900 VHS Hi-Fi VCR; SA100 surround sound processor; JA760 100 W/ch integrated amplifier; JT760 AM/FM tuner; CP960 Compact Disc player; RDW760A double cassette deck; TP760 automatic turntable; RBAV5 unified remote control; AVS600 4-way speakers with 12" woofer, 5" midrange,

3" tweeter, 1.5" super tweeter; AVF600 system cabinet finished in solid oak veneer ..... \$3,200

#### AV500 Audio/Video System

Remote-control audio/video system with 25" monitor/receiver. Components include: AVM261 25" stereo monitor/receiver; VHR1900 VHS Hi-Fi VCR; JA760 100 W/ch integrated amplifier; JT760 AM/FM tuner; RDW760A double cassette deck; TP760 automatic turntable; RBAV4 unified remote; AVS500 3-way speakers; AVF500 oak-finish system cabinet ..... \$2,700

#### AV400 Audio/Video System

Remote-control A/V system. Components

include: AVM262 25" remote-control stereo monitor/receiver; VHR1550 VHS stereo videocassette recorder; JA688 120 W/ch integrated amplifier; EG688 14-band graphic equalizer (7 per channel); JT688 AM/FM tuner; RDW688 double cassette deck; TP688 semiautomatic turntable; RC380 unified infrared remote control; AVS400 3-way bass-reflex speakers with 12" woofer, 5" midrange, 3" tweeter; AVF400 oak-finish system cabinet ..... \$2,200

#### AV300 Audio/Video System

Remote-control audio/video system with 25" receiver/monitor. Components include: AVM262 25" remote-control stereo receiver/monitor with built-in MTS/SAP decoder; JA688 120 W/ch integrated amplifier; EG688 14-band graphic equalizer (7/ch); JT688 AM/FM tuner; RDW688 double cassette deck; TP688 semi automatic turntable; RC380 unified remote control controls TV and any current Sanyo VCR; AVS300 3-way speakers with 12" woofer, 5" midrange, 3" tweeter; AVF300 oak-finish system cabinet ..... \$1,700

#### AV200 Audio/Video System

Remote-control audio/video system. Components include: AVM210 20" stereo monitor/receiver with remote control; DCX685 AM/FM tuner, 120 W/ch integrated amplifier; RDW685 double cassette deck; TP685 semiautomatic turntable; AVS200 3-way speakers with 12" woofer, 5" midrange, 3" tweeter; AVF200 system cabinet ..... \$1,300

### SCOTT

#### AV-60 Audio/Video System

System features 20" square-corner TV with 29-function integrated remote control. Components include: 30-W digital quartz-synthesized receiver; high-speed dubbing cassette deck; belt-drive semiautomatic turntable; 2-way tower design loudspeakers with 8" woofer, 2" tweeter; equipment-rack cabinet with glass doors; additional cabinet space for CD player and VCR. Features MTS/SAP for stereo TV reception; 5-band graphic equalizer; input for optional CD player; DNR; auto-color; 90-min sleep timer; quick-start picture; AFT ..... \$1,499

### SHARP

#### System 96 Audio/Video System

Audio/video system with 26" monitor, video tuner and 2-way speaker system. 26LV96 video monitor features 26" flat-square, fine-pitch, Lynitron plus picture tube; horizontal resolution up to 500 lines; comb filter; on-screen display; video input/monitor output connectors; video controller connection terminal; viewing angle adjustment controls; surface acoustic wave filter; high gloss black cabinet. AN200U video controller features built-in MTS decoder; built-in 30 W/ch amplifier; ambient stereo output jack for surround sound systems; quartz-synthesized 140 channel cable-ready tuner; 38-key TV/VCR random access remote control; channel flashback; sleep timer; bass, treble, balance control; external speaker jacks; 3 audio/video inputs and dual outputs; audio line input jacks; headphone jack. AN96SP speakers feature square, flat 210 cm<sup>2</sup> woofer; 2.9" cone tweeter; magnetic interference prevention system ..... \$2,300

### TECHNICS

#### AV 300 Audio/Video System

Includes 45-key wireless remote control for use with TV, VCR, cassette deck, turntable, tuner, programmable CD player, and amplifier. 26" monitor (diagonal) features square-corner data-grade tube; 155-channel CATV tuner; built-in TV/SAP decoder. VHS-format VCR features Hi-Fi stereo sound; HQ high-quality picture system; Tech4 double-azimuth recording head system; voltage-synthesized tuner; 14-day/4-program clock/timer. Integrated amp features 110-W x 2; SH-AV44 AV surround processor features Dolby surround system; Technics surround system for 3 directional ambience; built-in amp for surround sound speakers. Quartz digital tuner features 16 random station presets. Compact Disc player features 20-step random programming. Cassette deck features series play; synchro start; Dolby B noise reduction. Turntable features full-auto belt-drive linear tracking. 3-way speakers feature 12" woofer; 4.75" midrange; 2.5" tweeter; 200-W power handling; magnetic shielding; and anti-resonant cabinet. A/V rack ..... \$3,500/system  
**AV-200.** As above without SH-AV44 surround sound processor . \$3,000/system



# 16 SATELLITE TV COMPONENTS

## CHANNEL MASTER

### Satellite Systems

#### 6305 Porta-Mount Satellite System

Portable satellite system includes 5' black perforated aluminum dish; push-button block receiver; 70° LNB field assembly; quick disconnect cables; AZ-EL mount ..... \$525/system

### Satellite TV Components

#### 6400 Satellite Descrambler

Descrambler for those satellite signals scrambled by the VideoCipher® II scrambling process ..... \$395

#### 6141 Infrared Stereo Processor

Produces stereo audio for video signal when used in conjunction with satellite receiver and stereo system. Features 7



audio presets; noise reduction system. Compatible with most satellite receivers ..... \$199

## CHAPARRAL

### Satellite TV Dishes

Parabolic satellite dishes constructed of pre-formed mesh panel sections which bolt together. All dishes feature welded steel assembly polar mount with infinite declination adjustment.



16'. 16-foot dish diameter; 0.37 f/D ratio; 70% efficiency ..... \$3,995

12'. 12-foot dish diameter; 0.37 f/D ratio; 70% efficiency ..... \$749

10.5'. 10.5-foot dish diameter; 0.42 f/D ratio; 72% efficiency ..... \$649

8.5'. 8.5-foot dish diameter; 0.35 f/D ratio; 70.4% efficiency ..... \$599

6'. 6-foot dish diameter; 0.35 f/D ratio; 70% efficiency ..... \$349

### Satellite TV Receivers

#### Sierra Satellite Receiver

Remote-controlled satellite receiver integrates all receiver and motor-drive controls in on unit. Features computer-synthesized frequency-agile tuning; choice of direct or modulated output; external 70-MHz loop for TI filter installation; monaural matrix, discrete, or multiplex stereo audio formats; direct audio outputs for connection to stereo receiver/amplifier or VCR; on-screen graphics; 4/12 GHz compatibility; pre-programmed audio, video, and polarity



settings for each satellite; LNB block down conversion; audio memory (subcarriers); video scan; baseband output; RF modulator (ch 3 or 4); remote antenna actuator; direct channel access; auto A-B switch; UL and CSA approved wiring; parental supervision control. Receives all audio subcarriers. Scramble compatible. Interfaced for both mechanical and electronic polarity rotors. Noise temp of LNB 65°/75°/85° Kelvin ..... \$995

#### Cheyenne Satellite Receiver

Remote-controlled satellite receiver with on-screen graphics and computer-synthesized frequency-agile tuning for both C- and Ku-band broadcasts. Features integrated receiver and motor drive; pre-programmed tuning; descrambler compatible; data link for complete system control form and TV location; LNB block down conversion; matrix; audio memory (subcarriers); video scan; baseband output; RF modulator (ch 3 or 4); remote antenna actuator; direct channel access; auto A-B switch; UL and CSA approved wiring; parental supervision control. Receives all audio subcarriers. Interfaced for both mechanical and electronic polarity rotors. Includes external 70-MHz loop for filters ..... \$795

### Satellite Components

#### PolarAmp LNB

Complete feed system for C-band signal reception. Mounts at focal point of dish ..... \$299

#### 12/4 Polarotor Feedhorn

Dual-frequency band feedhorn receives and selects polarity on both C-band and Ku-band frequencies ..... \$299

### Satellite TV Systems

#### SuperSystem Stage III

Satellite TV system includes 10.5' mesh dish antenna; Cheyenne receiver; Sierra II receiver; bullseye feed; 3 LNBs; actuator; 3 remote eyes; remote control ..... \$3,995/system

#### SuperSystem Stage II

Satellite TV system includes 10.5' mesh dish antenna; Sierra II receiver with motor drive; 12/4 Polarotor; 2 LNBs; actuator; remote eye; remote control ..... \$2,495/system

#### SuperSystem Stage I

Satellite TV system includes 8.5' mesh dish antenna; Cheyenne receiver with motor drive; PolarAmp feed system; linear actuator; remote eye \$1,995/system

## DX COMMUNICATIONS

### Satellite TV Receivers

#### DSB-800 Satellite Receiver

All-in-one satellite receiver/antenna positioner with remote control. Provides total programmability for satellite and transponder, vertical or horizontal polarity, C- or Ku-band, audio frequency, skew, bandwidth, and fine tune. Includes stereo mode, on-screen display, and full-func-



tion remote control. Features microprocessor control; LNB block down conversion; audio memory; video scan; baseband output; RF modulator (ch 2 or 3); remote antenna actuator; digital tuning; direct channel access; UL- and CSA-approved wiring; parental supervision control. Decoder ready/scrambler compatible ..... \$999

**DSB-700S Satellite Receiver**

Remote-controlled satellite receiver with stereo dual-channel audio tuning, push-button stereo/mono selector, C- or Ku-band capability. Features LNB block down conversion; audio memory (sub-carriers); baseband output; RF modulator (ch 2 or 3); digital tuning; direct channel access; UL- and CSA-approved wiring; parental supervision control. Scrambler compatible. . . . . \$575

**Antenna Positioners**

**DSB-400A.** Deluxe antenna positioner with total remote designed to match DSB-700S receiver. Features 24-position fully programmable satellite and transponder information; programmable polarization and skew; 10-year power-loss memory retention. Sensor compatible to Reed, Hall Effect, or optoelectric actuator. . . . . \$407

**DSB-300.** East/west antenna positioner power supply. Satellite identification shown on channel readout when used with DSB-700S receiver. . . . . \$173

**DSB-500 Satellite Receiver**

Satellite receiver with TV-type tuner. Features pushbutton C-/Ku-band and V/H selectors with LED indicators; power on/off switch with indicator light; baseband output; RF modulator (ch 2 or 3); synthesized tuning; direct channel access. Includes separate DSB-60 block downconverter. Scrambler compatible. . . . . \$383

**DSB-600A Satellite Receiver**

Satellite receiver with detent channel selector. Features block downconversion; C- and Ku-band capability; digital channel readout; signal-strength meter; baseband output; RF modulator (ch 2 or 3); direct channel access; UL- and CSA-approved wiring. Capable of multiple-receiver hookup. Scrambler compatible. . . . . \$363

**HOUSTON TRACKER SYSTEMS**

**Satellite Receivers**

**Tracker System VIII Satellite Receiver**

Totally integrated satellite receiver/positioner/descrambler with built-in VideoCipher® II descrambler. Features automatic C- to Ku-band satellite switching; computerized user-expandable on-screen menu/display; programmable filtering; UHF remote control; high-band (950-1450 MHz) block downconversion for multiple receiver installation; PLL-synthesized video/audio with programmable fine tuning; programmable video noise reduction circuitry; auto polarity and satellite seeking mode; matrix/discrete/VideoCipher® II digital stereo with extended frequency response; built-in programmable recording timer to be used in conjunction with VCR; pre-programmed audio frequencies by channel with seek capability; up to 100 user-programmable favorite satellite/channel selections; up to 100 user-programmable favorite audio subcarrier selections;

direct channel access and satellite scan capability; internal input switching for dual-feed/LNB systems; 16-character FL display; parental lockout control; programmable over-travel limits; self-diagnostic nonvolatile memory; RF modulator (ch 3 or 4); remote antenna actuator. Interfaced for both mechanical and electronic polarity rotors. Noise temperature 65°-85° Kelvin. . . . . \$2,295

**Tracker System V Satellite Receiver**

Combination satellite receiver/positioner that is both C- and Ku-band compatible. Receiver features high-band (950-1450 MHz) block downconversion for multiple receiver installations; matrix/discrete stereo with extended frequency response; internal input switching for dual-feed/LNA systems; IF loop for standard terrestrial filtering; auto TV to local TV antenna switching; auxiliary operation controls for independent operation; microprocessor control; baseband output; RF modulator (ch 3 or 4); remote antenna actuator; parental supervision con-



rol; auto A-B switch; processor-controlled analog tuning. Interfaced for both mechanical and electronic polarity rotors. Scrambler compatible with Macom's VideoCipher® II (2000E) descrambler. Noise temp 65°-85° Kelvin. Positioner features UHF remote control; receiver step or skip tuning capability; direct channel access; video fine tune; FL display; pre-programmed polarizations; remote-controlled switched 115 V AC outlet; self-diagnostic memory check; self-contained power supply. Includes acme or ball screw, water-resistant shaft wipe, and outer tube seal. . . . . \$1,295

**Tracker II/III Satellite Receiver**

High-band (950-1450 MHz) block downconversion receiver with computer-synthesized tuning and on-screen channel display. Features UHF remote control; C- and Ku-band compatibility; auto polarity control; FL display; IF loop for standard terrestrial filtering; auto-satellite TV to local TV antenna switching; microprocessor control; baseband output; RF modulator (ch 3 or 4). Receives all audio subcarriers. Interfaced for both mechanical and electronic polarity rotors. Mates directly with Tracker IIsc or III positioner. Scrambler compatible. . . . . \$485

**Antenna Positioner**

**Tracker-IR Antenna Positioner**

Fully programmable satellite locator with a microprocessor-based memory that readily learns most infrared remote transmission codes. Can be operated via the infrared remote control of most satellite receivers. Features 89-satellite programmability; alphanumeric LED display;



programmable over-travel limits; parental lockout. . . . . \$389

**Tracker III Antenna Positioner**

Fully programmable satellite locator with alphanumeric LED display. Features 71-satellite programmability; over-travel limits; parental lockout; nonvolatile memory; optional UHF remote control; self-contained 5-amp power supply. Mates directly with Tracker II/III receiver. . . . . \$419

**Tracker IIsc Antenna Positioner**

Digital-display satellite locator with independent East/West control of dish position. Features programmable over-travel limits; parental lockout; optional UHF remote control; single-chip microprocessor for enhance performance and nonvolatile memory. Mates directly with tracker II/III receiver. . . . . \$339

**Feedhorns**

**Trackerfeed I Feedhorn**

Dual low-noise block feedhorn. Incorporates 2 LNBs and an adjustable scalar feedhorn into a single compact housing. Allows reception to both horizontal and vertical satellite signals for 24-channel viewing on 2 or more receivers. 30° polarity window eliminates need for adjusting skew when moving to another satellite. Low noise temp 65° to 85° Kelvin. Includes no moving parts for increased reliability. . . . . \$395-\$495

**R.L. DRAKE**

**Black Widow Series Satellite Systems**

All Black Widow satellite TV systems consist of a 6-, 8-, or 10-foot C- and Ku-band compatible aluminum polar-mount dish antenna and satellite receiver. Prices depend upon dish size.

**Black Widow Series 3000.** Features integrated receiver/positioner with microprocessor control; Ku-band compatibility; built-in power supply; pre-program for up to 9 channels for instant viewing; parental lockout; enhanced stereo with user-selectable wide of narrow bandwidths; 21-memory positioning programmability; block-system technology; infrared remote control; block downconversion; matrix; video scan; baseband output; RF modulator (ch 2,3 or 4); remote antenna actuator; UL- and CSA-approved wiring. Receives all audio subcarriers. Inter-

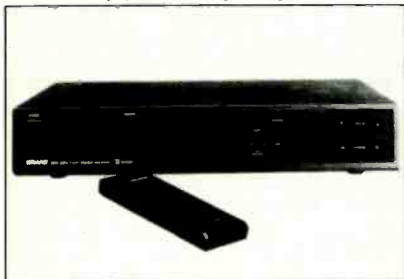


faced for both mechanical and electronic polarity rotors. Scrambler compatible . . . . . \$1,799-\$1,999  
**Black Widow Series 2000.** Receiver features front-panel C-/Ku-band switch; built-in East/West positioner; digital log scale for satellite position; auto A-B switch; block downconversion; matrix; full stereo audio; video scan; baseband output; RF modulator (ch 2, 3, or 4); remote antenna actuator; digital tuning; UL- and CSA-approved wiring. Receives all audio subcarriers. Interfaced for both mechanical and electronic polarity rotors. Scramble compatible \$1,299-\$1,499  
**Black Wideo Series I.** 6-ft dish only. Receiver features single conversion; video scan; baseband output; RF modulator (ch 3 or 4); digital tuning; UL- and CSA-approved wiring. Scrambler compatible. Interfaced for both mechanical and electronic polarity rotors . . . . . \$799

#### Satellite Receivers

#### ESR9241 Satellite Receiver

Integrated satellite receiver and antenna positioner. Features microprocessor control; Ku-band compatibility; built-in power supply; pre-program for up to 9 channels for instant viewing; parental lockout; enhanced stereo with user-selectable wide of narrow bandwidths; 21-memory positioning programmability;



block-system technology; infrared remote control; block downconversion; matrix; video scan; baseband output; RF modulator (ch 2,3 or 4); remote antenna actuator; UL- and CSA-approved wiring. Receives all audio subcarriers. Interfaced for both mechanical and electronic polarity rotors. Scrambler compatible. Low noise temp 60°-85° Kelvin . . . \$871

#### ESR524 Satellite Receiver

Microprocess-controlled satellite receiver with infrared remote. Features Ku-band compatibility; audio seek tuning; FL display; dual input switching to eliminate external relays or switching splitters; block downconversion; matrix; baseband output; RF modulator (ch 2,3 or 4); remote antenna actuator; digital tuning; auto A-B switch; UL- and CSA-approved wiring. Receives all audio subcarriers. Interfaced for both mechanical and electronic polarity rotors. Scrambler compatible. Low noise temp 60°-85° Kelvin \$416

#### ESR324S Satellite Receiver

Features block downconversion (950-1450 MHz); dual-polarity input adaptor for auto horizontal/vertical input switching; wide-band discriminator; high-gain AFC circuit; LED channel display; preset

audio control; skew control; matrix; full stereo audio; baseband output; RF modulator (ch 2, 3, or 4); digital tuning; UL- and CSA-approved wiring. Receives all audio subcarriers. Interfaced for both mechanical and electronic polarity rotors. Scramble compatible. Noise temp 60°-85° Kelvin . . . . . \$362

#### ESR324B Satellite Receiver

Satellite receiver can be part of a system or serve as a secondary receiver to deluxe receivers. Uses 950-1450 MHz blockinput frequency. Compatible with all Drake LNBs. Dual-polarity input adaptor is available for automatic horizontal/vertical input switching. Features wide-band discriminator for noise-free video; LED channel display; preset audio control; skew control; matrix; RF modulator (ch 2, 3 or 4); UL- and CSA-approved wiring. Receives all audio subcarriers. Interfaced for both mechanical and electronic polarity rotors. Scramble compatible. Noise temperature 60°-85° Kelvin . . . . . \$307

#### Satellite TV Components

#### APS524 Antenna Positioner

Microprocessor-controlled antenna positioner can store up to 30 pre-programmed satellites for recall by front-or remote-controls. Accepts pulse-type motor-drive or potentiometer-controlled actuators. Charcoal-grey finish . . . . \$271

#### 2801 Low-Noise Block Converter

12-GHz LNB to facilitate reception of Ku-band programming. For use with all Drake block receivers . . . . . \$253

#### 27652 Low-Noise Block Converter

60° LNB for C-band reception . . . \$200  
 2501. As above except 85° . . . . \$136

#### RADIO SHACK

#### 2500 Home Satellite TV System

Satellite tv system with 8.5-ft or 10.5-ft dish. Both antennas feature: motorized mount with horizon-to-horizon coverage; wire-mesh design to reduce wind loading; rotatable hub; mast level; 80° LNB; feedhorn; and weatherized housing. SR-2010 Satellite TV receiver features auto-dish positioner; decoders for all 3 stereo formats; factory programming for correct audio frequencies; Dynamic Noise Reduction; audio tuning to receive sub-carrier FM services. Wireless remote can control satellite or channel selection, steering of dish, and parental channel lock. Complete system includes site-survey kit, "how-to" video tape; dish-alignment data for your location; 125-ft lead-in cable (direct buriable). Complete 8.5-ft dish system . . . . . \$1,995  
 Complete 10.5-ft dish system . . \$2,295

*These components are available separately for upgrading existing system.*

SR-2010. HSTV Receiver . . . . \$599  
 16-2502. 8.5-ft Dish Antenna . . \$1,299  
 16-2506. 10.5-ft Dish Antenna . . \$1,599  
 16-2503. 80° LNB . . . . . \$229  
 16-2504. HSTV Feedhorn . . . . \$99

Continued from page 108

#### B-11 Open Video Cabinet

Open monitor cabinet designed for 25" monitor. One adjustable shelf. 32" W X 25.25" X 17.5" D; . . . . . \$374

#### TDK

#### Videocassette Recorder Head Cleaners

Nonabrasive head-cleaning cassettes for Beta- and VHS-format videocassette recorders. Cleans video and audio heads in 30 seconds and can be used up to 200 times.

LCL-30. Beta format . . . . . \$19.30  
 TCL-30. VHS format . . . . . \$19.30

#### ECL-20 8-mm Head Cleaning Cassette

Virtually nonabrasive. Can be used up to 200 times . . . . . \$15.99

#### TENBA

#### V212 VCR/Camera Case

Holds most cameras in a collapsible section. Features welded D rings; cross-linked, close-cell polyethylene waterproof foam; 3,000-pound test nylon strap; camera section expands from 1" to 6". 11" W X 10.5" H X 4.5" D . . . . . \$150.00  
 V212A. Case for larger cameras \$175.00

#### V8 Camcorder Bag

For 8-mm camcorders 13.5" W x 7" H X 5" D; 1 lb. 7 oz . . . . . \$110.00  
 VH. For Matsushita-built, Panasonic, Chinon, GE, and Curtis Mathis VHS camcorders. 15.25" W X 9.5" X 5.5" D . . . . . \$100.00

#### V8 Video Bag

For all full-sized 8-mm camcorders (Sony, Cannon, Kodak). Holds the above camcorders with room for tapes, batteries and AC adaptor. Features 300-pound test nylon strap; welded D rings; closed-cell, cross-linked polyethylene waterproof foam; made from 1,000 denier cordura; half the weight of a hard case. 15" W X 11" H X 5" D; 1.5 lbs . \$90.00

#### VDO-PAK PRODUCTS

#### NIC713 Nickel Cadmium Belt

Battery power belt adjustable for waist sizes 27-50", balanced 12 V/DC power for all applications. Features hi-density nickel cadmium rechargeable battery; flexible-webbed cordura nylon; universal cigarette-lighter connector; operates for 7 to 9 hours VCR/camera, 50-60 min 100 watts; quick-release buckle; charging time 14 hours. Approx 7 lbs . . . . \$300

#### L 9000 VDO-Lite

Designed for low-light video cameras. Supplied with both 250-watt 110-volt lamp and 75-watt 12-volt lamp. Modular design allows instant conversion for 110 V AC to 12 V DC. Features mounted dichroic-glass front-filter to trap stray infrared not caught by the lamp reflector; 6061 aluminum housing; two-point support, preset spring drag and angle lock. 2.25" W X 2.25" H X 5" D . . . \$149.95

# 17 HI-FI/DIGITAL SOFTWARE

**A-ha: Hunting High and Low.** Pioneer Artists, LaserDisc digital sound . . . \$16.95  
**AC/DC: Let There Be Rock.** Warner Home Video, Beta/VHS Hi-Fi Stereo . . . \$39.98  
**Abduction from the Seraglio, The.** Video Arts International, Beta/VHS Hi-Fi \$69.95  
**Marriage of Figaro, The.** Video Arts International, Beta/VHS Hi-Fi Stereo \$59.95  
**Acqua E Sapone.** RCA/Columbia Pictures Home Video, Beta/VHS Hi-Fi Stereo . . . \$59.95  
**Adriana Lecouvreur.** Sony Video Software, Beta Hi-Fi Stereo, VHS Hi-Fi Stereo . . . \$79.95  
**Al Jarreau in London.** Pioneer Artists, LaserDisc digital sound . . . \$24.95  
**Alberta Hunter: Jazz at the Smithsonian.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$29.95  
**Amahl and the Night Visitors.** Video Arts International, Beta/VHS Hi-Fi . . . \$39.95  
**American Flyers.** Warner Home Video, Beta/VHS Hi-Fi Stereo . . . \$79.95  
**Amy Grant: Age to Age.** A&M Records, Beta/VHS Hi-Fi . . . \$29.95  
**Amy Grant: Find a Way.** A&M Records, Beta/VHS Hi-Fi . . . \$19.95  
**Anna Russell: The (First) Farewell Concert.** Video Arts International, Beta/VHS Hi-Fi . . . \$59.95  
**Anyuta.** Kultur, Beta/VHS Hi-Fi Stereo . . . \$59.95  
**April Wine.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$16.95  
**Around the World in 80 Days.** Warner Home Video, Beta Hi-Fi Stereo . . . \$79.95  
**Art Blakey: Jazz at the Smithsonian.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$29.95  
**Art Farmer: Jazz at the Smithsonian.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$29.95  
**Artur Rubinstein.** Kultur, Beta/VHS Hi-Fi Stereo . . . \$59.95  
**Ashford & Simpson.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$16.95  
**Atlantic Starr: As the Band Turns. . . The Video.** A&M Records, Beta/VHS Hi-Fi . . . \$14.95  
**Barbra Streisand Putting it Together: The Making of the Broadway Album.** CBS/Fox Video, LaserDisc digital sound . . . \$29.98  
**Beatles Live.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$16.95  
**Beethoven/Schumann/Brahms.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$39.95  
**Belinda.** MCA Home Video, Beta Hi-Fi Stereo, VHS Dolby Hi-Fi Stereo . . . \$19.95  
**Benny Carter: Jazz at the Smithsonian.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$29.95  
**Berlin.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$16.95

**Big Wednesday.** Warner Home Video, Beta/VHS Hi-Fi Stereo . . . \$59.95  
**Bill Watrous.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$19.95  
**Bill Wyman.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$16.95  
**Birch Interval.** Media Home Entertainment, Beta/VHS Hi-Fi . . . \$69.95  
**Black Tights.** Video Arts International, Beta/VHS Hi-Fi . . . \$49.95  
**Blancmange.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$16.95  
**Blotto.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$16.95  
**Blue Note I.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$29.95  
**Blue Note II.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$29.95  
**Bob Wilber: Jazz at the Smithsonian.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$29.95  
**Body Music.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$19.95  
**Body by Jake: Energize Yourself.** MCA Home Video, Beta Hi-Fi Stereo, VHS Dolby Hi-Fi Stereo . . . \$19.95  
**Bolshoi Ballet.** Kultur, Beta/VHS Hi-Fi Stereo . . . \$59.95  
**Bon Jovi: Breakout.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$19.95  
**Bring on the Night.** Karl-Lorimar Home Video, Beta/VHS Hi-Fi Stereo, LaserDisc digital Stereo . . . 29.95  
**Bryan Adams: Reckless.** A&M Records, Beta/VHS Hi-Fi . . . \$19.95  
**Buddy Barnes.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$19.95  
**Buddy Rich.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$29.95  
**Camelot.** Warner Home Video, Beta Hi-Fi Stereo . . . \$89.95  
**Cameo.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$19.95  
**Canyon Consort: The Paul Winter Consort.** A&M Records, Beta/VHS Hi-Fi . . . \$29.95  
**Carpenters, The: Yesterday Once More.** A&M Records, Beta/VHS Hi-Fi . . . \$29.95  
**Cars, The: Heartbeat City:** Warner Home Video, Beta/VHS Hi-Fi Stereo . . . \$29.98  
**Chariots of Fire.** Warner Home Video, Beta/VHS Hi-Fi Stereo . . . \$24.98  
**Chess.** RCA/Columbia Pictures Home Video, Beta/VHS Hi-Fi Stereo . . . \$19.95  
**Cheyenne Autumn.** Warner Home Video, Beta/VHS Hi-Fi Stereo . . . \$59.95  
**Chicago 17.** Pioneer Artists, LaserDisc digital sound . . . \$16.95  
**Chick Corea.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$29.95  
**Chico Hamilton.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$19.95  
**Children of Theatre Street, The.** Kultur, Beta/VHS Hi-Fi Stereo . . . \$59.95  
**Chorus Line, A.** Embassy Home Enter-

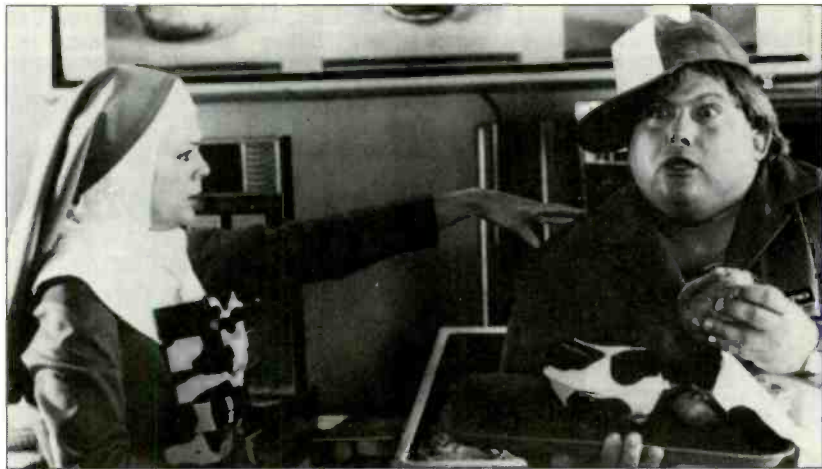
tainment, LaserDisc digital sound \$39.95  
**City Heat.** Warner Home Video, Beta/VHS Hi-Fi Stereo . . . \$79.95  
**Cocoon.** CBS/Fox Video, LaserDisc digital sound . . . \$34.98  
**Cosi Fan Tutte.** Video Arts International, Beta/VHS Hi-Fi . . . \$69.95  
**Country Comes Alive.** RCA/Columbia Pictures Home Video, Beta/VHS Hi-Fi Stereo . . . \$19.95  
**Creative Parenting: The First Twelve Months.** A&M Records, Beta/VHS Hi-Fi . . . \$29.95  
**Creature.** Media Home Entertainment, Beta/VHS Dolby Hi-Fi Stereo . . . \$79.95  
**Critters.** RCA/Columbia Pictures Home Video, Beta/VHS Hi-Fi Stereo . . . \$79.95  
**Crossroads.** RCA/Columbia Pictures Home Video, Beta/VHS Hi-Fi Stereo . . . \$79.95  
**Danspak II.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$19.95  
**Danspak.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$16.95  
**Daryl Hall & John Oates: The Liberty Concert.** RCA/Columbia Pictures Home Video, Beta/VHS Hi-Fi Stereo . . . \$29.95  
**David Bowie: China Girl.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$16.95  
**David Bowie: Jazzin' for Blue Jean.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$19.95  
**David Oistrakh: Remembering A Musician.** Kultur, Beta/VHS Hi-Fi Stereo . . . \$59.95  
**Deal of the Century.** Warner Home Video, Beta/VHS Hi-Fi Stereo . . . \$24.98  
**Dean Legacy, The.** Warner Home Video, Beta/VHS Hi-Fi Stereo . . . \$99.95  
**Decline of Western Civilization.** Media Home Entertainment, Beta/VHS Dolby Hi-Fi Stereo . . . \$49.95  
**Deja View.** Karl-Lorimar Home Video, Beta/VHS Hi-Fi Stereo, LaserDisc digital Stereo . . . 24.95  
**Delta Force, The.** Media Home Entertainment, Beta/VHS Dolby Hi-Fi Stereo . . . \$79.95  
**Dennis De Young: Three Piece Suite.** A&M Records, Beta/VHS Hi-Fi . . . \$19.95  
**Devo.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$29.95  
**Dialogues of the Carmelites.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$79.95  
**Die Fledermaus.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$79.95  
**Dizzy Gillespie's Dream Band.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$16.95  
**Dizzy Gillespie.** Sony Video Software, Beta/VHS Hi-Fi Stereo . . . \$16.95  
**Don Giovanni.** Video Arts International, Beta/VHS Hi-Fi . . . \$79.95  
**Donnie Iris and the Cruisers.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$29.95



**Dream Academy.** Pioneer Artists, LaserDisc digital sound ..... \$16.95  
**Duran Duran: Dancing on the Valentine.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$16.95  
**Duran Duran: Girls on Film.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$16.95  
**East of Eden.** Warner Home Video, Beta/VHS Hi-Fi Stereo ..... \$39.98  
**Edith & Marcel.** Media Home Entertainment, Beta/VHS Dolby Hi-Fi Stereo ..... \$59.95  
**Elton John.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$16.95  
**Erick Friedman Plays Fritz Kreisler.** Kultur, Beta/VHS Hi-Fi Stereo ..... \$59.95  
**Evolutionary Spiral.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$16.95  
**Falco: Rock Me Falco.** A&M Records, Beta/VHS Hi-Fi ..... \$19.95  
**Falstaff.** Video Arts International, Beta/VHS Hi-Fi ..... \$69.95  
**Fandango.** Warner Home Video, Beta/VHS Hi-Fi Stereo ..... \$79.95  
**Fernando Bujones: Coppelia.** Kultur, Beta/VHS Hi-Fi Stereo ..... \$59.95  
**Fernando Bujones: The Sleeping Beauty.** Kultur, Beta/VHS Hi-Fi Stereo ..... \$59.95  
**Fidelio.** Video Arts International, Beta/VHS Hi-Fi ..... \$69.95  
**Killing Fields, The.** Warner Home Video, Beta/VHS Hi-Fi Stereo ..... \$24.98  
**Firefox.** Warner Home Video, Beta Hi-Fi Stereo ..... \$69.95  
**Flock of Seagulls.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$16.95  
**Freddie Hubbard Live at the Village Vanguard.** Pioneer Artists, LaserDisc digital sound ..... \$24.95  
**Freddie Hubbard.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$29.95  
**GTR: The Making of GTR.** RCA/Columbia Pictures Home Video, Beta/VHS Hi-Fi Stereo ..... \$19.95  
**Gerry Mulligan.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$16.95  
**Giant.** Warner Home Video, Beta/VHS Hi-Fi Stereo ..... \$59.95  
**Glory of Spain, The.** Video Arts International, Beta/VHS Hi-Fi ..... \$49.95  
**Godunov: The World to Dance In.** Kultur, Beta/VHS Hi-Fi Stereo ..... \$59.95  
**Golden Earring.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$19.95  
**Goonies, The.** Warner Home Video, digitally processed Beta/VHS Hi-Fi Stereo, digitally processed LaserDisc Stereo ..... \$79.95 (Beta/VHS), \$34.98 (LaserDisc)  
**Graham Parker.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$29.95  
**Gremlins.** Warner Home Video, digitally processed Beta/VHS Hi-Fi Stereo, digitally processed LaserDisc Stereo ..... \$24.98 (Beta/VHS), \$34.98 (LaserDisc)  
**Greystoke: The Legend of Tarzan, Lord of the Apes.** Warner Home Video, Beta/VHS Hi-Fi Stereo ..... \$24.98  
**Hamburger, The Movie.** Media Home Entertainment, Beta/VHS Dolby Hi-Fi Stereo ..... \$79.95  
**Hammett.** Warner Home Video, Beta Hi-Fi Stereo ..... \$69.95  
**Hearts and Armor.** Warner Home Video, Beta/VHS Hi-Fi Stereo ..... \$69.95  
**Heifetz & Piatigorsky.** Kultur, Beta/VHS Hi-Fi Stereo ..... \$59.95  
**Heifetz.** Video Arts International, Beta/

VHS Hi-Fi Stereo ..... \$59.95  
**Henry Mancini and Friends.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$29.95  
**Horowitz in London.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$39.95  
**Howard Jones: Like to Get to Know You Well.** Warner Home Video, Beta/VHS Hi-Fi Stereo ..... \$29.98  
**Huey Lewis and the News: The Heart of Rock 'N' Roll.** Warner Home Video, Beta/VHS Hi-Fi Stereo ..... \$29.98  
**Huey Lewis and the News: Video Hits.** CBS/Fox Video, LaserDisc digital sound ..... \$29.98  
**Huey Lewis: Heart of Rock 'N' Roll.** Pioneer Artists, LaserDisc digital sound ..... \$24.95  
**Tundra.** Media Home Entertainment, Beta/VHS Dolby Hi-Fi Stereo ..... \$59.95  
**I Do! I Do!.** RKO Home Video, Beta Hi-Fi, VHS Dolby Stereo ..... \$39.95  
**Idomeneo (Metropolitan Opera).** Pioneer Artists, LaserDisc digital sound ..... \$49.95  
**Idomeneo.** Video Arts International, Beta/VHS Hi-Fi ..... \$69.95

VHS Hi-Fi Stereo ..... \$29.98  
**Joan Sutherland in Concert.** Kultur, Beta/VHS Hi-Fi Stereo ..... \$39.95  
**Joan Sutherland: Making Lakme.** MasterVision, Beta/VHS Hi-Fi Stereo ..... \$64.95  
**Joe Jackson: The Big World Sessions.** A&M Records, Beta/VHS Hi-Fi ..... \$19.95  
**Joe Jackson: The Big World Sessions.** RCA/Columbia Pictures Home Video, Beta/VHS Hi-Fi Stereo ..... \$19.95  
**Joe Williams: Jazz at the Smithsonian.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$29.95  
**John Lennon: Live in New York City.** Pioneer Artists, LaserDisc digital sound ..... \$24.95  
**John Cougar Mellencamp: Ain't that America.** Pioneer Artists, LaserDisc digital sound ..... \$24.95  
**Johnny Griffin.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$29.95  
**Jose Serebrier.** Kultur, Beta/VHS Hi-Fi Stereo ..... \$59.95  
**Judas Priest Live.** Media Home Enter-



Media Home Entertainment's *Hamburger, The Movie*.

**Il Trovatore.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$79.95  
**Invasion USA.** MGM/UA Home Video, LaserDisc digital sound ..... \$34.95  
**Iron Maiden: Behind the Iron Curtain.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$19.95  
**Iron Maiden: Video Pieces.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$16.95  
**Israel Folk Dance Festival.** Kultur, Beta/VHS Hi-Fi Stereo ..... \$59.95  
**J. Geils Band.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$16.95  
**Jam, The.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$19.95  
**Jan Peerce, Marian Anderson, and Andres Segovia.** Kultur, Beta/VHS Hi-Fi Stereo ..... \$59.95  
**Jesse Rae.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$16.95  
**Jewel of the Nile, The.** CBS/Fox Video, LaserDisc digital sound ..... \$34.98  
**Joan Armatrading: Track Record.** A&M Records, Beta/VHS Hi-Fi ..... \$29.95  
**Joan Armatrading: Track Record.** RCA/Columbia Pictures Home Video, Beta/VHS Hi-Fi Stereo ..... \$29.95  
**Joan Rivers and Friends Salute to Heidi Abramowitz.** Warner Home Video, Beta/

tainment, Beta/VHS Dolby Hi-Fi Stereo ..... \$29.95  
**K. Jarrett, G. Peacock & J. DeJohnette: Standards.** Pioneer Artists, LaserDisc digital sound ..... \$29.95  
**Kajagoogoo.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$16.95  
**Kansas.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$29.95  
**Katrina and the Waves.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$19.95  
**Kim Carnes.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$16.95  
**Kinks: Come Dancing with the Kinks.** RCA/Columbia Pictures Home Video, Beta/VHS Hi-Fi Stereo ..... \$19.95  
**Kiss: Animalize Live Uncensored.** Pioneer Artists, LaserDisc digital sound ..... \$24.95  
**Kool and the Gang Tonight.** Pioneer Artists, LaserDisc digital sound ..... \$24.95  
**Krush Groove.** Warner Home Video, digitally processed Beta/VHS Hi-Fi Stereo, digitally processed LaserDisc Stereo ..... \$79.95 (Beta/VHS), \$34.98 (LaserDisc)  
**La Bayadere.** Kultur, Beta/VHS Hi-Fi Stereo ..... \$59.95  
**La Boheme (Metropolitan Opera).** Pioneer Artists, LaserDisc digital ..... \$49.95



**La Gran Scena Opera Company.** Video Arts International, Beta/VHS Hi-Fi \$59.95  
**La Sylphide.** Kultur, Beta/VHS Hi-Fi Stereo \$59.95  
**Ladyhawke.** Warner Home Video, digitally processed Beta/VHS Hi-Fi Stereo, digitally processed LaserDisc Stereo \$79.95 (Beta/VHS), \$34.98 (LaserDisc)  
**Lee Ritenour, Dave Grusin: Live from the Record Plant.** Pioneer Artists, LaserDisc digital sound \$24.95  
**Legacy, The.** MCA Home Video, Beta Hi-Fi Stereo, VHS Dolby Hi-Fi Stereo \$59.95  
**Lena Horne: The Lady and her Music.** RKO Home Video, Beta Hi-Fi, VHS Dolby Stereo \$39.95  
**Leonid Kogan.** Kultur, Beta/VHS Hi-Fi Stereo \$39.95  
**Lel's Break: A Visual Guide to Break Dancing.** Warner Home Video, Beta Hi-Fi Stereo \$39.98  
**Lionel Hampton.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$19.95  
**Lovers of Teruel, The.** Kultur, Beta/VHS Hi-Fi Stereo \$59.95  
**Macbeth.** Kultur, Beta/VHS Hi-Fi Stereo \$59.95  
**Macbeth.** Video Arts International, Beta/

Hi-Fi Stereo \$16.95  
**Medea.** Kultur, Beta/VHS Hi-Fi Stereo \$59.95  
**Medea.** Video Arts International, Beta/VHS Hi-Fi Stereo \$59.95  
**Mel Lewis: Jazz at the Smithsonian.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$29.95  
**Mel Torme.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$29.95  
**Michael Nesmith.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$16.95  
**Michael Stanley Band.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$29.95  
**Mike Manieri.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$29.95  
**Minor Detail.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$16.95  
**Mishima: A Life in Four Chapters.** Warner Home Video, Beta/VHS Hi-Fi Stereo \$79.95  
**Missing Persons.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$16.95  
**Money Pit, The.** MCA Home Video, Beta Hi-Fi Stereo, VHS Dolby Hi-Fi Stereo \$79.95  
**Monkees, The: Dance, Monkees Dance and Hitting the High Seas.** RCA/

**Naked Cage.** Media Home Entertainment, Beta/VHS Dolby Hi-Fi \$79.95  
**Naked Eyes.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$16.95  
**Nancy Wilson.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$29.95  
**Natalia Makarova: In a Class of Her Own.** Video Arts International, Beta/VHS Hi-Fi \$49.95  
**Neil Young: Solo Trans.** Pioneer Artists, LaserDisc digital sound \$24.95  
**Never Say Never Again.** Warner Home Video, Beta Hi-Fi Stereo \$79.95  
**Neverending Story, The.** Warner Home Video, Beta/VHS Hi-Fi Stereo \$79.95  
**Neville Marriner.** Kultur, Beta/VHS Hi-Fi Stereo \$29.95  
**Night Shift.** Warner Home Video, Beta/VHS Hi-Fi Stereo \$24.98  
**Otis Redding.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$19.95  
**Out of Africa.** MCA Home Video, CX-encoded, digital stereo LaserDisc \$39.98  
**Outlaws.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$29.95  
**Outsiders, The.** Warner Home Video, Beta Hi-Fi Stereo \$69.95  
**P.O.W. The Escape.** Media Home Entertainment, Beta/VHS Dolby Hi-Fi Stereo \$79.95  
**Pale Rider.** Warner Home Video, digitally processed Beta/VHS Hi-Fi Stereo \$79.95  
**Pas De Deux.** Video Arts International, Beta/VHS Hi-Fi \$49.95  
**Patti LaBelle: Look to the Rainbow Tour.** Pioneer Artists, LaserDisc digital sound \$29.95  
**Paul Anka, An Evening With.** Pioneer Artists, LaserDisc digital sound \$29.95  
**Pavlova.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$69.95  
**Pee-Wee's Big Adventure.** Warner Home Video, Beta/VHS Hi-Fi Stereo \$24.98  
**Perfumed Handkerchief, The.** Kultur, Beta/VHS Hi-Fi Stereo \$59.95  
**Personal Property.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$19.95  
**Pete Townshend.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$19.95  
**Peter Martins: A Dancer.** Kultur, Beta/VHS Hi-Fi Stereo \$59.95  
**Phil Collins.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$16.95  
**Placido: A Year in the Life of Placido Domingo.** Kultur, Beta/VHS Hi-Fi Stereo \$39.95  
**Police, The: Synchronicity Concert.** A&M Records, Beta/VHS Hi-Fi \$39.95  
**Polish Chamber Orchestra, Conducted by Jerzy Maksymiuk.** Kultur, Beta/VHS Hi-Fi Stereo \$29.95  
**Protector, The.** Warner Home Video, Beta/VHS Hi-Fi Stereo \$79.95  
**Protocol.** Warner Home Video, Beta/VHS Hi-Fi Stereo \$79.95  
**Purple Hearts.** Warner Home Video, Beta Hi-Fi Stereo \$79.95  
**Purple Rain.** Warner Home Video, Beta/VHS Hi-Fi Stereo \$29.98  
**Queen: Live from Rio.** Sony Video Software, Beta Hi-Fi Stereo, VHS Hi-Fi Stereo \$29.95  
**Queen: The Works.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$16.95  
**Queensryche.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$29.95  
**Raffi: A Young Children's Concert with**



Warner Home Video's *The Music Man*

VHS Hi-Fi \$79.95  
**Mad Max Beyond Thunderdome.** Warner Home Video, digitally processed Beta/VHS Hi-Fi Stereo, digitally processed LaserDisc Stereo \$79.95 (Beta/VHS), \$34.98 (LaserDisc)  
**Madonna Live: The Virgin Tour.** Pioneer Artists, LaserDisc digital sound \$24.95  
**Magic Flute, The (Ingmar Bergman).** Paramount, LaserDisc digital sound \$39.95  
**Magic Flute, The.** Video Arts International, Beta/VHS Hi-Fi \$79.95  
**Marriage of Figaro, The.** Video Arts International, Beta/VHS Hi-Fi \$79.95  
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**Martin Briley: Dangerous Moments.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$16.95  
**Max Roach.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$16.95  
**Maze.** Sony Video Software, Beta/VHS

Columbia Pictures Home Video, Beta/VHS Hi-Fi Stereo \$19.95  
**Monkees, The: Monkees vs. Machines and Don't Look a Gift Horse in the Mouth.** RCA/Columbia Pictures Home Video, Beta/VHS Hi-Fi Stereo \$19.95  
**Monty Python's Life of Brian.** Warner Home Video, Beta/VHS Hi-Fi Stereo \$24.98  
**Motels.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$16.95  
**Mozart.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$39.95  
**Mozart/Smetana/Dvorak.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$39.95  
**Mr. Mister: Videos from the Real World.** RCA/Columbia Pictures Home Video, Beta/VHS Hi-Fi Stereo \$14.95  
**Mr. Mister: Welcome to the Real World.** Pioneer Artists, LaserDisc digital sound \$16.95  
**Music Man, The.** Warner Home Video, Beta/VHS Hi-Fi Stereo \$24.98



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**Rake's Progress, The.** Video Arts International, Beta/VHS Hi-Fi ..... \$79.95  
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**Renata Scotto: Prima Donna in Recital.** Video Arts International, Beta/VHS Hi-Fi Stereo ..... \$59.95  
**Requiem.** Kultur, Beta/VHS Hi-Fi Stereo ..... \$39.95  
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**Revolution.** Warner Home Video, digitally processed Beta/VHS Hi-Fi Stereo, digitally processed LaserDisc Stereo \$79.95 (Beta/VHS), \$34.98 (LaserDisc)  
**Richard Thompson.** Sony Video Software, Beta/VHS Hi-Fi Stereo ... \$29.95  
**Rick Derringer.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$29.95  
**Rick Springfield: Beat/Live Drum.** Pioneer Artists, LaserDisc digital sound ..... \$24.95  
**Right Stuff, The.** Warner Home Video, Beta Hi-Fi Stereo ..... \$79.95  
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**Sherrill Milnes: An All-Star Gala.** Video Arts International, Beta/VHS Hi-Fi Stereo ..... \$49.95  
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**SilverHawks Vol. 1: Sky Shadow.** Karl-Lorimar Home Video, Beta/VHS Hi-Fi Stereo ..... \$14.95  
**SilverHawks Vol. 2: The Gold Shield.** Karl-Lorimar Home Video, Beta/VHS Hi-Fi Stereo ..... \$14.95  
**SilverHawks: The Origin Story.** Karl-Lorimar Home Video, Beta/VHS Hi-Fi Stereo ..... \$69.95  
**Siouxie and the Banshees.** Sony Video Software, Beta/VHS Hi-Fi Stereo \$19.95  
**16 Days of Glory.** Paramount, LaserDisc digital sound ..... \$39.95  
**Song Remains the Same, The.** Warner Home Video, Beta/VHS Hi-Fi Stereo ..... \$39.98  
**Sounds of Motown.** Sony Video Software, Beta/VHS Hi-Fi Stereo ... \$29.95  
**Soviet Army Chorus, Band & Dance Ensemble.** Kultur, Beta/VHS Hi-Fi Stereo ..... \$59.95  
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**Starship: Video Hoopla.** RCA/Columbia Pictures Home Video, Beta/VHS Hi-Fi Stereo ..... \$14.95  
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**Styx: Caught in the Act Live.** A&M Records, Beta/VHS Hi-Fi ..... \$29.95  
**Superman II.** Warner Home Video, Beta Hi-Fi Stereo ..... \$69.95  
**Superman III.** Warner Home Video, Beta Hi-Fi Stereo ..... \$69.95  
**Superman.** Warner Home Video, Beta/VHS Hi-Fi Stereo ..... \$24.98  
**Supertramp: Brother Where You Bound.** A&M Records, Beta/VHS Hi-Fi . \$19.95  
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**Tannhauser (Metropolitan Opera).** Pioneer Artists, LaserDisc digital sound ..... \$49.95  
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**Tears for Fears.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$16.95  
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**Three 3:15.** Media Home Entertainment, Beta/VHS Dolby Hi-Fi Stereo ... \$79.95  
**Tina Turner: Private Dancer Tour.** Pioneer Artists, LaserDisc digital sound ..... \$24.95  
**Tina Turner: Private Dancer Tour.** Sony Video Software, Beta/VHS Hi-Fi Stereo ..... \$29.95  
**Tina Turner: Private Dancer.** Sony Video





Photo/Herbert Migdoll  
Monitor picture The Joffrey Ballet in John Cranko's, "The Taming of the Shrew."

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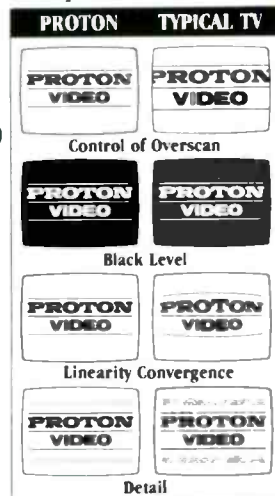
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