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
- Videodisc Players

Feature articles on:

- The Sight & Sound of Home Video
- Ten Tips to Help You Buy the Right VCR
- High-Fidelity Audio on Video Recorders
- Buying a Camcorder or Video Camera
- Receiving Satellite TV Broadcasts
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Two years ago, when JVC first built the smallest VHS camera/recorder ever made, people said it was a miracle. One miracle in a lifetime should satisfy most people—but not the engineers at JVC.

The Miracle of VHS
So this year we built a camera/recorder that's not only compatible with every VHS deck in the world, but small enough to fit in the palm of your hand: The JVC Mini VideoMovie. Yet another little miracle from the people who created the VHS format, the most widely used format in the world.

The Mini VideoMovie records on regular VHS tape, sound on special small cassettes. And a carrier tray is provided for playback on any VHS recorder.

The Miracle of JVC Technology
Weighing in at just over three pounds, including battery and cassette, the JVC Mini VideoMovie has Instant Playback—Power Zoom—Auto Focus and other features you would expect to find only in larger, heavier camera/recorders.

The video image is read by a durable advanced CCD chip. Also, the HQ (High Quality) recording system developed by JVC allows you to record up to an hour with exceptional picture quality.

So pick up the JVC Mini VideoMovie. You'll discover why this camera/recorder was built upon the notion that at JVC miracles never cease.
A basic introduction to video's bright new world—by E. Brad Meyer

Back 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
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 Beta, and 8mm—and each format is incompatible.

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 in demand, improving the sound in the soundtracks laid down along one edge of the tape. 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, switchable detail enhancement, and the reduction of luminance (black-and-white) and chrominance (color) noise.

**Portable VCRs**

Portable videocassettes 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 videocassette 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 camcorders with some special effects. Their popularity peaked about a year ago, then began to shrink in favor 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,
MAXELL. THE TAPE THAT LASTS AS LONG AS THE LEGEND.

"Wow!" The world said, from the very first time she stepped onto the big screen. And through 29 films she remained the delicious dessert of movie goers everywhere, and the very best part of every man's fantasy. Today Maxell helps you preserve her films, with tapes that are manufactured up to 60% above industry standards. So even after 500 plays her sensual beauty will light up your consciousness, just as it did in the early fifties, when the world first discovered the magic of Marilyn Monroe.
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 hook-up, 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. Prerecorded 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.
A Quick Plug for Bigger Sound.

Wide-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.
BY ALAN D. FORD

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 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 it's 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 follow-up 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 example, 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!

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HIGH-FIDELITY AUDIO ON VIDEO RECORDERS

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

Hamlet 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 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 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
Movies 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 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 operate 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. And 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 tape 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 totally water proof and shock 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 camera'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 pick-up 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—infra-red 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.

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 night, 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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HIGH PERFORMANCE MODULAR FURNITURE THAT KEEPS PACE WITH YOUR ELECTRONIC SYSTEM
RECEIVING SATELLITE TV BROADCASTS

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

Telstar, 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
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 up off the ground 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 located 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 the shallower 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 front 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 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 it's 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 to 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.
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And one more thing. If you’re not familiar with SAP, it’s not a government system. 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.

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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 connect 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
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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.

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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.

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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.

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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.

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

The 9⅛" X 4½" 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.

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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.

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Frequencies above 3400Hz are routed to the horn tweeter.

The top mounted system routes only frequencies above 1200Hz to the 5” polypropylene mid-range driver, and frequencies above 3400Hz are routed to the top sonice 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 room acoustics.

**Note:** Only the top tweeters are mounted at 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, 19½” wide and 10½” deep. Their lovely oak wood-grain appearance is enhanced by the dark removable grill cloths that beautifully contrast with the rich wood-grain interiors. 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**

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 using your credit card, call toll free or send your check for DAK’s matching speaker teasing 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 speakers are the future listening years an on-going fabulous, if notearthshaking experience.

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**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.

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**WHAT'S STEREO IMAGING?**

Stereo imaging 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, the pluck of a string bass being explosively recreated in your living room. BSR’s 15” sub-woofer acoustic suspension driver will revolutionize your concept of low clean bass.

Its magnetic structure weights 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 and analog recording.

And, as 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.)
Colossus System Breakers

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 DMB

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 uncontrollable 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 sculpt your sound.

The speakers are rated for 90 watts peak and 45 watts continuous power. These speakers are 23¾" tall, 13¼" 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.

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 8¼" 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 8" 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 Woofers/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.
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

Attacks 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...
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 retyped and reproofed if a change is made. 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 onboard 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’.

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 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. 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 1-313-538-6988. 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 he’s got a running start on doing a whole lot more than you, or frankly Epson, probably ever imagined with this computer.
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 NQL 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 tool Epson’s 64K computer is. You can even do text screen dumps (print out exactly what you see on the screen).

**THE BEST FREE PART OF 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 Flipp (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.

Epson'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. 4613. Note: 3½" disks are the standard format for many of the newest computers.

**High Grade Microcassettes**

For the many people who already own the job while it lets you escape the chains of the newest computers. 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 dBase II versions. It’s a $469 retail value that’s yours for just $199 ($3 P&H) Order No. 4621.

Epson also has Ashton-Tate’s dTraveler 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 a good souped-up $300 IBM clone for under $600. It’s a great buy. We made them a ridiculously low offer (we frankly didn’t think they’d accept) for everything. Well, 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 data to and from 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 don’t need the 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 wedge, 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, and have the complete system less the modem and CompuServe package but with a Wedge that gives you a 120K RAM disk (Wow!) for just $200 ($5 P&H) Order No. 4613.

**OPTIONS FOR EVERYONE**

For massive storage we have Epson’s state of the art 3½" floppy disk drive. It’s rated at 320K. It has internal Ni-Cad Batteries and an AC Adaptor/Charger. Epson’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.

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.

**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’sCalc 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.

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 deskbound PCs.

For toll free information, call 6AM - 5PM Monday - Friday PST.

1-800-325-0800

For Technical Information, 1-800-272-3200

I-800-325-0800

DAK

INDUSTRIES

Call Toll Free For Credit Card Orders Only

24 Hour A Day 7 Days A Week

I-800-325-0800

For Toll Free Information, Call 6AM to 6PM Monday - Friday PST

Technical Information... 1-800-272-3200

Any Other Inquiries... 1-800-423-2886

2800 Remmet Ave., Canoga Park, CA 91304
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. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes. The $45 million profit is after all engineering, selling and General & Administrative expenses, but before taxes.
...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.

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.

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 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 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.

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 3½” Wide, 4¾” deep and 1½” 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** ($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?

DAK INDUSTRIES INC.
Call Toll Free For Credit Card Orders Only
1-800-325-0880
For Toll Free Information, Call 5AM-SAM Monday Friday
Technical Information. . . . . 1-800-272-3200
Any Other Inquiries. . . . . 1-800-423-2866
8200 Remmet Ave., Canoga Park, CA 91304
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 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 programming 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 compression (compression and expansion) system developed by CBS to lower background noise of LPs, but now primarily used as a noise-reduction system.
system for laser videodisc. 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 so as to feed to the picture tube. As an incidental side effect, DC restoration circuits also 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 ("picture" in many newer sets) 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 concommitant 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 ¾-inch size) instead of the regular ½-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 for 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 or 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.

Interface. TV frames are made up of pairs of successive 260-line fields whose scan lines are supposed to be evenly interleaved. 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 interface 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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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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<td>KODAK</td>
<td>343 State St.</td>
<td>Rochester, NY 14650</td>
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<td>KONICA</td>
<td>440 Sylvan Avenue</td>
<td>Englewood Cliffs, NJ 07632</td>
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<td>KOS CORPORATION</td>
<td>4129 N. Port Washington Ave.</td>
<td>Milwaukee, WI 53212</td>
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<td>KRAMER ELECTRONICS</td>
<td>48 Urban Ave.</td>
<td>Westbury, NY 11590</td>
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<td>KRATEK</td>
<td>P.O. Box 382</td>
<td>Westbury, NY 11590</td>
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<td>KULTUR</td>
<td>121 Highway 36 W.</td>
<td>Long Branch, NJ 07764</td>
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<td>KYOCERA</td>
<td>7 Powder Horn Drive</td>
<td>PO Box 4227</td>
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<td>LASER by SWIRE MAGNETICS</td>
<td>301 E. Alondra Blvd. #1187</td>
<td>Gardena, CA 90248</td>
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<td>LLOYDS ELECTRONICS</td>
<td>180 Raritan Center Pkwy</td>
<td>Edison, NJ 08818</td>
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<td>MAGNAVOX</td>
<td>PO Box 6950</td>
<td>Knoxville, TN 37914</td>
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<td>MARANTZ</td>
<td>2025 Northwood Street</td>
<td>Chatsworth, CA 91311</td>
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<td>MASTEVERISION</td>
<td>969 Park Avenue</td>
<td>New York, NY 10028</td>
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<td>MAXELL</td>
<td>60 Oxford Drive</td>
<td>Moonachie, NJ 07074</td>
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<td>MCA HOME VIDEO</td>
<td>70 Universal City Plaza</td>
<td>Universal City, CA 91608</td>
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<td>MEMOREX by MEMTEK</td>
<td>1600 Memorex Drive</td>
<td>Santa Clara, CA 95052</td>
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<td>MINOLTA</td>
<td>101 Williams Drive</td>
<td>Ramsey, NJ 07446</td>
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<td>MITSUBISHI</td>
<td>3030 E. Victoria St.</td>
<td>Compton, CA 90221</td>
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<td>MKG</td>
<td>10926 Rush Street #9</td>
<td>South El Monte, CA 91733</td>
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<td>MULTIPLEX TECHNOLOGY</td>
<td>252 Imperial Highway</td>
<td>Fullerton CA 92635</td>
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<td>MULTIVISION</td>
<td>1751 Fox Drive</td>
<td>San Jose, CA 95131-2312</td>
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<td>NAD</td>
<td>675 Canton Street</td>
<td>Norwood, MA 02062</td>
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<td>NADDY SYSTEMS</td>
<td>1145 65th Street</td>
<td>Oakland, CA 94608</td>
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<td>NALAD</td>
<td>121 Roy Blvd.</td>
<td>Brantford, Ontario</td>
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<td>NAGAOKA</td>
<td>210 8th Street</td>
<td>Lewiston, NY 14092</td>
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<td>NEC</td>
<td>1401 Estes Avenue</td>
<td>Elk Grove Village, IL 60007</td>
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<td>NILES AUDIO/VIDEO</td>
<td>PO Box 160818</td>
<td>Miami, FL 33116</td>
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<td>OLYMPUS</td>
<td>Crossways Park</td>
<td>Woodbury, NY 11797</td>
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<td>O'SULLIVAN INDUSTRIES</td>
<td>19th &amp; Gulf Sts.</td>
<td>Lamar, MO 64759</td>
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<td>ORA</td>
<td>20120 Plummer Street</td>
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Chatsworth, CA 91313

PANASONIC
1 Panasonic Way
Secaucus, NJ 07094
(201) 348-7000

PHILCO
PO Box 6950
Knoxville, TN 37914
(615) 521-4316

PHOENIX GOLD
376 Marlborough Street
Boston, MA 02115
(617) 353-1056

PIONEER ELECTRONICS
5000 Airport Plaza Drive
Long Beach, CA 90815
(213) 420-5700

PIVOTELLI USA
20 Rainbow Pond Drive, Suite A-2
Walpole, MA 02081
(617) 668-8770

POLK AUDIO
5601 Metro Dr.
Baltimore, MD 21215
(301) 837-4300

PORTAVIDEO
1930 W. 3rd Street
Tempe, AZ 85281
1-800-528-1222

PROTON
737 West Artesia Blvd.
Compton, CA 90220
(213) 638-5151

QUASAR
9401 W. Grand Ave.
Franklin Park, IL 60131
(312) 451-1200

RACK FACTORY
730 Perez
San Antonio, TX 78207
(512) 227-7734/(800) 531-5341

RAYDX SATELLITE SYSTEMS
PO Box 4078
Ocala, FL 32678
(904) 687-2003

RCA/COLUMBIA HOME VIDEO
2901 W. Alameda Avenue
Burbank, CA 91505
(818) 954-4950

RCA SALES CORPORATION
600 N. Sherman Drive
Indianapolis, IN 46201
(317) 267-5000

REALISTIC (Div. Tandy Corp.)
1300 One Tandy Center

Fort Worth, TX 76102
(817) 390-3885

RECOTON
46-23 Crane St.
Long Island City, NY 11101
(212) 392-6442

RKO PICTURES
1900 Avenue of the Stars
Suite 1562
Los Angeles, CA 90067
(213) 277-3133

R.L. DRAKE COMPANY
P.O. Box 112
Miamisburg, OH 45342
(513) 866-2421

SAC
6844 Vineland Ave.
North Hollywood, CA 91605
(818) 762-0619

SAMSUNG ELECTRONICS
117 Seaview Drive
Secaucus, NJ 07094
(201) 867-7575

SANSUI ELECTRONICS
1250 Valley Brook Ave.
Lyndhurst, NJ 07071
(201) 460-9710

SANYO ELECTRIC
1200 W. Artesia Blvd.
Compton, CA 90220
(213) 537-5830

SCOTCH (3M)
3M Center
Building 223-SN
Saint Paul, MN 55144
(612) 733-2821

SCI-TECH
1450 NW 78th Ave.
Miami, FL 33126
(305) 591-1620

SHARP ELECTRONICS
Sharp Plaza
PO Box 650, Mahwah, NJ 07430
(201) 529-8200

SONRISE CABINETS
1362 NE 10th Suite F
Bellevue, WA 98005
(206) 641-1900

SONY VIDEO SOFTWARE
1700 Broadway
New York, NY 10019
(212) 757-4990

SPEAKERLAB
735 North Northlake Way
Seattle, WA 98103
(206) 633-5020

SSI (SURROUND SOUND INC.)
14025 Panay Way
Marina Del Rey, CA 90292
(213) 823-2933

SYLVANIA
PO Box 6950
Knoxville, TN 37914
(615) 521-4316

TAMRAC
6709 Independence Ave
Canoga Park, CA 91303
(818) 715-0090

TATUNG
2850 El Presidio St.
Long Beach, CA 90810
(213) 979-7055/(800) 421-2929

TEAC
7733 Telegraph Road
Montebello, CA 90640
(213) 726-0303

TECHNICS
One Panasonic Way
Secaucus, NJ 07094
(201) 398-7000

TELEVONIC SOUND SYSTEMS
PO Box 46066
Denver, CO 80201
(303) 444-2828

TENBA
503 Broadway
New York, NY 10012
(212) 966-1013

VIDEO ARTS INTERNATIONAL
PO Box 153 Ansonia Station
New York, NY 10023
(212) 799-7798

VDO-PAK PRODUCTS
PO Box 67
Port Orange, FL 32029
(800) 874-5906

VECTOR RESEARCH
1230 Calle Suerte
Camarillo, CA 93010
(805) 987-1312

WARNER HOME VIDEO
4000 Warner Blvd
Burbank, CA 91522
(818) 954-6000

ZENITH
1000 Milwaukee Avenue
Glendale, IL 60025
(312) 391-7000

1987 VIDEO BUYERS' GUIDE 45
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.

ADC's new Hayes Compatible 1200 baud auto-answer/auto-dial modem is one heck of a duck. And, it's a bargain. You'll love it for discount services. Jack and auto tone/pulse switching. So, whose phone lines are always busy.

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 display, 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 a male 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 the Census Bureau, Your 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 to your mainframe computer. You can download files. Look how easy it is.

You can even send it directly to type-setters 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 rewrite everything over and over again? Electronic mail lets you type in your message and you won't have to worry 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 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 9½" X 5½" 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 (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.
NEW MODERN POWER CONTROLLER

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

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 off with one switch.

But there's more. This 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.

BUT IT'S CONVENIENT
There are 6 protected 3-wire outlets 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 1/2" high, 13 3/4" wide and 12 1/4" 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 Controller 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 court system.

The ducks will be sure to be quacking if they see BSR's factory direct, through DAK, price on this state-of-the-art 1 200 baud intelligent modem.

A LOOK AT COMPUSERVE & MORE
Get a date, check your stocks, leave E-Mails, or post messages on Electronic Bulletin Boards. Transfer files or download public domain programs. Let your computer bring you the wealth of electronic 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), ATARI SIG ( Atari Forum), Aviation (Aviation Forum), Bank (Home Banking), BANSH (Bank's Bank), Broker (Brokerage), Business (Business Menu), NASDAQ (NASDAQ 64 Forum), Castle (Castle Telelager Game), CBIG (CBIG Internet Group), Commodore Programming Forum, Clarke school (For the Deaf), COG (Color Computer Forum), Com MSuite, CP/M Suite (Current Quotations), DEMOGRAPHICS, Super suite, Disclosure (Public Company Details), Earnings (Earnings Projections Menu), Easy (Easy Menu), Economics, Education, Email, Encyclopedia (On-Line Grolier's Academic American Encyclopedia), Engineering (Engineering Menu), Entertainment (Entertainment Menu), Environment (Environmental Forum), EPI (EPI Forum), Finance (Finance Menu), Financial (Personal Finance), Flight (Travel Menu), Food, Forums (Menu of Forums), Games (Menu of Games), Gourmet (Gourmet Menu), HealthCare (Health Users Group), HBO (HBO), Hollywood (Hollywood Hotline), Home (Home Menu), Hotel (A to Z Hotels), IBM (IBM), IBM SIG (IBM Users Forum), Insurance, Interests (Other Interests), Interface, Investments (Investments Menu), INTERFACE (10 Interface Program), Link (Link Menu), Legal (Legal Menu), Leisure (Leisure Travel Menu), Libraries (Library Home Reference Menu), Lotus (World Of Lotus), Love (Love Messages), Magazines (Electronic Publishing Menu), Malware (Apple Users Group), Medical (Medical Menu), Movies (Movie Reviews), MS (Microsoft Users Group), S&P500 (Standard & Poor's 500), SFTI (Scientific Fiction Forum), Science (Science Education Forum), Showbiz (Showbiz quid), State (Department of State), Sports (Sports Menu), Technology (Tinker's reference), Vacation, Weather, Weather (NOAA Weather Wire), WINE (WINE Winery.)

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

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Apply Kaplan

Computer Power Controller

DAK Industries Inc.
36200 Remmet Ave., Canoga Park, CA 91304

For Toll Free Information, Call BAM-5PM Monday - Friday PST
1-800-352-0800

For Toll Free Information, Call 1-800-329-0800

Technical Information: 1-800-272-3200

Any Other Inquiries: 1-800-423-2886

8200 Remmet Ave., Canoga Park, CA 91304
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.

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, if I'm 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 and a beginner or the athlete. And, you'll really see your improvement as you exercise.

The worst shape you're in, the faster you'll reach the target zone and the less work you 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 and the athlete. And, you'll really see your improvement as you exercise. But you don't have to exercise. Just wearing the Heart Window, even 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 professional 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 fashionChoice. So, it's a dress watch.

Plus, there's a 24 hour alarm and an hourly chrip. 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 expertise 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 this 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.

DAK INDUSTRIES INCORPORATED

TOLL-FREE ORDER LINE

For credit card orders call 24 hours a day 7 days a week
1-800-325-0800
8200 Remmet Ave., Canoga Park, CA 91304

CALL TOLL-FREE...
The Body Monitor has a built-in table meter's reading. A formula is included by adding your exact weight to the body calories you've burned, based on the that calculates an average of how many see how many calories you've burned. I've traveled 0.58 miles. travel. Just touch a button, and as you automatically calculates the distance you set it to your particular stride length. And, with the ability to set your own stride, 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 2 1/2 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.

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.

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 ice cream sundae, but I may have a 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.

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, 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 $39oo ($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.

DAK INDUSTRIES INC.
Call Toll Free For Credit Card Orders Only 24 Hours A Day 7 Days A Week
1-800-325-0500
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
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 any set of 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

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.

In DAK's electronic world, where a new best is achieved almost every day, 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 ($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.

DAK INDUSTRIES INC.
Call Toll Free For Credit Card Orders Only
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
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 Dobly® 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.

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 music videos.

**BUT IS MONOAURAL 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 speakers) of just $1999 ($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.

**DK 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

*A void warranty if sold as a kit.*
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.

By Drew Kaplan

Close your eyes. Touch a button. And you’ll hear your stereo system literally 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 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 ±15db.

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 AM ‘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.
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. 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 sound.

**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 VU 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 florescent 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're 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.

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, 2000hz, 4000hz, 8000hz, and 16,000hz. BSR backs this top of the line Graphic Equalizer/Spectrum Analyzer with a 2 year standard limited warranty. It is 1 7/8 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. Sculpt 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.
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-inch subwoofers. They had a retail price of $332, but we sold them for $154.

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-inch massive infusion of explosive bass, added to your system for just $99.

**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-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 reproducers just the mammoth movement frequencies from 120Hz down to 22Hz with a special floor firing dual wound super woofer.

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.)

**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 the richness and depth this subwoofer will add to your bass and the impact of a 15" subwoofer to any stereo system for just $99.

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.

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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 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 crew if you're on the premises, or have an 8 hour tape you can view in about 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 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.

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, 11 1/2" tall by 12 1/2" deep. Each camera is just 9" deep, 4 1/2" 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 3/4 (3 $3 P&H). Order No. 4550. CA add tax.

57' extension cables are just $19 3/4 ($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.
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.

Unfair Competition?

By Drew Kaplan

Look around your office. Are your secretaries wasting time typing and retyping 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 Memorywriter 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-proothing, 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.

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

The $999 Typewriter/Computer

BOMBSHELL

[Image of a computer and typewriter]
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 5¼" 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 15¾" deep. And, with the monitor sitting on top, it is 14½" 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 15½" wide and 12½" deep.

So for most productive use you need a return on your desk that is about 33½" 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.

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.

The printer prints or type, you can underline automatically and you can print normal or Bold.

Or, use your own letterhead with the optional $99 cut sheet feeder.

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 display which simply lifts off when you're using the Amber Monitor.

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.

DON'T FORGET IT'S PORTABLE

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 (Artware Library, 10 Free Double Sided Double Density 5¼" 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&B. Order No. 4500. CA res add tax.

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 (Artware Library, 10 Free Double Sided Double Density 5¼" 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&B. Order No. 4500. CA res add tax.

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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 $19.90 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’s 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 controlled unit’s switch and automatically relinquishes control.

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 you know what you’ve programmed to 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.

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...
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, coffeemaker, 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.

**DUAL 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 $19.99.

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.

**FULLY COMPATIBLE**

DAK has over 70,000 customers with X10 systems. The standard modules that you already own are 100% compatible. So, for $19.99, 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 computereese, 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.


2) 32 Event Clock Timer—Lets you control 8 modules with up to 2 on and 2 off commands each. Also acts as a command base plus sleep and security extras. Just $26.99 ($2 P&H). Or, No. 9777.

3) Telephone Responder—Phone home and control 8 devices. It's also a base. It's just $39.99 ($3 P&H). Order No. 9778.


An Appliance Module—Controls stereos, TVs, or anything with motors. 15 amps, 500 watts, 1/3hp rating. Just $11.99 ($1 P&H). Order No. 9781.

An X10 Computer Home Controller complete with Appropriate Software Disk and Cable is just $19.99 (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.

DAK has over 70,000 customers with X10 systems. The standard modules that you already own are 100% compatible. So, for $19.99, how can you go wrong?
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*.

FREE 1987 Radio Shack Catalog!

Mail to Radio Shack, Department 87-A-258, 300 One Tandy Center, Fort Worth, TX 76102

NAME ____________________________
ADDRESS ____________________________
CITY ____________________________ STATE ______ ZIP ______

*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.
<table>
<thead>
<tr>
<th>Model</th>
<th>Features</th>
<th>Price</th>
<th>Dimensions</th>
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<tbody>
<tr>
<td>VS-525U</td>
<td>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</td>
<td>$850</td>
<td>17&quot; W X 4&quot; H X 11.62&quot; D; 13.9 lbs</td>
</tr>
<tr>
<td>VS-555U</td>
<td>Similar to VS-525U except does not include built-in amplifier and volume control</td>
<td>$980</td>
<td></td>
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<tr>
<td>VS-626U</td>
<td>VHS-format table-top VCR with HQ circuitry; MTS-SAP stereo tuner; 4-head system; 8-event, 28-day on-screen programming; 142-channel cable-ready tuner; 15 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</td>
<td>$550</td>
<td></td>
</tr>
<tr>
<td>VS-112U</td>
<td>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</td>
<td>$520</td>
<td></td>
</tr>
<tr>
<td>VS-111U</td>
<td>Similar to VS-112U with 2-event, 14-day on-screen programming capability</td>
<td>$520</td>
<td></td>
</tr>
<tr>
<td>VS-109U</td>
<td>VHS-format table-top VCR with HQ circuitry; Features wireless remote control; 82-channel programmable from remote; 21-event, 28-day on-screen programming; comb filter; still picture; quick finder search; auto power-on, recall; and remote control</td>
<td>$480</td>
<td></td>
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<tr>
<td>VS-110U</td>
<td>Similar to VS-111U with 1-event, 14-day on-screen programming capability</td>
<td>$480</td>
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<td>VS-112U</td>
<td>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</td>
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</tbody>
</table>

9-7305 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; vertical lock tool; one pair audio cables. 17" W X 4" H X 11.62" D; 13.9 lbs

$1,000
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; 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

9-7215 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- 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; vertical lock 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 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 key- board; 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 speed; video sharpness control. Includes VHF connecting cable; UHF twin lead wire; 300-75-ohm transformer ........................................... $700

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 ........................................... $470

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; 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

9-7145 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-synthesized 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 ........................................... $400

Goldenstar 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, picture freeze frame, on-screen Pause/Play, Channel Edit, Channel Search, Picture in Picture, and Color Bars. Includes VHF connecting cable; UHF twin lead wire; $500

GHV-8250M 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, picture freeze frame, on-screen Pause/Play, Channel Edit, Channel Search, Picture in Picture, and Color Bars. Includes VHF connecting cable; UHF twin lead wire; $500

GHV-8300M 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, picture freeze frame, on-screen Pause/Play, Channel Edit, Channel Search, Picture in Picture, and Color Bars. Includes VHF connecting cable; UHF twin lead wire; $500

GHV-8400M 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, picture freeze frame, on-screen Pause/Play, Channel Edit, Channel Search, Picture in Picture, and Color Bars. Includes VHF connecting cable; UHF twin lead wire; $500

GHV-8500M 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, picture freeze frame, on-screen Pause/Play, Channel Edit, Channel Search, Picture in Picture, and Color Bars. Includes VHF connecting cable; UHF twin lead wire; $500

GHV-8600M 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, picture freeze frame, on-screen Pause/Play, Channel Edit, Channel Search, Picture in Picture, and Color Bars. Includes VHF connecting cable; UHF twin lead wire; $500
Table-Top VCRs

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 ±3 dB in Hi-Fi mode; 80-8,000 Hz ±3 dB normal mode; power requirements 120 V, 28 W. 16.9" W X 3.9" H X 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 X 4" H X 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 X 3.9" H X 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 X 3.9" H X 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 X 4.1" high X 14" deep; 17.5 lbs............................... $390

---

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— Stereophile Magazine Vol. 9, No. 2

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EXAMPLES OF SOME OF OUR SUPER SPECIALS!

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RADAR DETECTORS

Uniden RD35 $.59
Uniden RD55 $.99
Uniden RD9 $1.99
Bel 870 $1.35
Whistler Spectrum 2 $2.19
Cobra 3160 $1.99
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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-revealing 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 ±3 dB in Hi-Fi mode; 100-10,000 Hz ±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 X 4.62" H X 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 ±3 dB in Hi-Fi mode; 100-10,000 Hz ±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 X 4.62" H X 15.62" D .......................... $895

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 tuning; still frame; one-touch recording. 17.12" W X 3.75" H X 13.75" D; 16.5 lbs ............................................. $629

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; cable-ready tuner; noiseless special effects; still frame; frame advance; one-touch recording. 17.12" W X 3.75" H X 13.75" D; 16.5 lbs ............................................. $599

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 X 3.75" H X 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 X 3.75" H X 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 X 3.75" H X 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), 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; 27-function remote control; 1-touch recording; auto stop; built-in RF modulator for channels 3 and 4; multi-function display. 5281T3. Portable. Features Dolby stereo; 4-head; dockable; 139-channel tuner; 14-day/8-event timer; variable slow motion; 26-function remote control .......... $1,795

5301T3. Same as 5281T3 with Hi-Fi sound and Dolby stereo ........... $1,950

VT-1321. PAL-based videocassette recorder for use in PAL countries $1,795

5181T3. Tunes and records stereo SAP television programs; HQ circuitry; simultaneous switch; 2 sets of audio outputs; auto index; records Hi-Fi stereo with or without video input. Features audio and video editing; 27-function remote control; mode variable remote control; automatic program finder; 17-channel direct-tuning cable tuner; 30-day/8-event on-screen programmer with daily repeat and memory back-up .... $1,795

6151T3. Similar to above without MTS decoder ........... $1,495

621T3. 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

631T3. Same as 621T3 with 4-event programmable all-speed PAL and SECAM-5-function wired remote control; cable-ready 107-channel tuner with 14 presets; peak-picture sharpness controls .................. $789

6101T3. Same as 631T3 with 15-function wireless remote control; HQ tape counter memory; tape viewing window; chrome and black cabinet ............... $859

611T3. Same as 6101T3 with "pro-fect" heads for special effects at SP speed; 17-function remote control .......... $1,075

6201T2. Top-loading portable AC or 12-volt DC operated video player. Plays all PAL, NTSC, and SECAM speeds ....... $595

V381T4 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/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 .......... $1,955

5181TARG 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,LP); cable-ready; still frame; auto rewind; channel lock; auto fine tuning; audio dubbing; one-touch recording; time-revealing 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.

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Table-Top VCRs

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 X 2.6" H X 5.3" D; 2.1 lbs. Approx. $1,600

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 5X normal play speed (in SP mode) and 9X normal (in SLP mode). Audio frequency response 20-20,000 Hz; audio distortion <0.47 %; audio signal-to-noise ratio >60 dB. 17" W X 4" H X 11.5" D. $1,249

VR9558AT. Similar to VR9565AT 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 (5X normal playing speed in SP, 9X normal in SLP mode), still frame, frame advance, and slow motion. 37-function wireless remote includes 2X2 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 X 4" H X 11.5" D. $949

VR9550ATAT. 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-access 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 X 4" H X 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; auto rewind; auto pause/still release. 17" W X 4" H X 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 X 4" H X 11.5" D. $599

For explanations of abbreviations, specifications, and technical terms, turn to the vocabulary on page 38.
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 ±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

VR460HD 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 ±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

MINOLTA

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; 5-min timer backup; LCD remote programming; instant-on; one-button record in (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 ±3 dB in Hi-Fi mode, audio signal-to-noise 80 dB in Hi-Fi mode; 17.8" W × 3.7" H × 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; audio frequency response 20-20,000 Hz ±3 dB in Hi-Fi mode, audio signal-to-noise 80 dB in Hi-Fi mode; 17.8" W × 3.7" H × 13.5" D; 17.6 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 ±3 dB. Power 32 watts nominal; 17" W × 3.7" H × 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 programing, head phone jack with level control, TV/VCR switching. Horizontal resolution 240 lines; audio frequency response 20-20,000 Hz ±3dB in Hi-Fi mode, 50-10,000 Hz ±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 × 3.44" H × 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; audio 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 ±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 120VAC ±10%, 60Hz, 41 watts. 17" W × 4.12 H × 14.75" D; 19.2 lbs $1,149

N-955y 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 ±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 120VAC ±10%, 60Hz, 41 watts. 17" W × 4.12 H × 14.75" D; 19.2 lbs $1,149

TV/VCR switching. Horizontal resolution 240 lines; video signal-to-noise better than 46 dB; audio frequency response 20-20,000 Hz ±3 dB in Hi-Fi mode, audio distortion 0.3% in Hi-Fi mode; audio signal-to-noise 80 dB in Hi-Fi mode. 17" W x 4.12" H x 14.36" D; 17.6 lbs $700

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Table-Top VCRs

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<td>PV1742 Hi-Fi Videocassette Recorder</td>
<td>$449</td>
<td>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; 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&quot; W X 4&quot; H X 11.5&quot; D; 13 lbs.</td>
</tr>
<tr>
<td>PV1563 Stereo Videocassette Recorder</td>
<td>$850</td>
<td>VHS format; table-top videocassette recorder with linear stereo sound and built-in MTS/SAP. 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, 60 Hz, 29 W. 17&quot; W X 4&quot; H X 11.5&quot; D; 13 lbs.</td>
</tr>
<tr>
<td>PV1462 Hi-Fi Videocassette Recorder</td>
<td>$1,250</td>
<td>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; still frame; 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, 29 W. 17&quot; W X 4&quot; H X 11.5&quot; D; 13 lbs.</td>
</tr>
</tbody>
</table>

Philco

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Price</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>VT8770AT Videocassette Recorder</td>
<td>$450</td>
<td>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 remote control; 9-channel cable-ready tuner; auto rewind; channel lock; auto advance; still frame; auto rewind; one-touch recording with standby; HQ circuitry; omni search still/slow/2X play (SLP mode); auto on/eject; multi-function display. Power requirements 120 V AC, 60 Hz, 21 W. 17&quot; W X 4&quot; H X 11.5&quot; D; 12.3 lbs.</td>
</tr>
<tr>
<td>PV1361 Remote-Control VCR</td>
<td>$450</td>
<td>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; omni search still/slow/2X play (SLP mode); auto on/eject; multi-function display. Power requirements 120 V AC, 60 Hz, 21 W. 17&quot; W X 4&quot; H X 11.5&quot; D; 12.3 lbs.</td>
</tr>
</tbody>
</table>

Panasonic

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Price</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>PV1564 Hi-Fi Videocassette Recorder</td>
<td>$1,000</td>
<td>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; 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, 32 W. 17&quot; W X 4&quot; H X 14.75&quot; D; 15.6 lbs.</td>
</tr>
<tr>
<td>PV1563 Stereo Videocassette Recorder</td>
<td>$775</td>
<td>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, 60 Hz, 29 W. 17&quot; W X 4&quot; H X 11.5&quot; D; 13 lbs.</td>
</tr>
<tr>
<td>PV1560 Videocassette Recorder</td>
<td>$650</td>
<td>VHS format; table-top videocassette recorder. Features 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 in/out eject; multi-function display. Power requirements 120 V AC, 60 Hz, 21 W. 17&quot; W X 4&quot; H X 11.5&quot; D; 12.3 lbs.</td>
</tr>
</tbody>
</table>
### Table-Top VCRs

<table>
<thead>
<tr>
<th>Model</th>
<th>Features</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>VT875AT Videocassette Recorder</td>
<td>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 failure indicator; channel lock; transition editing. The 27-function remote control features still frame, 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.</td>
<td>17&quot; W X 4&quot; H X 11.5&quot; D</td>
<td>25.5 lbs</td>
<td>$749</td>
</tr>
<tr>
<td>VT8750AT Videocassette Recorder</td>
<td>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; timer 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.</td>
<td>17&quot; W X 4&quot; H X 11.5&quot; D</td>
<td>55 lbs</td>
<td>$599</td>
</tr>
<tr>
<td>VT8750AT Videocassette Recorder</td>
<td>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.</td>
<td>17&quot; W X 4&quot; H X 11.5&quot; D</td>
<td>22 lbs</td>
<td>$800</td>
</tr>
</tbody>
</table>

### 8-mm VCRs

<table>
<thead>
<tr>
<th>Model</th>
<th>Features</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>VE-D70 Video/Digital Audio Recorder</td>
<td>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/SP) 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 &gt;88dB; 3.75&quot; H X 14.19&quot; W X 13.5&quot; D</td>
<td>16.1 lbs</td>
<td>$1,450</td>
<td></td>
</tr>
</tbody>
</table>

### VHS VCRs

<table>
<thead>
<tr>
<th>Model</th>
<th>Features</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>VX-90 SuperBeta Hi-Fi VCR</td>
<td>SuperBeta-format table-top VCR with complete editing control. Features Beta I, II, III play/recording 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; camera 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. 17.64&quot; W X 4.12&quot; H X 14.19&quot; D</td>
<td>25.5 lbs</td>
<td>$1,500</td>
<td></td>
</tr>
<tr>
<td>VX-50 SuperBeta Hi-Fi VCR</td>
<td>SuperBeta-format table-top VCR with Hi-Fi sound. Features Beta I, II, III play/recording speeds; Beta-scan rapid-search; 7-day/6-event timer; stereo; remote control; camera ready; video dubbing; still frame; auto rewind; auto fine tuning; audio dubbing. Compatible with Foresight remote unit. Horizontal resolution 286 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&quot; W X 4.12&quot; H X 15.5&quot; D</td>
<td>22 lbs</td>
<td>$800</td>
<td></td>
</tr>
</tbody>
</table>

### PIONEER

<table>
<thead>
<tr>
<th>Model</th>
<th>Features</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>VH-600 Hi-Fi Videocassette Recorder</td>
<td>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; camera 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&quot; W X 3.88&quot; H X 14.5&quot; D</td>
<td>19.5 lbs</td>
<td>$800</td>
<td></td>
</tr>
</tbody>
</table>

### QUASAR

<table>
<thead>
<tr>
<th>Model</th>
<th>Features</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>VH5857 Hi-Fi Videocassette Recorder</td>
<td>VHS-format table-top videocassette recorder. Features SP, LP, SLP play speeds; SLP, LP, SLP record speeds; 1/4X (SP), 1/2X (SLP) slow-speeds; 2X (SP, LP), 5X (SP), 9X (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 dubbing; 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&quot; W X 4&quot; H X 14.19&quot; D</td>
<td>17.6 lbs</td>
<td>$950</td>
<td></td>
</tr>
</tbody>
</table>

### QUASAR

<table>
<thead>
<tr>
<th>Model</th>
<th>Features</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>VH5856 Hi-Fi Videocassette Recorder</td>
<td>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-synthesis tuner; 42-function wireless remote control; auto power/abort; 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&quot; W X 4&quot; H X 14.19&quot; D</td>
<td>16.1 lbs</td>
<td>$1,290</td>
<td></td>
</tr>
</tbody>
</table>

### PRICES LISTED

are only the manufacturers' suggested retail prices
(italicized prices 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.

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| VH5268 Videocassette Recorder | $730 |
| VH5168 Videocassette Recorder | $630 |
| VH5262 Videocassette Recorder | $600 |
| VH5261/S5260 Videocassette Recorder | $599 |
| RCA VHS VCRs | $599 |
| VMT630HF Videocassette Recorder | $560 |
| VMT615 Videocassette Recorder | $560 |
| VMT614/VH5163 Videocassette Recorder | $540 |
| VMT612 Videocassette Recorder | $540 |
| VMT610 Videocassette Recorder | $540 |
| VMT595 Videocassette Recorder | $540 |

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.
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<th>Table-Top VCRs</th>
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<tbody>
<tr>
<td><strong>VTM590 Videocassette Recorder</strong></td>
<td>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 (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&quot; H X 17.12&quot; W X 12.62&quot; D; 16.1 lbs. $549</td>
</tr>
<tr>
<td><strong>VTM935 Videocassette Recorder</strong></td>
<td>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&quot; H X 17.12&quot; W X 13&quot; D; 16.1 lbs. $499</td>
</tr>
<tr>
<td><strong>VTM939 Videocassette Recorder</strong></td>
<td>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); 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&quot; H X 17.12&quot; W X 12.62&quot; D; 16.1 lbs. $449</td>
</tr>
<tr>
<td><strong>VMT385 Videocassette Recorder</strong></td>
<td>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); 14-day, 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&quot; H X 17.12&quot; W X 12.62&quot; D; 16.1 lbs. $399</td>
</tr>
<tr>
<td><strong>REALISTIC</strong></td>
<td><strong>SAMSUNG</strong></td>
</tr>
<tr>
<td><strong>VHS VCRs</strong></td>
<td><strong>VHS VCRs</strong></td>
</tr>
<tr>
<td><strong>Model-11 Videocassette Recorder</strong></td>
<td>VHS-format 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; power-interrupt protection. 3.88&quot; H X 17.14&quot; W X 14.75&quot; D. $450</td>
</tr>
<tr>
<td><strong>Model-17 Videocassette Recorder</strong></td>
<td>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; power-interrupt protection. 3.88&quot; H X 17.14&quot; W X 14.75&quot; D. $500</td>
</tr>
<tr>
<td><strong>Model-31 Videocassette Recorder</strong></td>
<td>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&quot; H X 16.94&quot; W X 13.62&quot; D. $560</td>
</tr>
<tr>
<td><strong>Model-18 Videocassette Recorder</strong></td>
<td>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&quot; H X 16.94&quot; W X 13.94&quot; D. $350</td>
</tr>
<tr>
<td><strong>VR-2410 Videocassette Recorder</strong></td>
<td>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&quot; W X 4&quot; H X 14&quot; D. 18.7 lbs. $380</td>
</tr>
<tr>
<td><strong>VT311TDL Videocassette Recorder</strong></td>
<td>VHS-format table-top VCR. Features 3 play speeds, 3 record speeds; 14-day/6-event timer; remote control; one-touch recording. Horizontal resolution more than 240 lines; 17&quot; W X 4&quot; H X 14&quot; D. 19.8 lbs. $350</td>
</tr>
<tr>
<td><strong>VR2500L Videocassette Recorder</strong></td>
<td>VHS-format table-top VCR with linear stereo. Features 3 play speeds, 3 record speeds; 14-day/5-event timer; auto rewind; one-touch recording; audio and video dubbing. Horizontal resolution more than 210 lines; 17&quot; W X 4&quot; H X 15&quot; D. 18.7 lbs. $335</td>
</tr>
<tr>
<td><strong>SANSUI</strong></td>
<td><strong>VHS VCRs</strong></td>
</tr>
<tr>
<td><strong>SV-R9700HF Hi-Fi HQ MTS VCR</strong></td>
<td>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&quot; W x 4.19&quot; H x 14.94&quot; D. 19 lbs. $1,100</td>
</tr>
<tr>
<td><strong>SV-R9500 HQ Linear-Stereo VCR</strong></td>
<td>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&quot; W X 4&quot; H X 13&quot; D. $900</td>
</tr>
<tr>
<td><strong>SV-R9300HF 4-Head HQ VCR</strong></td>
<td>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</td>
</tr>
<tr>
<td><strong>SV-R5700 2-Head Remote-Control VCR</strong></td>
<td>VHS-format table-top VCR with HQ circuitry. Features SP, LP, EP play speeds, 1987 Video Buyers Guide. 71</td>
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<tr>
<td><strong>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; base-space editing; 2 heads.</strong></td>
<td><strong>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&quot; × 3.88&quot; × 14.5&quot; D; 16.25 lbs.</strong></td>
</tr>
<tr>
<td><strong>VHR1900 Hi-Fi Videocassette Recorder</strong></td>
<td><strong>$470</strong></td>
</tr>
<tr>
<td>VHS-format table-top VCR with Hi-Fi 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 modes; 16.5&quot; W × 3.88&quot; H × 14.75&quot; D; 19 lbs.</td>
<td><strong>$750</strong></td>
</tr>
<tr>
<td><strong>VHR2900 Hi-Fi Videocassette Recorder</strong></td>
<td><strong>$720</strong></td>
</tr>
<tr>
<td>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 ±3dB Hi-Fi mode; 16.5&quot; W × 3.88&quot; H × 14.75&quot; D; 19 lbs.</td>
<td><strong>$550</strong></td>
</tr>
<tr>
<td><strong>VHR1350 HQ Videocassette Recorder</strong></td>
<td><strong>$350</strong></td>
</tr>
<tr>
<td>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&quot; × 3.88&quot; × 14.5&quot; D; 15.5 lbs.</td>
<td><strong>$380</strong></td>
</tr>
<tr>
<td><strong>VCR7250 BetaHi-Fi VCR</strong></td>
<td><strong>$430</strong></td>
</tr>
<tr>
<td>Beta-format table-top VCR. Features B II, B III play/record speeds; 9x 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 ±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&quot; W × 4.19&quot; H × 13.84&quot; D; 16.5 lbs.</td>
<td><strong>$480</strong></td>
</tr>
<tr>
<td><strong>VCR7150 Beta Hi-Fi VCR</strong></td>
<td><strong>$380</strong></td>
</tr>
<tr>
<td>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; 9x rapid search speed; 14-day/8-event timer; Hi-Fi sound; remote control; remote pause; cable ready; still frame; slow motion; auto rewind; auto fine tuning; counter memory.</td>
<td><strong>$390</strong></td>
</tr>
</tbody>
</table>

**Table-Top VCRs**

**VHS 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; 9x 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. **$350**

**VCR4030 Remote-Control VCR**

Beta-format front-loading video recorder with 14-function infrared remote control. Features mono sound; play/record speeds Beta II and III; 9x 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**

**SANYO**

**VHR1600 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; memory rewind; auto power on; auto playback; horizontal resolution 240 lines; video S/N 45 dB; 16.5" × 3.88" × 14.5" D; 16.25 lbs. **$470**

**VHR2350 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**

**VHR15050 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" × 14.5" D; 15.5 lbs. **$350**

**VHR1250 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; 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. **$300**

**VHR2550 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 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**

**Table-Top 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; 9x 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. **$350**

**VCR7250 BetaSuperHi-Fi VCR**

Beta-format table-top VCR. Features B II, B III play/record speeds; 9x 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; 9x rapid search speed; 14-day/8-event timer; Hi-Fi sound; remote control; remote pause; cable ready; still frame; slow motion; auto rewind; auto fine tuning; counter memory. **$380**
### Table-Top VCRs

<table>
<thead>
<tr>
<th>Model</th>
<th>Features and Specifications</th>
<th>Price</th>
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<tbody>
<tr>
<td><strong>VC-H65U Stereo Hi-Fi VCR</strong></td>
<td>VHS-format tabletop 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; 15X 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; head jack with adjustable level; dew sensor and warning indicator; built-in RF converter; program memory backup system</td>
<td>$820</td>
</tr>
<tr>
<td><strong>VC-686U 4-Head VCR</strong></td>
<td>VHS-format tabletop 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-syncerized tuner with 16 memory presets; 14-function wireless remote control; auto power on/playback/repeat function; one-touch recording; 15X (EP mode) and 7X (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; automatic television/videocassette recorder output selector; dew sensor with warning indicator; built-in RF (radio frequency) converter; memory backup system for timer program</td>
<td>$620</td>
</tr>
<tr>
<td><strong>VC-T64U HQ VCR</strong></td>
<td>VHS-format tabletop 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 input specification</td>
<td>$550</td>
</tr>
</tbody>
</table>

**VC-687U Stereo VCR**

VHS-format tabletop 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 repeat programmable timer; 110-channel cable-ready voltage-syncerized tuner with 16 memory presets; 14-function wireless remote control; auto power on/playback/repeat function; one-touch recording; 15X (EP mode) and 7X (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; automatic television/videocassette recorder output selector; dew sensor and warning indicator | $600 |

**VC-2005 Dolby Stereo VCR**

VHS-format tabletop 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 X 4.36" H X 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 X 4" H X 11.88" D; 15 lbs. $450

**SHARP**

**VHS VCRs**

**VC-H65U Stereo Hi-Fi VCR**

VHS-format tabletop 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; 15X 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; head jack with adjustable level; dew sensor and warning indicator; built-in RF converter; program memory backup system $820

**VC-686U 4-Head VCR**

VHS-format tabletop 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-syncerized tuner with 16 memory presets; 14-function wireless remote control; auto power on/playback/repeat function; one-touch recording; 15X (EP mode) and 7X (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 tabletop 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 input specification | $550 |

**VC-2005 Dolby Stereo VCR**

VHS-format tabletop 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 X 4.36" H X 13" D; 20 lbs. $600
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 double 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; 15 × search in EP mode; still frame; high/low-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 × 4" H × 11.5" D; $1,049

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; 15 × 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. $600

VC-6846U/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; 13-function wireless remote control; auto power on/playback/repeat function; one-touch recording; 15 × 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. $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; 15 × 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

VC-6850 Stereo VCR
VHS-format table-top VCR. Features 5-head system (3 year warranty on video heads); 93-channel random-access tuner; 9-channel random-access recorder; 3-head system (3 year warranty on video heads); 93-channel random-access tuner; 9-channel random-access recorder; 5-year warranty on video heads; 93-channel random-access tuner; 9-channel random-access recorder; 8-hour recording and playback; 15 × search in EP mode; 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 × 4" H × 11.5" D; $1,049

VC-6850U Stereo VCR
VHS-format table-top VCR with HQ circuitry. Features 4-head system (3 year warranty on video heads); 93-channel random-access tuner; 9-channel random-access recorder; 3-head system (3 year warranty on video heads); 93-channel random-access tuner; 9-channel random-access recorder; 17 -function wireless remote control; 14-day/4-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 × 4" H × 11.5" D; $799

VC-6850U Stereo VCR
VHS-format table-top VCR. Features 5-head system (3 year warranty on video heads); 93-channel random-access tuner; 9-channel random-access recorder; 3-head system (3 year warranty on video heads); 93-channel random-access tuner; 9-channel random-access recorder; 8-hour recording and playback; 15 × search in EP mode; 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 × 4" H × 11.5" D; $1,200

VC6985 Stereo Videocassette Recorder
VHS-format VCR with Dolby stereo. Features 2 video heads (5-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 × 4" H × 11.5" D; $699

VC9830 Video Cassette Recorder
VHS-format VCR with 93-channel cable-ready tuner. Features 14-day/4 event programmer; 2 video heads; 5-min back-up 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 × 4" H × 11.5" D; $599

VC9830 Video Cassette Recorder
VHS-format VCR with 93-channel cable-ready tuner. Features 14-day/4 event programmer; 2 video heads; 5-min back-up 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 × 4" H × 11.5" D; $599

VC9830 Video Cassette Recorder
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VC9830 Video Cassette Recorder
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VC9830 Video Cassette Recorder
VHS-format VCR with 93-channel cable-ready tuner. Features 14-day/4 event programmer; 2 video heads; 5-min back-up 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 × 4" H × 11.5" D; $699
### Table-Top VCRs

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<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>VR3223 Hi Fi Video Cassette Recorder</td>
<td>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; 17-channel quartz timing with direct-access and up/down scan; noiseless remote control with 10-TV/19-VCR operating guide.</td>
<td>$899</td>
</tr>
<tr>
<td>VRV2200 Hi-Fi Videocassette Recorder</td>
<td>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; 108-channel quartz timing with direct-access and up/down scan; pause/still frame; SP, LP, SLP record speed; VHS HQ circuitry with comb filter; 4 video, 2 audio heads; 17-channel quartz timing with direct-access and up/down scan; noiseless remote control with 10-TV/19-VCR operating guide.</td>
<td>$849</td>
</tr>
<tr>
<td>VRV3300 Hi Fi Video Cassette Recorder</td>
<td>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; 108-channel quartz timing with direct-access and up/down scan; pause/still frame; SP, LP, SLP record speed; VHS HQ circuitry with comb filter; 4 video, 2 audio heads; 17-channel quartz timing with direct-access and up/down scan; noiseless remote control with 10-TV/19-VCR operating guide.</td>
<td>$699</td>
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<tr>
<td>VR4100 Hi Fi Video Cassette Recorder</td>
<td>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; remote control; preset tape segments: instant record and up/down scan; noiseless remote control with 10-TV/19-VCR operating guide.</td>
<td>$699</td>
</tr>
<tr>
<td>VR2200 Hi-Fi Videocassette Recorder</td>
<td>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; 17-channel quartz timing with direct-access and up/down scan; noiseless remote control with 10-TV/19-VCR operating guide.</td>
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<td>VRV3300 Hi Fi Video Cassette Recorder</td>
<td>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; 108-channel quartz timing with direct-access and up/down scan; pause/still frame; SP, LP, SLP record speed; VHS HQ circuitry with comb filter; 4 video, 2 audio heads; 17-channel quartz timing with direct-access and up/down scan; noiseless remote control with 10-TV/19-VCR operating guide.</td>
<td>$699</td>
</tr>
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</table>
PORTABLE VCRs

GE

1CVPS208X 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 $650

1CVPS24X 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
1CVAS50. CATV adapter ........... $130
1CVAS10. 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 x 4.5" H x 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, 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 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 battery pack included. Charge lasts for 2 hours (without camera). 8.44" H x 3.06" W x 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 120 V/AC 60 Hz. 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 non glare 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 x 6" H x 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 x 4.33" H x 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; 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 x 2.75" H x 10.36" D; 7 lbs ........................................ $930

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3 VIDEO CAMERAS

GE

1CV6036E 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; f/1.2 lens; instant-replay through electronic viewfinder; 20 lux low-light sensitivity; auto iris/white balance; automatic date and time display; manual focusing; one-touch auto focusing for special effects; diopter lens adjustment. One-inch black-and-white CRT viewfinder features on-screen indicators; filter; control of VCR; interval timer recording; macro; super improvements; focus lock; 6X power zoom; f/1.4 lens; 2-speed zoom; in/outdoor filter; 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

OLYMPUS

PK-452 Color Video Camera
Portable video camera. Features backlight switch; macro function; in/outdoor filter; 6X 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 380 lines. $1,350

Video Camera Accessories

20H-Z10 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-A79S 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; f/1.4 lens; 2-speed zoom; in/outdoor filter; timer fade in/out; focus in/out; 8X power zoom; stereo mike; electronic viewfinder; character generator; time display; remote control of VCR; compatible with VHS video cassette recorders. 0.5-inch black/white video left/right side conversion type viewfinder with status check monitor. Negative/positive color reverse function; filter features scroll; 7 title colors; white/black fade; title reverse; external title insert. Minimum light 7 lux; horizontal resolution 300 lines; audio frequency response 100,000 Hz; video signal-to-noise ratio greater than 45 dB; f/1.4; 5" newvicon tube. 8.66" W X 7.56" H X 16.12" D; 5 lbs, 8 oz. $1,000

PK716 Auto-Focus Video Camera
Features mono microphone; color; auto focus; auto iris; auto white balance; power zoom lens (7-42 mm); backlight switch; 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 7 lux; horizontal resolution 300 lines; video signal-to-noise ratio greater than 45 dB; f/1.4; f/1.6 lens; 10 lux; horizontal resolution 380 lines. $1,350

CLUSION (Continued on page 91)
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; power 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 ± 3dB; video signal-to-noise ratio 44.8 dB. Battery included; length of battery charge 1 hour. 4.63" W X 7.19" H X 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 (8.5-58 mm focal length); auto focus with manual override; auto iris; 1.2 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 X 4.5" W X 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 X 7.48" H X 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; 8.1 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 X 6.5" H X 8.61" L; 2.9 lbs with viewfinder... $1,495

KODAK

MVS-3460 8-mm Camcorder
8-mm modular camcorder that docks to miniature 8-mm recorders. 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 X 6" H X 12" L; 4.6 lbs... $1,799

MVS-3460. 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 1/1.5 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; 6X 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 video cassette. 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 X 184 D X 187 H... $1,699
### Camcorders

**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, depth of field, 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/outdoor door lighting selection; tally light; 45-minute battery use/charge; microphone; earphone; macro focus (as close as 11 mm). Unit pack contains camcorder, battery, strap, earphone, video cassette, lens cap, lens hood. Low-light capability 20 lux; video input impedance 75 ohms (-20 dB); video output signal 75 ohms (1 volt p-p); output impedance -75 ohms (1 volt p-p); audio input impedance -75 ohms (1 volt p-p); audio output level 28 dB at 8 ohms; audio signal level 8 dB (0 volts); power line 8 volts DC; power consumption operating 8 watts; standby 2 watts. Weight 4.9 lbs without battery; shipping weight 7.12 lbs.

**300**

#### 2020 Cradle Unit
- Used with 2200 or 2400 camcorder to allow recorded tapes to be viewed on TV screen. Cradle serves as AC adapter 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 adapter. Video input signal 75 ohms (1 volt p-p); audio input signal 50 ohms (-20 dB); video output signal 75 ohms (1 volt p-p).

**239**

#### 2022 Tuner/Timer
- Used with camcorder 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 preset/14-day timer; one-touch recording; light 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, 3ozs.

**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; f/1.2 lens with macro focus, auto dusting; 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; lines; battery included; length of charge of battery 3 hours; power requirements 9.5 watts nominal, DC 12V; audio frequency response 100-10,000 Hz ±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-ABU 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 mic; 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 ±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, f/1.2) with auto focus, auto iris, and macro lens. Features auto white balance; fade; flying erase head (insert edit); and LCD tape counter with memory. Video line more than 230 lines; minimum light 7 lux; battery included; length of charge of battery 1 hr. 48.8" W X 5.36" H X 10.12" L; 2 lbs 9 ozs.

**1,850**

#### VF-BA61. AC adapter/battery charger for VX-801. Includes RF converter, A/V input/output.

**299**

#### VF-CS21. Carrying case with storage for Movie 8 and accessories.

**399**

#### VF-KC9.1 Extension cable for VX-801.756

**249**

#### NEC
- **V-20V VHS Camcorder**
  - VHS-format camcorder with CCD optical-pick-up tube and VHS HQ recording circuitry. Features power zoom lens (8.5-51 mm); auto focus; auto iris; macro lens; built-in dioptr; auto white balance; B/W 0.67" electronic viewfinder; on-screen display of battery level, tape counter, low battery, and tape-end; manual iris setting (+, -); C.G. display. Horizontal resolution 300 lines; audio frequency response 20-12,500 Hz ±3 dB; 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
- **VRB293 Camcorder**
  - Same as VRB293 with Newvicon pick-up.

**1,849**

#### 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, f/2; iris; macro lens; mono mic; dioptr 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 ±3 dB. 6.4" W X 7.5" H X 14.1" L; 5 lbs, 8.19 ozs 2,085.

**202**

#### VRB292. Same as VRB293 with standard AC adapter and no wired pause control.

**1,799**

#### MINOLTA
- **VRB294. Same as VRB294 with Newvicon pick-up.

**1,999**

#### Y2K
- **CR3000S-AF VHS-C Camcorder**
  - Features fully auto focus, auto iris, and macro lens. Features auto white balance; auto focus; auto iris; macro lens; built-in dioptr; auto white balance; Hi-Fi sound; electronic viewfinder; 9-54 mm power zoom lens (f9-54 mm); auto focus, f/1.2 with auto focus, auto iris, and 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 ±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-403 Camcorder**
  - VHS-format camcorder with HQ video circuitry and audio dub review. Camera section: 8X power zoom lens (6.5-68 mm, f/1.2) 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 mic. Electronic viewfinder is 0.66" B/W with left or right eye viewing, vertical swivel, and dioptr correction. Optional 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.

**299**


**249**

#### NEC
- **VF-BA61. AC adapter/battery charger for VX-403. Includes RF converter, A/V input/output.

**299**

#### VF-CS21. Carrying case with storage for Movie 8 and accessories.

**399**

#### VF-KC9.1 Extension cable for VX-801.756

**249**
VF-CS9. VHS movie case for storage of VX-403 and accessories $107

VF-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; dioptric 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/adapter, shoulder strap included. Length of battery charge 2 hours. 6.12" W X 7.56" H X 12.81" D; 5 lbs, 11 oz (without battery) $2,000

VF-CS6. VHS movie case for storage of camcorder and accessories $107.50
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; automatic focus; 9-54 mm macro power zoom lens; f/1.2; 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 X 8.5" H X 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; 5-54 mm macro power zoom lens; f/1.2; 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 X 8.5" H X 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.

PV222M. Character generator $220.00
PV222M. AC power supply/RF switcher/charger $190.00
PVIH22M. Carrying case $150.00
PVIH18M. 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; f/1.2 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 X 8.75" H X 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" X 8.69" X 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; f/1.2, 8:1 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 X 7.36" W X 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; f/1.2, 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 x 6.44" W x 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 x 3.12" H x 1" D $249.95

KKO42 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 x 15.5" H x 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 CCO020 $134.95

VAA002 Camcorder Video/Audio Adapter
Allows camcorder to record video and audio from an external source such as a VCR, television, 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 0.8. 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, polarization, and highlighter filters. Features 5-face mirage, 3-face mirror, 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 angle and light 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 x 7.25" H x 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; 6X power zoom lens; macro focus; Newvicon pickup tube; 3X 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/adaptor for VC-C10UAH $19.95
VR-10M. Pause remote control for VC-C10UAH $12.95

VC-C20UJA 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 0.5X electronic viewfinder; f1.2, 6X 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 convertor. 5.06" W x 7.62" H x 14.62" D; 5.5 lbs without battery $1,300

SYLVANIA

VCC151 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, stopwatch, battery, AC adapter, battery pack; timer back-up battery; shoulder strap; earphone; battery charging cord; A/V cord $1,799

ZENITH

VM6200 Auto-Focus Camcorder
VHS-C format camcorder with HQ circuitry. Features f1.6, 6:1 auto-focus 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 x 6.58" H x 8.81" D; 2.9 lbs excluding battery pack and cassette $1,200

1987 VIDEO BUYERS' GUIDE
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 35.52" 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; 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 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. $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. $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. $799

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; Channel Block Out selective viewing control; high-definition comb filter; last channel viewed; up-front audio and video controls; 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

GOLDSTAR

CM-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/ohm. 25" W x 23.3" H x 20.4" D; 88 lbs. $799

CM-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-synthesizer tuned; 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 x 16.9" H x 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; flash-back between two channels; flat black-matrix picture tube. Receives 12 VHF, 56 UHF, 122 CATV channels; 2.5" and two 3" x 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, THD 1%. 26.75" W x 18" H x 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; flash-back between two channels; black-matrix picture tube. Receives 12 VHF, 56 UHF, 122 CATV channels; 2.5" and two 3" x 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 x 18" H x 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 x 24.66" H x 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 x 18.75" H x 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; 18-channel random-access frequency-synthesizer 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 x 29" H x 21.25" D; $1,599.

RG7290. Same as RG7500 except with compact contemporary cabinet available in ten colors. 29" W x 35" H x 19.75" D; $1,599.

RG7266PE. Same as RG7500 except has traditional-style cabinet with pecan veneer finish. 49.5" W x 31.25" H x 21.25" D; $1,599.

RG7240AK. Same as RG7500 except has contemporary cabinet finished in oak veneers and solids. 42.5" W x 30.75" H x 19.75" D; $1,599.

RG6160AK Stereo Monitor/Receiver
26" stereo console TV with full-square picture 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/SAP switch; expanded mono/stereo. Horizontal resolution 330 lines. Pine finish cabinet. 50" W x 29" H x 21" D. $959. RG5950AK. Same as RG5954 with oak-finish contemporary cabinet. 41" W x 28.25" H x 19.75" D. $959. RG5956PE. Same as RG5954 with pecan-finish Mediterranean-style cabinet. 43" W x 29" H x 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 scan-tuning, mute; auto tuning; sleep timer; mono/stereo/SAP switch; expanded mono/stereo. Horizontal resolution 400 lines with video inputs. 25" W x 23.25" H x 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: a 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 x 18.75" H x 18.5" D. $799.

RF4378B. Similar to RF4378SL with 33-function remote control and slightly different rear panel connections. 19.25" W x 18.75" H x 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;
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 X 18" H X 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 X 24.62" H X 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 X 38.36" W X 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 X 41.66" H X 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 X 41.81" H X 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 X 41.81" H X 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 X 34.06" H X 21.04" D ........................................ $1,400

CK-2690R. Same as 2691 except has contemporary oak veneer cabinet. 40.19" W X 31.12" H X 19.19" D ........................................ $1,200

CK-2689R. Same as 2691 except has cherry veneer 18th century traditional style console. 43" W X 34.56" H X 21.04" D ........................................ $1,400

CK-2682R. Same as 2691 except has contemporary vertical-style oak veneer cabinet. 27.31" W X 37.25" H X 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 ready random-access tuner; programmable channel scan; RGB input; wireless remote control 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 X 22.75" H X 19.44" D; 107 lbs ........................................ $950

CK-2560S Stereo Television
25-inch console television with built-in MTS decoder. Features 139-channel cable-ready random-access tuner; programmable channel scan; wireless remote control; automatic fine tuning; last station recall. Oak-veneer cabinet. 32.80" W X 30.75" H X 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 control; automatic fine tuning; last station recall. Oak-veneer cabinet. 32.80" W X 30.75" H X 21.12" D; 128 lbs ........................................ $820

CS-2651R 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 ready random-access tuner; programmable channel scan; RGB input; wireless remote control 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 X 22.75" H X 19.44" D; 107 lbs ........................................ $950

CK-2560S Digital Television
25-inch console television with built-in MTS decoder. Features 139-channel cable-ready random-access tuner; programmable channel scan; wireless remote control; automatic fine tuning; last station recall. Oak-veneer cabinet. 32.80" W X 30.75" H X 21.12" D; 128 lbs ........................................ $820

CS-2201R Stereo Television
20-inch remote-control TV with built-in MTS decoder. Features 139-channel cable-ready tuner; programmable scan tuning; mute; automatic 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 X 18" H X 19.25" D ............................... $699

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 switch 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 VHF 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" W X 24.25" H X 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 parallel 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 VHF 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 X 19.25" H X 19" D; 75 lbs ........................................ $798

NEC

DT-2680 Digital Receiver/Monitor
26-inch flat-screen monitor/receiver with digital video. Video can be processed for picture-in-picture and 3 still pictures in memory. Also features monitor/mounting functions 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. Features 142-channel cable-ready tuner with presets; full-function wireless remote control; on-screen display of channel number and tuning information; programmable scan; sleep timer for auto shutoff; video and audio 2-type auto preset control function; auto white-balance control.

Horizontal resolution greater than 30 lines; receives VHF, UHF, 60 CATV channels; 25.97" W X 19.4" H X 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; external speakers; bass, treble, and balance controls; 57.8 lbs

**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%); headphone/earphone outputs; bass, treble, and balance controls; 25.88" W X 22.81" H X 20.88" W; 105.8 lbs $1,300

**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 X 19.36" H X 19.09" D; 57.8 lbs $900

**CT-2510 Stereo Receiver/Monitor**
25-inch receiver/monitor with MTS/SAP. Features 142-channel cable-compatible tuner; comb filter; LED channel indicator; sleep-timer; internal speakers: 3-W/ch x 2 (THD 1%); 2RF inputs; 1 RF output; 1 monitor output, 1 TV output, 2 video inputs (with stereo audio); bass, treble, balance controls; remote-control. Receives VHF, UHF, and 60 CATV channels; horizontal resolution 340 lines; 20.19" W X 23.25" H X 19.6" D $900

**CT-2660 Stereo Receiver/Monitor**
26-inch receiver/monitor with flat-screen screen and built-in MTS/SAP. Features 142-channel cable-ready tuner; stereo speakers; comb filter; on-screen channel/time display; programmable scan; sleep timer. Receives VHF, UHF, 60 CATV channels; horizontal resolution 340/380 lines; receives VHF, UHF, 60 CATV channels; frequency response 15-15,000 Hz ± 3; THD >1%; 30.75" W X 23.23" H X 21.90" D $1,900

**CTH-2690R Stereo Receiver/Monitor**
26" color receiver/monitor with built-in stereo amplifier and square-corner 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 X 25 lines; 3 sets audio/video inputs; program out and variable audio output; dual VHF antenna; programmable on/off timer; external speaker terminals; parental guidance control; bass, treble, and balance controls; video inputs (with stereo audio); headphone and earphone jacks; 2-way 4-speaker sound system; programmable scan; on-screen display; parental guidance control; 12 VHF, 56 UHF, 155 CATV channels; frequency response 80-10,000 Hz ± 3; THD 2%. Modern design with rosewood cabinet. 38.06" W X 29.38" H X 19.62" D; 128 lbs $1,300
Stereo TV

12 VHF, 56 UHF, 99 CATV channels; horizontal resolution 400 lines; 2 W/ch; FR 100-10,000 Hz ± 3 dB; THD 2%. Modern style oak veneer cabinet. 36.75" W × 29.62" H × 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 of audio/video input jacks; program out, TV out, and variable audio output jacks; comb and SAW filters; speaker output terminals; stereo 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; 4 W/ch; FR 100-10,000 Hz ± 3 dB; THD 2%. Modern-style oak veneer cabinet. 24.5" W × 30" H × 26" D; 117 lbs...

$1,200

CTH-2680R Stereo Receiver/Monitor
26" table-top color receiver/monitor with built-in stereo amp and 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 control; bass/treble/balance;listener control; sleep timer; mute button; auto light sensor which adjusts picture brightness for room light; audio input/output jacks; pcan-grain cabinet. Receives UHF, VHF and CATV channels. Horizontal resolution 380 lines; 2 W/ch; 26.5" W × 19.5" H × 19.8" D; 69 lbs...

$899

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 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; rapid tune. Receives 12 VHF, 56 UHF, 99 CATV channels; horizontal resolution 400 lines; 2 W/ch; FR 100-10,000 Hz ± 3 dB; THD 2%. Modern-style oak veneer cabinet. 25.56" W × 22.44" H × 19.32" D; 92 lbs...

$950

CTG-2067R Stereo Receiver/Monitor
20" color receiver/monitor with built-in stereo amp and 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 control; 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 × 19.5" H × 19.8" D; 69 lbs...

$1,100

Stereo TV

12 VHF, 56 UHF, 99 CATV channels; horizontal resolution 400 lines; 2 W/ch; FR 100-10,000 Hz ± 3 dB; THD 2%. Modern style oak-veneer cabinet. 36.75" W × 29.62" H × 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 of audio/video input jacks; program out, TV out, and variable audio output jacks; comb and SAW filters; speaker output terminals; stereo 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; 4 W/ch; FR 100-10,000 Hz ± 3 dB; THD 2%. Modern-style oak veneer cabinet. 24.5" W × 30" H × 26" D; 117 lbs...

$1,200

CTH-2680R Stereo Receiver/Monitor
26" table-top color receiver/monitor with built-in stereo amp and 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 control; bass/treble/balance;listener control; sleep timer; mute button; auto light sensor which adjusts picture brightness for room light; audio input/output jacks; pcan-grain cabinet. Receives UHF, VHF and CATV channels. Horizontal resolution 380 lines; 2 W/ch; 26.5" W × 19.5" H × 19.8" D; 69 lbs...

$899

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 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; rapid tune. Receives 12 VHF, 56 UHF, 99 CATV channels; horizontal resolution 400 lines; 2 W/ch; FR 100-10,000 Hz ± 3 dB; THD 2%. Modern-style oak veneer cabinet. 25.56" W × 22.44" H × 19.32" D; 92 lbs...

$950

CTG-2067R Stereo Receiver/Monitor
20" color receiver/monitor with built-in stereo amp and 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 control; 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 × 19.5" H × 19.8" D; 69 lbs...

$1,100

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; 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 × 29.25" H × 18.75" D...

$959

R6980AKA. Similar to R6982APE with grained-oak finish. 41" W × 28.25" H × 19.75" D...

$959

R3971AWA. Similar to R6982APE with variable audio output jacks; 4 -speaker sound system; programmable scan; rapid tune; sleep timer; 33-button 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; 2 W/ch; FR 100-10,000 Hz ± 3 dB; THD 2%. Modern-style oak veneer cabinet. 24.5" W × 29.62" H × 19.5" D; 132 lbs...

$1,099

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 amplifier...

$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 20-20,000 Hz ± 3dB. 27.36" W × 24" H × 18.88" D; 110 lbs...

$1,299

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 × 22.06" H × 19.56" D. Includes Pioneer SD-X7 tuner pack. Tuner pack features 139 channel channel capability; MTS-stereo decoder; two RF inputs for full use of cable and premium channels...

$1,100
620 Stereo Receiver/Monitor
Receiver/monitor with built-in MTS ( stereo/SAP decoder. 20" flat-square picture 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 speaker connections and infrared remote control. Receives VHF, UHF, and CATV. Audio amplifier section: 3-W/ch, frequency response 20-30,000 Hz ± 3 dB. 21.19" W × 19.19" H × 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 controls; variable and fixed level; 5W/square inch speaker. Audio power amplifier: frequency response 20-30,000 Hz ± 3 dB; tone control ±10 dB treble; ±10 dB bass. 21.25" W × 19.75" H × 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 output; 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 × 25.75" H × 23.19" D: 114.44 lbs $1,900

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; one video through-out; two 5" × 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 × 29.25" H × 17.88" D: 129 lbs. $1,000

TT6298YW TV 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; 25.5" W × 19.5" H × 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" × 6" speakers; 2 W/ch amplifier; balance control. Contemporary style console cabinet; 30.36" H × 41.25" W × 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, one video input; one audio left+right output; two 4" × 6" speakers; remote RF, video switching. Video section: receives 12 VHF, 56 UHF, 87 CATV channels. Black cabinet 25.5" W × 18.75" H × 25.36" 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; channel recall; two 4" × 6" speakers; 2 W/ch amplifier; bass, treble and balance controls; L/R program variable output; simulated walnut cabinet. $793

WL4322AK Stereo Television
25-inch color stereo television. Set decodes multichannel TV stereo signal with no change required. Features two 4" × 6" speakers. Video section: receives 12 VHF, 56 UHF channels; 47.75" W × 28.5" H × 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. 19.9" H × 20.88" W × 19.5" D. $540

RCA
ColorTrak 2000 Series
GMR2700 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 (dynamic noise reduction); bass and treble controls; loudness-compensated volume circuitry; 50-15,000 Hz, with less than 1.0% THD into 4 ohms. Contempory-style beige and almond lacquer cabinet with concealed casters. 29.75" H × 48" W × 19.88" D. $1,188

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 crystal 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; one external speaker, and headphone outputs. 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 × 27.88" W × 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; 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; 110" CCTV 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. 23.82" H x 26.25" W x 20" D. $799

**ColorTrack 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 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 (GMR722ER) or black lacquer (GMR722TR) finish. 23.82" H x 26.25" W x 20" D. $999

**FMRF70R 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 (FMRF700ER) or black lacquer (FMRF700TR) finish. 18.25" H x 24.62" W x 16.12" D. $589

**FMRF560R**
Same as FMRF70R except has 3.5" speakers in compact contemporary cabinet. 19.36" H x 20" W x 15.88" D. $589

**FMRF555R**
Same as FMRF70R 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 18.38" D. $500

**Sanyo**

**AVM275 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 tuning system. Receives 12 audio inputs + 1 set AV outputs; on-screen display. Audio power amp: frequency response 20-20,000 Hz; THD 1.5%. 41.75" W x 28.75" H x 20" D; 170 lbs. $1,000

**Avm 275 Stereo Television**
25-inch color high-resolution monitor/receiver with built-in stereo decoder. Features MTS/dbx stereo decoder; 2 sets AV inputs; 1 set AV outputs; on-screen display for fine tuning, color, tint

**Sanyo**

**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. Receives VHF, UHF, and CATV channels. 26.18" W x 23.81" H x 21.56" D; 86 lbs. $1,000
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, 70 UHF, 58 CATV channels; horizontal resolution 500 lines. Audio amplifier section: 3.5 watts per channel. 26.25" W X 24" H X 19.82" 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; 140-channel cable-ready PLL; 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 55-15,000 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 channel display; built-in timer. Audio power amp: FR 50-20,000 Hz ±3 dB. Input sensitivity 200 mV. 25.75" W X 18.25" H X 20" D; 46 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 55-16kHz ±3 dB; THD 1%; 25.50" W X 18.25" H X 20.50" D; 64 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 ±3 dB; THD 1%; 26.36" W X 19.75" H X 20.50" D; 61 lbs. $550

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 22.5" 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 speakers 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; two antenna inputs; external speaker jacks; AFT; ACS; one-button picture-control board; 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-control board; rapid-on picture and sound; simulated woodgrain console cabinet with easy-roll casters. Includes 75-/300-ohm antenna adapter $1,350

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quartz-synthesized electronic tuning; 23-key random-access remote control; channel flashlight; 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; face acoustic wave (SAW) filter; removable tinted front glass; 140-channel cable-ready PLL quartz-synthesized electronic tuning; 20-key random-access remote control; 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 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; selectable audio input (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" square-cornered Linytron Plus picture tube; 110-channel cable-ready PLL quartz-synthesized electronic tuning; 20-key random-access remote control; channel indicator; 2-way/2-speaker sound system; audio tone and balance controls; external speaker jacks; 2-way antenna inputs; CATV jack; detachable VHF dipole and UHF bow-tie antenna; 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; parental control; personal preference programming; programmable station scan; hide-away instrumenta- tion drawer; 4-W/ch amplifier; 1 video input/output with stereo audio; 3 RF inputs; 400/330 line resolution (composite/tuner). Contemporary-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; programmable station scan; 4-W/ch amplifier; 330-line resolution. Traditional-style pecan-veneer cabinet with concealed casters. 46" W x 30.5" H x 18.5" D $1,094

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; on-screen captioning; parental control; personal preference programming; programmable station scan; 4-W/ch amplifier; 330-line resolution. Traditional-style pecan-veneer cabinet with concealed casters. 46" W x 30.5" H x 18.5" D $1,094

RNF482. Same as RNF486 except has compact contemporary oak-veneer cabinet with swivel base. 40" W x 28.5" H x 16.6" D $1,094

RNF480. Same as RNF486 except has contemporary-style oak-veneer cabinet on swivel base. 40.25" W x 28.5" H x 17" D $1,094

RNF351 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; programmable station scan; 4-W/ch amplifier; 330-line resolution. Contemporary oak-veneer finish cabinet. 34.5" W x 29" H x 17.5" D $999

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; 152-channel frequency-synthesis tuning; last channel recall; on-screen time/channel display; on-screen captioning; parental control; programmable station scan; 4-W/ch amplifier; 1 video input/output with stereo audio; switchable RF inputs; 400/330 line resolution (composite/tuner). Contemporary-style oak-veneer cabinet with concealed casters. 44.5" W x 28" H x 18" D $1,220

RKF196. Same as RKF198 except has 26" console television with built-in stereo amplifier. Features separate right/left audio inputs; 133-channel cable-ready capability; oak cabinet with black full-square tube $1,300

26 CFG 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 $1,220

TATUNG

26 CFD Stereo Television
26-inch stereo TV with built-in stereo 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 $1,000

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 capability; comb filter; 26-inch stereo television with built-in stereo amplifier $1,000
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

VSC700 Color Video Camera
Same as VSC800 but without 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 X 5.5" H X 7.5" D ... $1,000
VSC800 Color Video Camera
Solid-state color video camera with 6:1 to-noise ratio greater than 45 dB; electronic viewfinder with flip-back feature; parental-control provision; 5-watt amplifier; two 6.5" round tweeters; separate bass, treble, and balance controls; auxiliary jack panel included. 30" high X 39.25" wide X 22.12" deep approx ...........$1,300

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 sensor; 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 controls; bass, treble, balance controls; extended stereo enhancement. Available in table-top cube-style cabinet with slide-out color finish. 24.75" H X 26.75" W X 20" D ....... $1,400
SC2793P. Same as SC2793 with pecan-veneer finish cabinet ............... $1,400
SC2793Y. Same as SC2793 except has black-lacquer oriental-style console cabinet with swivel base; 32.75" H X 29" W X 20.75" D approx .... $1,700
SC2791. Same as SC2793 without Bose audio design. Features two 6.5" oval speakers. Available in slate or pecan finish ...........$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-controlled 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 tweeters; separate bass, treble, and balance controls; auxiliary jack panel included. Approx ... $1,050

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 X 5.5" H X 7.5" D ... $1,000
VSC700. Same as VSC800 but without auto focus .................. $700

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.
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 x 18.12" H x 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 x 18.12" H x 19" D; 50 lbs $400

NEC

CT-1420 Receiver/Monitor
14-inch receiver/monitor with flat-square tube. Features 42-channel cable-ready quartz tube; comb filter; non-glare screen; 18-function wireless remote-control; sleep-timer, LED channel indicator. Receives VHF, UHF, and 60 CATV channels. Horizontal resolution 340 lines; 1 audio/video input/output. 14.75" W x 14.75" H x 15.34" D; 26.49 lbs $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-synthesizer tuning; 44-button unified remote for TV, teletext, and VCR; programmable scan; rapid tune; sleep timer; SAW and CATV tuning; 44-function detachable remote; programmable scan; sleep timer; on-screen display. Receives 12 VHF, 56 UHF, 99 CATV channels. Horizontal resolution 400 lines. Stereo adaptable with decoder. 19.81" W x 18.94" H x 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 x 34.36" H x 20.69" D; 130 lbs $1,000

CTG-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 x 22.44" H x 19.35" 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 x 23.12" H x 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 x 19.25" H x 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 x 6.12" H x 11" D; 5.5 lbs $500

CT-516S. Same as above with silver finish $500

Optional designer stand for CT-515B/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 x 14.18" H x 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; sleep timer; 2 speakers. Receives 12 VHF, 56 UHF, 99 CATV channels. Stereo adaptable with TUG-3010S decoder. 19.25" W x 19.88" H x 18.88" D; 52 lbs $480

Accessories
TUG-310S. MTS/SAP stereo decoder for Panasonic stereo-adaptable receiver/monitors $179
QUASAR
TU9840YK Receiver/Monitor
26-inch color receiver/monitor with sleep timer, channel censor, and channel monitor. Features AC/DC operation; audio/video input/output; two-way antenna inputs; CATV jack; 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. $900

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 X 8" W X 8.12" D; 8.25 lbs. $430

TT9804AU Receiver/Monitor
25-inch color receiver/monitor with full-screen tinted screen, 155-channel tuning, sleep timer, and channel check. Features programmable channel scan; on-screen channel/time display. Includes remote control; 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. $720

TT6278YW Receiver/Monitor
16-inch color receiver/monitor with full-screen tinted screen, 155-channel tuning, sleep timer, and channel check. Features comb filter; LED channel indicator; channel flashback; two-way antenna inputs; CATV jack. Features audio/video input/output jacks; audio/video input/output; light sensor; on-screen channel/time display includes 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. $800

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, and remaining time on sleep timer; programmable channel scan; audio/video input/output jacks. 14.75" H X 14.81" W X 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 X 9.31" W X 11.75" D; 11.62 lbs. $430

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 19-key random-access infrared remote control; LED channel indicator; channel flashlight; 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

SHARP
26LC276 Monitor/Receiver
26-inch remote control console monitor/receiver. Features 26" square-cornered, high-contrast, Linytron picture tube; AC/DC adapter jack; audio/video input jacks; quartz-synthesized 110-channel cable-ready tuner; 19-key random-access infrared remote control; LED channel indicator; channel flashlight; 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

3S36 Monitor/Receiver
3.5" AC/DC portable monitor/ receiver. Features 3.5" square fine-pitch Linytron picture tube with tinted front screen; continous electronic tuning; on-screen bar channel display; audio/video input/output jacks; mini headphone jack; available in black, red or silver cabinet. Includes 75/300 ohm antenna adapter. $460

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.
### Receiver/Monitors

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<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td><strong>TC-2010S</strong> Monitor/Receiver</td>
<td>19-inch cable-ready receiver/monitor with slotted-mak black-matrix tube. Features audio/video input; quick-start in-line gun; MTS jack; wireless remote. Receives VHF, UHF, 57 CATV channels; 20 W X 19 H X 20 D; 56 lbs.</td>
<td><strong>$450</strong></td>
</tr>
<tr>
<td><strong>AVM 258</strong> Receiver/Monitor</td>
<td>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 video input; 1 video output.</td>
<td><strong>$260</strong></td>
</tr>
<tr>
<td><strong>P600M</strong> Color Monitor</td>
<td>Color monitor with 19-inch screen. Horizontal resolution 370 lines; video bandwidth: &gt;4.7 MHz; 3% overscan; 380 lines; 20.25 W X 19.06 H X 19 D; 6 brains.</td>
<td><strong>$599</strong></td>
</tr>
<tr>
<td><strong>26LV96</strong> Video Monitor</td>
<td>26&quot; color monitor with 375-line horizontal resolution; high definition TV/Hi-Fi system. Monitor features 26&quot; flat-square, fine-pitch, Lyntron 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; volume control; channel 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 channel-ready tuner; 38-key TV/VCR random access remote control; channel feedback; sleep timer; bass, treble, balance control; external speaker jacks; 3 audio/video inputs and dual outputs; audio line input jack; headphone jack.</td>
<td><strong>$2,300</strong></td>
</tr>
<tr>
<td><strong>2700M</strong> Monitor</td>
<td>27&quot; color monitor with 375-line horizontal resolution. 26.22&quot; W X 23.36&quot; H X 20&quot; D; 101.2 lbs.</td>
<td><strong>$1,099</strong></td>
</tr>
<tr>
<td><strong>2800M</strong> Monitor</td>
<td>20&quot; color monitor with 375-line horizontal resolution. 20.25&quot; W X 19.06&quot; H X 19&quot; D; 53.5 lbs.</td>
<td><strong>$599</strong></td>
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### COLOR MONITORS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td><strong>HARMAN KARDON</strong> VM-100—Featured on Cover</td>
<td>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&quot; W X 22.06&quot; H X 19 D; 94.4 lbs.</td>
<td><strong>$799</strong></td>
</tr>
<tr>
<td><strong>PIONEER</strong> SD-25A Video Monitor</td>
<td>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&quot; W X 22.06&quot; H X 19.56 D. Includes Pioneer SD-X7 tuner pack. Tuner pack features 139 channel cable-capability; MTS-stereo decoder; two RF inputs.</td>
<td><strong>$1,300</strong></td>
</tr>
<tr>
<td><strong>PROTON</strong> P602M Color Monitor</td>
<td>Color monitor with 25&quot; screen; horizontal resolution 380 lines; video bandwidth &gt;4.7 MHz; 3% overcan; geometric distortion 0.7%. Features 1 audio input; 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 10-12,000 Hz 3 dB. 26&quot; W X 23&quot; H X 20.5&quot; D.</td>
<td><strong>$859</strong></td>
</tr>
<tr>
<td><strong>SHARP</strong> 26LV96 Video Monitor</td>
<td>26&quot; color monitor included in System 96 A/V system. Monitor features 26&quot; flat-square, fine-pitch, Lyntron 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; volume control; channel 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 channel-ready tuner; 38-key TV/VCR random access remote control; channel feedback; sleep timer; bass, treble, balance control; external speaker jacks; 3 audio/video inputs and dual outputs; audio line input jack; headphone jack.</td>
<td><strong>$2,300</strong></td>
</tr>
</tbody>
</table>
VIDEOTUNERS

MULTIVISION

3.1 Tuner
Converts any TV to a digital, MTS stereo set. Features picture-in-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

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, Lynltron 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

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

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, Lynltron 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

VIDEODISC PLAYERS

PIONEER

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 of 10 tracks/10 chapters; time search capability accurate to one second; chapter skip; chapter repeat; CD subcode output; on-screen display; wireless remote control; high reliability drive system; improved CD sound; digital sound LaserDisc playback; digital audio FR 4-20,000 Hz ± 0.5 dB; S/N 98 dB; dynamic range >95 dB; channel separation >92 dB; total harmonic distortion <0.005%; 16.56" W X 4.69" H X 16.03" D; 25 lbs, 6 oz. $900

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 of 10 tracks/10 chapters; time search capability accurate to one second; chapter skip; chapter repeat; CD subcode output; on-screen display; wireless 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, Lynltron 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

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 of 10 tracks/10 chapters; time search capability accurate to one second; chapter skip; chapter repeat; CD subcode output; on-screen display; wireless 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, Lynltron 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

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 x 4.75" H X 16.5" D; 27 lbs, 5 oz. $500

1987 Video Buyers' Guide
### 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 X 37.56" W X 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 feet; 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, flash-back feature between two channels, and VCR functions. Audio frequency response 100-10,000 Hz into 8 ohms (less than 2% THD); 5-W/ch; 6.5" and 2.5" speakers. Requires 7.8 square ft floor space; 270 lbs $1,695

### 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 tuning; 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 X 40" H X 20.5" D $2,399

### 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. 11' H X 25" W X 9" D; 70 lbs $7,500

### MAGNAVOX

**RG8575BK Projection Receiver/ Monitor**
37-inch projection receiver/monitor with built-in MTS decoder. Receiver 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 channel recall; liquid-cooled optically-coupled lens system; comb filter; room light monitor; auto fine tuning; 400/330 line resolution (composite/tuner); two 4" X 6" speakers; bass, treble and balance controls; video/stereo audio input/output jacks. Contemporary oak-finish cabinet with recessed casters. 33" W X 40" H X 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
Projection TV

<table>
<thead>
<tr>
<th>VS-461RS Projection Television</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>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; last channel recall; on-screen display. Oak veneer wood cabinet with bi-fold doors.</td>
<td>$3,300</td>
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<tr>
<th>VS-408RS Projection Television</th>
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<tbody>
<tr>
<td>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.</td>
<td>$3,000</td>
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<tr>
<th>VS-363R Projection Television</th>
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<tr>
<td>36-inch rear-projection television with built-in MTS decoder. Features 36° washable screen; 160 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.</td>
<td>$2,100</td>
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<tr>
<th>NEC</th>
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<tr>
<td>PJ-4650 Stereo Projection TV</td>
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</tr>
<tr>
<td>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;</td>
<td>$3,400</td>
</tr>
</tbody>
</table>

| 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 control; 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. | $3,300 |

| 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 jack; 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/television out; two 4.5° 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-P46 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/tf/ct. | $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 × 62.25" W × 27.5" D. | $3,200 |

| PR5525AU Projection Television | |
| Similar to PR5585AK minus cabinet. 48.88" H × 88" W × 27.5" D. | $3,000 |

| PR4983YP Projection Stereo Television | |
| 40-inch projection color stereo TV. Set decodes multichannel TV stereo signal. | |

(Continued on page 112)

1987 VIDE0 BUYERS' GUIDE 97
**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 ±1 dB; video FR 50 Hz-6 MHz ±1 dB. 17.3" W X 3.9" H X 12.6" D; 16.1 lbs. $220

**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; synthesizes stereo mike mixing; color correction; provides video gain and can operate during recording and playback. Audio FR 20-20,000 Hz ±3 dB; luminance S/N 45 dB. 17.5" W X 2.6" H X 10.2" D; 6.8 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 ±1 dB; video FR 50 Hz-6 MHz ±1 dB. 17.3" W X 2.5" H X 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 ±3 dB; luminance signal-to-noise ratio 70 dB; video frequency response 50 Hz-10 MHz ±3 dB. 17.3" W X 2.6" H X 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 ±0.5; 17" X 1.75" H X 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; selects between 2 VCRs; reduces noise; switcher selects between 2 sources; eliminates copyguard; can operate during recording and playback. 9.94" W X 2.25" H X 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 X 2.25" H X 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 or monitor; connection between 2 VCRs; switcher selection between 4 sources; operation during recording or playback. 9.88 W X 2.25" H X 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 ~89 dB; maximum input/output level 6 V RMS; input imp 47 kohms; output imp 150 ohms. 17" W X 2.5" H X 6" D; 6 lbs. $159

**AUDIO SOURCE**

**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 recording 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 ±0.5 dB; video frequency response 5 MHz ±3 dB; S/N 86 dB audio, 67 dB video; sharpness enhancement level -4 dB minimum; detail enhancement level -6 dB minimum. 10 lbs. $580

**AV-THREE A/V Switcher/Processor**
Audio/video processor and switcher. Features fader; enhancements, 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 ±3 dB. 16.5" W X 2.25" H X 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 ±3dB; 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

**60-508 Video Image Enhancer**
Improves performance of video cameras, and videogcassette recorders. Useful when duplicating 2nd or 3rd generation tapes. $98.00
<table>
<thead>
<tr>
<th>Audio/Video Processors</th>
<th>11 Audio/Video Processors</th>
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<tr>
<td><strong>DENON</strong></td>
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<tr>
<td>AVC-500II Audio/Video Processor</td>
<td>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 +3 dB, THD 0.3%; video frequency response 5-6,000 Hz ± 1.5 dB, 434 mm W X 97 mm H X 280 mm D; 5.6 kg; $375</td>
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</table>

| **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; input levels (gain control); operation key to change settings; 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; output level 400 mV RMS. Time delay section: delay 20 ms fixed; RF 20-7,000 Hz +0, –3 db; THD 0.5%; 17.25" W X 3.5" H X 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 X 2.75" H X 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 effect 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 special effect; 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; separate 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 kHz; 480 x 264 x 120 mm rack mountable on 19" | $1,995 |

| **KCP-180 Color Encoder** | R/G/BNTSC color encoder converts computer or camera generated color RGB signal, either TTI 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 BNC camera inputs and looping BNC analog connectors; accepts sync or syncon green; accepts both positive and negative sync; converts either interface or noninterface video. Video nonlinearity 3%; hue control ±120° blue-green; luminance signal-to-noise ratio 60 dB; 19" W X 1.75" H X 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; input sensitivity 0.7 V; output level 300 mV; 480 X 264 X 120 mm rack mountable on 19" | $1,995 |

| 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 switch; three-output video and stereo audio distribution amplifier; 10-pin camera input. Color contrast ±10 dB, color saturation ±10 dB, color uniformity ±10 dB, color image from signal. Video processor removes video noise and snow from composite video picture. Features Dolby circuitry or time delay. Video gain and fader circuitry; bypass switching; video switcher with three inputs and outputs; 5-band audio equalizer; audio mixer with five inputs; four stereo audio outputs; mike output; head- phone jack | $299 |

| VX-18 Video Improvement Center | Combines enhancer with video processor. Includes video stabilizer; fader control; video enhancement with ±10 dB definition control; color processing with ±6 dB color gain control and ±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 video sources. 16.5" W X 1.5" H X 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; four surround sound speakers, 16.5" W X 2.36" H X 7.12" D; 6.8 lbs | $300 |

<p>| <strong>NAIAD</strong>              |                          |
| Hilidelivision F-20 A/V Processor | Provides high-quality source for video components not equipped with audio outputs. Features built-in stereo amp; 16.5&quot; W X 2.36&quot; H X 7.06&quot; D; 6.8 lbs | $200 |</p>
<table>
<thead>
<tr>
<th>Audio/Video Receivers</th>
<th>Audio/Video Processors</th>
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<tr>
<td><strong>C-90 Audio/Voice Control Amplifier</strong></td>
<td><strong>11 Audio/Video Processors</strong></td>
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<tr>
<td>A/V control amplifier with wireless remote control. Features motorized rotary volume control; 5 audio inputs (CD, telephone, subwoofer, tape, video); 2 video inputs (1 for display, 1 for reselect); recording selector tape dubbing switch; infrasonic filter; high/low filter; video enhancer; 20 lbs, 14 oz.</td>
<td>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 digital synthesizer; 8 AM/FM station presets; auto station search; memory scan; simulated stereo; AC power; speaker A, B, A + B switch; 2 tape monitors; amplifier: 80 W/ch minimum at 8 ohms, from 20-20,000 Hz, with no more than 0.005% THD; 4.86&quot; H x 16.56&quot; W x 5.12&quot; D; 21 lbs, 6 oz.</td>
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<tr>
<td><strong>VSX-5000 Audio/Video Receiver</strong></td>
<td><strong>SX-V400 Audio/Video Receiver</strong></td>
</tr>
<tr>
<td>Audio/video receiver with built-in surround sound processor. Features nonswitching amplifier type II; 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; 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; 4.75&quot; H x 16.56&quot; W x 11.81&quot; D; 18 lbs, 15 oz.</td>
<td><strong>$360</strong></td>
</tr>
<tr>
<td><strong>AV-700 Digital Delay Processor</strong></td>
<td><strong>SX-P101 Synthesized Surround Processor</strong></td>
</tr>
<tr>
<td>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, matrix, and synthetic stereo. 7 inputs; 50-W x 4 or 130-W x 2 from 20-20,000 Hz with no more than 0.05% THD. Audio frequency response from 10-70,000 Hz ±3.4 lbs.</td>
<td>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&quot; W x 2.36&quot; H x 13.25&quot; D; 8.2 lbs.</td>
</tr>
<tr>
<td><strong>AV-300 Decoder/Amplifier</strong></td>
<td><strong>SX-V300 Audio/Video Receiver</strong></td>
</tr>
<tr>
<td>Audio/video surround sound decoder/amplifier with 20-W/ch from 4 channels. Features video gain; contrast control; 5 outputs; 5 inputs; DNR noise reduction; monitor selector for L + R or L + R + LR infrared remote control; 3 surround sound effects; synthetic stereo; bass and treble controls adjustable by ± 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&quot; W x 4.31&quot; H x 13.36&quot; D; 21 lbs.</td>
<td>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 0.05% FM IMD; 0.005% THD; audio FR response 20-20,000 Hz ±1% THD; low sensitivity 10 dB (15.7 dBf), stereo 19.5 µV (37 dBf); signal-to-noise ratio A-weighted mono 80 dB (15.7 dBf), stereo 19.5 µV (37 dBf); THD 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; 4.86&quot; H x 16.56&quot; W x 5.12&quot; D; 25 lbs, 20 oz.</td>
</tr>
<tr>
<td><strong>SA-V70 Audio/Video Amplifier</strong></td>
<td><strong>SX-V200(BX) Audio/Video Receiver</strong></td>
</tr>
<tr>
<td>Amplifier with built-in surround sound processor. Features detachable system remote control; 5 audio/5 video inputs; 4-mono surround sound processor; two processing loops for video enhancer and graphic equalizer; record output selector; 6 AC outlets (3 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 &lt;1.0%; power output rear channels 25 W/ch (stereo) from 100-4,000 Hz into 8 ohms, ≥1% THD; FR phono 20-20,000 Hz ±0.5 dB; FR line level 20-50,000 Hz +0/-2 dB; 16.56&quot; W x 5.12&quot; H x 15.31&quot; D.</td>
<td>Quartz-synthesized PLL 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, ±3 dB. 16.4&quot; W x 3.9&quot; H x 8.9&quot; D; 11 lbs, 7 oz.</td>
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<tr>
<td><strong>SX-V900 Audio/Video Receiver</strong></td>
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<tr>
<td>125-W/ch minimum at 8 ohms, from 20-20,000 Hz, with no more than 0.005% THD; 6 oz.</td>
<td><strong>$825</strong></td>
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</table>

**THD; 6 oz 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** | 125-W/ch minimum at 8 ohms, from 20-20,000 Hz, with no more than 0.005% THD; 6 oz. | **$485** |
Audio/Video Processors

SANSUI

AV-99 Audio/Voice 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 X 4.06" H X 11.25" D; 9.0 lbs ........................................ $650

SANYO

SA100 Dolby Surround Sound Processor
Dolby Surround processor with built in amplifier. Features built-in 20 W/ch amplifier, 3-way signal processing (Dolby Surround, simulated hall surround, simulated stereo); variable crossover 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 a Dolby processor 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 wander enhancer and audio in 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 20-20,000 Hz +3dB; luminance signal-to-noise ratio 62 dB; video frequency response 6-10 MHz ±3dB; luminance signal-to-noise ratio 62 dB, video frequency response 6-10 MHz ±3dB; luminance signal-to-noise ratio 62 dB; video frequency response 17.12" W X 2.75" H X 11.62" D; 9.94 lbs ........................................ $599

TECHNICS

SA-590 Audio/Video Receiver
Audio/video receiver with 48-key wired less 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 X 3.75" H X 11.16" D; 17.4 lbs ........................................ $600

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. 10.56" W X 2.36" H X 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 ±3 dB, 1.85" W X 4.75" H X 9.88" D; 8.6 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 X 2.4" H X 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 X 2.62" H X 16.25" D; 8 lbs, 8 oz . ....... $150

RECONOT

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 simulcast stereo; built-in 12-W/ch integrated stereo amp with individual switchable volume, balance 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; 3 lbs .............. $150

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
AMBICO

V-0623 Wireless Microphone
Wireless electret condenser hand-held microphone includes receiver. Features 200-ft range. 7.3" W X 4.75" 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 X 8" H X 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 its own macro function; built-in table pod; any video camera even if it does not have its own macro function; built-in table pod; high-resolution screen $100.00

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 90,000 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 X 2.75" H X 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 handheld 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 X 1.5" H X 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" X 1.36" X 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 $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

VE-44 8-mm Video Camera Lens Care Kit
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

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 $175
<table>
<thead>
<tr>
<th>Accessories</th>
<th>12</th>
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</thead>
<tbody>
<tr>
<td><strong>Accessories</strong></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td>area with three adjustable shelves, also silk screened oak and oak-laminate cabinetry</td>
<td>$399.95</td>
</tr>
<tr>
<td><strong>AV-774 Home Entertainment Center</strong> Combination home entertainment center/room divider features 2 pull drawers. Library oak finish. 49&quot; W X 69.5&quot; H X 15.5&quot; D; 180 lbs.</td>
<td>$249.95</td>
</tr>
<tr>
<td><strong>V1332 Artisan Video Cabinet</strong> Features 19.25&quot; high by 27&quot; wide TV compartment with adjustable shelf and oak-framed glass doors. Hand-stained and finished oak and oak laminates. 28.5&quot; W X 42.25&quot; H X 16.5&quot; D</td>
<td>$199.95</td>
</tr>
<tr>
<td><strong>V306 Videocassette Storage Cabinet</strong> Locked storage cabinet includes threecornered shelves inside doors. 23.75&quot; W X 30.25&quot; H X 115.75&quot; D; 645 lbs.</td>
<td>$189.95</td>
</tr>
<tr>
<td><strong>AV73 Home Entertainment Center</strong> L-shape design; open shelf for TV (up to 26&quot;); safely-tempered glass doors with 3 adjustable shelves; enclosed storage area; library oak finish. 47&quot; W X 35.88&quot; H X 15.5&quot; D; 93 lbs.</td>
<td>$149.95</td>
</tr>
<tr>
<td><strong>V362 Video Entertainment Center</strong> TV compartment with adjustable shelf accommodates up to 26&quot; set; height-adjustable VCR/accessory shelf and videocassette storage area; tempered glass doors. 28.25&quot; W X 44.5&quot; H X 17.75&quot; D; 97 lbs.</td>
<td>$139.95</td>
</tr>
<tr>
<td><strong>V1330 TV/VCR Cart</strong> Solid oak construction; shelf for VCR; accommodates up to 26&quot; monitor. 26.62&quot; W X 26.75&quot; H X 16.5&quot; D</td>
<td>$119.95</td>
</tr>
<tr>
<td><strong>COAST</strong></td>
<td></td>
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<tr>
<td><strong>Coastar VTR-F2 Tripod</strong> Video tripod featuring oil fluid pan head with large platform camera, quick release system. Built-in bubble level. Opens to 62&quot;. Closes to 26&quot;.</td>
<td>$189.95</td>
</tr>
<tr>
<td><strong>Coastar VC-1505 Camcorder Case</strong> Designed to carry camcorders and most large video cameras. Exterior tripod straps. 15.25&quot; X 9&quot; X 9&quot;.</td>
<td>$135</td>
</tr>
<tr>
<td><strong>Coastar VC-1405 Carryall</strong> Twin-pocket video carryall for all low-silhouette camcorders. Features adjustable dividers; two full-gusset front pockets. 15&quot; X 6&quot; X 7.5&quot;.</td>
<td>$130</td>
</tr>
<tr>
<td><strong>Coastar VC-86 Camera/Recorder Bag</strong> Holds portable VCR and a compact video camera. Cordura exterior, padded interior.</td>
<td>$120</td>
</tr>
<tr>
<td><strong>Coastar VC-20 Camcorder Carryall</strong> Holds all camcorders. 15&quot; X 10&quot; X 8.75&quot;.</td>
<td>$102</td>
</tr>
<tr>
<td><strong>Coastar VC-67 Camera Case</strong> Holds all cameras and camcorders. Front pocket.</td>
<td>$102</td>
</tr>
<tr>
<td><strong>COMFORTSTRAP CORP.</strong></td>
<td></td>
</tr>
<tr>
<td>All straps are constructed of genuine leather; adjustable webbing sections available in black, grey, red, and blue. Fastex De/rin hardware Video Strap 1. For cameras that have two strap eyelets.</td>
<td>$14.95</td>
</tr>
</tbody>
</table>

**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 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 handheld 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 Straps 1. For cameras that have one strap eyelet and rotary fasteners that screw into tripod socket... $15.95

Video Straps 2. For cameras that have a rectangular strap eyelet and rotary fastener that screws into tripod (JVC Camcorder, Kodakvision 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 star-way bar, hidden computer center, or grouped for a wall unit. 32" H x 47.25" W x 19" D, rises to a maximum height of 53 inches.

<table>
<thead>
<tr>
<th>Walnut</th>
<th>$2,300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oak</td>
<td>$2,000</td>
</tr>
<tr>
<td>Black Oak</td>
<td>$2,300</td>
</tr>
<tr>
<td>Hi-Gloss Black</td>
<td>$2,450</td>
</tr>
</tbody>
</table>

Woodmore Smallboy
Holds stereo TV and speakers on top, accessories and videotape machine below. 47.25" W x 21" H x 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 x 30.5" W x 19.25" 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 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.

| EKB-2 | $450        |

DANEFURN

Audio/Video Cabinets

| DAVF 5. TV/video cabinet with pull-out shelf for VCR and drawer for video tape storage. 36" W x 20" H x 35.5" D | $399  |
| DAVF 2. TV/video cabinet with glass doors and drawer for video tape storage. 30.25" W x 20" H x 23.25" D | $257  |
| DAVF 6. Audio cabinet with glass door and vertical drawer for tapes | $500  |
| DAVF 7. Audio cabinet with double glass doors and pull-out turntable shelf | $437  |
| DAVF 8. Audio cabinet with double doors, vertical drawers for tapes, and pull-out turntable shelf | $597  |
| DAVF 116. Audio cabinet with glass door and lift top for VCR | $317  |

DISC WASHING

Dishwasher 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 |

Audio/Video Connector Cables

| Video Gold-Ends Connector Cables | $16.95 |

FISCHER AMERICA

Video Cassette Drawers

| VTD-2 Natural Oak Video Cassette Drawer Holds 26 VHS or Beta tapes | $70  |
| VTD-3 As above in dark oak | $70  |

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     |

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 of 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 Videocassette Bulk Eraser
Restores videocassette to original blank state. 2,300 gauss flux intensity; auto-shut-off prevents burn-out...

| $54.95 |

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 |

GF-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 x 48.25" W x 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 x 46" H x 15.81" D...

| $249.95 |
## Accessories

### 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
Accomodates 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

#### XED-1 Electronic Demagnetizer
Audio/Videodemagnetizer. $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!*
Video System Head Cleaner

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

VM-11E Screen Splitter

6.36" cross talk <50 dB; audio bandwidth 20-20,000 Hz ±1 dB. 9.25" W X 2.25" H X 6.36" ........................................ $349

B-7 Beta Cassette Rewinder

Features belt drive; soft eject; automatic cut-off ........ $34.95

VS-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 the house can view added sources by tuning to their assigned channel numbers. 10.75° x 1.5" x 8.5"; 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: 100 feet. Hand-held microphone/transmitter ........................................ $199.95

Lavaliere 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 X 47" H X 18" D; 85 lbs ........ $179.00

VR38, Similar to above except one adjustable and one fixed shelf. Contemporary woodgrain or high-tech black finish. 26" W X 23" H X 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 X 19" H X 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 vid eo 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; 12 separate circuits; 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 ........................................ $29.95

O'SULLIVAN

79780 Entertainment Center

Features dark oak finish; two adjustable component shelves; retraceable VCR and turnable shelves; area for 26" monitor; four solid oak doors below; 48.5" W X 49.5" H X 21" D ........................................ $559.95

74760 TV/VCR Cabinet

Accepts 26" monitor or smaller TV; adjustable shelf; pull-down door conceals retraceable VCR shelf, rounded-rail design. 29.75" W X 37" H X 20.88" D .......... $399.95

DC980 Audio/Video Center

Cabinet features four adjustable shelves for audio components; tempered glass finish; remote control; lights and controls are on the left side; 26" monitor; four solid oak doors below; 48.5" W X 49.5" H X 21" D ........................................ $979.95

106 Video Buyers' Guide 1987
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

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 POWER PACKAGE
A new line of products designed to extend the performance of your camcorder through innovation, quality, and dependability.

PART III:
Manufactured only by VDO-PAK Products

VDO-PAK

POWER EXTENSION
RB-300: 2 hr. direct replacement for all Hitachi/RCA VHS camcorders.
RB-27: fits all Sony 8mm units—including the HandiCam.
RB-86: the source of power for the original Matsushita VHS camcorder.
RB-22: covers the power needs of even newer Matsushita VHS camcorders and portables.
RB-85: replaces mower in Matsushita portables.
RB-84: revitalizes newer Matsushita/RCA portables.
RB-22: 2 hours of power for JVC's compact VHS/C camcorders.

Revitalize your camcorder or portable VCR with the replacement batteries you've been searching for!
tors 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

44-233 Bulk Tape Eraser
For Beta/VHS, and audio tapes ........................................ $29.95

Videocassette Cabinets
44-1199. Two drawers. Holds 24 VCR tapes in $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

SANSSUI
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

SONRISSE 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
**VIDEOTAPE**

**AIWA**

8-MM Videotape  
P6-90Y. 90 min .......................... $16.00  
P6-60Y. 60 min .......................... $14.00

**BASF**

Pure Chrome VHS Videocassettes  
Pure chrome videocassette with long-term stability.  
T-120. Playing time 2-4-6 hrs .......................... $11.55  
T-60. 1-2-3 hrs .......................... $9.99  
T-30. 1-1.5 hrs .......................... $8.99

**HG Beta Videocassette**  
Super high-grade chrome videocassette with high-density particle packing for extended-play recording, erasure, and signal stability.  
L-120. Playing time 2-4-6 hrs .......................... $11.55  
L-60. 1-2-3 hrs .......................... $9.99  
L-30. 1-1.5 hrs .......................... $8.99

**CERTRON**

VHS Stereo High-Grade Tape  
T-120 ........................................... $8.99

**GEMINI INDUSTRIES**

L-500 Beta Videotape  
Video S/N ±2 dB; color S/N ±2 dB; audio sens at 400 Hz ±1 dB .......................... $4.99

**LASER by SWIRE MAGNETICS**

VHS Videotape  
T-120 Standard Grade. 2-4-6 hrs .......................... $6.99  
T-120 High Grade. 2-4-6 hrs .......................... $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

**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 +3.2 dB; audio signal-to-noise ratio +3 dB; audio sensitivity +1.7 dB; video output +1.5 dB; chroma output +1.7 dB.  
T-120. 2-4-6 hrs .......................... $11.55  
T-60. 1-2-3 hrs .......................... $8.99  
T-30. 1-1.5 hrs .......................... $7.99

**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 Cassette**  
Metal-particle formulation.  
MP6-90S. 90 min .......................... $16.95  
MP6-60S. 60 min .......................... $13.95

**Super MG 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

**Kodak**

HG Beta Videocassette  
Super high-grade chrome videotape with high-density formula and for improved sound and picture.  
L-750. Playing time 3-4.5 hrs .......................... $11.55

**Kodak**

Kodavision 8-mm Videotape  
Metal-particle tape.  
MP 90 .......................... $15.99  
MP 60 .......................... $13.99

**Kodak**

High-Grade VHS Videotape  
With high-density particle packing for recording, erasure, and signal stability.  
T-160 HGX .......................... $19.99  
T-120 HGX .......................... $11.79  
T-90 HGX .......................... $11.49  
T-60 HGX .......................... $10.99

**Kodak**

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

**Kodak**

VHS Videotape  
T-160 .......................... $16.99  
T-120 .......................... $9.99  
T-90 .......................... $9.69  
T-60 .......................... $9.49  
T-30 .......................... $8.99

**Kodak**

High-Grade Beta Videotape  
With high-density particle packing for 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

**Kodak**

Beta Videotape  
L-750 .......................... $9.99  
L-500 .......................... $8.99  
L-250 .......................... $7.99

**Kodak**

VHS T-120. 2-4-6 hrs .......................... $19.95  
Beta L500. 1-2-3 hrs .......................... $18.95

**Kodak**

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

**Kodak**

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

**Kodak**

High-Grade Epitaxial VHS Videotape  
Metallized 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 .......................... $19.95  
Beta L500. 1-2-3 hrs .......................... $18.95

**Kodak**

High-Grade Epitaxial Beta Videotape  
Metallized 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. 1.5-3.5 hrs .......................... $14.95  
Beta L500. 1-2-3 hrs .......................... $13.95

**Kodak**

High-Grade Epitaxial VHS Videotape  
Metallized 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 .......................... $19.95  
Beta L500. 1-2-3 hrs .......................... $18.95

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 densely packed oxide particles for improved performance in Hi-Fi 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 output +2 dB; chroma output +2.5 dB.

MP -120...2 hours
MP -90...1.5 hours
MP -60...1 hour
MP -15...0.25 hours


Video 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...2-4.5 hours $14.99

VHS Pro Hi-Fi Series Videocassettes
VHS videotape designed for Hi-Fi and PCM digital video recording. Features permapass 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 mastering recording or in home video cameras. Includes safeguard dustproof plastic storage case.

T-120...2-4.6 hrs $11.99

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

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-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.$6.99

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...2.5-3.8 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. 2.5-5.3-8 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. 1.5-3.3-5.5 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; RF output +4.0 dB; color output +6.3 dB; audio output uniformity 0.5 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 ratio +5.1 dB; audio sensitivity +1.5 dB; RF output +4.0 dB; color output +2.0 dB; audio output uniformity 0.5 dB; frequency response 20-20,000 Hz. 2-4.6 hours $12.99
L-750. Beta-format. Video signal-to-noise +2.5 dB; color signal-to-noise ratio +5.0 dB; audio sensitivity +1.5 dB; RF output +4.0 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 production; introduction 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 ratio +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 ratio +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; 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 $11.40
Beta L-500 $12.20
Beta L-125 $10.90

**EMG 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. Precisely-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; Betv value 35 m2/g.
VHS T-120. $14.70
VHS T-60 $12.30

**SA E-HG VHS Videocassettes**
Extra High-Grade Super Avilyn formulation for higher output than standard videotapes. 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 videotapes. 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
Beta-150. $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 Finavinx" to meet demands of 8-mm cassettes. Designed for videophiles to be virtually free dropouts with 6 dB improvement in both luminance and chrominance S/N ratios.

For explanations of abbreviations, specifications, and technical terms, turn to the vocabulary on page 38.

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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 fullfoldback doors. Horizontal resolution 330 lines (400 lines with direct video). 41" W X 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); 2 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 X 40.75" H X 21" D $2,159

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 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. 33" W X 40" H X 20" D $1,999

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 X 2, 2" round X 2; power consumption 230 watts; floor space required 36.6 X 23 square inches; ceiling height required 45.9 inches. 250 lbs $2,200

PTV 41. Same as above with accordian-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 high compliance woofers; two 2" tweeters. 40.88" H X 36.36" W X 26.36" D; 108 lbs; ebony finish $2,990

DVM4000 Projection Monitor/Receiver Dimensia rear-projection monitor/reciever 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-

PRM500 45" Projection Monitor/Receiver 45-inch rear-projection monitor/reciever 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 X 40" W X 26.36" D $2,499

PRM450 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 X 40" W X 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 X 41" W X 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 X 27.24" W X 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.
AMBITCO

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 ± 3 dB; minimum power 6 watts; maximum power 9 watts; input impedance 50 kilohms; sensitivity 500 mV at 1% THD. 1,000 Hz $105/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 ± 3 dB; power range 10-100 watts; sensitivity 91 dB SPL/W/m; impedance 8 ohms; black or gray finish; 11.5" W x 19.25" H X 26.75" D; 19 lbs. Black finish $398/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 ± 3 dB; power range 10-75 watts; impedance 8 ohms; in teton oak; 14" W X 27" D; 48 lbs each. Black finish $400/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 ± 2 dB; 8-ohms imp; power range 5-60 watts. Requires 3" mounting depth $400/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 ± 3 dB; max power 75 watts; min power 15 watts -woofer; 15 watts -tweeter; frequency response 60-20 Hz ±3dB; flat-black finish; 7.25" W X 19.25" H X 10" D; 16 lbs ea $179/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 ± 3 dB; max power 100 watts; min power 5 watts. 9.5" W X 21.5-25" H X 11.5" D; 26 lbs each $499/pr

VRS-4 Video Speaker
Acoustic-suspension bookshelf speaker. Features magnetic shielding; 6.5" woofer; 0.75" dome tweeter. FR 59-22,000 Hz ± 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 ±3dB; flat-black finish; 7.25" W X 19.25" H X 10" D; 16 lbs ea $278/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 cambic dome midrange; 1" elliptical dome tweeter; poly-arc adjustable high-frequency array (lead shielded on one speaker). Frequency response 28-20,000 Hz ±3 dB; minimum power 25 watts, maximum power 200 watts; sensitivity 90 dB SPL/W/m; impedance 4 ohms. 14" W X 42" H X 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 ±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 X 27" H X 10.75" D $1,350/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 ± 3 dB; minimum power 5 watts; maximum power 60 watts $399/pr

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POLK

Video Sound Series Speakers

VS-25 Video Speaker
Bookshelf speaker with combination dual-opposed and magnetic shielding for placement near TVs. Features 6.5” fluid-coupled 1” polydome tweeter; 6.5” Polk trilaminate bass driver; 1” polydome tweeter. Frequency response 25-25,000 Hz ±3 dB; minimum power 3 watts; maximum power 100 watts; sensitivity 93 dB SPL/W/m; impedance 6 ohms; hi-tech black finish; 22 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 25-25,000 Hz ±3 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 25-25,000 Hz ±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” ferro-fluid-cooled cone tweeter; tweeter level control; input sensitivity control; magnetically shielded. Frequency response 50-20,000 Hz ±6 dB; impedance 8 ohms. 6.5” W × 23” H × 7.5” D; 12 lbs ea; black finish $300/pr

312. Same as 313 except frequency response 100-20,000 Hz ±6 dB. Designed to complement the 600M monitor in height and style. 6.5” W × 18” H × 7.25” D. 14.5 lbs ea $300/pr

QUASAR
SW90 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 ±16 dB, 7.28” W × 12.56” H × 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 ±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 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 ±3 dB; sensitivity 91 dB SPL/W/m; impedance 4 ohms; matte black finish; 6” W × 18” H × 7” D; 10 lbs $200/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 ±3 dB; maximum power 180 watts; sensitivity 92 dB SPL/W/m; impedance 8 ohms; 15.25” W × 41” H × 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 ±3 dB; maximum power 160 watts; sensitivity 91 dB SPL/W/m; impedance 8 ohms; 13” W × 37.44” H × 11” D; 41 lbs $460/pr

S-V727U 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 ±3 dB; maximum power 160 watts; sensitivity 91 dB SPL/W/m; impedance 8 ohms; 13” W × 34” H × 10.25” D; 28.5 lbs $520/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 ±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

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**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 response 30-21,000 Hz at ±3 dB; maximum power 160 watts; sensitivity 89 dB SPL/W/m; impedance 8 ohms; walnut veneer finish. 23.75” W X 14.88” H X 3.34” D; 20 lbs $600/pr

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**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 ±3dB; minimum power 20 watts; maximum power 160 watts; sensitivity 88 dB SPL/W/m; impedance 6 ohms; walnut veneer finish. 11.75” W X 18.91” H X 11.09” D; 39.4 lbs $540/pr

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**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 ±3dB; minimum power 20 watts; maximum power 120 watts; sensitivity 88 dB SPL/W/m; impedance 6 ohms; simulated wood finish. 10.75” W X 14.97” H X 8.97” D; 16.5 lbs $400/pr

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**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 ±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 X 10.03” H X 6.78” D. 11.0 lbs $320/pr

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**SB-R100 Video Speaker**

Bookshelf or wall-mount acoustic-suspension speaker with magnetic shielding. Features 32-cm passive radiator; honeycomb woofer; mica-diaphragm, disc tweeter. FR 70-25,000 Hz ±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 X 12.40” H X 2.75” D; 10.0 lbs $310/pr

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**SB-FSMKII 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 ±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 X 8.62” H X 5.34” D; 6.4 lbs $260/pr

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**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 ±3 dB; maximum power 150 watts; sensitivity 98 dB SPL/W/m; impedance 8 ohms; 16.12” W X 31.81” H X 11.7” D; 5.5 lbs $398/pr

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**S-10 Video Speaker**

Wall-mount speaker with sound reflection. Maximum power 30 watts; impedance 8 ohms; black or white finish. 11.75” W X 11.75” H X 5.75” D; 5.5 lbs $299/pr

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**TECHNICS**

**SB-RX50 Video Speaker**

Bookshelf ported speaker with double-magnetic shielding. Features 5.5” honeycomb carbon woofer; 1.12” mica-diaphragm tweeter; auto-reset thermal protection. Frequency response 30-48,000 Hz ±3dB; minimum power 20 watts; maximum power 160 watts; impedance 6 ohms; walnut veneer finish. 11.75” W X 18.91” H X 11.09” D; 39.4 lbs $540/pr

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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; semi-automatic belt-drive turntable; dual cassette deck; 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; 7-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; double 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-funtion 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-funtion remote control (for audio components); matching deluxe custom woodgrain audio and video cabinets ............... $2,800

11-5310 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-funtion remote control (for audio components); AM/FM quartz digital tuner with 6 AM/FM presets; dual cassette deck with 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 Digitouch wireless remote control of all components; 5-band graphic equalizer; digital tuner with 24 presets; linear-tracking turntable; auto-reverse phragm speakers with magnetic shielding; 6-event/21-day timer; 26" monitor/receiver with Dual Mode remote control; 35-funtion 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-funtion 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

AVX-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 and high-speed dubbing; programmable CD; 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

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

SC-AVS1 Audio/Video System
Audio/video system features CT-2610A 26" stereo monitor/receiver; N-955 VHS Hi-Fi VCR; X-950 cassette deck with Dolby B and C 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 $3,999

PANASONIC

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SB-145D 3-way speakers with 10" woof-er, 2.12" tweeter, and horn-type super tweeter; Model SH-145D unified rack. SL-P3620 programmable CD player optional $2,695/system

POINER

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-V900 A/V speakers; CS-VX50 surround sound speakers; CB-V90 rack $7,300

F-PRO2. As F-PRO1A with LD-700 Laser- Disc player instead of CLD-909... $5,900

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; CUA-9001 remote control unit, CS-V9920 4-way magnetically shielded speakers; RA-W90 component $4,000

PROTON

AV-27 Audio/Video System
Features 27" 827 step monitor/ receiver with flat-square-tube screen and matching Proton 318 speakers. Audio components include B30R Compact Disc player, 730R cassette player, 43CR 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

DIMENSION Audio/Video System
The Dimensia audio/video system includes: two-way magnetically shielded speakers; RA-V61 center, monitor base, equalizer, AM/FM tuner, cassette deck, turntable, Compact Disc player, component cabinet, monitor base, speaker stands, and choice of two integrated amplifiers; two receiver/montors, and two pairs of speakers. With the different choices of receiver/montor, 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; 450 line resolution; direct-access cable-ready tuner; automatic tuning; 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 compen-sation; two-way speakers. Luminance bandwidth 4.2 mHz (limit); peak light output 200 ft; audio power output 10 W/ch; 40.88" H X 36.36" W X 26.36" D; 205 lbs; ebony finish cabinet $2,990

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 DVM4000, 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; program-mable 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; 160 lbs; ebony finish $1,300

FVKC2600. FKC2600 with oak finish $1,300

MVR975HF Convertible VCR, VHS-format VCR with Hi-Fi audio and built-in MTS decoder. Features Dimensia system compatability; SystemLink cable; automatic status indication; SystemLink cable; automatic tuning; on-screen display; 365-days/8-event timer; audio and video dubbing; 133-channel F.S. tuner; record protection; 133-channel VCR. 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/YK770 videocassette recorder. VHS-format table-top VCR. Features SP, LP, SLP play/recording speeds; remote control; simulcast audio recording; SystemLink cable; automatic status indication; automatic tuning; on-screen display; 365-days/8-event timer; audio and video dubbing; 133-channel F.S. tuner; record protection; 133-channel VCR. 2 VHS Hi-Fi record/playback heads. Audio frequency response 20,000 Hz; dynamic range greater than 80 db; THD 0.4%; channel separation 60 db. Power consumption 3-watts (power on only); 45 watts (tuner/timer on AC line). 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 capabilities; 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; preset cut/main amp in jacks. 100 W/ch into 8 ohms at 20,000 Hz with no more than 0.05% THD; S/N phono 75 db, line 78 db; 4.6" 17.12" X 14.5" X 19.8 lbs $390
Audio/Video Systems

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; fluorescence peak meters; Dolby B play programming; automatic tape cueing; SystemLink cabling; 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. 17.12" W X 3.36" H X 11.12" D; 15 lbs, 13 oz. $300

MEGI60 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 1.2 dB; 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 5" D; 5 lbs, 4 oz. $250

MRTR120 Cassette Deck. Features auto-reverse; remote control; automatic status indication; automatic switching; automatic control integration; system record protection logic; SystemLink cable; 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 with volume controls. Frequency response 5-20,000 Hz ± 0.5 dB; dynamic range 90 dB; S/N 90 dB. 17.12" W X 11.12" D; 19 lbs. $300

MTT135 Turntable. Front-loading linear-tracking turntable with direct-drive; quartz-locked PLL speed servo; automatic size and speed selection; tonearm muting; P-mount cartridge. Features autostatus indication; auto switching; automatic control integration; system record protection logic. S/N 78 dB (DIN-B); W&F 0.025% WRMS. 17.12" W X 12.62" H X 14.25" D; 15 lbs. $349.

MTT130 Turntable. Same as MTT135 except top loading. 10 lbs. $250

Sansui AV1100R 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. 17.12" W X 3.36" H X 11.12" D; 10 lbs, 13 oz. $399

SPK385 Speakers. Air suspension speaker with 11" polypropylene woofer, 4" midrange, 1" dome tweeter. Frequency response 35-20,000 Hz; maximum power 200 watts; imp 6 ohms. 13.86" W X 24.88" H X 12.75" D; 36 lbs; ebony or tawny oak finish. $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-550 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

Sansui 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-7000 high-speed double-cassette deck with Dolby; CD-E750 Compact Disc player; T-700 quartz-PLL digital tuner with 16 presets; L-45 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

Sansui AV-1000 Audio/Video System

Includes SV-M26AV 26" flat-square tube monitor/reciever with MTS and SAP; 140-channel cable-ready tuner; S-1100R audio and 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 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

Radio Shack 15 Audio/Video Systems

Model-747 Audio Video System

Audio video system features TC-1000 19" TV/Monitor with stereo; model-41 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

Radio Shack AV-1500 Audio/Video System

Includes SV-M26AV 26" flat-square tube monitor/reciever with MTS and SAP; 140-channel cable-ready tuner; A-700R 55-W/ch integrated amplifier; T-700 quartz-PLL digital tuner with 16 pre-
sets; D-70BW high-speed dubbing cassette deck; P-D15 semiautomatic direct-drive turntable; GX950U and GX-VIOUSU 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: AVSM30 35" stereo monitor/receiver with 550 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 equalizer; JT760 AM/FM tuner; RDW760A double cassette deck; TP670 automatic turntable; RBAV4 unified remote control; AVS500 3-way speakers; AVF500 oak-finish system cabinet $2,700

AV400 Audio/Video System
Remote-control A/V system. Components include: AVSM262 25" remote-control stereo monitor/receiver; VHR1550 VHS stereo videocassette recorder; JA688 120 W/ch integrated amplifier; EG668 14-band graphic equalizer (7 per channel); JT688 AM/FM tuner; RDW688 double cassette deck; TP668 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: AVSM262 25" remote-control stereo monitor/receiver/monitor with built-in MTS/SAP decoder; JA668 120 W/ch integrated amplifier; EG668 14-band graphic equalizer (7 per channel); JT668 AM/FM tuner; RDW668 double cassette deck; TP658 semiautomatic turntable; RC380 unified remote control; AVS300 3-way bass-reflex 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: AVSM210 20" stereo monitor/receiver with remote control; DCX685 AM/FM tuner, 120 W/ch integrated amplifier; RDW685 double cassette deck; TP658 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 lousspeakers with 8" woofer, 2" tweeter; equipment-rack cabinet with glass doors; additional cabinet space for CD player and VCR. Features: MTS/SAP 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, Lyntron 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 jack; headphone jack. AN20UP speakers feature square, flat 210 cm2 woofer; 2.9" cone tweeter; magnetic interference prevention system $2,300

TECHNICS

AV300 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-AVA44 AV surround processor features Dolby surround sound; Tech4 noises 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 2-step random programming. Cassette deck features series play, syncro 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-AVA44 surround sound processor $3,000/system

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SATELLITE TV COMPONENTS

CHANNEL MASTER

Satellite Systems
6305 Porta-Mount Satellite System
Portable satellite system includes 5' black perforated aluminum dish; pushbutton 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 $749
12'. 12-foot dish diameter; 0.37 f/D ratio; 70% efficiency $3,995
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 one unit. Features computer-synthesized frequency-agile tuning; choice of direct or modulated output; external 70-MHz loop for T1 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; preprogrammed 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 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; preprogrammed 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. Scramble compatible. Interfaced for both mechanical and electronic polarity rotors. Noise temp LNB 65°/75°/85° Kelvin. 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-880 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-

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Satellite TV Components

**DSB-700S Satellite Receiver**
Remote-controlled satellite receiver with stereo dual-channel audio tuning, pushbutton stereo/mono selector, C- or Ku-band capability. Features LNB block downconversion; audio memory (subcarriers); 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 Positions**

**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 $393

**HOU STON 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 filters; 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-fed/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 controls for enhance performance and nonvolatile memory. Mates directly with Tracker II/III receiver $419

**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 $389

**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 capability; 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 Wide Video 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. Receives all audio subcarriers. Interfaced for both mechanical and electronic subcarriers. Scramble compatible $1,799-$1,999

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; $799

ESR9244 Satellite Receiver Microprocessor-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; 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 Microprocessor-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; 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

ESR3245 Satellite Receiver Features block downconversion (950-1450 MHz); dual-polarity input adapter 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 de-luxe receivers. Uses 950-1450 MHz block input frequency. Compatible with all Drake LNBS. Dual-polarity input adapter 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 programmed satellites for recall by front-or remote-control. 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- to 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 subcarrier FM services. Wireless remote can control satellite or channel selection, steering of dish, and parent 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

2501. As above except 85° ..... $1,995

Complete 10.5-ft dish system ........ $2,295

These components are available separately for upgrading existing system.

SR-2010. HSTV Receiver .......... $599
SR-2502. 8.5-ft Dish Antenna .......... $1,298
SR-2506. 10.5-ft Dish Antenna .......... $1,599
SR-2503. 80° LNB ................ $229
SR-2504. HSTV Feedhorn ................ $99

Video Cassette Recorder Head Cleaners

Nonabrasive head-cleaning cassettes for Beta- and VHS-format video cassette recorders. Cleans video and audio heads in 30 seconds and can be used up to 200 times.

LCL-3C. Beta format .......... $19.30
TCL-3C. VHS format .......... $19.30

ECL-2C 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 water-proof foam; 3,000-pound test nylon strap; camera section expands from 1" to 6.11" W × 10.5" H × 4.5" to 9.5" D. ...... $150.00

V212A. Case for larger cameras $175.00

V8 Camcorder Bag For 8-mm camcorders 13.5" W × 7" H × 5" D; 1 lb. 7 oz. .......... $110.00

VN. For Matsushita-built, Panasonic, Chinon, GE, and Curtis Mathis VHS camcorders. 15.25" W × 9.5" × 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 adapter. Features 300-pound test nylon strap; welded D rings; closed-cell, cross-linked polyethylene water-proof foam; made from 1,000 denier cordura; half the weight of a hard case. 15" W × 11" H × 5" D; 1.5 lbs. .......... $90.00

VDO-PAK PRODUCTS

NIC713 Nickel Cadmium Belt Battery power belt adjustable for waist sizes 2'-50", balanced 12 VDC 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. 22.5" W × 22.5" H × 5" D .......... $149.95

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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 Dolby Stereo $29.95
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 Stereo $39.98
American Flyers. Warner Home Video, Beta/VHS Hi-Fi Stereo $16.95
Amy Grant: Age to Age. A&M Records, Beta/VHS Hi-Fi Stereo ........ $29.95
Amy Grant: Find a Way. A&M Records, Beta/VHS Hi-Fi Stereo .......... $19.95
Bob Russell: The (First) Farewell Concert. Video Arts International, Beta/VHS Hi-Fi Stereo $19.95
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
Arthur 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 Stereo $18.95
Beatles Live. Sony Video Software, Beta/VHS Hi-Fi Stereo .......... $16.95
Beethoven/Schuman/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 Stereo .......... $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 Video Home Entertainment, Beta/VHS Dolby Hi-Fi Stereo $19.95
Bolshoi Ballet. Kultur, Beta/VHS Hi-Fi Stereo ......................... $16.95
Bon Jovi: Breakout. Sony Video Software, Beta/VHS Hi-Fi Stereo .... $19.95
Bring on the Night. Karl-Lorimar Home Video, LaserDisc digital Stereo $29.95
Bryan Adams: Reckless. A&M Records, Beta/VHS Hi-Fi Stereo .......... $29.95
Buddy Blues. Sony Video Software, Beta/VHS Hi-Fi Stereo .......... $19.95
Buddy Rich. Sony Video Software, Beta/VHS Hi-Fi Stereo .......... $29.95
Cameo. Sony Video Software, Beta/VHS Hi-Fi Stereo ................ $19.95
Cameo. Sony Video Software, Beta/VHS Hi-Fi Stereo................ $19.95
Canyon Consort: The Paul Winter Consort. A&M Records, Beta/VHS Hi-Fi Stereo $29.95
Carpenters, The: Yesterday Once More. A&M Records, Beta/VHS Hi-Fi Stereo $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 Entertainment, 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 Stereo $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. 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: Jazin' 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 $14.95
Denniss De Young: Three Piece Suite. A&M Records, Beta/VHS Hi-Fi Stereo $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 $17.95
Die Fledermusen. 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 Stereo $79.95
Donnie Iris and the Cruisers. Sony Video Software, Beta/VHS Hi-Fi Stereo $29.95

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<th>Hi-Fi/Digital Software</th>
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<td>Glory of Spain, The, Video Arts International, Beta/VHS Hi-Fi</td>
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<td>Israel Folk Dance Festival, Kultur, Beta/VHS Hi-Fi Stereo</td>
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<td>Jan Peerce, Marian Anderson, and Andres Segovia, Kultur, Beta/VHS Hi-Fi Stereo</td>
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Media Home Entertainment's Hamburger, The Movie.
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*Warner Home Video’s The Music Man*
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<td>Thomas Dolby: Sony Video Software</td>
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<td>Thoroughly Modern Millie: MCA Video</td>
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<td>Three 3:15: Media Home Entertainment</td>
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<td>Tina Turner: Private Dancer Tour: Pioneer Artists, LaserDisc digital sound</td>
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<td>Tina Turner: Private Dancer Tour: Sony Video Software, Beta/VHS Hi-Fi Stereo</td>
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<td>Tina Turner: Private Dancer Tour: Sony Video Software</td>
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**Hi-Fi/Digital Software**

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<td>Razorback: Warner Home Video, Beta/VHS Hi-Fi Stereo</td>
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<td>Reggae Sunsplash I: Sony Video Software, Beta/VHS Hi-Fi Stereo</td>
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<td>Renata Scotto: Prima Donna in Recital: Video Arts International, Beta/VHS Hi-Fi Stereo</td>
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<td>Rick Derringer: Sony Video Software, Beta/VHS Hi-Fi Stereo</td>
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<td>Rick Springfield: Beat/Live Drum: Pioneer Artists, LaserDisc digital sound</td>
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<td>Robert Palmer: Rip Tide: RCA/Columbia Pictures Home Video, Beta/VHS Hi-Fi Stereo</td>
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<td>Roger Whittaker: Sony Video Software, Beta/VHS Hi-Fi Stereo</td>
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<td>Rubber Rodeo: Sony Video Software, Beta/VHS Hi-Fi Stereo</td>
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<td>Santa Claus the Movie: Media Home Entertainment, Beta/VHS Dolby Hi-Fi Stereo</td>
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<td>Scarlatti/Balbass/Ravel: Sony Video Software, Beta/VHS Hi-Fi Stereo</td>
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<td>Scorpions: Sony Video Software, Beta/VHS Hi-Fi Stereo</td>
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<td>Sesame Street Presents: Follow That Bird: Warner Home Video, Beta/VHS Hi-Fi Stereo</td>
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<td>Sheena Easton: Sony Video Software, Beta/VHS Hi-Fi Stereo</td>
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<td>Sherrill Milnes: An All-Star Gala: Video Arts International, Beta/VHS Hi-Fi Stereo</td>
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<td>Sherrill Milnes: Homage to Verdi: Kultur, Beta/VHS Hi-Fi Stereo</td>
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<td>Siouxsie and the Banshees: Sony Video Software, Beta/VHS Hi-Fi Stereo</td>
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<td>Split Enz: Sony Video Software, Beta/VHS Hi-Fi Stereo</td>
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</table>

**1987 Video Buyers Guide**
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