

1986 BUYERS GUIDE TO BROADCAST EQUIPMENT AND RELATED SERVICES

FN/TV

1. NEW DESIGN. State-of-the-art design for stereo and multitrack production.

2. EXPANDABLE. Available from 16 inputs up to 80 inputs, now-or later. The Westar frame is even field-expandable.

3. AUTOMATION. IDF Intelligent Digital Faders with three levels of automation. Field retrofitable.

4. INTERFACING. Easy interface with video editing systems and TV facilities.

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6. FLEXIBLE. Console layout and patchbay location may be custom ordered without custom pricing.

7. COMPUTER CONTROL. Optional microprocessor controlled input/output stereo routing/mixing switcher.

8. SUPPORT. Regional service centers for quick and courteous support. New York City, Nashville, Los Angeles, and Toronto.

9. MADE IN USA. Engineered and manufactured in the United States by Quad Eight as a member of the Mitsubishi Pro Audio Group in their new 45,000 square foot Los Angeles facilities.

10. DEPENDABLE. Under the \$8 billion strong Mitsubishi Electric umbrella, Quad Eight is the most solidly backed of all professional console makers.

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Circle 100 on Reader Service Card

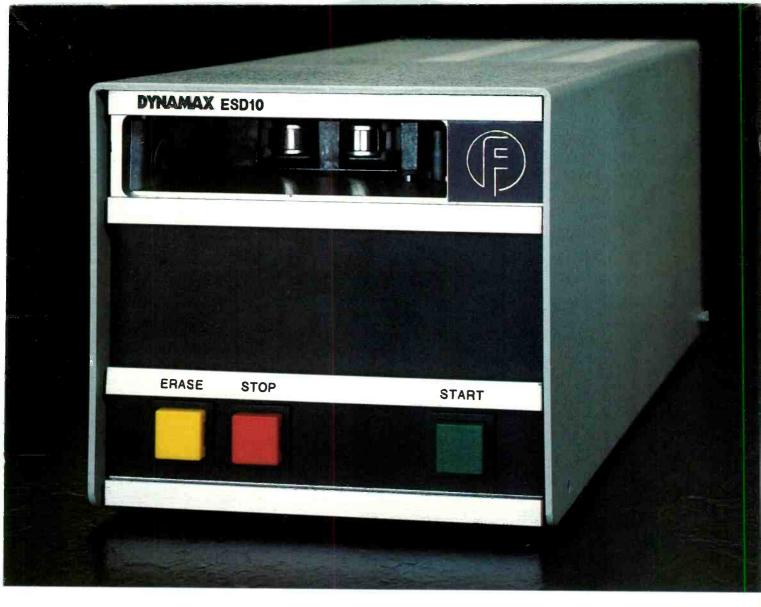


The Westar 8300 Series at Hanna-Barbera Productions, Hollywood

WESTAR 8000 SER by quad eight

8100 Series • TV Stereo 8200 Series
Video Sound Post Production 8300 Series
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Cleanest Erasure Ever!

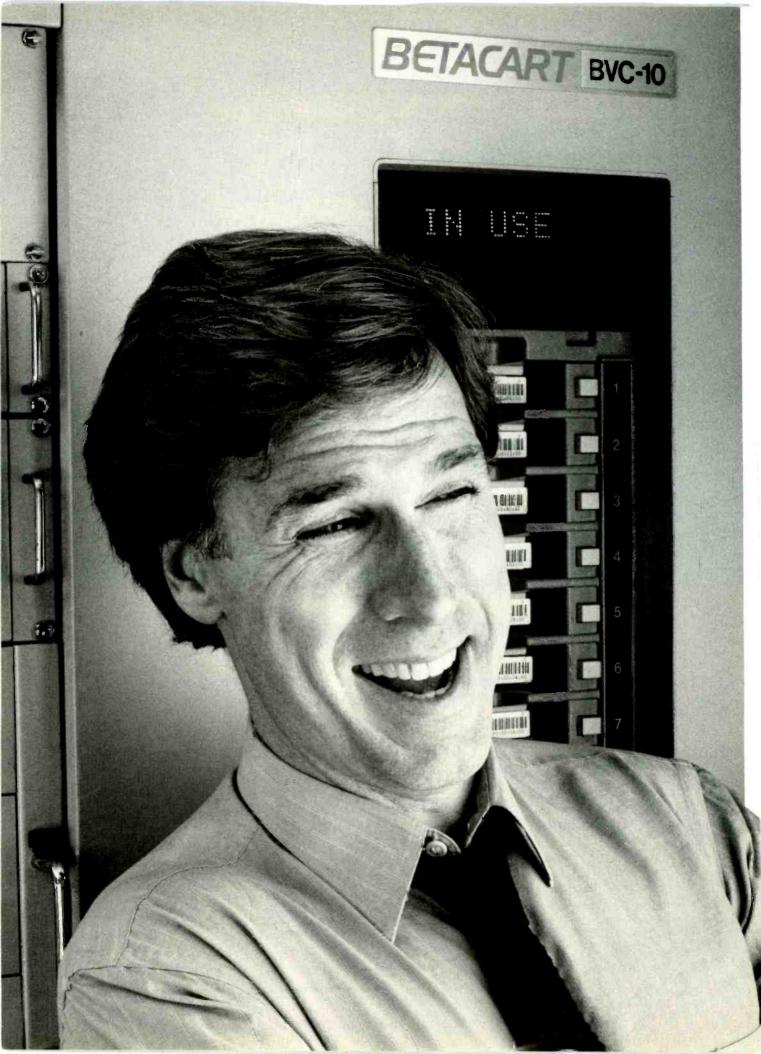
Now there's a better way to erase your carts. Without degaussing coils. Without heat. Without damaging tape stress.

The DYNAMAX[®] ESD10 Eraser/Splice Detector improves on reel-to-reel technology by using two precision full-track erase heads. The result is a significant improvement in cartridge signal-to-noise ratio, and on-air sound beyond anything you might have thought possible. In addition, a patented system guarantees reliable, automatic splice detection with no sensitivity adjustments. Operating at 27.5 ips, the *continuous duty* ESD10 will erase and splice-locate a 40-second cartridge in less than 22 seconds.

Get the full story on the fastest growing cartridge machine family. Contact Fidelipac or your authorized DYNAMAX Distributor.



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"Makegood? What's a makegood?"

How soon they forget.

All those people from Anchorage to New York who already use Sony Betacart[™] Systems.

They forget about downtime. They forget about on-air backup systems. And they forget about ad agencies demanding damngood makegoods.

Why?

Betacart is the smart cart machine.

Microprocessors keep constant track of forty cassettes. They maintain system alignment. They run self-check diagnostic routines.

And Betacart's simple operation not only prevents human error, it prevents human boredom.

Technicians at KDNL, St. Louis use their Betacart to put snap into station breaks. For station IDs they shoot logo artwork, add movement with digital effects and air the cassettes through the Betacart. Now there are no more dull title cards at KDNL.

At WDBJ, Roanoke, commercial delivery has improved dramatically. So has the picture quality of the spots.

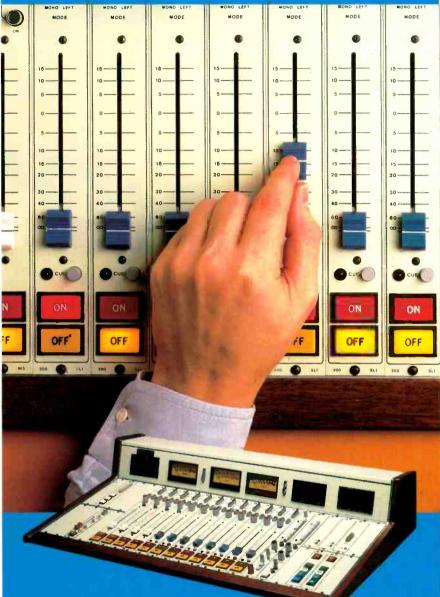
Carl Guffey, director of operations, reports: "The sales staff is happy, traffic is happy, the engineers are happy and the general manager is ecstatic."

Want to improve your station's commercial outlook? Put the Gold Standard to work for you.

Call Sony Broadcast at (201) 833-5231. SONY

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Moment of truth



You're on-air. Will your console, the heart of your control system, perform flawlessly?

Your air time is too valuable not to be sure. If it's an Auditronics, you can rest easy.

Unlike all the new companies which jumped headlong into the audio market during the last couple of years, Auditronics has proved itself the hard way with almost two decades of experience in building dependable, useroriented broadcast consoles. So when we say that our Auditronics 200 Series Console is the best long term investment on the

market today, we can back it up with personal endorsements from literally hundreds of station managers and engineers across the country

For a look at what your competition is saying about us and ours, write or give us a call. Our experience can save you money.

auditronics, inc.

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A video camera that grows with you. At Camera Mart.



At Camera Mart we've always had a strong preference for flexible equipment—and the Ikegami HL-95 Unicam® is as good an example of versatility as we've seen.

Utilizing a unique "building-block" concept, the HL-95 is available as a standalone camera capable of accepting any on-board VCR, as well as multicore and triax.

If you're concerned about the many tape formats, Ikegami's new HL-95 Unicam® is the only universal camera system that accepts all formats.

A newly developed 2/3-inch Plumbicon® tube (electrostatic focus/ magnetic deflection) is incorporated into the HL-95. The tube's photoconductor size combined with diode gun electron tube technology results in high sensitivity and excellent resolution.

The HL-95 sets higher standards in color camera performance, size, weight, power consumption and flexibility than anything available before... and is typical of the Ikegami tradition of excellence.

It's new, and, as you'd expect, it's available right now from Camera Mart.

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By focusing on critical dropouts, especially in the area not compensated for by your VTR, we developed a video tape you can rely on for all your applications.

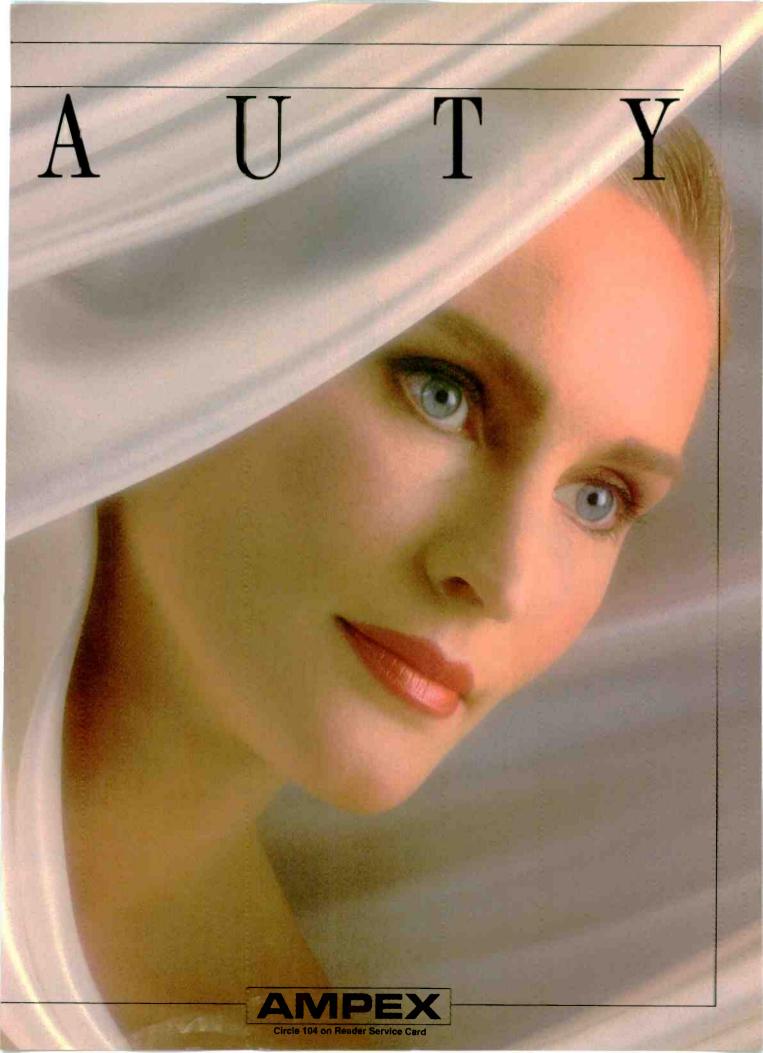
The secret behind our success is Ampex Process Management. APM is a unique manufacturing concept enabling us to control the consistency of the entire production process. From raw materials to finished products.

So you always get the cleanest, sharpest pictures time after time, reel after reel, carton after carton. That's why tap professionals around the world specify Ampex 196.

If you'd like to know more about how APM contributes to beautiful pictures, call or write Ampex today for a free brochure.

AMPEX

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Broadcast professionals recognize our products by more than what's on the outside.

When you use equipment that *responds* with precision and accuracy...

That gives you the *confidence* to achieve perfect execution again and again . . .

That's backed by a worldfamous *commitment* to innovation and customer support ...

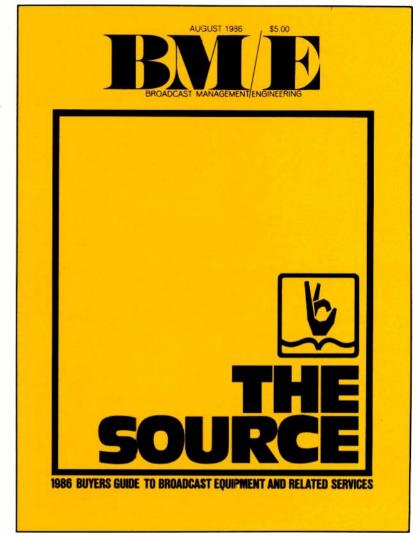
You know it's from Grass Valley Group.



STRENGTH YOU CAN RELY ON

PRODUCTION SWITCHERS EDITORS DIGITAL EFFECTS GRAPHICS SYSTEMS ROUTING SWITCHERS MASTER CONTROL/AUTOMATION SIGNAL PROCESSING/DISTRIBUTION/TIMING EQUIPMENT FIBER OPTICS





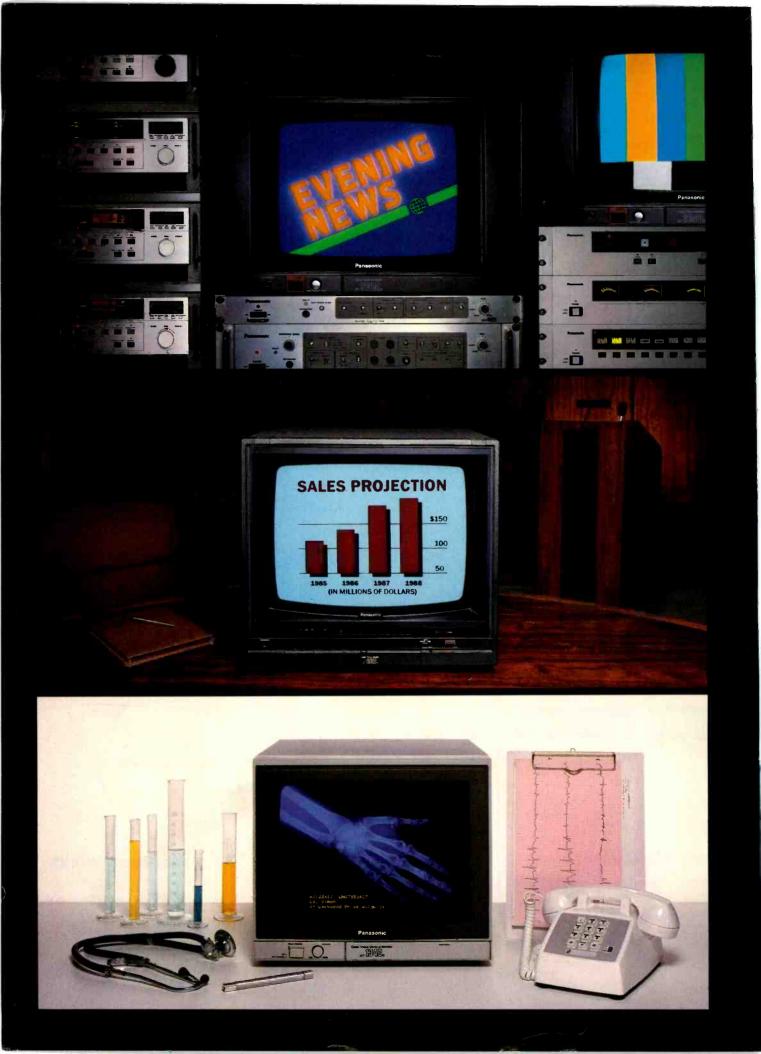
AUGUST 1986

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- Departments

The Source

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FROM THE NEWSROOM TO THE BOARDROOM TO THE OPERATING ROOM. PANASONIC MONITORS.

Video. More and mcre it's playing a larger role in entertainment, incustry, education, even medicine. That's why, no matter what your special application, all you need are the monitors in the Panasonic BT, CT and MT Series.

Our BT Series monitors are ideal for broadcas: because they all have the quality and important controls broadcasters

require. Like a normal/underscan switch that lets you select either the camera view or the actual monitor picture. Pulse-cross circuits for easy observation of sync detail. And blue only for easy chrominance adjustment. The 13" and 19" BT Series monitors (all screen sizes meas diag) have our special CompuFocus™ picture tube. Add to that a switchable comb filter and the result is increased definition and color sharpness.

Perhaps the most versatile of the BT Series are the 7" monitors. There's one that operates on both AC and DC so it's perfect for field use. Another model includes switchable line inputs, external sync terminals and is

Carles Contract

available as a single unit or in a dual rack.

Our CT monitors also come in a wide variety of configurations. You can choose from our 19" models. One comes with a tuner, and one can be used internationally because it lets you switch between NTSC, PAL and SECAM. The CT Series 13" and 14" monitors include

models with a built-in tuner, NTSC composite and RGB inputs for use with computer graphics. And when light weight and portability are important, there's the CT Series 5" monitor receiver.

For medical use, the MT-1340G conforms to the UL-544 standard. Its Data Grade in-line picture tube provides the precise resolution medical applications require. While RGB inputs assure you of critically accurate color reproduction.

By now it should be clear, no matter what your special application, the monitors in the BT, CT and MT Series have the right qualifications. Monitor pictures simulated.

For more information, call your nearest Panasonic regional office. Northeast: (201) 348-7620. Midwest: (312) 981-4826. Southeast: (404) 925-6835. Southwest: (214) 257-0763. West: (714) 895-7200. Northwest: (206) 251-5209.





Editorial

Station Trading Hurts

'It's the wrong kind of climate—it [station flipping] creates turmoil in the industry and forces the broadcaster to serve a heavy debt instead of the public interest.'

In recent years, the broadcast industry has come under the same aggressive attacks as many other sectors of our economy: corporate takeovers. This has led to what is being termed "station trading," with the implication that the broadcast property has become merely another commodity to be purchased, quickly exploited, and turned over for enormous profits. All in less than a year, sometimes even six months. In a conversation with BM/E, FCC Commissioner James Quello stated, "It's the wrong kind of climate—it [station flipping] creates turmoil in the industry and forces the broadcaster to serve a heavy debt instead of the public interest." Naturally, this chain of events leads to an influx of number crunchers, none of whom have a sincere interest in operating a broadcasting property.

An example of this shift in the "personality" of the industry: In the first half of 1985 over 400 radio stations were sold and 114 television stations were traded. Both these figures exceed the totals for the entire year of 1984!

Yet, the difference between the broadcast business and those other industries affected by takeovers is that, through the FCC, broadcasters can do something about it. Al Swift, a democratic congressman from Washington, is calling for a return to the threeyear rule, which provides that a license be held for at least three years before it can be traded. Though Swift says it doesn't have to be three years, we believe that anything less would not be effective. In addition to the loss of the three-year rule, there are three other factors that have contributed to rapid trading of broadcast properties: the trustee concept for hostile takeovers (which in the words of Quello can cause the net result to be something akin to greenmail), the 12-12-12 rule, and the requirement that one only needs to certify oneself as capable of meeting the financial requirements for operating a station rather than the old standard of having to prove one's economic stability.

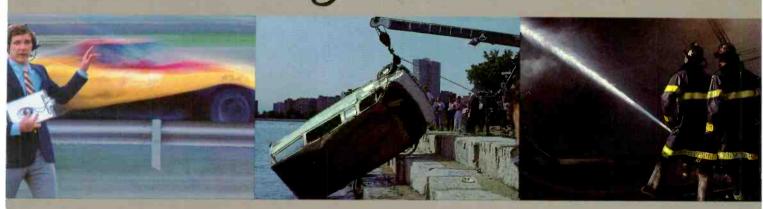
The 12-12-12 rule is not going to change, but all other considerations mentioned here can and should be changed. Broadcast property owners, employees, equipment suppliers, program producers, and all tangential businesses to the broadcast industry would benefit by the long-range planning and stability that would be created with a return to (at least) the three-year rule.

Tim Welmore

Tim Wetmore Editor

FIELD PRODUCTION

A special job demanding specialized products.



For your audio needs: a growing line of compact, easy-to-use FP amps and mixers.

Shure FP products are built specifically for ENG, EFP, film, and video work. They're not general audio products that "might" work on remotes. And no one offers as wide a selection with this kind of built-in ruggedness and reliability.



For Stereo Remotes. The FP32 Stereo Mixer is comparable in size and features to our famous FP31. Its stereo capability, light weight, easy-to-use controls and convenient shoulder harness make it the first choice of field crews. Our FP42 Stereo Mixer simplifies mic cueing, so important in situations like sports remotes. Plus it enables

you to easily mix down stereo in your post production booth. It offers all the features of the popular M267 plus stereo capability and a stereo headphone amp.



The Industry Standards. The FP31 is Shure's original field production mixer. Thousands bet their audio on it worldwide. The FP16, a one-by-six distribution amp with transformer balancing and link jacks, outperforms all competition. It's also ideal as a portable press bridge.



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For more information on the entire FP line, call or write Shure Brothers Inc , 222 Hartrey Avenue. Evanston. IL 60202-3696. (312) 866-2553.

BreakingSound Barriers

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Circle 107 on Reader Service Card

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The engineers at Ikegami have just enhanced the finest ENG component camera in the industry, by making it the most versatile. Now the Ikegami HL-95 camera head

Now the Ikegami HL-95 camera nead can be the crown jewel of your $\frac{1}{2}$ " Beta ENG system, as well as three other configurations including $\frac{3}{4}$ ", $\frac{1}{4}$ " and MII formats.

Considered by many as the most impressive and important hand-held camera breakthrough of the 80's, the HL-95 achieves total operational flexibility without compromising strict performance, sensitivity, resolution and registration.

Featuring registration stability without adjustment (proven over many weeks); better shoulder balance; better low light level sensitivity (1.5 ft. candles); better S/N for given low light levels (proven in exhaustive comparison tests); plus minimum maintenance, weight and power consumption. The lkegami HL-95 far outdistances any camera in its class. It's pure ENGenius.

For a demonstration of the HL-95 and other lkegami cameras and monitors, contact us or visit your local lkegami dealer.







Ikegami

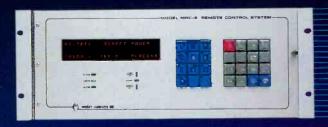
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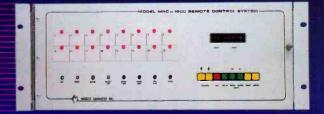
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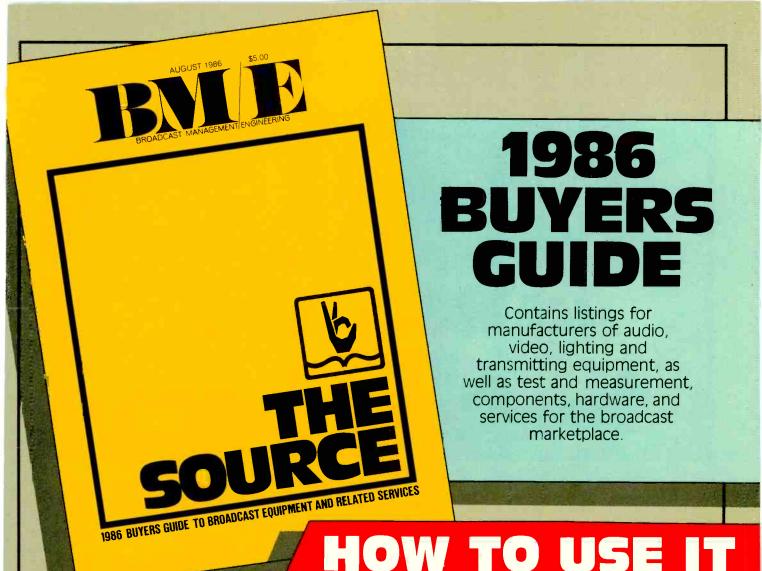
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INSTANT SOURCE LOCATOR

To find suppliers of the product or service you want, first turn to the *Instant Source Locator Index* which will guide you through the *Instant Source Locator (ISL)* itself. The over 200 product types are arranged in seven major categories (listed above), and you'll find manufacturers listed alphabetically. The numbers after the company name refer to the specific types of products offered.

LISTING OF MANUFACTURERS

Once you've located the names of the manufacturers in the ISL, you can learn more details from the *Alphabetical Listing of Manufacturers*. Address and phone number are followed by a complete listing of the company's product offerings, plus, in some cases, field offices. The "OK" symbol () means

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the listing is verified. Also, be sure to note the page number of the manufacturer's advertisement for more product information.

BROADCAST EQUIPMENT REPS

P. 143

Reps throughout the country are listed in the *Broadcast Equipment Reps section*, arranged alphabetically in five geographical zones.

READER SERVICE CARD

P. 153

To get even more information about the products and services that are advertised in *THE SOURCE*, use the *Reader Service Card* on page 153. You can circle the reader service numbers for the information on as many manufacturers as you like. And don't forget—the card is good for an entire year!

Mobile Satellite News Systems



-The Second Generation

M. 523

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At the 1986 NAB Show in Dallas, Midwest ushered in the SECOND GENERATION of Mobile Satellite News Systems, the S18... featuring the new Vertex 1.8M, Dual Reflector, Off-set Ku Antenna, specifically designed for this new service.

At the 1986 RTNDA Show in Salt Lake City, yet another Midwest innovation, the S-23, will be introduced, featuring a 2.6M version of the Vertex Antenna, with 50 dbi Gain and 35db of Cross Polar Isolation.

For more information on this remarkable new antenna technology, Midwest's modular TWT Power Amplifier Systems, and other SECOND GENERATION innovations, call us at 800-543-1584.

"SEE MIDWEST AT RTNDA BOOTH 259; OUTSIDE BOOTH G."



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Communications Corp. One Sperti Drive Edgewood, KY 41017 Circle 110 on Reader Service Card

INSTANT SOURCE LOCATOR

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1. RADIO/AUDIO

- A. Consoles
- B. Cart player/recorders
- C. Audio cassette player/recorders
- D. Open-reel decks
- E. Digital audio recorders
- F. Tape duplicators
- G. Magnetic film dubbers
- H. Audio heads/head accessories
- I. Audio tape/tape accessories
- J. Audio editors/synchronizers
- K. Disc playing equipment
- L. Program automation
- M. Radio business/newsroom automation
- N. Audio processing, noise reduction
- 0. Audio effects
- P. Audio monitors
- Q. Intercom systems
- R. Microphones
- S. Audio amplifiers
- T. Distribution/interface equipment
- U. Other radio/audio equipment

2. VIDEO/IMAGING

- A. Cameras
- B. Camera components
- C. VTRs, VCRs
- D. VTR heads/VTR accessories
- E. Videotape, film/tape accessories
- F. Still/slow motion recorders, animation
- G. Telecine/film equipment
- H. Electronic art/graphics
- I. Weather systems
- J. Production switchers
- K. Special effects
- L. Master control switchers
- M. Video routing switchers
- N. Machine control/technical automation
- 0. TV business/newsroom automation
- P. Video post-production
- Q. Video sync and signal generators
- R. Digital video processing
- S. Other video processing
- T. Video amplifiers
- U. Video monitors
- V. Other video equipment

3. LIGHTING; POWER; SUPPORT; SCENERY AND SET DESIGN; RACKS; CABINETS AND CONSOLES 33

- A. Lighting
- **B.** Power supplies
- C. Camera/microwave support
- D. Teleprompters

- E. Transportation cases
- F. Set design
- G. Studio furniture
- H. Cabinets
- I. Studio consoles
- J. Equipment racks
- K. Cart/tape storage

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- B. Exciters, generators, modulators
- C. RF power components
- **D.** Fiberoptic systems
- E. Satellite systems
- F. Microwave systems
- G. Antennas
- H. Transmission line
- I. Towers
- J. Transmitter remote control systems
- K. STLs, TSLs
- L. SCA equipment
- M. Slow-scan transmitters/receivers
- N. Two-way radio communications
- 0. Remote pickup equipment
- P. Other RF equipment

5. TEST & MEASUREMENT, LOCGING, TIMING 39

- A. Audio T&M
- B. Video T&M
- C. RF T&M
- D. General T&M
- E. Logging, monitoring
- F. Clocks, timing
- G. Other T&M, logging, timing equipment

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6. COMPONENTS, HARDWARE

- A. Wire, cable, connectors
- B. Tools
- C. Vacuum tubes
- D. Solid-state components
- E. Rectifiers
- F. Capacitors
- G. Transformers
- H. Surge protectors
- I. Hum bucking coils
- J. Quartz crystals
- K. Other components, hardware

7. SERVICES

- A. Video production facilities (stage/ studio rental)
- B. Mobile production facilities rental

G. Facilities design and engineering

C. Video post-production facilities

F. Equipment rental services

H. Set/studio design services

K. Earth station site selection

L. Mobile vehicle construction

0. Video/film stock shot library

P. Syndicated radio programming

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I. Engineering consultants

J. Financial consultants

M. Satellite time brokers

N. Music libraries

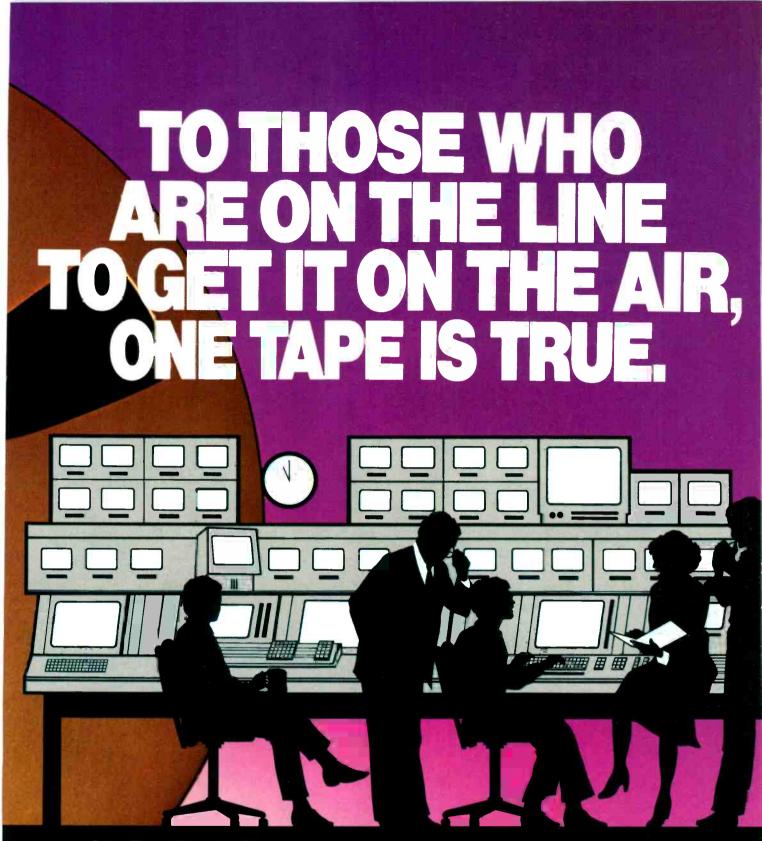
Q. Other services

D. Recording studios**E.** Audio post-production facilities

services

Scotch 480

One Tape for True Picture and Sound. To all those who have to get it on the air without fail, you need a tape you can turn to without fear. 3M 480 1" Videotape. Designed to deliver exceedingly low video dropout levels—and extremely high audio fidelity. To give you a true picture—and true sound.



One Tape Stands True.

1 1/5 S .

Getting you on the air without fail...that's what we've been doing since we invented videotape 30 years ago.

That's why we stand by you-with the largest support force in the field. And we stand behind you-with some of the most advanced research in the industry. All to keep our standing—as number one in the world of the pro.





JVC's CR-850U Editing VCR. It's

G

the one video dealers choose when selecting VCRs for 3⁄4″ editing. On-line systems. A-B roll sys-tems. Off-line systems. Remote vans. Rental departments. Newsroom editing. Computer graphics. Animation systems...Just a few of the applications where customers need the best, and dealers choose the CR-850U to make sure they get it.

Why the CR-850U? Excellent picture quality: the result of an increased S/N ratio, Y-688 dubbing, special noise reduction circuitry. Fast, accurate editing: the benefit reaped from the direct drive tape transport system and the separate SMPTE time code address track.

The new front load, rack-mount design with parallel and serial remote control capability allow easy interface with existing and new edit systems. Built-in self

diagnostic circuits with front panel test points speed maintenance and adjustments.

Dealers' choice, yes! But the odds are always in your favor, whatever your application, with the JVC CR-850U.

See your JVC Professional Video Dealer today or, for literature call toll-free:

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INSTANT SOURCE LOCATOR

1. RADIO/AUDIO

1.A. CONSOLES

TYPES:

Mic mixers (1 output)
 Portable consoles
 Mono studio consoles
 Stereo studio consoles

(5) Automated consoles(6) Audio-for-TV consoles(7) Video interface for consoles

SUPPLIERS:

ADM (3-7); AF Assoc. (6); ATI (1-4); Allen & Heath Brenell (2-4); Amek (2.4-7); Arrakis (1-4); Audio Design Calrec (2,4-6); Audio Kinetics (5); Audio-Technica (1,2); Auditronics (4,6); Autogram (3-6); Beyer (1); Biamp Systems (2,4); Broadcast Audio (4,6); Broadcast Electronics (1-4); Carvin (3,4); Central Dynamics (2); Coherent Comms (2); Comrex (2); Connectronics (2,4); dbx (1); Droid Works (6); Dyma Eng (1,2); Enertec (1-4,6); ESL (1); Electric Works (7); Fostex (1,2); Gotham (2,4-6); Graham-Patten (6); Grass Valley Group (6); HM Electronics (1,2); Hallikainen (6); Harrison Systems (2,4-7); Howe Audio (2,4,6); Industrial Research Pdcts (1); Integrated Sound (4); JVC (2,4); Klark-Teknik (1,4,6); LPB (1,3,4,6); Logitek (2-6); McCurdy (1,3,4,6); McMartin (1,3,4); Micro-Trak (1-3,6); NEI (1,4); Neve (2,4-6); Opamp (2,3,6); Orion (6); Pacific Recorders & Eng (2-4); Paltex (2-4,6); Portland Inst. (1,2); Protech (1); Quad Eight (4-6); Quantum Audio (2-4,6); Radio Systems (4); Ramko (1-4); Ramsa (1-4,6); Richmond (1-6); Russco (3); Schafer (1-5); Sescom (1); Shure (1,2); Solid State Logic (1-7); Sony Pro Audio (1,2,4-7); Sound Workshop (4-7); Soundcraft (4,6); Spectra Sonics (1-3); Studer Revox (2-4,6); TOA (2); TTC (3,4); Tangent (1,2,4); Tascam (1,2,4,6); Telfax Comms. (1,2); Temtron (1); Trident (4,5); Ultra Audio (1-4,6); Valley People (5); Ward-Beck (1-4,6); Wheatstone (3,4,6); Yamaha (1,2,4)

1.B. CART PLAYER/RECORDERS

TYPES: (1) Single decks

(4) Time delay decks(5) Phase control matrixing

(3) Multi decks

(2) Dual/triple decks

Audi-Cord (1,2,4); Broadcast Electronics (1-4); Continental Elec. (1); Enertec (1,2); Fidelipac (1,2,5); IGM (3); Int'l Tapetronics (1,2); Otari (1); Pacific Recorders (1); Radio Systems (1); Ramko (1,5); Schafer (3); TTC (1,2); Ultra Audio (1,3)

1.C. AUDIO CASSETTE PLAYER/RECORDERS

SUPPLIERS:

Fostex; Koss; Nakamichi; Old Dominion; SAE; Sansui; Sony Pro Audio; Studer Revox; Tandberg; Tape-Athon; Tascam; Technics; Telectro; Uher

1.D. OPEN-REEL DECKS

TYPES:

Portable ATRs
 2-/4-track studio ATRs

Rs (4) Time delay decks

(3) Multitrack ATRs

SUPPLIERS: AEG Corp. (2,3); Enertec (1,2); Fostex (2,3); Nagra (1); Otari (1-3); Scully (2); Sony Pro Audio (1-3); Soundcraft (3); Studer Revox (1-3); TTC (2,3); Tandberg (2); Tascam (2,3); Technics (2); Uher (1)

1.E. DIGITAL AUDIO RECORDERS

SUPPLIERS:

Adv. Music Systems; Audio Design Calrec; CompuSonics; Digital Broadcast Systems; For-A; Lexicon; MEI Electronics; Mitsubishi Pro Audio; Nakamichi; Optical Disc Corp.; Otari; Sansui; Sony Pro Audio; Studer Revox; Wide Range Electronics

1.F. TAPE DUPLICATORS

SUPPLIERS:

Accurate Sound; AEG Corp.; Cetec Gauss; Electro-Sound; Enertec; Garner; Otari; RKO; Telex Comms.

1.G. MAGNETIC FILM DUBBERS

SUPPLIERS:

Magna-Tech; Rank Cintel. Wide Range Electronics

1.H. AUDIO HEADS/HEAD ACCESSORIES

TYPES:

(1) Replacement heads
 (2) Rebuilt heads

SUPPLIERS:

AVSC (1,3); Allsop (3); Annis (3); Audi-Cord (1); Garner (3); Int'l Electro-Magnetics (1); JRF Magnetic Sciences (1,2); Marathon (3); Microtran (3); Nagra (1); Northern Magnetics (1-4); Nortronics (1); Old Dominion (2); Pacific Recorders & Eng (1); Protech (3); Saki (1); Sprague (1-4); TDK (3); Tentel (4), Texwipe (3); Tuber (1); Ultra Audio (1,4); VIF (3,4); Wide Range Electronics (1,3)

1.I. AUDIO TAPE/TAPE ACCESSORIES

TYPES:

- (1) Open-reel tape
- (2) Carts
- (3) Cassettes
- (4) Sprocketed mag film
- (5) Test tapes, leaders

(6) Empty reels, carts(7) Tape loaders, timers,

- rewinders
- (8) Tape cleaners, evaluators

(3) Head cleaners, degaussers

(4) Alignment, tension gauges

(9) Tape erasers, degaussers

SUPPLIERS:

AVSC (1,3); Allsop (3); Annis (3); Audi-Cord (1); Broadcast Electronics (7,9); Enertec (1,2,6,9); Garner (3); Int'l Electro-Magnetics (1); JRF Magnetic Sciences (1,2); Marathon (3); Microtran (3); Nagra (1); Northern Magnetics (1-4); Nortronics (1); Old Dominion (2); Pacific Recorders & Eng (1); Protech (3); Saki (1); Sprague (1-4); TDK (3); Tentel (4); Texwipe (3); Tuber (8,9); Ultra Audio (1,4); VIF (3,4); Wide Range Electronics (1,3)

1.J. AUDIO EDITORS/SYNCHRONIZERS

TYPES:

(1) Splicing blocks, tape
 (2) Electronic audio editors

(3) SMPTE time codesynchronizers(4) Editors for digital audio

SUPPLIERS:

AEG Corp. (2,3); Adams-Smith (2,3); Adv. Music Systems (2,4); Allsop (6); Alpha Audio (2,4); Audio Kinetics (2,3); CMX (2,4); Cipher Digital (2,3); Droid Works (2); Editron Australia (2-4); Electric Works (2,3); Evertz (3); Fostex (2); JVC (4); Lexicon (4); Marathon (1); New England Digital (3,4); Northern Magnetics (1); Shintron (3); Sony Pro Audio (4); Sprague (1); Studer Revox (2,3)

1.K. DISC PLAYING EQUIPMENT

TYPES:

(1) CD/DAD players (2) Turntables (3) Pickup arms

(4) Phono cartridges (5) Complete consoles (6) Record cleaning, care

SUPPLIERS:

AEG Corp. (2); AKG (4,6); Acoustic Research (2); Allied Broadcast (1); Audio-Technica (1); Broadcast Electrics (2); Gotham (1-5); Integrated Sound (2,5); JVC (2); LPB (2,3); McCurdy (2); McMartin (5); Micro-Trak (3,5); Pacific Recorders & Eng (5); Russco (2,3); SAE (1); Sansui (1); Schafer (1-3); Shure (1,4); Sono-Mag (1); Sony Pro Audio (1); Sprague (6); Stanton (4,6); Straight Wire Audio (1); Studer Revox (1); Tandberg (1); Technics (1-3); Teledyne (2)

1.L. PROGRAM AUTOMATION

TYPES:

(1) Relay sequencers

(3) Computer controllers

(2) Time insertion sequencers

(4) Automatic satellite switchers

(5) Complete program automation systems (6) Automatic time/weather announcers

SUPPLIERS:

Audichron (6); Automated Bdcst. Controls (5); Broadcast Electronics (3,4); CAT Systems (3,4); Conex (4); Electric Works (2,3); Gotham (3,5,6); IGM (3-5); MEI Electronics (3-5); Mid-America Automation (3); Monroe Electronics (4); ROH (6); Richmond (3,5); Schafer (1-6); Sentry (3-5); Sono-Mag (2-6); Tape-Athon (5); Ultra Audio (5); VIF (1); Videomedia (3,5)

RADIO BUSINESS/NEWSROOM MATON

TYPES:

(1) Business automation software

(2) Business automation hardware (3) Radio newsroom computers

(5) Graphic equalizers

(6) Audio/video sync delay

(7) Audio noise reduction

SUPPLIERS:

Applelog (1); Automated Bdcst. Controls (2); Basys (3); CBSI (1,2); Columbine (1-3); Data Comms. (1-3); Dynatech (3); Ficon (1); Generic Computer (1); Jefferson Pilot (1-3); Kaman (1,2); The Management (1); Media Computing (3); Nordic (1,2); Radio Computing (1); Register Data (1,2); Schafer (1,2); Summit Software (1); Telesource (3); Terminal Systems (1,3); Texscan (1,2); Vidcom (1,2)

.N. AUDIO PROCESSING, IOISE REDUCTION

TYPES:

(1) ALC, AGC amps (2) AM compressor/limiters (3) FM compressor/limiters (4) Parametric equalizers

SUPPLIERS:

AEG Corp. (7); ANT Telecomm. (7); ART (5); ATI (1-4); Adv. Music Systems (6); Altec (5); Aphex (1-3); Ashly Audio (2-5); Audio Design Calrec (1-3,4,5,7); Audio Kinetics (6); Audio Technology (7); Audioarts (2-5); Barcus-Berry (1-7); Biamp Systems (1,4,5); Bogen (5); Broadcast Audio (1-3); Broadcast Electronics (1-3); Circuit Research (1-3,7); dbx (1-5,7); Dolby (7); Dorrough (2,3); Elcom Bauer (1-3); Electro-Voice (5); Fostex (2,3,5); Gotham (1-5,7); Industrial Research Pdcts (4); Inovonics (1-3); Integrated Sound (5); Klark-Teknik (2,3,5,6); LPB (2,3); Learning (3); Lexicon (6); Logitek (1); Marcom (3); Marti (2,3); McCurdy (2,4); McMartin (1-3); Meyer Sound (4); Modular Audio (2,5); Modulation Sciences (3); Moseley Assocs (2,3); NEI (4,5); Opamp (7); Orban (1-4); Pacific Recorders & Eng (2-4)

Protech (1-3); ROH (1); Ramko (2,7); Ramsa (5); Richmond (1,5); SAE (4); SCV (3-5); Sansui (5); Sescom (1,4,5); Spectra Sonics (1-6); Symetrix (2-4,7); Technics (4); Valley People (1-4,7); Ward-Beck (4); White Instruments (5); Yamaha (5)

1.0. AUDIO EFFECTS

TYPES:

(1) Digital efx, reverb (2) Digital delay (3) Time compression/expansion (4) Analog efx, reverb (5) Music synthesizers

(2) Headphones

SUPPLIERS:

AKG (1,2,4); ART (1-3); Adv. Music Systems (1-3); Audio Design Calrec (4); Audio/Digital (2); Biamp Systems (4); Connectronics (4); Eventide (1-3); Fairlight (5); For-A (1); Fostex (4); Gotham (1,2); Industrial Research Pdcts (2); Integrated Sound (3); Klark-Teknik (1,2,4); Koss (2); Lexicon (1-3); Marshall Electronic (1-3); Moog (5); NEI (4); Orban (4); SCV (4); Sony Pro Audio (1); Studio Tech. (4,5); Tascam (1); Yamaha (1,2,5)

1.P. AUDIO MONITORS

TYPES: (1) Speakers

SUPPLIERS:

AKG (2); Acoustic Research (1); Altec (1); Anchor Audio (1); Atlas Sound (1); Auernheimer (1); Auratone (1); BES (1); BGW (1); Beyer (2); Bogen (1); Carvin (1); Choice Electronics (1); Clear-Com (2); David Člark (2); Electro-Voice (1); Fostex (1,2); Gotham (1); Integrated Sound (1); Koss (2); Logitek (1); Microlab (1); Meyer Sound (1); Philips Television (1); R-Columbia (2); ROH (1,2); Ramsa (1); Sennheiser (2); Setcom (2); Sony Pro Audio (1); Soundolier (1); Spectra Sonics (1); Studer Revox (1); Tannoy (1); Technical Projects (1); Technics (1); Telectro (1); Teledyne (1); Television Eqpt. Assocs. (2); Westlake Audio (1); Yamaha (1)

1.Q. INTERCOM SYSTEMS

TYPES

(1) Hardwired

SUPPLIERS:

AF Assoc. (1); Anchor Audio (1); Arus (1); Bogen (1); Cetec Vega (2); Clear-Com (1); Comrex (2); Comtek (2); David Clark (1); Enertec (1); Farrtronics (1); Fisher (1); Gentner Eng (1); HM Electronics (1,2); McCurdy (1); McMartin (2); Motorola C&E (2); Nady (2); Old Dominion (1); Pesa America (1); Protech (1); R. Columbia (1,2); ROH (1); RTS (1); Reach (2); Setcom (1); Soundolier (1); Swintek (2); TVI (1,2); Telectro (1); Televi sion Eqpt. Assocs. (1); Telex Comms. (1); Video Aids (1); Ward-Beck (1)

1.R. MICROPHONES

TYPES:

- (1) Dynamic (2) Electret/condenser (3) Ribbon (4) PZM (5) RF
- (6) Lavalier
- (7) Shotgun
- (8) Modular, capsule systems
- (9) Stereo mics
- (10) Mic stands, booms, dollies

SUPPLIERS:

ACO Pacific (2); AKG (1,2,5-10); Alan Gordon (5,10); Allied Broadcast (10); Altec (1,2,6); Anchor Audio (1); Atlas Sound (10); Audio Design Calrec (2,8,9); Audio-Technica (1,2,6,7,10); Beyer (1-8,10); Bogen (1,2,6); Bruel & Kjaer (2,9); Carvin (1); Cetec Vega (5); Coherent Comms (5,6); Comprehensive Video (1,2,6,7,10); Comtek (5); Countryman (2,4-6,9); Crown (2,4,6); Edcor (5); Electro-Voice (1,2,6,7); Fostex (1,3,9); Gotham (2,7,9,10); HM Electronics (1,2,5,6); Integrated Sound (1,2,7); JVC (7); Lectrosonics (5); Marti (1); Micron Audio (2,5,6,10); Nady (5); Ramsa (1,2,5,6); R. Columbia (1,2,5,6); (1,2); RF Technology (5); Samson (5); Sennheiser (1,2,5,7,8); Sharp (1); Shure (1,2,4,6,7,10); Sony Pro Audio (1,2,5-7); Spectra Sonics (6); Stanton (1); Swintek (5); Tascam (2); Telex Comms. (1,2,5,6); Yamaha (1)

(2) RF

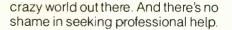
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1.S. AUDIO AMPLIFIERS

TYPES:

(1) Preamps (2) Line amps (3) Monitor/power amps (4) Amp power supplies

SUPPLIERS:

ACO Pacific (1,4); ATI (1-4); Altec (1-3); Ashly Audio (3); Audio Design Calrec (1-3); Audio Technology (2); Auditronics (1,2); BGW (3); Beyer (1-4); Biamp Systems (3); Bogen (1-3); Bonneville Media (2); Broadcast Audio (1-3); Bryston (1-3); Carvin (3); Central Dynamics (2); Conex (3); Connectronics (3); Crown (1,3); Datatek (1,2); Digimax (1); Edcor (2,3); Enertec (2-4); Fostex (2,3); Gotham (1,2); Howe Audio (1,3); ITI Electronics (2-4); Industrial Research Pdcts (3); Int'l Nuclear (1,2); Integrated Sound (3); Jensen Transformers (1-3); Lectrosonics (3); Lenco (3); Logitek (1-3); Marti (2,3); McCurdy (2-4); McMartin (1-3); Micro-Trak (1,3); Modular Audio (1-4); Modulation Sciences (2); Monroe Electronics (2); NEI (3); Pacific Recorders & Eng (1); Panasonic (3,4); Protech (1-4); QSC (3); ROH (1-4); RTS (1,2); Radio Systems (1-4); Ramko (1-3); Ramsa (4); Richmond (1-4); RTS (3); Russco (1,3); SAE (1,3); SCV (1,3,4); Sansui (1,2); Scientific Systems (1-3); Sescom (1-3); Shure (1,2); Sony Pro Audio (3); Spectra Sonics (1-4); Stanton (1); Straight Wire Audio (1,2,4); Studer Revox (3); Symetrix (3); Tandberg (1,3); Tannoy (3); Tape-Athon (2,3); Tascam (2); Technics (1,3); Telectro (4); Tuber (3); VIF (3); Valley People (1); Ward-Beck (1-4); World Video (3); Yamaha (3)

1.T. DISTRIBUTION/INTERFACE

TYPES:

(1) Audio DAs (2) Audio routing switchers (3) Audio patch panels; jackfields

(4) Telco interface equipment (5) Audio multi boxes, splitters

SUPPLIERS:

ADC Telecomm (3,4); ADM (1-3); AEG Corp. (4); AF Assoc. (3); ATI (1,2,5); Adv. Micro-Dynamics (1); Allied Broadcast (1); Arrakis (2); Audio Accessories (3); Audio Design Calrec (1); Auditronics (1,3); BSM (1,2); Bonneville Media (1); Bosch (1,2); Broadcast Audio (1); Broadcast Electronics (1,4); Channelmatic (1); Choice Electronics (3); Comrex (4); Conex (2); Connectronics (3); Datatek (1,2); Di-Tech (1,2); Dyma Eng (1-3,5); Dynair (1,2); ESE (1,4); ESL (4); Editron Australia (2); Enertec (1-3); Farrtronics (1,3); Gentner Eng (1-4); Gotham (2); Graham-Patten (1); Grass Valley Group (1,2); Hedco (1,2); Howe Audio (4); IMS (2); ITI Electronics (3); Int'l Nuclear (1,2); Intergroup Video (1); James Grunder (2); Leitch Video (1,2); Lenco (1); Logitek (1,2); Marcom (2); Micro-Trak (1); Modular Audio (1,2); Modulation Sciences (1); Monroe Electronics (4); Moseley Assocs (2); Mycomp Tech (1); Neve (1); Normex (4); Old Dominion (4); Omicron (1); Opamp (1,2); Orion (1,2); Pacific Recorders & Eng (1-3); Pesa America (1); Portland Inst. (1); R-Columbia (4); ROH (1-5); RTS (1,4); Radio Systems (1); Ramko (1,2); Richmond (1,2); Russco (1,4); SCV (4,5); Scientific Systems (1); Sescom (1,3,5); Shintron (1,2); Shure (5); Sierra Video (2); Sigma (1,2); Straight Wire Audio (1); Studer Revox (4); Switchcraft (3); Symetrix (4); Tascam (3); Telemet (1); Telfax Comms. (2,4); Texscan (1); Trompeter (3); Utah Scientific (1,2); Video Aids (1); Videotek (1); Ward-Beck (1-3)

1.U. OTHER RADIO/AUDIO EQUIPMENT

TYPES:

- (1) Rotary attenuators (2) Slide attenuators (3) VU meters (4) PPM meters
- (6) Video monitor displays (7) Soundproofing materials
- (8) EBS two-tone systems
- (9) Other radio/audio equipment
- (5) LED displays

SUPPLIERS:

ACO Pacific (9); ADC Telecomm (9); AKG (9); ATI (3-5); AVSC (9); Aphex (9); Audio Accessories (9); Audio Technology (3-5); Audio/Digital (9); Auditronics (4); B&B Systems (3,4); BGW (9); Barcus-Berry (9); Biamp Systems (9); Broadcast Audio (1-3); Bryston (5); Comrex (9); Conex (9); Dorrough (5); Duncan Electronics (2); ESE (3,5,8); Emergency Alert Receiver (8); Enertec (9); Farrtronics (3); For-A (9); Gorman-Redlich (8,9); Gotham (1-6); Graham-Patten (4); HM Electronics (9); Howe Audio (9); IMS (9); Inovonics (4,6); Int'l Nuclear (8); Jensen Transformers (9); Kay Elemetrics (1); Kintek (9); Lexicon (9); Logitek (5,9); McMartin (1,2,8); Mikrolab (3,9); Modular Audio (3-5); Modulation Sciences (9); Moseley Assocs (9); Motorola C&E (3,5); Nady (9); Pacific Recorders & Eng (3,4,9); Penny & Giles (1,2,9); Protech (2,5); R. Columbia (9); ROH (3,4); RTS (9); Radio Systems (5); Ramko (3-5); Real World (3,4,6); Roscor (9); Selco (3,4); Sescom (5); Shallco (1,2); Shure (9); Spectra Sonics (2,3,5); Straight Wire Audio (9); Studio Tech. (9); TFT (8); TTC (1,2); Tandberg (9); Terminal Systems (9); Valley People (9); Videotek (9); Ward-Beck (3,4)

2. VIDEO/IMAGING

2.A. CAMERAS

TYPES:

(1) Studio (30mm tubes) (2) Field (25mm tubes) (3) ENG (18mm tubes)

(4) Lightweight (13mm tubes)

- (6) CCD/MOS color cameras
- (7) Recorder/cameras
- (8) HDTV cameras
- (9) Monochrome cameras
- (5) Single-tube color cameras
- (10) Cine cameras

SUPPLIERS:

Alan Gordon (10); Ampex AVSD (3,6,7); Arriflex (10); Bosch (1-4,7); Cinema Products (10); Comtrex (9); EEV (9); Forox (10); Harris Broadcast Div. (1,3); Hitachi (1,3,5,6,9); Ikegami (1-3,6-9); JVC (2-5,7); Javelin (6); NEC America (6); Nisus (4-6); Panasonic (1-7,9); Panavision (10); Philips TV (1-3,7); Redlake (10); Sharp (3,5,7); Sony Broadcast (1,2,5,6-8); Sony Video (2,3,6,7,9); Temtron (5); Thomson Broadcast (2,3,7); Toshiba (1-3); Zellan (10)

2.B. CAMERA COMPONENTS

TYPES:

- (1) Lenses (2) Periscope lenses (3) Filters
- (4) Pickup tubes
- (5) Standalone CCUs
- (6) Lens remote control

SUPPLIERS:

Alan Gordon (1); Amperex (4); Angenieux (1); Anton/Bauer (5); Arriflex (1); Belden (3); Calvert (4); Canon (1); Century Precision (1,2); Cinema Products (1); EEV (4); Film/Video Equip. (1); Fujinon (1,6); J-Lab (5); Javelin (1); Panasonic (4); Panavision (1); Photo and Video (1); RCA New Products (4); Redlake (1); Schneider (1,3,6); Schwem (1); Tamron (2); Telemetrics (5,6); Temtron (4); Thomson Tubes (4); Tiffen (3); Warren R. Smith (1); Zellan (1)

2.C. VTRS, VCRS

TYPES:

- (1) One-inch B (2) One-inch C (3) 3/4-inch U (4) Betacam (5) M-format
- (6) Beta
- (7) VHS (8) Quarter-inch
- (9) MERPS multicassette deck

(4) Alignment, tension gauges

SUPPLIERS:

Alpha Video (3); Ampex AVSD (2,4,9); Asaca (9); Bosch (1,2,8); Channelmatic (9); Eigen (3); Hitachi (2); Hubbard (9); JVC (3); Lake Systems (9); Merlin (1-3,5,7); Odetics (9); PEP (7); Panasonic (3,5,7,9); Sansui (7); Sharp (7); Sony Broadcast (2-4,9); Sony Video (3,6); Thomson Broadcast (4)

2.D. VTR HEADS/VTR ACCESSORIES

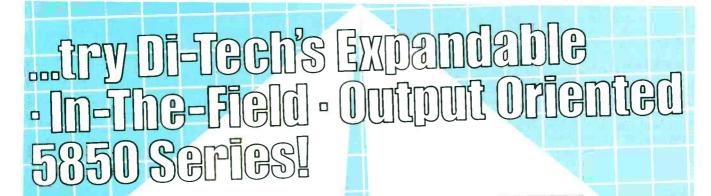
TYPES:

- (1) Replacement heads
- (2) Rebuilt heads (5) VTR refurbishing, rebuilding
- (3) Head cleaners, degaussers

SUPPLIERS:

AVSC (3,5); Allsop (3); Ampex AVSD (1,2,5); Annis (3); CMC Tech. (1,2); Comprehensive Video (3); Intl. Electro-Magnetics (1,2); Microtran (3); Saki (1); Spin Physics (1,5); Sprague (1-3); TDK (3); Taber (1,3); Tentel (4)

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2.E. VIDEOTAPE, FILM/TAPE ACCESSORIES

TYPES:

- (1) Two-inch tape
- (2) One-inch tape
- (3) ¾-inch cassettes
- (4) Half-inch cassettes
- (5) Film stock
- (6) Empty reels, carts, cases

SUPPLIERS:

3M Magnetic (1-4,6); ÅVSC (9); Agfa-Gevaert (3,4); Allsop (8); Ampex/Mag. Tape (1-4,6); Annis (9); Asaca (8); Audico (7,8); BASF (4); CMC Tech. (9); Calico Video (1); Comprehensive Video (3,4,9); Eastman Kodak (2-5); Elcon (8); Fuji Photo (2-4); Garner (9); JVC (4); King Instr. (7,8); Lipsner-Smith (10); Maxell (2-4); Maxima (4); Microtran (9); National Video Svce. (1,3,4); Neumade (6,10); Nova (8); Panasonic (3,4); Plastic Reel (6); Research Tech. Intl. (6,8-10); Smith-Victor (4); Sonar (9); Sony Magnetic (2-4,6,8); Studio Film (2-5); TDK (4); Television Equip. Assoc. (8); Wide Range (9)

2.F. STILL/SLOW MOTION RECORDERS, ANIMATION

TYPES:

Digital still store
 Magnetic disk recorder
 Optical disk recorder
 VTR slo-mo systems

(5) Video animation controllers(6) Animation stand motion control

(4) 35mm slide projector

(6) Telecine color corrector

(5) Optical multiplexer

(6) Bit pad digitizers

terminals (10)Film recorders

(7) Camera/VTR digitizers

(8) High-res screen cameras

(9) Teletext/closed captioning

(7) Tape loaders, timers,

(8) Tape cleaners, evaluators

(9) Tape erasers, degaussers

rewinders

(10)Film cleaners

SUPPLIERS:

Abekas (1); Alan Gordon (5); Alias Research (5); Ampex AVSD (1); Apert-Herzog (1,5); Artronics (1,5); Computer Graphics Labs (5); DSC (1,5); Eigen (4); Elicon (6); For-A (1); Forox (5,6); Harris Video Sys. (1); Interand (1); Lyon Lamb (5); NTI (1); Oktel (1,2); Panasonic (3); Precision Echo (3,5); Quantel (1); Rank Cintel (1); Scientific-Atlanta (1); Shintron (1); Sony Broadcast (4); Sony Video (1,3); TSM (6); Videomedia (5); Warren R. Smith (6); Woolley (5,6)

2.G. TELECINE/FILM EQUIPMENT

TYPES:

- (1) Solid state telecine systems(2) Telecine cameras
- (3) 16/35mm telecine projector
- SUPPLIERS:

AF Assoc. (1); Apert-Herzog (7); BHP (6); Bosch (1); Broadcast Video Systems (6); Buhl (5); Corp. Comm. Consultants (6,7); Dubner (6); Editron (7); Electric Works (7); Hubbard (1,2); Ikegami (1,2); Kalart Victor (3); Knox Video (6); L-W (3,5); Laird Telemedia (3-5); Magna-Tech (3); Magnasync (3); Multi-Track (1,3); Nytone (3,5,6); Panasonic (2); Photo and Video (4); Radmar (3); Rangertone (1-5,7); Rank Cintel (1,6,7); Steenbeck (1); Thomson Broadcast (1,6); Videoplex (5); Zei-Mark (3-6)

2.H. ELECTRONIC ART/GRAPHICS

TYPES:

 Titlers, subtitlers
 Character generator/ graphics system
 Digital art/paint system
 3D modeling and manipulation
 "Draw on screen" systems

SUPPLIERS:

3M Broadcasting (1-3,7); Alias Research (3,4,10); Ampex AVSD (2-4); Artronics (3,4); Aston (2); Aurora (2-5); Bosch (2-5); Choice Elec. (1); Chyron (2,3); ColorGraphics (2-4); Computer Graphics Labs (2,3); Cubicomp (3,4); Dubner (2-4); EEG (9); Elicon (2,4,6); Evertz (1); For-A (1,5); Forox (10); Grass Valley Group (1-5); Harris Video Sys. (3); Inovion (3); Integrated Tech. (2-6); Interand (2,5); JVC (2); Knox Video (1,2); Laird Telemedia (1,2); MPB (2); Media Computing (2); Mindset (1,2); Multidyne (1); Mycro-Tek (1,2); Norpak (2,3,5,7,9); Panasonic (1,9); Pesa (2); Quanta (1-4); Quantel (2,3); Sansui (1); Sony Video (2,6,7); Symtec (1-3,6,7); Texscan (1,9); Thomson Broadcast (2-4); Vectrix (3); Video Aids (3); Video Data (9); Wavefront (3); Xiphias (3)

2.I. WEATHER SYSTEMS

TYPES:

Weather graphics displays
 Satellite displays
 Weather radar displays

(4) Weather symbol inserters

(5) Weather-based art/paint systems(6) Lightning detection and display

SUPPLIERS:

3M Stormscope (6); ADC (1,3,5); Accu-Weather (1-3,7); Advanced Designs (1,3,5); Alden (1-3); ColorGraphics (1,5); Dubner (1); Enterprise Elec. (1-3); Environmental Sat. Data (1-6); Grass Valley Group (5); Integrated Tech. (1-3,5); Kavouras (1-5); RScan (2,6); Register Data (3); Technology Svce. (1-3); Texscan (1); Thomson Broadcast (1); WeatherBank (1,2)

2.J. PRODUCTION SWITCHERS

TYPES:

(1) Portable units(2) Compact, studio/mobile units

(3) Large, automated systems(4) Post-production switchers(5) Operating the system

(6) Encoded chromakeyers

(8) Downstream keyers

(9) Non-additive keyers

(7) Title keyers

(5) Component switchers

SUPPLIERS: Alta (1,4); Ampex AVSD (3,4); Asaca (1,2); Beaveronics (2); Bosch (2-5); Central Dynamics (1-4); Crosspoint Latch (2-4); DSC (4); Echolab (1,2,4); For-A (4,5); Grass Valley Group (2-5); InterGroup (1-4); Kaitronics (2); Lang (1); Listec (2); Matrix (3); Panasonic (1,2);

(1-4); Kaitronics (2); Lang (1); Listec (2); Matrix (3); Panasonic (1,2); QSI (2); Ross Video (1-4); Shintron (2,4,5); Sony Video (1); Technov (1); Thomson Broadcast (2); Toshiba (2); Universal Elecon (5); Viscount (2); Vital (2,3)

2.K. SPECIAL EFFECTS

TYPES:

- (1) Digital efx generators
- (2) Compressor/positioners
- (3) Standalone analog efx
- (4) Colorizers
- (5) RGB chromakeyers

SUPPLIERS:

Abekas (1); Alta (1,4); Ampex AVSD (1); Beaveronics (5,7,8); Broadcast Video Systems (5,7-9); Central Dynamics (2-8); Chyron (1); Computer Graphics Labs (1); Comtrex (7); DSC (1); Echolab (1); For-A (1,2,5,6,8); GML (1); Graham-Patten (8); Grass Valley Group (1); Harris Broadcast Div. (1,2); Harris Video Sys. (1); Image Video (8); Inovion (1); InterGroup (1,4-6,8); Intl. Nuclear (8); JVC (3,5); James Grunder (1,2); Knox Video (4,7-9); Listec (8); Microtime (1-3); NEC America (1); Panasonic (3,5,7); Precision Echo (2); Prime Image (1); Quantel (1); Shintron (1,2,4-6,8); Sierra (5,7,8); Sony Video (3,8); Telemet (5,6); Ultimatte (5,8); Universal Elecon (7); Viscount (1); Vital (1,3,5,7)

2.L. MASTER CONTROL SWITCHERS

TYPES:

(1) Manual(2) Automated

(3) Business automation interfaced

SUPPLIERS:

Alamar (1,3); Ampex AVSD (2); Bosch (1,2); CCI (1-3); Central Dynamics (1-3); Grass Valley Group (1,2); Image Video (1); InterGroup (1,2); Intl. Nuclear (1); Kaitronics (1); Omicron (1); Panasonic (1); Utah Scientific (1-3); Viscount (1); Vital (1-3)

2.M. VIDEO ROUTING SWITCHERS

TYPES: (1) Parallel interface

(2) Serial interface

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SUPPLIERS:

3M Broadcasting (1,2); ABP (1); Amtel (1,2); BSM (1,2); Bosch (1,2); CCI (1,2); Central Dynamics (1,2); Channelmatic (1); Datatek (1,2); Dyma (1,2); Grass Valley Group (1); Hedco (1,2); Image Video (1,2); InterGroup (1,2); Intl. Nuclear (1); James Grunder (2); Kaitronics (1,2); Leitch (1,2); Lenco (1,2); Matrix (1,2); Mycomp (1,2); Omicron (1); Orion (2); Shintron (1,2); Sierra (2); Telemet (1); Universal Elecon (1,2); Utah Scientific (2); Vital (2)

2.N. MACHINE CONTROL/TECHNICAL AUTOMATION

TYPES:

(1) Parallel interface(2) Serial interface

(3) Vertical interval systems

SUPPLIERS:

3M Broadcasting (1-3); Alamar (1,2); Auburn (1); Audio Kinetics (1,2); Bosch (1-3); CCI (1-3); Cat Systems (1,2); Channelmatic (1,2); Commercial Comm. (3); Electric Works (3); Grass Valley Group (1); Grumman (1,2); Image Video (1,2); Lake Systems (1-3); Merlin (1-3); NES (1,2); Norpak (3); Orion (3); Tech Electronics (1,2); Texscan (1); United Media (1-3); Utah Scientific (2); Videomedia (1-3)

2.0. TV BUSINESS/NEWSROOM

TYPES:

(1) Business automation software

(2) Business automation hardware(3) TV newsroom computers

SUPPLIERS:

Basys (3); CCl (1,2); Columbine (1-3); Comtrex (1); Data Comm. Corp. (1-3); Dynatech (3); Jefferson Pilot (1-3); Kaman (1,2); Media Computing (3); Norpak (1); Orion (2); Summit (1); TUI (1); Telesource (3); Terminal (3); Texscan (1,2); Utah Scientific (1,2); VariCom (1); Vidcom Intl. (1,2); Videomedia (1,2)

2.P. VIDEO POST-PRODUCTION

TYPES:

 Time code synchronizers
 Two-machine editor/controllers
 A/B-roll editors (4) Multisource editors
(5) SMPTE time code
generator/readers
(6) VITC reader/generators

SUPPLIERS:

Acquis (2-5); Adams-Smith (1-6); Amherst (2); Ampex AVSD (4); Amtel (1,5,6); BHP (2-4); CMX (3,4); Calaway (3); Cipher Digital (1,2,5); Coherent Comm. (5); Convergence (2-5); Datum (5,6); Droid Works (4); EECO (2-6); EEG (5); ESE (2,5); Editron (1,4); Electric Works (2,3,5,6); Evertz (1,5,6); For-A (5,6); Grass Valley Group (2,4); Gray Engineering (5,6); JVC (2); Magna-Tech (5); Multi-Track (1,5); Multidyne (5); Paltex (2-4); Panasonic (2-5); Research Tech. Intl. (6); Shintron (1,5,6); Skotel (5,6); Sony Broadcast (2-4,6); Sony Video (3); Technov (2); Telcom (5,6); United Media (1-5); Universal Elecon (4,5); Videomedia (1-6); Vital (1,5); Wide Range (5)

2.Q. VIDEO SYNC AND SIGNAL GENERATORS (ALSO SEE TEST AND MEASUREMENT SECTION)

TYPES:

(1) Sync(2) Black burst(3) Color bars(4) SID

(5) Safe title area(6) Video slateboard/countdown

SUPPLIERS:

3M Broadcasting (1-3); Adams-Smith (1); Amtel (6); Asaca (1-3); Bosch (1); Broadcast Video Systems (3,5); CCI (1); Colorado Video (1); Crosspoint Latch (1-3); Datatek (4); Datum (4); Dyma (1-3,6); EEG (4); Evertz (6); Grass Valley Group (1); Gray Engineering (5); Intl. Nuclear (2); J-Lab (5); Javelin (4); Lang (4); Leader (1-3); Leitch (1-3,5); Lenco (1-3,5); Listec (1-3,5); Multidyne (1-6); Newton (1,3) Omicron (1-3); Optical Disc (3); Philips T&M (1,3); Philips TV (1); QSI (2-4,6); Real World (5); Rohde & Schwarz/Polarad (1,3); Shintron (2); Sierra (3); Sigma (1-6); Technov (1,2); Tektronix (1-3); Telemet (3); Videotek (1-3)

(8) Color correctors (also see

(9) Video multiprocessors

(10) Standards converters

(12) A/D & D/A converters

(11) Video/audio sync delay

Telecine category)

2.R. DIGITAL VIDEO PROCESSING

TYPES:

- (1) TBCs
- (2) Field synchronizers(3) Frame synchronizers
- (4) Field/framestores
- (5) TBC/framestores
- (6) Noise reducers
- (7) Image enhancers

SUPPLIERS:

AF Assoc. (10); Alta (1,2,4); Amherst (1); Ampex AVSD (1); Apert-Herzog (1,4); Applied Digital Tech. (8); Bosch (6); Broadcast Video Systems (8); Colorado Video (4,6); Comtrex (10); Crosspoint Latch (1); Eigen (4,7); Faroudja (6-8); For-A (1,3-5,8); Fortel (1-8); GML (5); Harris Broadcast Div. (1,3-6); Harris Video Sys. (1,3,5,6); James Grunder (1-8,10); Leitch (3,11); Lenco (1); Merlin (10); Microtime (1,3,5,7); NEC America (3); nova (1,5); Oki (10); Prime Image (1,3); Quality Video (9); Quantel (3,10); Rank Cintel (4); Scientific-Atlanta (1,3-5); Shintron (3,5,10); Sony Broadcast (1); Tektronix (1-5); Thomson Broadcast (8); Toshiba (3,11); Universal Elecon (3); Video Intl. (10)

2.5. OTHER VIDEO PROCESSING

TYPES:

- (1) NTSC encoders
- (2) Decoders
- (3) Comb filter decoders
- (4) Video delay lines

SUPPLIERS:

AF Assoc. (3): Allen Avionics (4,5,7); Alta (6); Andersen Labs. (4); Asaca (1,2); Barco (2,3); Bosch (1); Broadcast Video Systems (1,4,5); Coastcom (5); Di-Tech (7); Dynair (7); Electrohome (2); Faroudja (1-3); For-A (1,2); Grass Valley Group (7); Integrated Tech. (1); Interand (2); Leitch (3,4,7); Lenco (1-4,6,7); Listec (1); Lyon Lamb (1); Microwave Filter (5); Multidyne (7); Quante (1); TTE (5); Technov (2); Tektronix (2,3); Telemet (2,3,7); Television Equip. Assoc. (4,5,7); UHF (5); Videotek (7)

2.T. VIDEO AMPLIFIERS

TYPES:

(1) Proc amps(2) Video DAs

(3) Pulse amps(4) Subcarrier amps

(5) Video filters

(6) Dropout compensators

(7) Video/cable equalizers

SUPPLIERS:

3M Broadcasting (1,2); Apert-Herzog (2); BSM (2); Bosch (2-4); Central Dynamics (1-4); Datatek (1-4); Di-Tech (2,3); Dyma (1-4); Dynair (2-4); ESE (2); For-A (2); Graham-Patten (2-4); Grass Valley Group (1-3); Hedco (2-4); Image Video (2); InterGroup (2-4); Intl. Microwave (3,4); Intl. Nuclear (2,3); Javelin (2); Knox Video (1); Leitch (1-4); Lenco (1-4); Multidyne (2-4); Mycomp (2); Omicron (2-4); Opamp (2,3); Panasonic (2); OSI (2); Shintron (2,4); Sierra (2); Sigma (1-4); Technov (2); Telemet (2,3); Television Equip. Assoc. (2); Texscan (2); Utah Scientific (2); Videotek (2-4); Vital (2,3)

2.U. VIDEO MONITORS

TYPES:

(3) RGB

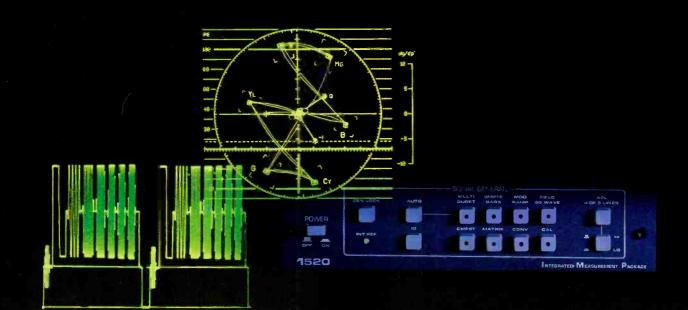
- (1) Monochrome
- (2) NTSC

(4) High resolution

- (5) Wide aspect ratio(6) Battery-powered portable
- (7) Video projectors
- (8) Monitor calibrators

SUPPLIERS:

Amtron (3,4). Asaca (2,3,6,8); Barco (1-6); Bosch (2,3); Conrac (1-4);ac (1-4); Elector (2,4,7); Electrohome (1-4,7); GE (7); Hitachi (1); Ikegami (1-6); Image Amplification (7); JVC (1-4); James Grunder (2,3,4); Javelin (1,2); Leader (6); Lenco (1,2); Listec (1); Norpak (3); Panasonic (1,2,6,7); Pesa (2,4); Sansui (2); Sharp (2-4,7); Sony



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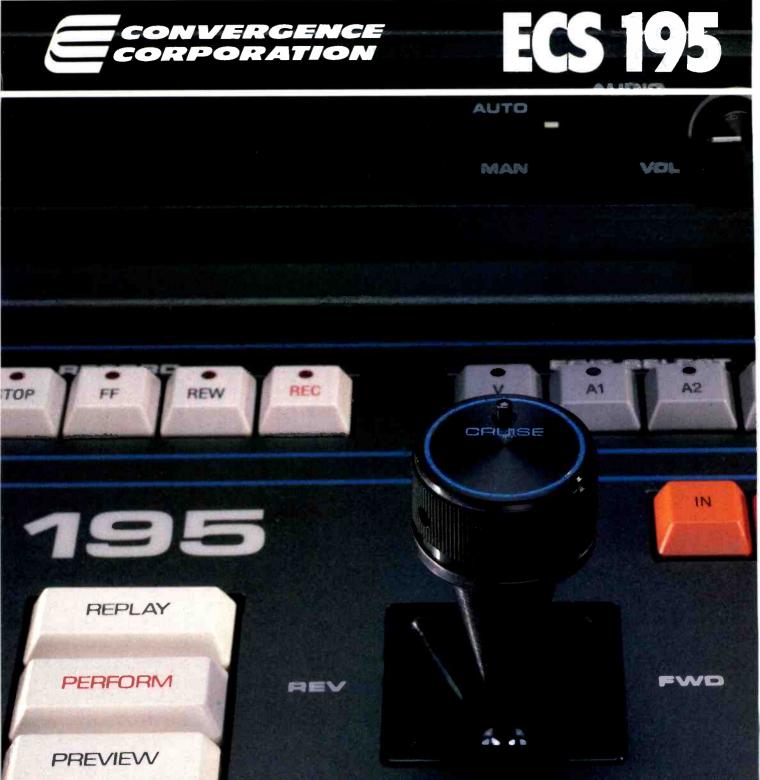
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Broadcast (2-4,6); Sony Video (1-4,6,7); Tektronix (2-4); Television Equip. Assoc. (8); Videotek (1-4,6)

2.V. OTHER VIDEO EQUIPMENT

SUPPLIERS:

AF Assoc.; Abekas; Broadcast Video Systems; Buhl; Cavendish; Central Dynamics; Choice Elec.; Digimax; EECO; Electrohome; Farrtronics; Grumman; Image Video; J-Lab; Jem-Fab; Leitch; Lenco; Listec; Mycomp; Norpak; Optical Disc; Penny & Giles; Pioneer Electronics; Quantel; Rank Cintel; Roscor; Sansui; Sierra; Sony Broadcast; Sony Video; Tech Electronics; Technov; Tektronix; Terminal; Vid Video; VideoLab

3. LIGHTING; POWER; SUPPORT; SCENERY and SET DESIGN; RACKS, CABINETS and CONSOLES

3.A. LIGHTING

TYPES:

(1) Lamps (2) HMI, CSI fixtures (3) Quartz fixtures (4) Cyc lighting

SUPPLIERS:

Anton/Bauer (1); Arriflex (2,3); BW Lighting (1,3,4); Barbizon (1-8); Bardwell (3-6); Belden (5); Bogen (6); Cine 60 (3); Cinemills (1,2 5); Colortran (2,3,4,6-8); Comprehensive Video (1,5,6,8); Cool-Lux (1-3,6,8); Desisti (1-4,6,8); Dyma (1,4,7,8); Electro Controls (1,8); Electronics Diversified (7,8); Frezzolini (1,3,6); GE (1); GTE (1); Great American Market (1-7); Keylite (1-8); Klark-Teknik (6-8); Kliegl (2-4,7,8); LTM (2,6,8); Lighting Methods (1-8); Lowel-Light (3,6); Matthews Studio (5,6); Mole-Richardson (1-8); North American Philips (1,3); Olesen (1,2,5-8); Osram (2); PAG (2); Packaged Lighting (1,3-8); Perrott (3); Phoebus (2,3); Polites (7); Pro Battery (1,2,5,6); Rainbo (5,7); Rosco (5); SLD (1,3-8); Smith-Victor (1,3,5,6); Strand Lighting (1-8); TBA (2,7); Teatronics (1,3,4,6-8); Temtron (3); Theatre Service (1-8); Ultimate Support (6); Union (7,8)

(5) Diffusion, efx material

(6) Lighting stands, rigging

(7) Lighting control boards

(8) Dimmer packs

3.B. POWER SUPPLIES

TYPES:

- (1) Nicad batteries, chargers
- (2) Silver-zinc batteries, chargers
- (3) Lead-acid batteries, chargers
- (4) Power generators

SUPPLIERS:

Alan Gordon (1); Alexander (1); Anton/Bauer (1,2,5); Cine 60 (1); Comprehensive Video (1,3); Cool-Lux (1-3); Desisti (6); Digimax (1); Film/ Video Eqpt. (1,3); Frezzolini (1,3,7); Great American Market (3,6); Kay Industries (4); LTM (6); Mole-Richardson (1,3,4,6,7); Motorola C&E (1,4); Norac (4); North Wind (3,4,7); Onan (4); PAG (1); PEP (1); Pacific Power (4); Paco (1); Perrott (1-3); Portable Energy (1,3); Pro Battery (1,3,6); Redlake (3); Teledyne Energy (4); Universal Elecon (1); Vanner (7); Yardney (2)

3.C. CAMERA/MICROWAVE SUPPORT

TYPES:

- (1) Tripods, heads
- (2) Pedestals
- (3) ENG braces
- (4) Dollies
- (5) Cranes, jibs

(5) AC power dividers

(7) Ac/dc converters, inverters

(6) HMI ballasts

- (6) Camera stabilizing systems
- (7) Helicopters, rigs
 - (8) Remote pan/tilt systems

SUPPLIERS:

Alan Gordon (1,4,5); Arben (4,5); Arriflex (5,6); Bardwell (1); Birns (1); Bogen (1,4); Cine 60 (3); Cinema Products (1,6,8); Comprehensive Video (1,4); Davis & Sanford (1,2,4); Dyma (1,4); ENG Corp. (8); ENG Heli (7); Elicon (8); Innovative TV Equip. (1,4,8); Javelin (8); Karl Heitz (1,4); Matthews Studio (4,5,8); Miller Pro. (1,4); Nurad (2,8); O'Connor (1,4); Quick Set (1,2,4,8); Redlake (1); Sachtler (1-4); Skyworks (8); Smith-Victor (1); TSM (6,8); Telemetrics (5,8); Tyler (6,7); Vinten (1-5,8); Zellan (4,7)

3.D. TELEPROMPTERS

TYPES

(1) Monitor based (2) Scroll entry

(3) Keyboard entry (4) ENG/EFP portable

SUPPLIERS:

Choice (1); Cinema Products (2,4); Compu = prompt (1-4); Computer Prompting (1,3); Listec (1-4); Media Computing (1,3), Q-TV (1-4); Tekskil (1-4); Telescript (1)

3.E. TRANSPORTATION CASES

TYPES:

(1) Foam insert (2) Padded nylon

(3) Rack configuration (4) Editing/production consoles

SUPPLIERS:

ABP (1-4); Anvil (1,3); Bal (1); Calzone (1,3,4); Comprehensive Video (1,3); Cool-Lux (1); Dyma (1,3,4); Emcor (3); Environmental Container (1,3); Excalibur (1-4); Fiberbilt (1,3), Hardigg (1,3); Innovative TV Equip. (1); Jensen (1); K&H (2); Kangaroo (2); Mobile-Cam (2); Mole-Richardson (1); O'Connor (1); Porta-Brace (2); Star Case (1,3); Telepak (2); Thermodyne (1,3); Viking (1,3,4)

3.F. SET DESIGN

TYPES:

(1) Modular news, studio sets (2) Scenery construction (3) Scenery rigging

(4) Props, materials (5) Set design service

SUPPLIERS:

Arben (1,2,4,5); BW Lighting (3,4) Fantasee (5); Fiorentino (4,5); Graphic Express (1-5); Grinnan (5); Grosh (2,3); Janson (3); Jem-Fab (1); Rosco (4); Syracuse Scenery (3); Theatre Service (2-4); Uni-Set (1.5)

3.G. STUDIO FURNITURE

SUPPLIERS:

ABP; Arrakis; Broadcast Systems; Comprehensive Video; Delcom; Graphic Express; Jem-Fab; Micro-Trak; Omnimount; Pacific Recorders; Radio Systems; Ram Bdcst.; Ruslang; Winsted

3.H. CABINETS

SUPPLIERS:

A&S Case; ABP; Amco; Bretford; Broadcast Systems; Comprehensive Video: Delcom; Emcor; Enclosure; Graphic Express; Grinnan; Jem-Fab; Micro-Trak; Mobile-Cam; Neumade; Optima; Pacific Recorders; Ram Bdcst.; Scientific-Atlanta; Soundolier; Stantron; Storeel; Wallach; Wilson; Winsted

3.I. STUDIO CONSOLES

SUPPLIERS:

A&S Case; Allied Broadcast; Arrak:s; Broadcast Supply West; Dyma; Fidelipac; Micro-Trak; Neumade; Pacific Recorders; Plastic Reel; Ram Bdcst.; Ruslang; Stantron; Storeel; Wallach; Wilson; Winsted

3.J. EQUIPMENT RACKS

SUPPLIERS:

A&S Case; ABP; Avcom; Broadcast Systems; dbx; Delcom; Electronics Diversified; Emcor; Enclosure; Jem-Fab; Micro-Trak; Mobile-Cam; Optima; Pacific Recorders; Packaged Lighting; Plastic Reel; Ram Bdcst.; Rosccr; Ruslang; Scientific-Atlanta; Soundolier; Spectra Sonics; Stantron; Viking; Wallach; Winsted

3.K. CART/TAPE STORAGE

SUPPLIERS:

A&S Case; Allied Broadcast; Arrakis; Broadcast Supply West; Dyma; Fidelipac; Micro-Trak; Neumade; Pacific Recorders; Plastic Reel; Ram Bdcst.; Ruslang; Stantron; Storeel; Wallach; Wilson; Winsted

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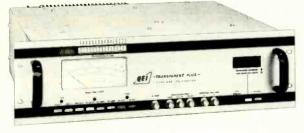
The 695 is an exciter without equal ... in quality sound ... in versatility ... and in value. Any type of distortion you can name (THD, TIM, IMD) is less than .025 percent. This isn't an environmentally controlled lab figure, but rather one that is measurable over the operating temperature range of the equipment. Moreover, noise is so low that it's virtually impossible to measure.

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4. TRANSMITTING/RECEIVING EQUIPMENT; SATELLITE SYSTEMS; ANTENNAS and TOWERS

4.A. TRANSMITTERS

TYPES: (1) AM (2) FM

(3) VHF

(4) UHF

(5)	LPTV
(6)	MDS
(7)	Translators

SUPPLIERS:

AEG Bayly (1); Acrodyne (3-5,7); Broadcast Electronics (2); CSI (1,2); Comark (1-4); Continental (1,2); Continental Elec. (5); Elcom (1,2); Emcee (3-7); Harris Broadcast (1-4); ITS (4,6); Information Trans. (4-6); Intl. Teletronics (2); Itelco (2-5); Larcan (2,3,7); MCL (2-5); McMartin (1-4); Micro Controls (1,2); NEC America (2-4); Nautel (1); Pesa (5,7); Philips TV (2-4); QEI (2); Radio Sys. (1); Rohde & Schwarz/Polarad (1-4); Tepco (7); Thomson-LGT (2-5,7); Townsend (3-7)

4.B. EXCITERS, GENERATORS, MODULATORS

TYPES:

- AM exciters
 AM stereo exciters
 FM exciters
 TV exciters
- (5) Stereo generators(6) Diplexers(7) Multiplexers(8) Modulators

SUPPLIERS:

AEG Bayly (3); Acrodyne (4); Blonder-Tongue (8); Broadcast Electronics (2,3,5); Broadcast Microwave (6,7); CSI (5); Catel (5,8); Circuit Research (5); Coastcom (6); Comark (4,6-8); Continental (3,6); DX (8); Delta (2); Dielectric (6,7); Drake (8); Elcom (3,6,7); Harris Broadcast (1-5); ITS (4); Information Trans. (4); Inovonics (5); Intl. Microwave (6,8); Intl. Teletronics (3,5); Itelco (3-6,8); Javelin (8); Kahn (2); LNR (3); Larcan (3,4,6); Learning (5,6); M/A-Com Tele. (8); Magnavox (2); Marcom (5); McMartin (1,3,5,8); Micro Comm. (6,7); Modulation Assoc. (6-8); Modulation Sciences (5); Moseley (5); Motorola AM (2); Orban (5); Pesa (8); Philips TV (3,4); Power Pak (3,5); QEI (3,5); RF Specialty (6); Rohde & Schwarz/Polarad (3,4,8); Scientific-Atlanta (5,8); Shively (6,7); Singer (3,5); TFT (2); Tectan (6,7); Telemet (8); Thomson-LGT (3,4,6,7); Townsend (4-7); UHF (8); Universal Elecon (5,8); Vector (6); Wegener (7,8)

4.C. RF POWER COMPONENTS

TYPES:

(1) RF amplifiers
 (2) RF tubes
 (3) RF attenuators
 (4) RF converters

(5) RF filters(6) RF loads(7) RF switches

SUPPLIERS:

AEG Bayly (1,7); Acrodyne (1); Altronic (6); Andersen (5); Avcom (1); Bird (3,5-7); Blonder-Tongue (1,3-5); Broadcast Electronics (1); Broadcast Microwave (1,3,5); Calvert (1,2); Catel (1,4); Coaxial (6); Comark (1-7); Continental (6); DX (1,3,4); Dielectric (5-7); EEV (1,2); Econco (2); Electro Impulse (3,6); Harris Broadcast (1,6,7); ITT (7); Intl. Microwave (1,4,5,7); Itelco (1,4,5,7); Jampro (5); Kay Elemetrics (3,7); MCL (1,7); McMartin (1,5); Micro Comm. (5-7); Microwave Filter (5); Motorola C&E (1-3); Mu-Del (1,3-5); Power Pak (1); RCA New Prod. (1,2); RF Specialty (5-7); SWR (7); Shively (5-7); Temtron (2); Tepco (1,5); Thomson Tubes (2); Townsend (1,2,5-7); UHF (5); Universal Elecon (4); Vacuum Tube (2); Varian Microwave Equip. (2); Varian Microwave Tube (2); Varian/Eimac (1,2); Vector (6,7); Video Aids (1); Wavetek (3,6); Wide Band (1)

4.D. FIBEROPTIC SYSTEMS

SUPPLIERS:

Anritsu; Artel; Catel; GTE; Richard Hirschmann; Quante; RCA New Prod.; RE Instr.; Siecor; Telemet

34 BM/E AUGUST 1986

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Provide impressive on-air sound for even the most discriminating listener at an unbelievable price/performance relationship.

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Engineers look twice when they first see our 691 Stereo and SCA Monitor. But when they start to use it, they find the 691's meters are easily tracked in a single glance. Like everything else about the 691, its measurement displays are very well thought out.

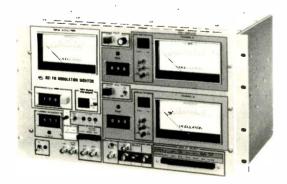
A color-coded system ties together the associated displays, switches, and jacks for a particular function or test. Select your test by pushing a color-coded button and simply read the results on all of the indicators. It's as easy as it sounds.

Other benefits of the 691 include over 40 proof-of-performance and signal quality measurements. Add a scope and use the 691 as a spectrum analyzer . . . or get a vector display of L/R phasing. Perform a Bessel-Null calibration in minutes. Measure clipped composite accurately and quickly.

The 691 can now be optionally ordered to measure two SCAs. There are many other features . . . write or call for complete information.

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4.E. SATELLITE SYSTEMS

TYPES:

(1) Transmit/receive earth stations

(2) Receive-only earth stations

(3) Transportable earth stations (4) Upconverters, downcoverters (5) LNAs (6) Encryption systems

(7) MAC systems (8) Satellite network controllers

SUPPLIERS:

Dahl; EEV; TTC

4.F. MICROWAVE SYSTEMS

TYPES:

(1) Intercity (2) Portable ENG (3) Airborne

(4) Central receivers (5) SMATV systems

(6) Telescoping masts

SUPPLIERS:

Andrew (1.2.5): Broadcast Microwave (1-4); Comark (1); DX (5); Electrohome (5); E-N-G (6); GTE (1); Harris Broadcast (1-5); Harris Broadcast Microwave (1-4); Ikegami (2); Intl. Microwave (1-4); Itelco (2); M/A-Com MAC (1-4); Marti (1-4); Motorola C&E (1); NEC America (2); Nurad (1-4); Osborne (6); RF Tech. (1-4); Raycom (1,2); Scientific-Atlanta (5); TFT (1); TMD (6); Wegener (1)

I.G. ANTENNAS

TYPES

(1)(2)

(3)

1	
AM	(4) TV CP
FM	(5) Communications
TV HP	(6) Antenna tuning units

SUPPLIERS:

Alford (2,3); Andrew (3-5); Avcom (5); Blonder-Tongue (3); Bogner (3-5); Cablewave (2,5); Celwave (5); Comark (2-4,6); Continental (2); DX (5); Dielectric (1-4); Dyma (2); Elcom (6); Gabriel (5); Harris Broadcast (2-4); Harris Satellite (5); Intl. Microwave (5); Itelco (2); Jampro (2-4); Larcan (2-4); LeBlanc & Dick (1-4); Mark (5); Marti (5); Micro Comm. (2-5); Motorola C&E (5); Old Dominion (6); RF Specialty (6); Radiation Sys. (5); SWR (2-4,6); Shively (2-6); Tennaplex (2,3); Thomson-LGT (2-4); Townsend (3,4); Vector (6)

I.H. TRANSMISSION LINE

TYPES:

(1) Rigid (2) Foam dielectric (3) Coaxial

(4) Power dividers (5) RF connectors

(3) Tower lighting

SUPPLIERS:

Alpha Wire (2,3); Andrew (1-3,5); Avcom (4,5); Bird (5); Cablewave (1-3,5); Celwave (2-5); Coaxial (5); Comark (3-5); Dielectric (1,3-5); Dyma (1-3); Gabriel (1-3); LeBlanc & Dick (1); Mark (2,3,5); Marti (2,3,5); Micro Comm. (4,5); Motorola C&E (1-3); Pinzone (1-4); RF Specialty (4,5); SWR (1); Scientific-Atlanta (1-5); Shively (1,3-5); Thomson-LGT (4): Times Fiber (1-3); Townsend (1-5); Trompeter (3,5)

4.I. TOWERS

TYPES:

(1) Tower masts (2) Tower rigging, hardware

SUPPLIERS:

Allied Tower (1-3); Andrew (1-3); Comark (1-3); EG&G (3); Express (1); Flash (3); Hughey (3); Kline (1); L&R (1,2); LeBlanc & Dick (1-3); Magnum (1-3); Microflect (1-3); Moore (1-3); Motorola C&E (1); N-Pro (1); Nudd (1-3); RF Specialty (3); Rohn (1-3); Stainless (1); Swager (1-3); Transmission Structures (1-3); Tri-Ex (1-3); United Rope. (2); Utility (1-3); World Tower (1)

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in two new additions to Tek's 1700 Series family: the 1720 Vectorscope and 1730 Waveform Monitor. For years televis on facilities have looked to the Tek 528A anc 1420 for reliable, consistent signal monitoring. Our two new monitors do the job faster, better-and at a substantial reduction in cost.

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15-line display and CRT readout of field and line number. You can display Channel A and Channel B inputs simultaneously. The information you need is there at a glance.

Each monitor includes its own advanced feature set. There's an X Y input for stereo audio monitoring in the 1720. Dual filter operation in the 1730. Plus proven 1700 Series family advan-tages. Excellent viewability. Low power consumption. All in a compact package suited for stand alone use or rackversions.

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Get the full story from your Tektronix representative. Ask for a demo and see what makes the 1720 and 1730 the leading

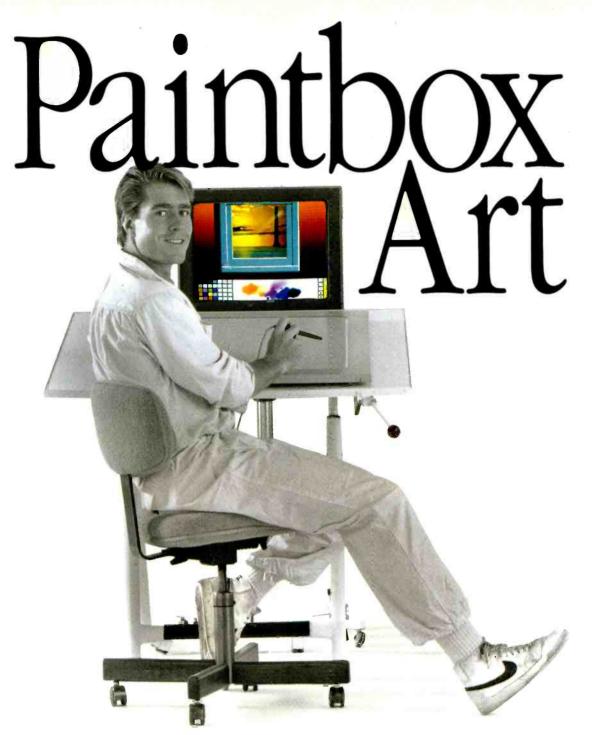
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4.J. TRANSMITTER REMOTE CONTROL SYSTEMS

SUPPLIERS:

Advanced Micro-Dynamics; Cat; Coastcom; Comark; Delta; Gentner Engineering; Gentner RF; Intl. Teletronics, Marti; Micro Controls; Monroe, Moseley; Nurad; Old Dominion; Potomac; Rohde & Schwarz/ Polarad; Soll; TFT, Townsend

4.K. STLS, TSLS

SUPPLIERS:

Andrew; Broadcast Microwave; Comark; dbx. GTE; Harris Broadcast Microwave; Marti, Micro Controls; Moseley; Motorola C&E; Nurad; TFT; Townsend; Wegener

4.L. SCA EQUIPMENT

TYPES:

(1) AM/FM (2) TV (3) Terminals

SUPPLIERS:

AEG Bayly (1): American Diversified (1), Broadcast Electronics (1,3); Circuit Research (1); Emergency (1); Intl. Microwave (1,2); Intl Teletronics (1); Itelco (1); Kahn (2); Marti (1,3); Micro Controls (1); Modulation Sciences (1,3); Moseley (1); Orban (3); Philips TV (1); Radio Sys. (1); Reach (1,4); Singer (1,2); TFT (1-3)

4.M. SLOW-SCAN TRANSMITTERS/RECEIVERS

SUPPLIERS:

NEC America

4.N., TWO-WAY RADIO COMMUNICATIONS

SUPPLIERS:

Clark; Intl. Microwave; Marti; Motorola C&E; Swintek, Wavetek

4.0. REMOTE PJCKUP EQUIPMENT

SUPPLIERS:

Marti; Moseley; Motorola C&E; Nurad; Old Dominion, Swintek

4.P. OTHER RE EQUIPMENT

SUPPLIERS:

AEG Bayly; Bally; Broadcast Electronics; Conifer; Continental; Emcee; Enterprise; Harris Satellite, Hipotronics; ITS; Innovative TV; Kavouras; Marti; Microflect; Moseley; Motorola C&E; RF Specialty; Register; Shively; Teletech, Universal Elecon, Varian Microwave Tube; Vector; Wavetek

5. TEST & MEASUREMENT, LOGGING, TIMING

S.A. AUDIO T&M

TYPES:

- (1) Audio test signal generators(2) Harmonic distortion meters(3) IM meters
- (4) Spectrum analyzers

(5) Real-time analyzers(6) Wow & flutter meters(7) MTS test equipment(8) Other audio T&M equipment

SUPPLIERS:

ACO (8); Amber (1-4); Anritsu (4.8); Arus (8), Asaca (1.2), Audio Precision (1-3,6), Avcom (4), B&K (6,7), Boonton (1,2), Bruel & Kjaer (1-6); Cetec Ivie (1,4,5); Comprehensive Video (6); Crown (4); Eventide (4); Gotham (6); HM Elec. (8); Hewlett Packard (1,2); ISS (4); Jasoni (1,8); Kay (1,4,5); Kintek (8); Klark-Teknik (5); Leader (1,2,6,7), MEI (1); Marconi (4); Modular Audio (1); NEI (5), Panasonic (1), Potomac (1-6); RE Instruments (7.8); Ram (8), Roh (1,7); Rohde & Schwarz/Polarad (4), Sencore (1); Shure (1), Sound Technology (1-4 6-8). TFT (7), Technical Projects (1-3,6); Techron (1,4); Tektronix (1,2,4,7). Telemet (4), Universal Elicon (1,7); Ward-Beck (1); White (5)



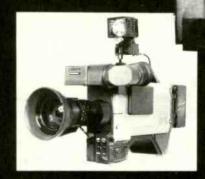
Lighting Tech Tips

THE PROBLEMS...

- 1. Spare bulbs break in their cardboard boxes or while being installed.
- 2. The best shot of the day can be lost in the time it takes to replace a burned out bulb.
- 3. The practice of using all-purpose high wattage bulbs greatly reduces battery run time and in most cases burns out the subject lecving a dark and murky background.

Ultralight THE SOLUTION.

- 1. <u>Ultralight's bulbs are safely</u> stored and carried in rugged, compact aluminum hedd modules, eliminating costly breakage in the field.
- 2. <u>UltraLight's one-hand quick</u> change system allows head module replacement and eliminates direct bulb handling.
- 3. With the <u>UltraLight</u> system the optimum wattage for each situation is instantly available through quick change head modules and a wide var.ety of bulbs. Video quality is greatly enhanced and battery time can be more than doubled.



UltraLight (Pat. No. 4,554,621) solves even mare lighting problems. See Lighting Tech Tip #2.

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5.B. VIDEO T&M

TYPES

- (1) Video test signal generators (2) Waveform monitors (3) Vectorscopes (4) Combination waveform/vectorscopes (5) Blanking width meters. displays
- (6) Burst phase meters (7) Diff. gain/phase meters
 - (8) SCH phase meters
 - (9) Video noise meters
- (10)Automatic VITS analyzers (11)Other video T&M equipment

SUPPLIERS:

AF Assoc. (5); Anritsu (1,2,7,9-11); Asaca (1,9,10); B&K (1-3); Broadcast Video Sys. (2-4); Comprehensive Video (2,3); Data Precision (2); Grass Valley (8); Harris Bdcst. Microwave (11); Leader (1-3); Leitch (1,8,11); Lenco (1,8,9); Magni (1-4,6-8,11); Marconi (1,11); Minolta (11); Multidyne (1); NTI (1); Newton (1); Norpak (11); Optical Disc (1); Panasonic (1): Pesa (6.8): Philips T&M (1-3.10): Porta-Pattern (11): Real World (5); Research Tech. Intl. (11); Rohde & Schwarz/Polarad (1,2,7,9,10); Scientific-Atlanta (1); Sencore (1); Sigma (1); Tektronix (1-6); Telemet (1,7); Temtron (1-3,6); Videotek (2,3); Visual Info. Inst. (1); Wavetek (1); World Video (1)

5.C. RF T&M

TYPES:

- (1) Demodulators
- (2) Modulation monitors
- (3) Antenna monitors (4) Field intensity meters
- (5) Sideband analyzers
- (6) RF power meters, wattmeters

(7) RF calorimeters

(8) Frequency monitors,

- controllers
- (9) RF test signal generators (10) Impedance bridges
- (11) Phase meters
- (12) Other RF T&M equipment

SUPPLIERS:

AEG Bavly (6); Anritsu (4,6,8-10,12); Avcom (9); B&K (9); Belar (1,2,8); Bird (4,6-8,12); Boonton (2,6,7,9,10); Bruel & Kjaer (11); Coaxial Dynamics (6,8); Comark (1-11); Continental (1); Delta (2,3,6,8-10,12); Digimax (8); Electro Impulse (6,7); Fluke (8,9); Gorman-Redlich (3,11); Hewlett Packard (1,2,9); Itelco (9); Kay (9); Leader (4,8-10); Marcom (1,2); Marconi (9); McMartin (2,4); Modulation Sciences (1); Motorola AM (2); Newton (1,9); Nurad (1,3); Philips T&M (1,9); Potomac (1,3,4,9,12); QEI (2); RE Instruments (9); Rohde & Schwarz/Polarad (1,2,4-6,9,10); Sadelco (12); Sencore (4,10); Sennheiser (10); Systron (8); TFT (2,8,12); Tektronix (1,2); Telemet (1,5); Video Aids (11); Videotek (1); Wide Band (10); Wiltron (9,10,12)

5.D. GENERAL T&M

TYPES:

- (1) Oscilloscopes
- (2) Delayed sweepscopes
- (3) Voltmeters

(5) dB meters (6) Logic analyzers (7) Other general T&M equipment

(4) Multimeters SUPPLIERS:

Amber (5); Anritsu (6); Audio Tech. (5); B&K (1-4); Boonton (3); Bruel & Kjaer (3); Comark (1,2); Comprehensive Video (1,3,4); Data Precision (3,4); Fluke (3-5); Hipotronics (3,7); Jasoni (7); Leader (1-5); Marconi (3); Panasonic (1,6); Philips T&M (1,6); Rohde & Schwarz/Polarad (1,3,4,6); Sadelco (7); Sencore (1,4,5); Tektronix (1-7); Wavetek (1)

5.E. LOGGING, MONITORING

TYPES:

(1) Tape-based loggers (2) Log printers (3) Chart recorders

- (4) Automatic TV monitors (5) Automatic radio monitors
- (6) Status/alarm indicators

SUPPLIERS:

Cat (2.6); Dictaphone (1); Hallikainen (2,4,6); Magnasync (1); Minneapolis Magnetics (1,3,5,6); Rohde & Schwarz/Polarad (4-6); Tandberg (1); Telectro (1); Telex (1)

5.F. CLOCKS, TIMING

TYPES:

(1) Digital clocks (2) Timers

(3) Complete clock/timing systems



NO COMPROMISE When you reach for Lenco's 400 Series Digital TBC you don't have to trade quality for a competitive price.

The new Lenco <u>400 Series TBC</u>. It sets new standards of quality and dependability in time base correction for Heterodyne VTRs. At a price far below what you'd expect to pay for a TBC with a fraction of the <u>400 Series'</u> features.

Extraordinary features, transparent operation

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The Lenco <u>400 Series TBC</u> is just 1-3/4 inches tall and 15 pounds light. But it's engineered to the very highest standards in the industry. And backed with an "industry first" two year warranty, it's built to provide year after year of troublefree operation.

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The <u>400 Series TBC</u> is a triumph of space age electronics. Like other Lenco video and audio equipment, it represents one of the greatest values in broadcasting. While the price may be the best on the market, when it comes to quality and performance there can be no compromise.

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How to keep your mixing board from holding you back.

Today's technological revolution is a battle fought on two fronts: quality and cost. Recent advances in recording equipment let you do more than you ever could before — And for less money. But what about your mixing console? Can it keep pace with recent giant steps such as the significant advances in the quality



of analog and digital recording equipment? Without sacrificing your budget?

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Program Mix Control RAMSA's T-Series consoles save you

time, too. Each input channel simultaneously accepts Mic, Line and Tape signals. A timesaving feature, the Program Mix control and stereo Solo switches let you choose the signal source you want without repatching. So you get from basic tracks to final mix in record time.

Because with the RAMSA T-Series, you get a mixing board that does much more for less without holding anything back.



Pushbutton Input Selection





RAMSA WR-T820

anna anna

SUPPLIERS:

Autogram (1,2); Beaveronics (3); Broadcast Aids (1,2); Channelmatic (1); Chrono-Log (1-3); ESE (1-3); Evertz (1-3); Kinemetrics (1,3); Leitch (1,3); Logitek (2); Mallory (2); NES (1,2); Old Dominion (2); Pacific Recorders (1,2); Radio Systems (2); Sansui (1,2); Torpey (1-3)

5.G. OTHER T&M, LOGGING, TIMING EQUIPMENT

SUPPLIERS:

Chrono-Log; Hallikainen; Marconi; Potomac; Sprague; Torpey

6. COMPONENTS, HARDWARE

6.A. WIRE, CABLE, CONNECTORS

TYPES:

(1) Audio cable(2) Video cable(3) Lighting/ac cable

(4) Cable connectors(5) Jackfields, patch panels

SUPPLIERS:

ADC Telecomm. (5); AF Assoc. (5); AMP Special (4); Alpha Wire (1-5); Anton/Bauer (2-4); Audio Accessories (5); BIW (1-4); BR Intec (1-4); Belden (1,2,4); Calvert (1,2); Canare (1,2,4,5); Chester Cable (1,2); Choice (5); Comprehensive Video (1,2,4); Connect-Air (2,4); Connectronics (1,2,5); Daburn (1-4); Dynatech (5); Fartronics (5); Gentner Engineering (5); Gotham (1); Hudson (1,2); Image Video (5); Kings Elec. (4,5); Lemo (4,5); Olesen (3,4); Pacific Recorders (5); Perrott (3,4); Roh (1,5); Switchcraft (1,2,4,5); TVI (3,5); Tandberg (1); Tascam (1,2,5); Times Fiber (2); Trompeter (2,4,5); Union Connector (3-5)

6.B. TOOLS

SUPPLIERS:

Comprehensive Video

6.C. VACUUM TUBES

SUPPLIERS:

Ceco Comm.; EEV; Freeland; Thomson Tubes; Vacuum Tube; Varian/ Eimac; Westinghouse

G.D. SOLID STATE COMPONENTS

SUPPLIERS:

Frequency Devices; International Microwave

6.E. RECTIFIERS

SUPPLIERS: Dahl; EEV; TTC

6.F. CAPACITORS

SUPPLIERS:

EEV; ITT; Inmark; Panasonic; Surcom; Vector

6.G. TRANSFORMERS

SUPPLIERS:

Dahl; ESC; Edcor; Hipotronics; Jensen; Microtran; Protech; Soundolier; Superior; TTE

6.H. SURGE PROTECTORS

SUPPLIERS:

Control Concepts; Dahl; EEV; LEA Dynatech; Lightning Elimination; MCG; Superior; TTC

Perfect Timing

MASTER

CLOCK SYSTEMS



If seeing the same time on all your clocks is important, select **ES 192E**-Line Frequency timebase, for only \$358.

If a guaranteed accuracy of three seconds per month is what you want, choose **ES** 160 -\$1.158.

How about one second per month? ES 160/1-\$1,350.

Or National Bureau of Standards accuracy! **ES 199** is synchronized to Radio Station WWV to provide a Master with unquestioned accuracy. \$1,575 with receiver and antenna.

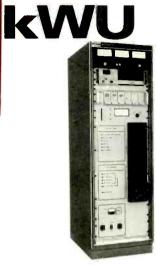
ESE Master Clock Systems are simple to install. All Masters have a Serial Time Code output, able to drive twenty slave displays without buffering. Slaves range in size from .4" LED to 2" gas discharge displays, priced from \$166 to \$471.

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6.1. HUM BUCKING COILS

SUPPLIERS:

ADC Telecomm.; Allen Avionics; Audio-Video Engineering; Broadcast Video Sys.; Edcor

6.J. QUARTZ CRYSTALS

SUPPLIERS:

Eidson; Marti; Perrott

6.K. OTHER COMPONENTS, HARDWARE

SUPPLIERS:

ADC Telecomm.; EEV; International Microwave; Itelco; Perrott; Selco; Sprague; Superior; Surcom; Torpey; Varian/Eimac

7. SERVICES

7.A. VIDEO PRODUCTION FACILITIES (STAGE/STUDIO RENTAL)

SUPPLIERS:

Action Video; Airfax; American Video; Arben; Atlantic Video; Burbank Studios; Captured Live; Carleton; Ceco Intl.; Center City; Century III; Communications Altatec; Creative Tech.; Creative Video; Devlin; Digital Video Prod.; ESPN; Eagle, Editel; Editel/NY; Fax; Film & Video Assoc., FitzCo; GBH Prod.; Golden Apple; Golden Gate Prod.; Grace & Wild; HBO; Houston Intl.; Image Devices; Interface Vid.; Intl. Production Ctr.; KQED; KVIE; Kluge; LRP; Louisville; MPCS; Manhattan Transfer; Matrix Video; Mobile Video Svcs.; Modern Telecomm.; National Vid. Centery; National Video Ind.; Netcom; Northwest Teleprod.; One Pass; Opryland; Pacific Coast; Pacific Video; Palmer; Polycom; Production Masters; Pyramid; Reeves; Scene Three; Skaggs; Solid Elec.; Starfax; Sullivan Assoc.; Sundance; TPC Comm.; TVC; Tektronix; Tele-Image; Telemation Prod.; Television Assoc.; Third Coast; Today Video; Trans-American; Unitel; VCA; Vidcom; Video Planning; Video Post; Video West; VideoWorks; Visnews; WGN; WPHL; WXXI; Washburn; Windsor; Yes Prod.

7.B. MOBILE PRODUCTION FACILITIES RENTAL

SUPPLIERS:

Airfax; All Mobile; Arben; Atlantic Video; Bay Area; CCR Video; Captured Live; Carleton; Center City; Communications Altatec; Compact Video; Creative Tech.; Creative Video; Crowe Prod.; Devlin; Digital Video Corp.; Digital Video Prod.; ESPN; Editel/NY; Fax; Film & Video Assoc.; FitzCo; GBH Prod.; Grace & Wild; Image Devices; Interface Vid.; KQED; KVIE; LRP; Louisville; Manhattan Transfer; Matrix Video; Medallion; Mobile Video Svcs.; Modern Telecomm.; National Vid. Centery; National Video Ind.; Northeast Prod.; Northwest Teleprod.; One Pass; Opryland; Optimus; Pacific Video; Palmer; Polycom; Production Masters; Reeves; Scene Three; Skaggs; Solid Elec.; Southwest Teleprod.; Starfax; Sullivan Assoc.; Sundance; TBS Field Ops; TPC Comm.; Tele-Image; Telemation Prod.; Television Assoc.; Third Coast; Unitel; VCA; Varitel, Vidcom; Video Planning; Video West; WGN; WPHL; WXXI; Windsor; Yes Prod.

7.C. VIDEO POST-PRODUCTION FACILITIES

SUPPLIERS:

Action Video; Airfax; Allied—WBS, Atlantic Video; Broadway Video; CCR Video; Captured Live; Carleton; Carob; Center City; Century III; Color Film; Columbia A/V; Communications Altatec; Compact Video, Creative Tech.; Creative Video; Devlin; Digital Video Corp.; Digital Video Prod.; Du Art; ESPN; Eagle; Editel; Editel/NY; Empire Video; Fax, FitzCo; GBH Prod.; Golden Apple; Golden Gate Prod.; Grace & Wild; HBO; Horizontal Editing; Hudson A/V; Image Devices; Image Transform; Intercontinental; Interface Vid.; Intl. Production Ctr.; JSL; KQED; KVIE; Kluge; LRP; Louisville; MPCS; Manhattan Transfer; Matrix Video; Media Concepts; Mobile Video Svcs.; Modern Telecomm.; National Vid. Centery; National Video Ind.; Nexus, Northeast Prod.; Northwest Teleprod.; One Pass; Opryland; Optimus; Pacific Coast, Polycom; Posi-

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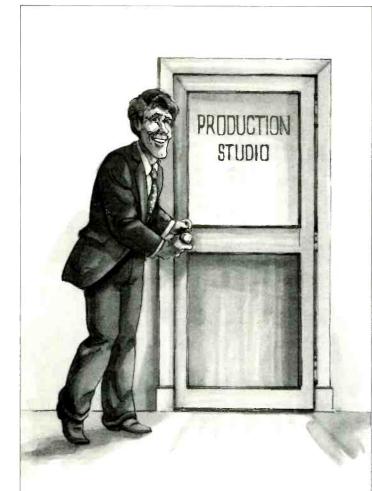
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7.D. RECORDING STUDIOS

SUPPLIERS:

Allied—WBS; Alpha Audio; American Image; Carleton; Century 21; Continental Record.; Cromwell; Devlin; FitzCo; Golden Apple; Interface Vid.; Kluge; MPCS; MixMasters; National Vid. Centery; Omnimusic; One Pass; Peters; Polycom; Production Masters; Scene Three; Sullivan Assoc.; Unitel; Windsor

7.E. AUDIO POST-PRODUCTION FACILITIES

SUPPLIERS:

Allied—WBS; Alpha Audio; American Image; CCR Video; Compact Video; Continental Record.; Creative Tech.; Devlin; Du Art; Editel, FitzCo; GBH Prod.; Golden Apple; Horizontal Editing; Interface Vid.; Kluge; MPCS; McCurdy; MixMasters; National Video Ind.; Peters; Production Masters; Starfax; TVC; VCA; Vidcom; Windsor; Yes Prod.

7.F. EQUIPMENT RENTAL SERVICES

SUPPLIERS:

A/T Scharff; Action Video; Aerial Video; All Mobile; Arben; Birns & Sawyer; Black's; Broadcast Systems; Camera Mart; Carleton; Ceco Intl.; Columbia A/V; Communications Altatec; Creative Video; Digital Video Corp.; ENG Heli.; Eagle; Elicon; Film & Video Assoc.; FitzCo; General TV Net.; Glentronix; Gordon Enterprises; Green Broadcast; Houston Intl.; Hudson A/V; Image Devices; Intercontinental; Interface Vid.; KVIE; L. Matthew Miller; Laumic; Leasametric; MPCS; MZB; Manhattan Transfer; Marcus Sat.; Media Concepts; Midwest, Netcom; One Pass; Performance; Polycom; Production Masters; Roscor; Solid Elec.; Starfax; Sullivan Assoc.; Swiderski; TVI: Telemation Prod.; Television Assoc.; Terminal Sys.; Tyler Camera; Victor Duncan; Vidcom; Video Hi-Tech; Videomedia; Windsor

7.G. FACILITIES DESIGN AND ENGINEERING SERVICES

SUPPLIERS:

Acoustic Sys.; Arben: Atlantic Video; Broadcast Systems; Carleton; Centro; Chips Davis; Creative Tech.; Delcom; Devlin; Dyma; East Coast Vid.; Editel; Fiorentino; GBH Prod.; Golden Apple; MZB; Pacific Recorders; Performance; Radio Systems; Radiotechniques; Sullivan Assoc.; Syracuse; TVI; Windsor

7.H. SET/STUDIO DESIGN SERVICES

SUPPLIERS:

Acoustic Sys.; Arben; Atlantic Video; Broadcast Systems; Carleton; Centro; Chips Davis; Creative Tech.; Delcom; Devlin; Dyma; East Coast Vid.; Editel; Fiorentino; GBH Prod.; Golden Apple; MZB; Pacific Recorders; Performance; Radio Systems; Radiotechniques; Sullivan Assoc.; Syracuse; TVI. Windsor

7.1. ENGINEERING CONSULTANTS

SUPPLIERS:

A.F. Assoc.; AT&T Comm.; Antenna Tech.; Atlantic Research; Black's; Bowen; Broadcast Systems; Cat; Centro; Channelmatic; Chips Davis; Dalsat; Delcom; Dyma; East Coast Vid.; Electric Works; Fiorentino; FitzCo; General TV Net.; Golden Apple; Gray Comm.; Grinnan; Houston Intl.; Jem-Fab; L. Matthew Miller; Lake Sys.; Lightning Elim.; Lines Video; MPCS; MZB; McManus; Micro Comm.; Netcom, Nissen; Norpak; Old Dominion, Pacific Recorders; Peirce-Phelps; Performance; Radiotechniques; Roscor; Rosner; SWR; Satellite Consult.; Schiller Assoc.; Soll; Sound Genesis; Spectrum Plan.; Sullivan Assoc.; Swiderski; Teletech; Turner Eng.; VCA; Video Hi-Tech; Video Post; Windsor

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Years after its introduction, the HK-322 is still the choice of many for solid studio camera performance.

We think it's because people don't like to tamper with a winner. And the HK-322 is certainly that—a winner.

The Ikegami HK-322 broadcast studio camera. equipped with 30mm or 25mm Plumbicon[#] tubes, features: standard diode gun or ACT pick-up tubes. advanced operaticnal automatics including auto pedestal control and auto highlight compression, complete auto set up, diagnostics and a wide range of special features.

The HK-322 can be furnished with mini camera cable (up to 600 meters) or optional triax for lengths up to 1500 meters. Two types of camera control systems are available with an optional control panel configuration to suit user preference.

For a top-of-the-line broadcast studio camera, the HK-322 is still the one.

For a complete demonstration of the HK-322 and other lkegami cameras and monitors, contact us or visit your local lkegami deale.

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Sound is terrific-unit is easy to install and set up.

Randy Orbaker, WNYR, Rochester, NY

Loud and solid but very smooth-doing a great job!

Gary Smith, KWEB, Rochester, MN

Lee McCormick, KGW, Portland, OR

As a suburban station, OPTIMOD-AM has given us the punch to reach into the metro area. We are *impressed* with what OPTIMOD has done. **Tom Snyder,** WKSH, Pewaukee, WI

Sounds great; superior support services.

Orban is the most sensible choice for a demanding classical format. I've used the 9100A OPTIMOD-AM since WQXR-AM went AM Stereo—listeners and engineers alike prove this to be one of the best choices a station can make. Some listeners even say they would rather listen to the AM Stereo than to the FM.

Zaven "Doc" Masoomian, WQXR, New York, NY

Much smoother performance—more loudness and better dynamics than your earlier 9000A. Marvin Fiedler, KCOR, San Antonio, TX

Love it! Solid construction, great documentation.

Jim Phillips, KLOK, San Jose, CA

Even the News Director noticed the improvement!

Ron Simpson, WTTM, Trenton, NJ

The best AM processing I've ever heard.



Ed Anglin, WGCR, Brevard, NC

OPTIMOD[®]-AM: REVIEWS FROM SOME TOUGH CRITICS.

Any machine's toughest critics are the people who use it every day. The **9100A OPTIMOD-AM's** sound, performance, reliability, and documentation have garnered rave reviews—and converted a lot of skeptics!

In the past few months, we've made the 9100A more affordable, and made it easy for your Orban Dealer to provide a demo. So before you buy *any* processor, try OPTIMOD-AM. Its smooth, dynamic, easy-to-listen-to sound, and its source-to-source consistency, are just right for today's adult AM audience.

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7.J. FINANCIAL CONSULTANTS

SUPPLIERS:

ABP Sys.; Broadcast Systems; Chips Davis; Cromwell; MZB; Sussex

7.K. EARTH STATION SITE SELECTION

SUPPLIERS:

Antenna Tech; Broadcast Systems; Dalsat; Ethereum; Houston Intl.; Marcus Sat.; New England Sat.; Polycom; Radiotechniques; Rosner; Satellite Consult.; Spectrum Plan.; Videostar

7.L. MOBILE VEHICLE CONSTRUCTION

SUPPLIERS:

Airfax; All Mobile; Arben; Atlantic Video, Bay Area; CCR Video; Captured Live; Carleton; Center City; Communications Altatec; Compact Video; Creative Tech.; Creative Video; Crowe Prod.; Devlin; Digital Video Corp.; Digital Video Prod.; ESPN; Editel/NY; Fax; Film & Video Assoc.; FitzCo; GBH Prod.; Grace & Wild; Image Devices; Interface Vid., KQED; KVIE; LRP; Louisville; Manhattan Transfer; Matrix Video; Medallion; Mobile Video Svcs; Modern Telecomm.; National Vid. Centery; National Video Ind.; Northeast Prod.; Northwest Teleprod.; One Pass; Opryland; Optimus; Pacific Video; Palmer; Polycom; Production Masters; Reeves; Scene Three; Skaggs; Solid Elec.; Southwest Teleprod.; Starfax; Sullivan Assoc.; Sundance; TBS Field Ops; TPC Comm.; Tele-Image; Telemation Prod.; Television Assoc., Third Coast; Unitel; VCA; Varitel; Vidcom; Video Planning; Video West; WGN; WPHL; WXXI; Windsor; Yes Prod.

7.M. SATELLITE TIME BROKERS/SERVICES

SUPPLIERS:

Bonneville Satellite; Comsat; Conus; Ethereum; Houston Intl.; Netcom; Satellease; Satellite Consult.; Videostar

7.N. MUSIC LIBRARIES

SUPPLIERS:

Action Video; American Image; Associated Prod. Music; Carleton; Century 21; De Wolfe; Firstcom; Interface Vid.; Jam; Kałamusic; Kluge; Media General; Music Director; Musicworks; National Vid. Centery; Network Prod.; Omnimusic; Otis Conner, Palmer; Production Masters; RPM; Soper; Tanner; Valentino; Windsor

7.0. VIDEO/FILM STOCK SHOT LIBRARY

SUPPLIERS:

Action Video; Carleton; Golden Gate Prod ; Interface Vid.; Picture Mgmt.; Rosebush; Sullivan Assoc.

7.P. SYNDICATED RADIO PROGRAMMING

SUPPLIERS:

Associated Press; BPI; Bonneville Bdcst.; Broadcast Music; Century 21; Concept Prod.; Firstcom; Houston Intl.; Kalamusic; Media General; Music Director; Musicworks; Otis Conner; Peters; RPM, Radio Arts; Real Radio; Satellite Music; United Press I.

7.Q. OTHER SERVICES

SUPPLIERS:

Accu-Weather; Airfax; Allied Film & Video; Allied—WBS; Associated Press; Audio Plus Video; Bonneville Satellite; Bowen; Broadcast Cartridge; Calico Video; Carleton; Cat; Ceco, Ceco Comm.; Century 21; Color Film; Columbia A/V; Compact Video; Continental Record.; Conus; Creative Tech.; Cromwell; Dataworld; Delcom; Devlin; Digital Video Corp.; Diner—Allied; Drake-Chenault; Du Art; Dyma; Emcee; Film & Video Assoc.; Fiorentino; Hudson A/V; Image Transform; Intercontinental; Interface Vid.; Intl. Production Ctr., JRF; Jam; Janson; Jem-Fab; Kluge; LRP; Louisville; Marcus Sat.; Maxima; Media Concepts; National Vid. Centery; National Video Svce., Netcom; Network Prod.; New England Sat.; Norpak; Northeast Prod.; Pacific Video; Palmer; Peirce-Phelps, Polycom; Production Masters; RCA Americom; RJW; Rosebush; Sadelco; Satellease; Satellite Consult.; Sea-Cam; Solid Elec.; Soli; Sprague; Starfax, Sussex; TVC; Teleprompters Are; Video Tape; Videostar; Visnews; WSI; Washburn

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Field Offices:

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ABP SYSTEMS 400 Roosevelt Ave., Freeport, NY 11520 516 546-4985

Transportation cases: foam insert, padded nylon, rack configuration. Editing/production consoles. Studio furniture, cabinets; studio consoles; equipment racks. Custom machine work. Facilities design and engineering services; mobile vehicle construction; financial consultants. Telecine control systems. Parallel interface video routing switchers.

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Audio tape duplicators. Mic booms, dollies. Tape-based loggers.

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215 542-7000 UHF, VHF & LPTV transmitters & translators. TV exciters. RF amps.

See ad on pg. 44. Circle No. 128.

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Electronic audio editors; SMPTE time code synchronizers. Two-machine video editor/ controllers, A/B-roll editors, multisource editors, SMPTE time code generator/readers, VITC reader/generators. Sync generators.

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Audio patch panels, jackfields; telco termination blocks; S.A.I.L.S. kits. Video ProPatchpatching equipment, coax jacks, coax patch cords, V.A.M.P. video/audio modular patch bay. Cable connectors; hum bucking coils.

ADM TECHNOLOGY 626 E. Big Beaver Rd., Troy, MI 48084 313 524-2100

ST Series stereo studio audio consoles; BCS & STV Series audio-for-TV consoles. Audio DAs; audio patch panels & jackfields. Field Offices:

 MI
 Rick Fisher, 1611 Playsted, Union Lake

 48085
 313 360-1477

 NM
 Robert Brewer, Box 75237, Albuquer

 que 87194
 505 831-5210

 TX
 Gordon Peters, Box 912, Arlington

 76010
 817 478-0050

ADVANCED DESIGNS CORP. 924 W. 17 St., Ste. 3, Bloomington, IN 47401 812 333-1922 Doprad I & II weather graphics & radar displays; Doprad II weather-based art/paint system; RCD-1000 weather radar display.

ADVANCED MICRO-DYNAMICS 80 Bolton Rd., Box 150, Harvard, MA 01451

617 456-3570

TC-8 transmitter remote control system. Audio DAs.

ADVANCED MUSIC SYSTEMS AMS Industries Park, Billington Rd., Burnley, Lancashire BB11 5ES, UK. (0282) 57011/Telex 63108 AMS G

Audiofile digital audio recorders, electronic audio editors, editors for digital audio; audio/ video sync delay; digital audio efx, reverb, digdigital delay, Timeflex time compression/ expansion.

AEC BAYLY 517 167 Hunt St., Ajax, Ont., Canada L1S 1P6 416 683-8200

FM transmitters; FM exciters; RF amplifiers & switches. FM SCA equipment; RF coaxial changeover system. RF power meters, wattmeters, dummy loads. Multitrack & 2-/4-track studio ATRs; tape duplicators; splicing blocks & tape, electronic audio editors, SMPTE time code synchronizers; turntables, complete disc consoles; audio noise reduction; telcc interface equipment.

AEG CORP.

Box 3800, Somerville, NJ 08876-1269 201 722-9800

Multitrack & 2-/4-track studio ATRs; tape duplicators; electronic audio editors, SMPTE time code synchronizers; turntables. See ad on pg. 54. Circle No. 136.

AERIAL VIDEO SYSTEMS 801 S. Main St., Burbank, CA 91506 818 954-8842

Rentals of microwave equipment, helicopter production packages & video production equipment.

A.F. ASSOCIATES

100 Stonehurst Ct., Northvale, NJ 07647 201 767-1000

Facilities design & engineering services; engineering consultants; mobile vehicle construction. Marconi solid state telecine systems, comb filter decoders, ENG cameras, one-inch VTRs. Audix audio-for-TV consoles & hardwired intercom systems; AFA audio patch panels, jackfields. AVS standards converters. Pegasus commercial compilation system. AFA blanking width meters, displays.

See ad on pg. 59. See ad on pg. 145. Circle No. 138. Circle No. 239.

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Microprocessor control, amorphous metal core heads, and superior performance ... technology that's typically AEG.

Chances are that the M-21 Professional Audio Tape Recorder from AEG will outperform whatever 2-Track you're currently using or considering for future purchase. No other machine is built to such exacting standards, no other machine handles tape as gently yet rapidly, and no other machine is presently available with Amorphous Metal Butterfly Core Heads. (Ours are standard equipment; ask about our exclusive head warranty.)

The M-21 is microprocessor controlled and user-programmable for any 2 of 4 speeds. It is a totally self-contained package with no external power supplies or cabling, and access to all components for maintenance and alignment is quick and easy. The performance specifications are unexcelled.

It's only natural that the M-21 should be such a fine machine. After all, we invented the modern tape recorder over 50 years ago. To arrange for a free demonstration at your facility, or for information on any of our other high technology products, please give us a call. In Canada: AEG BAYLY INC. 167 Hunt Street Ajax, Ontario L1S 1P6 (416) 683-8200

In U.S.A.: AEG Corporation Route 22 — Orr Drive P.O. Box 3800 Somerville, NJ 08876-1269 (201) 722-9800



ACEA-CEVAERT 275 North St., Teterboro, NJ 07608 201 288-4100

Audio mastering tapes, cassettes, Broadcast Plus U-Matic videocassettes; half-inch Beta/VHS videocassettes, one-inch C videotape

Field Offices:

CA Century Park Plaza, 1801 Century Pk. E., Los Angeles 90067 213 552-9622 CA 1633 Old Bayshore Hwy., Burlingame 94010 415 692-2432 GA 380 Interstate North #200, Atlanta 30339 404 955-4326 IL 2803 Butterfield Rd. #200, Oak Brook 60521 312 242-1951 MA 33 Hayden Ave #304N, Lexington 02173 617 861-6740 NY Twin Bridge Plaza, 24 Meadowland Pky. #300, Secaucus 07094 201 330-1800 TX 4225 Wingren Rd. #201 Las Colinas, Irving 75062 214 255-0505

AIRFAX VIDEO

727 N. Hudson, Chicago, IL 60610 312 944-5577

Video production & post-production facilities; mobile production facities rental: videodisc design & consulting services.

AKG ACOUSTICS 77 Selleck St., Stamford, CT 06902 203 348-2121

Phono cartridges, record cleaning & care; digital efx & reverb, digital delay, analog efx & reverb; headphones. Mics: dynamic, electret/condenser, RF, shotgun, lavalier, stereo, modular & capsule; mic booms & dollies. Microphone stands stereo processor.

ALAMAR ELECTRONICS 36 Railway Ave., Campbell, CA 95008 408 866-9373

Parallel & serial interface machine control/ technical automation; complete station automation system.

ALDEN ELECTRONICS

40 Washington St., Westboro, MA 01581 617 366-8851

Weather satellite displays, radar displays, graphics displays.

ALEXANDER MFG. CO. 1511 S. Garfield Pl., Mason City, IA 50401 515 423-8955 Nicad batteries, chargers

ALFORD MFG. CO. 32 Sixth Rd., Woburn, MA 01801 617 935-8611 Antennas: FM, TV HP

ALIAS RESEARCH 111 Queen St. E., Ste. 500, Toronto, Ont. 416 362-9181

Alias/1 digital art/paint systems, 3D modeling & manipulation, Matrix CQR film recorders; Lyon Lamb video animation controllers.

ALLEN AVIONICS 224 E. Second St., Box 350, Mineola, NY 11501 516 248-8080

Video delay lines, filters, video/cable equalizers. Hum bucking coils.

See ad on pg. 63. Circle No. 140.

ALLEN & HEATH BRENELL USA 5 Connair Rd., Orange, CT 06477 203 795-3594 Consoles: portable, mono & stereo studio.

ALLIED BROADCAST EQUIPMENT Box 1487, Richmond, IN 47375 317 962-8596

A-Line Studio Atmosphere control console furnishings, audio cart racks, equipment racks. Architectural Series on-air warning lights; Strobe Series on-air and telephone warning lights. AM & FM transmitters. CD players; DAs; phono preamps; mic booms; studio timers; lighted inspection lenses; cart labels; dub centers; turntable isolation mounts

Field Offices:

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CA Tony Mezzi, 3808 Riverside Dr. #303. Burbank 91505 818 843-5052 GA Mark Drummond, Shannon Towers #314, 4405 Mall Blvd., Union City 30291 404 964-1464 Tom Harle, 5097 N. Elston Ave. #303. Chicago 60630 312 794-0224 TX Pat Hurley, Chaddick Ctr. #309, 1201 E. 15, Plano 75074 214 423-8667 WA Cal Vandergrift, 112 S. 344 St. #312, Federal Way 98003 206 941-5453

Ь **ALLIED FILM & VIDEO** 7375 Woodward Ave., Detroit, MI 48202 313 871-2222

Film-to-tape & tape-to-film transfers; videotape duplication services; motion picture lah

Field Offices:

CA Roy Diner/Denise Guillon, 620 Third St. San Francisco 94107 415 777-1700 DC Deborah Farrell/Jeff Jefferis, 717 Second St. N.E., Washington 20002

202 546-2228 FL Jim Caron/Jim Kelly, 45 N. Texas Ave., Orlando 32805 305 298-0012 IL Grant Ireland/Keith Pokorny, 1322 W. Belmont, Chicago 60657 312 298-0012 TX Charles Floyd/Jack Dean, 6305 N. O'Connor Rd. #111, Irving 75039

214 869-0100

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ALLIED TOWER CO. 12450 Old Galveston Rd., Webster, TX 77598

713 486-7691

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Tower masts, rigging, hardware, lighting

ALL MOBILE VIDEO 630 Ninth Ave., New York, NY 10036 212 757-8919

Mobile production & post-production facilities rental; equipment rental services.

ALLSOP Box 23, Bellingham, WA 98227 206 734-9090

Allsop 3 audio and video head cleaners. degaussers; tape cleaners, evaluators; record cleaning, care products.

ALPHA AUDIO 2049 W. Broad St., Richmond, VA 23220 804 358-3852

Electronic audio editors, editors for digital audio. Sonex soundproofing material Recording studios; audio post-production facilities

See ad on pg. 148. Circle No. 243.

ALPHA VIDEO & ELECTRONICS 28 East Mall Plaza, Carnegie, PA 15106 412 923-2070

Alphatized modified Sony 3/4-inch VCRs.

ALPHA WIRE CORP.

711 Lidgerwood Ave., Elizabeth, NJ 07207

201 925-8000

Transmission line: foam dielectric, coaxial. Audio, video & lighting/ac cable; cable connectors; jackfields, patch panels. Heat shrinkable & non-heatshrink insulation; custom cable designs.

ALTA GROUP

535 Race St. #230, San Jose, CA 95126 408 297-2582

Pyxis portable video switcher, digital efx generator & TBC. Cygnus video colorizer, TBC, field synchronizer/framestore & dropout compensator. See ad on pg. 110. Circle No. 174.

ALTEC LANSING 10500 W. Reno, Oklahoma City, OK 73128 405 324-5311

Graphic equalizers. Monitor speakers. Mics: dynamic, electret condenser, lavalier. Preamps, line amps, monitor/power amps.

ALTRONIC RESEARCH

Box 249, Yellville, AR 72687 501 449-4093

Omegaline RF loads.

AMBER ELECTRO DESIGN

4810 Jean Talon W., Montreal, Que., Canada H4P 2N5 514 735-4105

Audio test signal generators, harmonic distortion meters, IM meters, spectrum analyzers: dB meters

See ad on pg. 104. Circle No. 169.

AMCO ENGINEERING CO.

3801 N. Rose St., Schiller Pk, IL 60176 312 671-6670 Cabinets.

AMEK CONSOLES

10815 Burbank Blvd., N. Hollywood, CA 91601 818 508-9788

Portable, stereo studio & audio-for-TV consoles; console automation; video interface for consoles.

AMERICAN DIVERSIFIED 3200 Park Center, Costa Mesa, CA 92626

714 241-7800 Cue FM SCA equipment.

See ad on pg. 151. Circle No. 250.

AMERICAN IMAGE PRODUCTIONS 1708 Grand Ave., Nashville, TN 37212 800 251-2058

Recording studios; audio post-production facilities; music libraries.

AMERICAN LASER SYSTEMS 106 Fowler Rd., Goleta, CA 93117

805 967-0423 Optical infrared (atmospheric) video transmission system

AMERICAN VIDEO FACTORY 4150 Glencoe Ave., Marina del Rev. CA 90291

213 823-8622

Video production facilities.

AMHERST ELECTRONIC INSTRUMENTS

Box 201, Hayedenville, MA 01039 413 268-7204

Amicon intelligent image processor/edit controller.



AVCOM EQUIPMENT DELIVERS SCPC, AUDIO SUBCARRIER, AND VIDEO RECEPTION TO THE BROADCAST INDUSTRY.

\$1965



PSA-35 PORTABLE SPECTRUM ANALYZER

AVCOM's PSA-35 Portable Spectrum Analyzer is the solution to your satellite communication equipment installation and service problems. The PSA-35 is light weight, portable, and has an internal gel-cel power supply that makes it ideal for field test situations. The PSA-35 also operates from 115 VAC (220 or 240 VAC available). The frequency coverage of the PSA-35 is from less than 10 to over 1500 MHz (special order to over 1800 MHz), and from 3.7 to 4.2 GHz, in six bands. An internal DC power block supplies +18 VDC to LNA's and BDC's and is controlled by a front panel switch.

The PSA-35 Portable Spectrum Analyzer will accurately measure the amplitude of wideband signals commonly used in the satellite communications industry. Your PSA-35 will be indispensable for accurate and rapid testing, alignment of satellite equipment, measuring and documenting system performance, and fast precise Terrestrial Interference identification.

Many helpful and unique accessories are available for the PSA-35, such as the TISH-40 Terrestrial Interference Survey Horn, the SSC-70 Signal Sampler and Calibrator, the WCA-4 Waveguide to Coax Adapter, and the QRM-35 Quick Release

\$479

Rack Mount which allows you to slip your PSA in or out of a rack in seconds. U.S. and Foreign patent protection for the PSA-35 and certain unique and proprietary circuits therein is pending.



SCPC-2000C LOW PHASE NOISE / HIGH STABILITY RECEIVER

\$1875

AVCOM's SCPC-2000C Single Channel Per Carrier receiver has been developed for the reception of SCPC signals from satellites operating in the 3.7 to 4.2 GHz band. The SCPC-2000C is a complete receiver and can tune specific audio channels from a given transponder and adapt to a variety of deemphasis and companding requirements.

At the heart of the SCPC-2000C is a sophisticated phase locked microwave oscillator and multiplier system that enables the SCPC-2000C to exhibit exceptional stability. The frequency accuracy and low phase noise of the phase locked cavity oscillator make the use of smaller antennas possible. You can obtain very high audio signal to noise ratios with an AVCOM SCPC-2000C. No other equipment at a comparable price can offer the performance of the SCPC-2000C Receiver.

Included in the SCPC-2000C Receiver is AVCOM's Audio Expandor Module, AEM-123. The AEM-123 is a cost effective means of obtaining versatile preset 1-to-2 or 1-to-3 expansion with a choice of 0, 25, 50, or 75 microsecond deemphasis. Other features include selectable low pass 15, 7.5, or 5 kHz audio filters, and an on-board output driver stage for speaker or low impedance microphones. The SCPC-2000C comes in a standard $3\frac{1}{2}$ " rack mount cabinet.

Radio stations, information services, data networks, music and news distributors, and educational broadcasting systems will find AVCOM's SCPC-2000C Low Phase Noise / High Stability Professional Receiver one of the most reliable and cost effective values in the industry today.



AEM-123 AUDIO EXPANDOR MODULE

The AVCOM Audio Expandor Module is adaptable to many broadcast and industrial applications. Standard equipment in the AVCOM SCPC-2000C, the AEM-123 is now available separately. The AVCOM Audio Expandor Module is a cost effective means of obtaining versatile preset 1-to-2 or 1-to-3 expansion with a choice of 0, 25, 50, or 75 microsecond deemphasis. Other features include on-board output driver stage for speaker or low impedance earphones, selectable low pass 15, 7.5, or 5 kHz audio filters. Available with custom power supply or without packaging for OEM applications.



COM-20T HIGH STABILITY SATELLITE RECEIVER

AVCOM's COM-20T Professional Satellite Receiver and RDC-20 / RDC-21 Remote Downconverters are the answer to your need for a high stability, low cost, reliable receiver for cable, private cable, radio stations, TV stations, and other dedicated channel applications. The highly stable COM-20T can be factory or field adjusted to a particular transponder and will remain on frequency. Front panel selection for two preset downconverters is standard, the additional downconverter is optional. The COM-20T is

\$597

500 SOUTHLAKE BOULEVARD

normally supplied with a remote downconverter and tunable audio.



COM-66T SATELLITE RECEIVER \$939 AVCOM's COM-66T Professional Receiver is the answer for cost effective multi-receiver installations. The 66T is a block downconversion receiver system that offers commercial quality with double conversion and high stability. The flexible downconverter allows the use of any degree or brand LNA. Features include automatic polarization control, unclamped video jack for decoders, standard 31/2" rack mount, tunable audio with triple IF filters (optional). The COM-66T is designed to be used with AVCOM's dual conversion BDC-60 Block downconverter or other 270 to 770 MHz BDC's. International reception options are available for the COM-66T and COM-20T

AVGOV RICHMOND, VIRGINIA 23236 TELEPHONE (804) 794-2500 TOLL FREE ORDER LINE: 1-800-446-2500 — TELEX: 701 545 Terms and specifications subject to change without notice.

Circle 137 on Reader Service Card

AMP SPECIAL INDS.

Box 1776, Southeastern, PA 19399 215 647-1000

BNC, taper pin, pin & socket connectors.

Ь AMPEREX ELECTRONIC CORP. Providence Pike, Slatersville, RI 02876 401 762-3800

Plumbicon camera pickup tubes.

Field Offices:

CA Kent Holston, 3000 Scott Blvd. #107, Santa Clara 95054 408 727-6132 CA Tom Laury, 3760 Cahuenga Blvd., N. Hollywood 91604 818 980-4212 GA Lee Nowell, 3731 N. Crest Rd. #7, Atlanta 30340 404 458-2519 IL Greg Smith, 360 Beinoris Dr., Wood Dale 60191 312 860-7373 NY Ed Cirri, 230 Duffy Ave., Hicksville 11802 516 931-6200 TΧ Greg Gambill, 13773 N. Central Exy. #1228. Dallas 75243 214 231-3481

AMPEX CORP., AVSD

401 Broadway, Redwood City, CA 94063 415 367-2296

One-inch C & Betacam VTRs; composite digital multicassette decks. Replacement & rebuilt video heads, VTR refurbishing & rebuilding. Digital still stores, digital art/paint systems, character generator/graphics systems; PictureMaker 3D modeling & manipulation systems. Production & post-production switchers. Digital efx generators. Automated master control switchers Multisource video editors. TBCs. ENG cameras. CCD cameras, recorder/cameras.

Field Offices:

CA Roger Miller, 500 Rodier Dr., Glendale 91201-2331 818 247-2771 GA Paul Hansil, 1872 Montreal Rd., Tucker 30084-5709 404 491-7112 IL Dick Coomes, 719 W. Algonquin Rd., Arlington Heights 60005-4448

312 593-6000 MD Rollin Stanford, 10215 Fernwood Rd. Bethesda 20817-1198 301 530-8800 NJ Frank Rush, 5 Pearl Ct., Allendale 07401-1678 201 825-9600 TX Frank Nault, 3353 Earhart Dr., Carrollton 75006-5026 214 960-1162 See ad on pg. 50 - 51. Circle No. 134.

AMPEX CORP., MAGNETIC

401 Broadway, MS 22-02, Redwood City, CA 94063

415 367-3809

Open-reel audio tape, audio cassettes, empty reels & carts. Videotape: two-inch, oneinch, ¾-inch cassettes, half-inch cassettes. empty reels, carts & cassettes

Circle No. 104. See ad on pg. 6 - 7.

AMTEL SYSTEMS 33 Main St. #303, Nashua, NH 03060 603 880-9011

Evertz time code synchronizers & VITC reader/generators. AMTEL SMPTE time code generator/readers. Video slate board/ countdown generators. Video routing switchers.

Ь AMTRON CORP. 2260 De La Cruz Blvd., Santa Clara, CA 95050 408 688-4445

Ultra high-resolution RGB color monitors

ANCHOR AUDIO 913 W. 223 St., Torrance, CA 90502 800 262-4671

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Monitor speakers; hardwired intercoms. Battery-powered field playback audio systems.

ANDERSEN LABORATORIES

1280 Blue Hills Ave., Bloomfield, CT 06002 203 242-0761

Video delay lines. RF filters.

ANDREW CORP. 10500 W. 153 St., Orland Park, IL 60462 312 349-3300

Transmit/receive, receive-only & transportable satellite earth stations; satellite network controllers. Intercity & portable ENG microwave systems, SMATV systems. Trasar TV HP & CP antennas; communications antennas, Rigid transmission line: Heliax foam dielectric & coaxial transmission line, RF connectors. Grasis tower masts, rigging, hardware, lighting. STLs, TSLs. Field installation & program management services.

Field Offices:

CA 1037 W. 9 St., Upland 91786 714 946-7777

CA 805 Veteran's Blvd. #226, Redwood City 94063 415 368-3131 CO 451 E. 58 Ave. #2585, Denver 80216 303 295-1042 GA 6205 Barfield Rd. N.E. #245, Atlanta 30328 404 256-0881 MA 393 Totten Pond Rd., Waltham 02154 617 890-0888 301 Duck Rd., Grandview 64030 MO 816 966-6400 NJ 550 N. Maple Ave., Box 5127, Ridgewood 07451 201 652-1310 TX 2701 Mayhill Rd., Denton 76201 817 566-2400 TX 1500 W. Plano Pky., Plano 75075 214 578-0078 VA 1481 Chain Bridge Rd. #102, Box

1277, McLean 22101 703 442-8771

ANGENIEUX

7700 N. Kendall Dr. #303, Miami, FL 33156 305 595-1144

Circle No. 235.

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Camera lenses See ad on pg. 138.

R.B. ANNIS CO.

b

1101 N. Delaware St., Indianapolis, IN 46202 317 637-9282

Magnetic field indicators. Audio & video head cleaners, degaussers, tape erasers, tape degaussers.

ANRITSU AMERICA

128 Bauer Dr., Oakland, NJ 07436 201 337-1111

Fiberoptic systems. Audio signal analyzers. spectrum analyzers. Video test signal generators, waveform monitors, diff. phase/gain meters, video noise meters, automatic VITS analyzers, automatic video analyzers. Field intensity meters, RF power meters, wattmeters, RF test signal generators, impedance bridges, MSA microwave system analyzers. Microwave & millimeter power meters Logic analyzers, signal generators, frequency counters

Field Offices:

CA 50 W. Brokaw Rd. #209, San Jose 95110 408 287-0705 IN 537 Turtle Creek S. Dr. #146 Indianapolis 46227 317 787-0761

ANT TELECOMMUNICATIONS

211 Perry Pky. #4, Gaithersburg, MD 20877 301 670-9778

Telcom audio noise reduction.

ANTENNA TECHNOLOGY CORP.

8711 Pinnacle Peak Rd. #C-103, Scottsdale, AZ 85255 602 264-7275/800 264-7275

Simulsat receive-only satellite earth stations & multibeam antennas; LNAs. Turnkey earth station installations & engineering

ANTON/BAUER

1 Controls Dr., Shelton, CT 06484 203 929-1100

Micro Control CCU. Lamps. Nicad batteries, chargers, belts; silver-zinc batteries, chargers; ac power dividers. MicroControl standalorie CCUs. Video & lighting/ac cable; cable connectors See ad on pg. 39.

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Circle No. 123.

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ANVIL CASES

4128 Temple City Blvd., Rosemead, CA 91770

800 423-4297/in CA 800 242-4466

Foam insert & rack configuration transportation cases.

APERT-HERZOG CORP.

7007 Realm Dr., San Jose, CA 95119 408 225-1425

Digital still stores, video animation controllers. Telecine control systems. TBCs, field/ framestores. Video DAs.

APHEX SYSTEMS

13340 Saticoy St., N. Hollywood, CA 91605 213 765-2212

Aphex Aural Exciter psychoacoustic enhancer. Compellor intelligent compressor/ leveller/peak limiter; Dominator AM & FM compressor/limiter

APPLELOG

357 N. Main St., Butler, PA 16001 412 283-1500

Radio business automation software.

APPLIED DIGITAL TECHNOLOGY 39 W. 14 St., New York, NY 10011 212 929-2360

Relecon color correcting & video processing computer system.

APPLIED RESEARCH & TECHNOLOGY/ART See ART

ARBEN DESIGN

600 W. Roosevelt, West Chicago, IL 60555 312 231-5077

Star camera dolly; "Candy's Crane," Bertha crane. Lebenset modular news, studio sets; custom scenery construction, props & materials, set design services. Video production facilities, lighting & grip truck rental, equipment rental services.

ARISTOCART, DIV. WESTERN INTL.

17-825 McBride Blvd., New Westminster, BC. Canada V3L 5B5 604 826-3214

Open-reel audio tape, carts, test tapes & leaders

Circle No. 226. See ad on pg. 129.

ARRAKIS

204 N. Link Ln. #3, Fort Collins, CO 80524 303 224-2248

Mic mixers; portable, mono & stereo studio consoles. Audio routing switchers. Studio furniture; cart/tape storage.

ARRIFLEX CORP. 500 Rte. 303, Blauvelt, NY 10913 914 353-1400

Cine cameras. Zeiss motion picture lenses. HMI fixtures: Arrilites quartz fixtures. CineJib crane; camera stabilizing systems.

ART/APPLIED RESEARCH & TECHNOLOGY

215 Tremont St., Rochester, NY 14608 716 436-2720

Graphic equalizers; digital audio efx & reverb, digital delay, time compression/expansion. See ad on pg. 134. Circle No. 229.

ARTEL COMMUNICATIONS CORP. Box 100, West Side Sta., Worcester, MA 01602

617 752-5690

Fiberoptic video/audio/data transmission systems. Fiberoptic graphics communication systems.

CA Rich Stucky, 1420 Cristo Rey Dr., Los 415 966-1919 Altos 94022 CA Ron Pretelac, Box 6956, Westlake Vil-805 495-4883 lage 91359 PA Bob Rosenbaum, 137 N. 22 St., 215 557-7993 Philadelphia 19103 TX Mark Harding, 4001 Airport Fwy. #500, 817 540-2051 Bedford 76021

ARTRONICS

300 Corporate Ct., Box 408, S. Plainfield, N.I 07080 201 756-6888

Video Paint Library digital still store; video animation controllers. Digital art/paint systems, 3D modeling & manipulation

ARUS CORP. 1305 Conkling Ave., Utica, NY 13501 315 793-8500

Hardwired teleconferencing system. Tie Line audio test equipment.

Ь ASACA/SHIBASOKU CORP. 12509 Beatrice St., Los Angeles, CA 90066 213 827-7144

Videotape cleaners, evaluators. Portable & compact studio/mobile production switchers. Sync, black burst, color bar & multiburst generators. NTSC encoders. Video monitors: NTSC, RGB, battery-powered portable, monitor calibrators. Audio test signal generators, harmonic distortion meters. Video test signal generators, video noise meters, automatic VITS analyzers. Image pickup system; automatic video cart system; color decoders.

A&S CASE CO. 1111 N. Gordon St., Hollywood, CA 90038 213 466-6181

Cabinets, equipment racks, cart/tape storage.

ASHLY AUDIO

100 Fernwood Ave, Rochester, NY 14621 716 544-5191

AM & FM compressor/limiters, parametric & graphic equalizers; monitor/power amps.



ASSOCIATED PRESS BROADCAST SERVICES

1825 K St. NW #615, Washington, DC 20006

202 955-7243

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TV and radio wire serivces; video news wire; AP Network News. Wire service printers.

ASSOCIATED PRODUCTION MUSIC 888 Seventh Ave., New York, NY 10106 212 977-5680

Production music libraries

Field Office:

CA John Osiecki, 6255 Sunset Blvd. #724, 213 461-3211 Hollywood 90028

Ь ASTON ELECTRONICS 346 N. Lindenwood Dr., Olathe, KS 66062 913 782-4007

Aston 3 & Aston 4 character generator/ graphics systems.

ATI-AUDIO TECHNOLOGIES 328 Maple Ave., Horsham, PA. 19044 215 443-0330

MicroAmp mic mixers; Vanguard Series portable, mono studio & stereo studio audio consoles. EmphaSizer ALC & AGC amps, AM & FM compressor/limiters, parametric equalizers. Encore, MicroAmp preamps, audio DAs; MicroAmp Series line amps, monitor/power amps, amp power supplies. MicroMeter audio routing switchers, VU meters, PPM meters & LED audio level displays. IHF-PRO interface box. See ad on pg. 146.

Circle No. 242.

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ATLANTIC RESEARCH CORP. 5390 Cherokee Ave., Alexandria, VA 22312-2302

703 642-4000 Facilities design & engineering services; en-

aineering consultants.

ATLANTIC VIDEO 150 S. Gordon St., Alexandria, VA 22304

703 823-2800

Video production & post-production facilities; mobile production facilities rental; set/ studio design services.

ATLAS SOUND

10 Pomeroy Rd., Parsippany, NJ 07054 201 887-7800

Audio monitor speakers; mic booms & dollies

A/T SCHARFF RENTALS 1619 Broadway, New York, NY 10019 212 582-7360

Audio equipment rental services.

AT&T COMMUNICATIONS Rte. 202-206, Bedminister, NJ 07921 201 234-7546

Transmit/receive & receive-only satellite earth stations; satellite system design services; engineering consultants.

AUBURN INSTRUMENTS

107 Church St., Watertown, MA 02172 617 923-4747 Parallel interface machine control.

AUDICHRON CO.

3620 Clearview Pkwy., Atlanta, GA 30340 404 455-4890 Automatic time/weather announcement

systems. Ь

AUDICO

219 Crossen Ave., Elk Grove, IL 60007 312 640-1030

Audio & video tape loaders, timers, rewinders. Videotape cleaners, evaluators.

AUDI-CORD CORP.

1845 W. Hovey Ave., Normal, IL 61761 309 452-9461

Audio cart player/recorders: single-deck, dual/triple deck, time delay. Replacement audio heads.

AUDIO ACCESSORIES Mill St., Marlow, NH 03456

603 446-3335

Audioline audio patch panels; prewired jackfields. Video jack panels. Miniature & full-size patch cords.

AUDIOARTS ENGINEERING, DIV. 6 WHEATSTONE

5 Collins Rd., Bethany, CT 06525 203 393-0887

AM & FM compressor/limiters; parametric & graphic equalizers; audio crossovers.

AUDIO BROADCAST GROUP 2342 S. Division, Grand Rapids, MI 49507 616 452-1596

Studio furniture. Audio turnkey facility installations; distributor of audio equipment.

AUDIO & DESIGN CALREC Box 786, Bremerton, WA 98310 206 275-5009

Portable audio consoles, stereo studio consoles, audio-for-TV consoles, console automation. Digital audio recorders. ALC & AGC amps, AM & FM compresser/limiters, parametric & graphic equalizers, audio noise reduction. Analog efx & reverb. Electret/ condenser mics. Preamps, line amps, monitor/power amps. Audio DAs. SMPTE time code generator/readers.

AUDIO DEVELOPMENTS See PORTLAND INSTRUMENTS

AUDIO/DIGITAL

1000 S. Bertelsen Rd. #4, Eugene, OR 97402

800 423-1082/503 687-8412

Digital audio delay; broadcast profanity delay & digital processor.

AUDIO KINETICS

1650 Hwy 35 #5, Middletown, NJ 07748 201 671-8668

MasterMix audio console automation; Q.Lock SMPTE time code synchronizers; audio/video sync delay; Pace low-cost synchronizer; Eclipse 32-machine editing system.

AUDIO METRICS See RADIO SYSTEMS

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Before You Buy A Rank Cintel, You'd Better Take A Look At The New Marconi B3410.



Since we've added three options—vari-speed, X-Y zoom and still frame color correction —we believe, and a great many professionals agree—the Marconi B3410 is now the outstanding telecine for both post-production and broadcast markets.

For one thing, its fully-digital processing and CCD image sensors deliver the best video picture in the business. And because it is fully digital, it does not require time-consuming tweaking, day-to-day adjustments and set-up arrangements that rob you of valuable hours of productive work. Because of this repeatability, two minutes is all it takes to start up.

In addition, there is no registration drift and no tubes to deteriorate or replace. It interfaces with all available color correctors, switches to all international standards and, by its very digital nature, is designed to have an exceptionally long life.

exceptionally long life. The fact is, the New Kid on the Block has it all over the Old Guy. The Marconi B3410. Now unquest tionably the best!

The Marconi Line Array Telecine B3410

Exclusive North American Sales and Service by



A.F. ASSOCIATES INC.

ADVANCED SYSTEMS AND PRODUCTS FOR THE VIDEO INDUSTRY.

100 STONEHURST COURT, NORTHVALE, NJ 07647 (201) 767-1000 IN THE WEST: (213) 856-0152

AUDIO PLUS VIDEO INTL.

1438 N. Gower St., Hollywood, CA 90028 213 856-0152 Digital standards conversion service.

AUDIO PRECISION Box 2290, Beaverton, OR 97075 503 297-4837

System One audio test & measurement system: audio test signal generator, harmonic distortion meter, IM meter, wow & flutter meter

AUDIO-TECHNICA U.S. 1221 Commerce Dr., Stow, OH 44224

216 686-2600

Mic mixers, portable audio consoles. CD/ DAD players. Dynamic & lavalier mics; mic booms & dollies.

AUDIO TECHNOLOGY Box 94487, Schaumburg, IL 60195 312 882-6481

Audio noise reduction. Audio line amps. VU, PPM, LED level meters, dB meters.

AUDIO VIDEO CORP.

213 Broadway, Menands, NY 12204 518 449-7213

Video production & post-production facilities; equipment rental service; facilities design & engineering services; engineering consultants.

AUDIO-VIDEO ENGINEERING CO. 65 Nancy Blvd., Merrick, NY 11566

516 546-4239 Hum bucking coils.

AUDISAR

Box 1561, Bellevue, WA 98009 206 454-2040

One-output mic mixers; portable consoles. Monitor speakers. Dynamic & electret/ condenser mics. Preamps, line amps, monitor/power amps; amp power supplies. Audio DAs; telco interface equipment; audio multi boxes, splitters. Audio test signal generators. Transformers. Sound projector interface.

AUDITRONICS

3750 Old Getwell Rd., Memphis, TN 38118 901 362-1350

Stereo studio & audio-for-TV consoles. Preamps, line amps. Audio DAs; audio patch panels, jackfields. RTW PPM meters. See ad on pg. 4. Circle No. 102.

AUERNHEIMER LABS & CO.

4561 E. Florence Ave., Fresno, CA 93725 209 442-1048 Monitor speakers.

AURATONE CORP.

Box 698, Coronado, CA 92118 619 297-2820

Monitor speakers; speaker rack ears, mounting brackets.

AURORA SYSTEMS

185 Berry St., San Francisco, CA 94107 415 777-2288

Character generator/graphics systems, digital art/paint systems, 3D modeling & manipulation systems, "draw-on-screen" systems.

AUTOGRAM CORP. 1500 Capital, Plano, TX 75074 214 424-8585 Mono & stereo studio consoles, console automation, audio-for-TV consoles.

AUTOMATED BROADCAST CONTROLS

9155 Brookville Rd., Silver Spring, MD 20910

301 587-3505

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Complete program automation systems. Radio business automation hardware.

AVANTEK 481 Cottonwood Dr., Milpitas, CA 95035 408 943-7803

Transmit/receive & receive-only satellite earth stations; upconverters & downconverters, LNAs.

AVCOM OF VIRGINIA

500 Southlake Blvd., Richmond, VA 23236 804 794-2500

Receive-only satellite earth stations, downcoverters, LNAs. RF amps. Communications antennas. Power dividers, RF connectors. Spectrum analyzers; RF test signal generators.

See ad on pg. 56.

AVC SYSTEMS

2709 E. 25 St., Minneapolis, MN 55406 612 729-8305

Equipment rental services; distributor of audio & RF equipment.

Field Office:

IL 747 Church Rd. #A6, Elmhurst 60126 312 279-6580

AVSC 1880 Embarcadero Rd., Palo Alto, CA

1880 Embarcadero Rd., Palo Alto, CA 94303 415 493-3814

Replacement audio heads; head cleaners, degaussers. Audio cassettes, test tapes & leaders, tape erasers & degaussers. Video head cleaners & degaussers; VTR refurbishing & rebuilding; videotape erasers & degaussers.

BAF COMMUNICATIONS CORP. 228 Essex St., Salem, MA 01970 617 744-1505

SNV mobile satellite vehicles, conventional & hub-mounted.

WILLIAM BAL CORP.

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Box 875, 947 Newark Ave., Elizabeth, NJ 07207 201 354-9625

Foam insert transportation cases. Videotape cases. Custom case design.

BALD MOUNTAIN LAB 230 Bellevue Rd., Troy, NY 12180 518 279-9753

BML Audio step generator; digital dB meters.

BALLY ENGINEERED STRUCTURES Box 98, Bally, PA 19503 215 845-2311 Remote equipment shelters.

BARBIZON 426 W. 55 St., New York, NY 10019 212 586-1620 Lighting equipment rentals including lamps, HMI & quartz fixtures, lighting stands, connectors, dimmers; rentals of nicad power equipment, generators, HMI ballasts. Distributor of Mole-Richard lighting equipment.

BARCO INDUSTRIES

170 Knowles Dr. #212, Los Gatos, CA 95030 408 370-3721

h

Circle No. 139.

NTSC decoders, comb filter decoders. Video monitors: monochrome, NTSC, RGB, high resolution, wide aspect ratio, batterypowered portable.

Field Offices:

NC 2211B Executive St., Charlotte 28208 704 392-9371 NH 472 Amherst St. #10, Nashua 03063 603 880-1430

See ad on pg. 61.

b

Circle No. 137.

BARCUS-BERRY ELECTRONICS b 5500 Bolsa Ave. #245, Huntington Beach, CA 92649 714 897-6766

Audio signal processor.

BARDWELL & MCALLISTER

7051 Santa Monica Blvd., Hollywood, CA 90038

213 466-9361

Quartz lighting fixtures, cyc lighting, diffusion & efx material, lighting stands & rigging. Camera tripods, heads.

BARRETT ASSOCIATES

3205 Production Ave., Oceanside, CA 92054 619 433-5600

Used & reconditioned audio & RF equipment.

BASF SYSTEMS CORP. 19 Crosby Dr., Bedford, MA 01730

617 271-4000 Open-reel & cassette audio tape, test tapes. Videocassettes.

BASYS

900 Stierlin Rd., Mountain View, CA 94043 415 969-9810

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Radio & TV newsroom computer systems.

BAY AREA MOBILETAPE

1019 E. San Carlos Ave., San Carlos, CA 94070 415 593-7124 Mobile production facilities rental.

BAYLY ENGINEERING See AEG BAYLY

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B&B SYSTEMS 28111 N. Ave. Stanford, Valencia, CA 91355 805 257-4853 VU & PPM meters.

BEAVERONICS 8 Haven Ave., Port Washington, NY 11050 516 883-4414

Compact studio/mobile production switchers. RGB chromakeyers, title keyers, downstream keyers. Favag clock/timing systems.

BELAR ELECTRONICS

119 Lancaster Ave. Box 76, Devon, PA 19333 215 687-5550

THE FIRST INTELLIGENT BROADCAST COLOR MONITOR

SET UP	Input	FT(27-1,7-1)	Q(
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BARCO INDUSTRIES new CVS professional broadcast monitor is microprocessor-based to make it intelligent in operation and easy to use.

It has both a digital and an analog bus for maximum flexibility. Plus four "open" slots that let you plug in today's options and those yet to come. As new features do come along, you'll be able to add them through software - no hardware changes !

All CVS functions are controlled from the front of the monitor or from a remote keyboard. An optional master remote permits control of a series of monitors. WE PUT THE FUTURE IN THE PICTURE.

BARCO-

You can also store, and automatically call up, either calibrated presets or your own preferred presets.

Like our best master control monitors, the CVS has Automatic Kinescope Biasing (AKB) to maintain color and black level stability.

The CVS also generates more internal test patterns than any other monitor. They include white field, cross hatch and color bars.

The CVS is available in both 14 inch and 20 inch versions, and provides outstanding picture quality in any TV standard.

For complete specifications, contact your local BARCO INDUSTRIES Dealer or BARCO INDUSTRIES, 170 Knowles Drive, Suite 212, Los Gatos, CA 95030, Phone : (408) 370-3721.

> BARCO INDUSTFIES is a member of the ACEC-group. Circle 139 on Reader Service Card

Demodulators, modulation monitors, frequency monitors & controllers. See ad on pg. 119. Circle No. 200.

BELDEN COMMUNICATIONS

534 W. 25 St., New York, NY 10001 212 691-1910

Lee resin & polyester camera filters.

BELDEN ELECTRONIC WIRE & CABLE Box 1980, Richmond, IN 47375

317 983-5200 Audio & video cable; cable connectors.

BELL HELICOPTER/TEXTRON

Box 482, Ft. Worth, TX 76101 817 280-8200 Helicopters.

B.E.S.

12753 Moore St., Cerritos, CA 90701 800 592-4644

Monitor speakers.

BEYER DYNAMIC 5-05 Burns Ave., Hicksville, NY 11801 516 935-8000

Mic mixers. Headphones. Mics: dynamic, electret/condenser, ribbon, PZM, RF, lavalier, shotgun, modular & capsule systems; mic booms, dollies. Preamps, line amps, monitor/power amps, amp power supplies.

BGW SYSTEMS 13130 S. Yukon, Hawthorne, CA 90250

213 973-8090

Monitor speakers. Power amps. Crossovers.

BHP

1800 Winnemac Ave., Chicago, IL 60640 312 989-2140

Telecine color correctors. Two-machine editor/controllers, A/B-roll editors, multisource video editors.

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BIAMP SYSTEMS Box 2160, Portland, OR 97208

503 641-7287

Mic mixers, portable consoles, stereo studio consoles. ALC & AGC amps, parametric & graphic equalizers. Analog efx & reverb. Monitor/power amps; crossovers.

BIRD ELECRONIC CORP. 30303 Aurora Rd., Cleveland (Solon), OH 44139

216 248-1200

Tenuline RF attenuators; RF filters, Termaline & Econoload RF loads; Coaxwitch RF switches. RF connectors, adapters, coupling kits. Thruline RF power meters & wattmeters; Termaline RF calorimeters; RF Power Analyst, Wattcher RF power monitor/alarm.

BIRNS & SAWYER

1026 N. Highland Ave., Hollywood, CA 90038 213 466-8211

Tripods; lens adapters. Sales & rentals of 16 & 35 mm film equipment.

BIW CABLE SYSTEMS 65 Bay St., Boston, MA 02125 617 265-2102

Audio, video, lighting/ac, fiberoptic & triax cable; cable connectors.

B&K PRECISION/DYNASCAN 6460 W. Cortland, Chicago, IL 60635 312 889-8870

Wow & flutter meters; MTS test equipment. Video test signal generators, waveform monitors, vectorscopes. RF test signal generators. Oscilloscopes, delayed sweepscopes, voltmeters, multimeters.

BLACK'S COMMUNICATIONS CONSULTANTS

120 W. Picacho, Las Cruces, NM 88005 505 524-9681

Broadcast equipment computer database; equipment rental services; facilities design & engineering services; engineering consultants.

BLONDER-TONGUE LABS

1 Jake Brown Rd., Old Bridge, NJ 08857 201 679-4000

RF amps, attenuators, converters, filters. Modulators. Receive-only satellite earth stations, upconverters, downconverters, LNAs. TV HP antennas.

BOGEN, A LEAR SIEGLER CO. 50 Spring St., Box 575, Ramsey, NJ 07446 201 934-8500

Bogen & Hi-Tek graphic equalizers. Monitor speakers. Hardwired intercoms. Dynamic, electret/condenser & lavalier mics. Bogen & Hi-Tek Preamps & monitor/power amps; line amps.

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BOGEN PHOTO CORP. 17-20 Willow St., Fair Lawn, NJ 07410 201 794-6500

Lighting stands & rigging. Tripods, heads, dollies.

BOGNER BROADCAST EQUIPMENT

401 Railroad Ave., Westbury, NY 11590 516 997-7800

TV HP & CP antennas; communications antennas.

BONNEVILLE BDCST. CONSULTANTS 274 County Rd., Tennafly, NJ 07670 800 631-1600

Syndicated radio programming

BONNEVILLE MEDIA COMMUNICATIONS 130 Social Hall Ave., Salt Lake City, UT 84111 801 237-2400 Audio line amps & DAs.

BONNEVILLE SATELLITE CORP.

19 West S. Temple, Salt Lake City, UT 84101 801 534-8031 Turnkey conferencing services; mcbile & fixed satellite uplinking.

BOONTON ELECTRONICS CORP. 791 Rte. 10, Randolph, NJ 07869 201 584-1077

Modulation monitors, RF power meters, wattmeters, RF test signal generators, impedance bridges. Voltmeters.

ROBERT BOSCH CORP., VIDEO EQUIPMENT DIV. Box 30816, Salt Lake City, UT 84130 801 972-8000

Audio DAs, audio routing switchers. Studio, field, ENG & lightweight video cameras; recorder/cameras. One-inch B and C VTRs. Quartercam quarter-inch VCRs. Solid state telecine systems. Character generator/ graphics systems, digital art/paint systems, 3D modeling & manipulation, "draw-onscreen" systems. Compact studio/mobile & large automated production switchers; postproduction switchers; component switchers. Manual & automated master control switchers. Parallel & serial interface video routing switchers. Parallel & serial interface machine control/technical automation; vertical interval systems. Sync generators. Video noise reducers. NTSC encoders. Video DAs, pulse amps, subcarrier amps. NTSC & RGB video monitors.

Field Offices:

CA 3391 Robertson PL, Los Angeles 90034 213 559-5631 GA 6095 Boatrock Blvd., Atlanta 30336 404 344-5649 1421 W. 1 St., Pella 50219 IA 515 628-1717 IL 3436 N. Kennicott Dr. #110, Arlington Heights 60004 312 577-9780 MD 1502 Pine Bluff Way, Arnold 21012 301 757-7200 NJ Park 80 W., Plaza 1, Saddle Brook 07662 201 843-2500

BOWEN BROADCAST SERVICE

8343 Lynn Haven Ave., El Paso, TX 79907 915 598-5556

Teleho computerized equipment maintenance assistance system. TCR-100 refurbishing, maintenance.

BPI/BROADCAST PROGRAMMING INTL.

2211 Fifth Ave., Seattle, WA 98121 206 728-2741

Syndicated radio programming; program consultants.

BRADLEY BROADCAST SALES

15555-L Frederick Rd., Rockville, MD 20855

301 762-9222/800 732-7665 Distributor of audio, RF, T&M equipment, cases, cable

BRETFORD MANUFACTURING

9715 Soreng Ave., Schiller Park, IL 60176 312 678-2545

Video projectors. Studio furniture, cabinets.

WALTER S. BREWER CO.

4717F S. Mingo Rd., Tulsa, OK 74146 918 665-6820

Lighting, studio & remote facilities design & installation services. Distributor of full line lighting & grip equipment.

BRINTEC CORP.

1600 W. Main St., Willimantic, CT 06226-1128 203 456-8000

Audio, video & lighting/ac cable; cable connectors.

BROADCAST AIDS

20 Red Rose Dr., Levittown, PA 19056 215 547-7133

Digital clocks; timers. Electronic maintenance; equipment customizing.

BROADCAST AUDIO CORP.

11306 Sunco Dr., Rancho Cordova, CA 95670

916 635-1048

Stereo studio & audio for TV consoles. ALC & AGC amps, AM & FM compressor/limiters. Preamps, line amps, monitor/power amps. Audio DAs. Rotary & slide attenuators; VU meters.

See ad on pg. 29.

BROADCAST CARTRIDGE SERVICE 15131 Triton Ln. #108, Huntington Beach, CA 92649

714 898-7224

Audio cartridge reloading service Simpac cart/tape storage. Distributor of open-reel audio tape, carts, cassettes, empty reels & carts.

BROADCAST ELECTRONICS Box 3606, Quincy, IL 62301 217 224-9600

Mic mixers; portable, mono & stereo studio audio consoles. Cart players: single-deck, dual/triple-deck, multi-deck, time delay decks. Audio tape loaders, timers, rewinders; tape erasers, degaussers Turntables. Computer automation controllers, automatic satellite switchers, complete program automation systems. ALC & AGC amps, AM & FM compressor/limiters Preamps, line amps, monitor/power amps Audio DAs, telco interface equipment

FM transmitters. AM stereo & FM exciters. stereo generators. RF amps FM & TV SCA equipment TV stereo generators & SAP generators.

BROADCAST MICROWAVE SERVICES

7322 Convcy Ct., San Diego, CA 92111 619 560-8601

Microwave systems: intercity, portable ENG, airborne, central receivers STLs, TSLs. Diplexers, multiplexers. RF amps, attenuators, filters Receive-only & transportable satellite earth stations. Auto trackers; van & newscar microwave systems.

BROADCAST MUSIC/BMI

320 W. 57 St., New York, NY 10019 212 586-2000 Syndicated radio programming, music

Syndicated radio programming, music licensing.

BROADCAST SUPPLY WEST 7012 27 St. W., Tacoma, WA 98466 800 426-8434/206 565-2301

ProRax cart & CD storage racks. Distributor of full line broadcast equipment

BROADCAST SYSTEMS 8222 Jamestown Dr., Austin, TX 78758 512 836-6011/800 531-5232

Studio furniture, cabinets, studio consoles, equipment racks. Equipment rental services, facilities design & engineering services, financial consultants; earth station site selection, mobile vehicle construction

BROADCAST VIDEO SYSTEMS LTD. 1050 McNicoll Ave., Agincourt, Ont., Canada M1W 2L8 416 497-1020

Title keyers, composite & component downstream keyers, nonadditive keyers, component/RGB translators, video source ID. Color bar & safe title area generators Cox telecine & VTR color correctors, RGB chromakeyers, NTSC encoders BVS/BAL video delay lines, video filters

BROADWAY VIDEO

1619 Broadway, New York, NY 10019 212 265-7600

Video post-production facilities, audio/video consulting.

BRUEL & KJAER INSTRUMENTS 185 Forest St., Marlborough, MA 01752 617 481-7000

Electret/condenser mics, stereo mics. Audio test signal generators, harmonic distortion meters. IM meters, spectrum analyzers, real time analyzers, wow & flutter meters. Phase meters. Voltmeters

Field Offices:

CA 1542 E. Katella, Anaheim 92805 714 978-8066 CA 1151 Triton Dr #B, Foster City 94404 415 574-8155 GA 2030 Powers Ferry Rd. #214, Atlanta 30339 404 951-0115 IL 555 W Central Rd, Hoffman Estates, 60195 312 358-7582 MD 21: Perry Pky. #4. Gaithersburg 20877-1375 301 948-0494 MI 12878 Farmington Rd., Livonia 48150 313 522-8600 NJ 1140 Bloomfield Ave, W Caldwell 07006 201 227-6100 TX 8031 Airport Blvd #115, Houston 77061 713 645-0167 WA 400 Boren Ave. N., Seattle 96109

206 625-1112

BRYSTON LTD.

57 Westmore Dr., Rexdale, Ont., Canada M9V 3Y6

406 746-1800

Preamps line amps, monitor/power amps. LED audio level displays **Field Office:**

VT RFD #4, Box 2255, Montpelier 03602 800 451-4160/223-6159

Video Delay Lines

ALLEN AVIONICS Video & Pulse Delay Lines replace 75 ohm coaxial cable. They reduce size, weight, costs; save time & effort in making delay changes.

Part No.	Delay Range (Nano- Sec.)	Delay Steps (Nano- Sec.)	Method of Variation	Maximum Insertion Loss @ 100 KHz (db)	Amplitude Flatness At Any Delay Setting 100 KHz to 5.5 MHz (db)	Max. Rise Time (Nano- Sec.)	Package Size (Inches)
VAR005	3-7	Continuous	Trimmer	.20	.2 Max.	**N.A.	35/8 x 11/2 x 11/4
VAROTT	0-11	Continuous	Trimmer & Toggle	.20	.25	**N.A.	43/8 x 23/8 x 11/16
VAR256	0-256	Continuous	Trimmer & Toggle	.15	.4	18	43/8 x 23/8 x 1 1/16
VAR320	0-320	Continuous	Trimmer & Toggle	.20	.4	22	43/8 x 23/8 x 1 1/16
VAR640	0-640	Continuous	Trimmer & Toggle	.80	.5	27	411/16 x 311/16 x 21/16
VP0010	0-10.5	.5	Toggle	.15	.2	3	43/8 x 23/8 x 11/16
VP0127	0-127	1.0	Toggle	.15	.3	14	43/8 x 23/8 x 1 1/16
VP0255	0-255	1.0	Toggle	.15	.3	16	43/8 x 23/8 x 11/16
VP0317	0-317.5	2.5	Toggle	.15	.3	20	43/8 x 23/8 x 11/16
VP0635	0-635	5.0	Toggle	* .50	.4	25	411/16 x 311/16 x 21/16
VP1100	0-1100	10.0	Rotary	1.25	.4	30	411/16 x 311/16 x 21/16
VP1270	0-1270	10.0	Toggle	*3.00	.4	30	411/16 x 311/16 x 21/16
VP2075	0-2075	25.0	Toggle	*3.00	.5	40	73/8 x 411/16 x 23/16
VW0317	0-317.5	2.5	Strap	.25	.4	28	5x31/2x2
VW0635	0-635	5.0	Strap	.60	.5	33	5x31/2x2
VW1270	0-1270	10.0	Strap	1.25	.5	33	61/2 x 31/2 x 2
VW2075	0-2075	25.0	Strap	2.50	.5	40	61/2 x 31/2 x 2
		R	ACK MOUN	TABLE	UNITS		**Not Applicable.
VRM011	0-11	Continuous	Trimmer & Slide	.30	.3 Max.	10	11/4 x 41/8 x 4
VRM0255	0-255	1.0	Slide Switch	.40	.4	20	11/4 x 41/8 x 4
VRM0637	0-637.5	2.5	Slide Switch	*1.00	.4	28	11/4 x 41/8 x 6
VRM1275	0-1275	5.0	Slide Switch	*3.00	.4	33	11/4 x 41/8 x 9
VRM2270	0-2270	10.0	Slide Switch	*3.00	.5	40	11/4 x 41/8 x 9
VRS0317	0-317.5	2.5	Strap	.40	.5	26	11/4 x 41/8 x 4
VRS0635	0-635	5.0	Strap	.75	.5	35	11/4 x 41/8 x 6
VRS1270	0-1270	10.0	Strap	1.50	.5	37	11/4 x 41/8 x 9
VRS2260	0-2260	20.0	Strap	3.00	.5	40	1¼x4½x9
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*±.2db variation at any delay setting.

Circle 140 on Reader Service Card



<u>Working Voltage:</u> 100 volts maximum. 50 volts maximum for Rack Mountable series.

<u>Return Loss:</u> 20db minimum. 15db minimum for VP2075, VS2075 and Rack Moumtable series.

Delay Tolerance: 5% or 1 nanosecond, whichever s greater.

We also specialize in Delay Equalized Lowpass F Iters for the Video Industry

CALL/WRITE For Delay Lines & Filters Catalog ALLEN AVIONICS, INC. 224 EAST SECOND ST., MINEOLA, NY 11501 Phone: 516-248-8080

BSM BROADCAST SYSTEMS Box 19007, Spokane, WA 99219 509 838-0110

Audio & video DAs, audio routing switchers. Parallel & serial interface video routing switchers.

BUHL OPTICAL CO. 1009 Beech Ave., Pittsburgh, PA 15233 800 245-4574 Optical multiplexers.

THE BURBANK STUDIOS

4000 Warner Blvd., Burbank, CA 91522 818 954-6000

Video production facilities.

RICHARD W. BURDEN ASSOC.

20944 Sherman Way, Canoga Park, CA 91303

818 340-4590

Facilities design & engineering services, engineering consultants.

BW LIGHTING SYSTEMS Box 470162, Tulsa, OK 74147 800 331-6042/918 664-1111

GE lamps. Quartz lighting fixtures, cyc lighting. Rosco diffusion & efx material. Matthews lighting stands & rigging. LMI & Teatronics lighting control boards, dimmer packs. Scenery rigging, props & materials. Lighting/ ac cable; jackfields, patch panels. Set/studio design services.

CABLEWAVE SYSTEMS 60 Dodge Ave., North Haven, CT 06473 203 239-3311

FM & communications antennas. Cellflex foam dielectric transmission line; Flexwell coaxial cable; RF connectors.

CALAWAY ENGINEERING Box 323, Sierra Madre, CA 91024 213 355-2094

CED video editing system; interfaces for GVG or CMX editing systems.

CALICO VIDEO CO. 8955 Thornton Rd., Stockton, CA 95209 209 952-3333

TCR-100 video cartridges. TCR-100 video cart reloading & remanufacturing.

CALVERT ELECTRONICS

1 Branca Rd., E. Rutherford, NJ 07073 800 526-6362

Camera pickup tubes, RF amps, tubes. Field Office:

CA 1355 Redondo Ave. #6, Long Beach 90804 213 526-6362

CALZONE CASE CO.

225 Black Rock Ave., Bridgeport, CT 06605

203-367-5766

Foam insert & rack configuration transportation cases; editing/production consoles. Equipment racks; cart/tape storage.

THE CAMERA MART

456 W. 55 St., New York, NY 10019 212 757-6977

Equipment rental service. East coast distributor of Ikegami EC-35 camera. U.S. distributor of Multidyne products & Milab audio products. Dealer & distributor of broad line video & film equipment.



Field Office:

NY 304 First St., Liverpool 13088 315 457-3703

See ad on pg. 5.

CANARE CABLE

832 N. Victory Blvd., Burbank CA 91502 818 840-0993

Circle No. 103.

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Audio & video cable; cable connectors; jackfields & patch panels.

CANON USA

1 Canon Plaza, Lake Success, NY 11042 516 488-6700

Television camera lenses. Tripods, heads, pedestals.

Field Offices:

CA 123 Paularino Ave. E., Costa Mesa 92626 714 979-6000 IL 100 Park Blvd., Itasca 60143-2693

312 250-6200 TX 3200 Regent Blvd., Irving 75063-3145 214 620-2641

CAPITOL MAGNETIC PRODUCTS

6902 Sunset Blvd., Hollywood, CA 90028 213 461-2701

Open-reel audio tape; Audiopak broadcast audio carts.

Field Offices:

CA Gordon Stafford/Cathy Lewis, 3116 W. Ave. 32, Los Angeles 90065 213 254-9111 IL Dick Dunlavy/Harriet Friefeld, 1400 Renaissance Dr. #309, Park Ridge 60068

312 298-1806 PA Dennis Schleich/Holly Homka, 2980 Ave. B, Lehigh Valley Ind. Pk #1, Bethlehem 18017 215 868-1401

See ad on pg. 66.

CAPTURED LIVE PRODUCTIONS 4911 Ferniee, Royal Oak, MI 48073 313 288-4080

Video production & post-production facilities; mobile production facilities rental.

CARLETON PRODUCTIONS

Video production & post-production facilities; mobile production facilities rental; recording studios; audio post-production facilities; equipment rental services; set/ studio design services; music libraries; video/film stock shot library; videocassette duplication; PSA dist. systems; TV production services.

CAROB VIDEO

250 W. 57 St., New York, NY 10107 212 957-9525

Video post-production facilities.

6

CARVIN MFG. CORP. 1155 Industrial Ave., Escondido, CA 92025 619 747-1710 Mono & stereo studio consoles. Monitor

speakers. Dynamic mics. Monitor/power amps.

CASES, INC. 1745 W. 134 St., Gardena, CA 90249

213 770-4444 Foam insert, padded nylon & rack configuration transportation cases. Equipment racks.

CAT SYSTEMS 401 E. 74 St., New York, NY 10021 212 988-0290

Computer automation controllers, automatic satellite switchers. Parallel & serial interface machine control/technical automation. Transmitter remote control systems. Log printers; status/alarm indicators. Facilities design & engineering services; engineering consultants; computer consultants.

CATEL TELECOMMUNICATIONS 4050 Technology Pl., Fremont, CA 94537 415 659-8988

Stereo generators, modulators. RF amps, converters. Fiberoptic systems.

CAVOX-TAPE-ATHON CORP. See TAPE-ATHON

CBSI/CUSTOM BUSINESS SYSTEMS Box 67, Reedsport, OR 97467 503 271-3681

Radio business automation software & hardware.

Field Offices:

GΑ	Mike Poulo, Atlanta	404	977-1413
MD	Ira Apple, Baltimore	301	526-6724
ΤX	Barb Simon, Austin	512	328-3731
WA	Bob Lundstrom, Sea	attle	

206 679-4041

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CBX INTERNATIONAL

147 E. Olive Ave., Monrovia, CA 91016 818 357-8878

Facilities design & engineering services; mobile vehicle construction.

CCI

Circle No. 143.

7353 Lee Hwy., Chattanooga, TN 37421 615 894-2580

Manual, automated & business automation interfaced master control switchers. Parallel & serial interface video routing switchers. Parallel & serial interface machine control/ technical automation; vertical interval systems. Video programming & advertising automation equipment for video & film sources, including insertion & verification. Sync generators.

CCR VIDEO CORP.

6410 Santa Monica Blvd., Los Angeles, CA 90038

213 464-7151

Ь

Mobile production facilities rental; video & audio post-production facilities.

CECO COMMUNICATIONS

2115 Ave. X, Brooklyn, NY 11235 800 221-0860/718 646-6300

Distributor of full line camera tubes, RF tubes, industrial tubes, ICs, transistors.

CECO INTERNATIONAL CORP.

440 W. 15 St., New York, NY 10011 212 206-8280 Video production facilities; equipment rental services.

Improved sensitivity and system range, with ultralow noise.

Cetec Vega's top-of-the-line PRO PLUS R-41 and R-42 wirelessmicrophone receivers have quickly become the worldwide standard of excellence. Overall quality of the PRO PLUS wireless system is equal to wired microphone systems, with respect to dynamic range, signal-to-noise ratio, distortion, etc. *We invite your comparisons*. Check these features of the new, improved PRO PLUS receivers:

• **GaAsFET front end.** Provides the highest achievable

sensitivity for maximum system range. Also incorporates a highperformance helical filter.

• Lowest distortion. 0.25% maximum, 0.15% typical. • Measurably the highest signalto-noise ratio and widest dynamic range.

Quiet as a wire. With DYNEX II (a new standard in audio processing), SNR is 101 dB (108 dB A-weighted). System dynamic range is 133 dB including transmitter adjustment range, from input for maximum nondistorting gain compression to noise floor.

- "Infinite gain" receiver. Improved performance in the critical threshold region, superior handling of multipath conditions, better SNR, and constant receiver audio output level.
- **Professional audio circuits.** Output is adjustable from +20

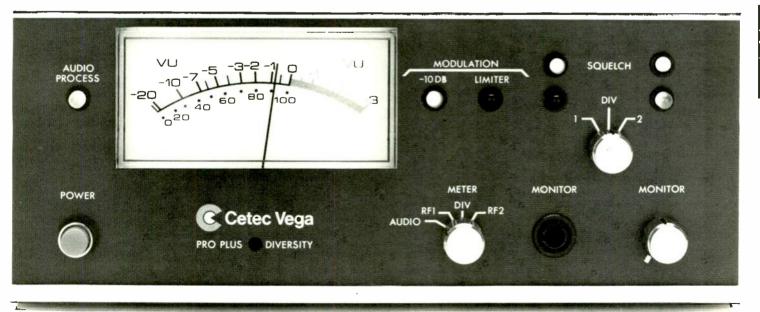
dBm to -60 dBm in four ranges. Also featured are selectable phasing and 0.2-watt independent headphone amplifier.

• **True dual-receiver diversity.** The R-42 diversity system is the most reliable method to avoid dropouts. The R-41 nondiversity receiver has all of the other features of the R-42.

PRO PLUS wireless-microphone systems achieve the highest performance possible with today's advanced technology.

Write or call for further information and location of your nearest dealer: Cetec Vega, P.O. Box 5348, El Monte, CA 91734. (818) 442-0782.

The best wireless gets even better.





CELWAVE

Rte. 79, Marlboro, NJ 08876 201 462-1880

Communications antennas. Foam dielectric & coaxial transmission line; power dividers, **RF** connectors

Field Offices:

AZ 115 E. Watkins St., Phoenix 85004-2925 602 252-8058 44 West, Box 389, Leesburg

32749-0389 904 787-9200 IL 941 N. Plum Grove Rd. Ste. B. Schaumburg 60195 312 843-7511

CENTER CITY VIDEO

1503-05 Walnut St., Philadelphia, PA 19102

215 568-4134

Video production & post-production facilities; mobile production facilities rental.

CENTER VIDEO INDUSTRIAL CO. 5615 W. Howard St., Niles, IL 60648 312 647-8700/800 621-4354

Editing, production consoles, Equipment rental services; video post-production facilities; facilities design & engineering services; videotape duplication services

CENTRAL DYNAMICS LTD. 147 Hymus Blvd., Pointe Claire, Que., Canada H9R 1G1 514 697-0810

Portable audio consoles; line amps. Portable, compact studio/mobile & large automated production switchers; postproduction switchers. Compressor/ standalone analog efx. positioners. colorizers, RGB & encoded chromakevers, title keyers, downstream keyers. Manual, automated & business automation interfaced master control switchers. Parallel & serial interface video routing switchers. Video DAs, pulse amps, subcarrier amps. Sync decoder

Field Offices:

CAN 801 York Mills Rd. #201, Don Mills, Ont. M3B 1X7 416 446-1543 GA 11 Corporate Sq. #160, Atlanta 30329 404 633-2100

IL Box 5108, Evanston 60204 312 864-6045 NY

19 William St. #3A. Mt Vernon 10552 914 668-4928

6 CENTRO CORP. 9516 Chesapeake Dr., San Diego, CA 92123 619 560-1578

Facilities design & engineering services; set/ studio design services; engineering consultants; mobile vehicle construction; video teleconferencing systems design & construction. Studio furniture, cabinets, studio consoles, equipment racks.

Circle No. 144. See ad on pg. 67.

CENTURY PRECISION OPTICS 10713 Burbank Blvd., N. Hollywood, CA 91601 818 766-3715

Camera lenses; periscope lenses

CENTURY III TELEPRODUCTIONS 651 Beacon St., Boston, MA 02115 617 267-6400

Video production & post-production facilities

CENTURY 21 PROGRAMMING 4340 Beltwood Pkwy., Dallas, TX 75244 800 582-2100/214 934-2121

Syndicated radio programming; music libraries; recording studios. Audio carts; empty reels & carts.

CERCONE VINCENT ASSOC. See THE PERFORMANCE GROUP

CETEC ANTENNAS See JAMPRO

CETEC GAUSS

9130 Glen Oaks Blvd., Sun Valley, CA 91352 818 763-4323

Audio tape duplicators. Monitor speakers.

CETEC IVIE

1366 W. Center, Orem, UT 84057 801 224-1800

Pink & white noise generators; sine wave generators; spectrum analyzers, real-time analyzers.

CETEC VEGA 9900 Baldwin Pl., El Monte, CA 91731

818 442-0782 Q System RF intercoms. Vega. Orator III & Vecta RF mics. See ad on pg. 65.

Circle No. 142.

SPANIS BEAU

URBANIB

COUNTR

AOR

CHANNELMATIC

AUTIFUL

AOR

821 Tavern Rd., Alpine, CA 92001 619 445-2691

Audio DAs. Broadcaster I MERPS multicassette decks. Parallel interface video routing

> SPANISH BEAUTIFUL

FUL MUSIC

SPANISH

From AOR to CHR, Country to Jazz—Whatever the format, this cart's for you. For outstanding high frequency sensitivity and headroom, compatibility with all cart machines, the multi-format AA-4 delivers the sound that audiences turn on.

AUDIO PAK AA-4. FOR STATIONS WHO CARE HOW THEY SOUND.



YOU TALKED AND WE LISTENED

The Centro NETWORKER is the result of extensive research into your network news requirements.



Vehicle chassis and suspension engineered to carry heavy components.



Unparralleled **Centro** quality in an attractive affordable package.



Available in a rugged standard package with many options for your specific requirements.



2.3 meter dish with 49.5 Dbi gain and selectable-adjustable vertical and horizontal polarization from inside the vehicle.



Three year unlimited mileage, limited chassis warranty and serviceable in over 4,500 locations throughout the United States.



Engineered, designed and constructed to meet your most demanding Satellite News Gathering requirements.



CENTRO CORPORATION 9516 CHESAPEAKE DRIVE SAN DIEGO, CALIFORNIA 92123

(619) 560-1578

See the NETWORKER at RTNDA Booth #319 Circle 144 on Reader Service Card switchers; parallel & serial interface machine control. Digital clocks. Engineering consultants.

Field Offices:

CA Mike Watson, 2500 Chicago Ave. #F4, Riverside 92507 714 686-8020 CO Dick White, 6885 Xavier Cir. #3. Westminster 80030 303 650-5950 GA Wes Hanemayer, 6 Clarendon Pl. Avondale Estates 30002 404 289-4834 N.L Tony Keator, 54 Harvard Dr., Fair Haven 07701 201 747-5122 WI Roger Heidenreich, 549 Park Ave., Prairie du Sac 53578 608 643-2445

CHESTER CABLE, DIV. CELWAVE Drawer D, Chester, NY 10918

914 469-2141 Audio & video cable.

CHIPS DAVIS LEDE DESIGNS

2169 Francisco Blvd. #J1, San Rafael, CA 94901 415 459-2888

Facilities design & engineering services; set/ studio design services; engineering consultants; financial consultants

CHOICE ELECTRONICS Box 1475, Gainesville, FL 32602 904 375-4434

Audio monitor speakers. Audio patch panels, jackfields. Titlers, subtitlers. Matrix wipe generators. Monitor-based teleprompters. Facilities design & engineering services.

Ь CHRISTIE ELECTRIC CORP. 20665 Manhattan Pl., Torrance, CA 90501 213 320-0808

Nicad batteries, chargers. Bulk tape degaussers.

CHROMA DIGITAL SYSTEMS See SHINTRON

CHRONO-LOG CORP. 2 W. Park Rd., Havertown, PA 19083 215 853-1130

Digital clocks, timers, complete clock/timina systems. Time code generators and readers.

CHYRON CORP. 265 Spagnoli Rd., Melville, NY 11747

516 249-3018 Scribe, Chyron IV, RGU, VP Series character

generator/graphics systems; Chameleon digital art/paint systems. Videofex digital efx generators

Ь CINEMA PRODUCTS CORP.

2037 Granville Ave., Los Angeles, CA 90025

213 478-0711/477-1972

Cine cameras. Angenieux & Canon lenses. Video matte boxes; adjustable video zoom lens control. Mini-Worrall geared camera head; Steadicam camera stabilizing system; Mini-Mote remote pan/tilt system. Camraprompter scroll entry, ENG/EFP portable teleprompters.

CINEMILLS CORP.

3500 W. Magnolia Blvd., Burbank, CA 91505

818 843-4560

Daymax high-intensity bulbs for Strand Cen-

tury HMIs; DeSisti lighting products; Sunburst HMI fixtures; Lee filters.

CINE 60 630 Ninth Ave., New York, NY 10036 212 586-8782

Sun-Gun quartz lighting fixtures. Nicad batteries, chargers. ENG shoulder braces. Field Office:

CA 1050 Cahuenga Blvd., Hollywood 90038 213 641-3046

CIPHER DIGITAL

5734 Industry Ln., Frederick, MD 21701 301 695-0200

Electronic audio editors; SMPTE time code synchronizers. Two-machine editor/controllers, SMPTE time code generator/readers.

CIRCUIT RESEARCH LABS

2522 W. Geneva Dr., Tempe, AZ 85282 602 438-0888

ALC & AGC amps; AM & FM compressor/ limiters; audio noise reduction. Stereo generators. FM SCA equipment. See ad on pg. 69.

Circle No. 146.

DAVID CLARK CO.

360 Franklin St. Box 155, Worcester, MA 01613-0155 617 756-6216

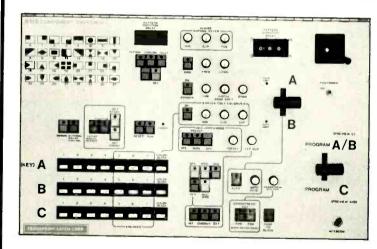
Headphones. Hardwired intercom systems.

CLEAR-COM INTERCOM SYSTEMS 1111 17 St., San Francisco, CA 94107

415 932-8134

Hardwired intercom systems; headphones.





FULL CONTROL FROM EDITOR KEYBOARD HANDLES BOTH COMPONENT AND ENCODED SIGNALS

- COLORIZER
- FADE TO BLACK
- RGB CHROMA KEYER

6

- 32 PATTERNS

- PATTERN MODULATOR
 - COLORED BORDERS

OPTIONS

Encoded to component decoder component to RGB translator 400 Event Storage Registers (100 Sequences) Serial or parallel Editor control Second Chroma keyer 7209 Programmable controller

7209 CONTROLS ENTIRE SWITCHER including positioner, colorizer, borders etc., providing smooth transitions of all stored controls during programmed transitions.

CROSSPOINT LATCH CORP.

95 PROGRESS STREET • UNION, N.J. 07083 Country Code 1 • (201) 688-1510 • TELEX 132850

CRL makes your channel sound as good as it looks

Stereo audio processing is in your future. That's why there's no time like the present to select the stereo audio processing system that will meet your needs for years to come.

A system like the CRL TVS-3001 television studio processor and TVS-3002 stereo limiter/generator. Both are designed with the superior performance features your station needs.

You won't find a more intelligent y designed, high-quality TV stereo processing system anywhere. So, plan for the future now with CRL's TVS-3001 and 3002. Designed to make your channel sound as good as it looks.

channel sound as good as it looks. Call or write CRL today for complete information and a no-cost demonstration.

OVOTE	110
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CRL Systems

SELECT

TVS-3002

2522 West Geneva Drive Tempe, Arizona 85282 (800) 535-7648 (602) 438-0888 TELEX: 350464 CRL TMPE, UD. Circle 146 on Reader Service Card



ARTSTAR 3D brings you powerful, high resolution three dimensional video graphics animation capabilities never before available at real-world prices! Versatile skills at your fingertips include:

Full 3D frame-by-frame animation with automatic VTR control—in Component Video or NTSC.

8 kinds of animation; color palette "movie," stack, multiple-plane 3D, cut-out, event recording/playback, rotoscoping, and traveling matte for system-generated graphics into live video.

Now announcing exclusive real-time cel animation in high resolution!

Plus:

Multiple Light Sources Phong Shading—for "spectacular" specular reflections Texture Mapping—wrap around 3D surfaces Spline Motion Paths • Extensive Key Framing

And, this "Super Hero" is *also* a full-color, high resolution, full-featured paint system with high-speed 3D rendering & modeling, flash frame grab, vector type character generation, and laser disk digital still-store option.

ARTSTAR 3D—from ColorGraphics—your Super Production Heros! Call today for more information or a demonstration at your facility.





5725 Tokay Boulevard • Madison, Wisconsin 53719 • (608) 274-5786 Circle 147 on Reader Service Card

CMC TECHNOLOGY CORP.

2650 Lafayette St., Santa Clara, CA 95050 408 980-9800

Replacement & rebuilt heads for guad & oneinch VTRs; audio & video tape erasers, degaussers

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CMX CORP. 2230 Martin Ave., Santa Clara, CA 95050

408 988-2000 Electronic audio editors; editors for digital

audio. A/B-roll editors, multisource editors

COASTCOM

2312 Stanwell Dr., Concord, CA 94527 415 825-7500

Video filters. Diplexers. Transmit/receive satellite earth stations. Remote control systems. RF program subcarrier

COAXIAL DYNAMICS 15210 Industrial Pky., Cleveland, OH 44135

216 267-2233/800 COAXIAL

RF loads. RF couplers & connectors. RF wattmeters, digital wattmeters, frequency monitors & controllers.

6 **COHERENT COMMUNICATIONS** 13756 Glenoaks Blvd., Sylmar, CA 91342 818 362-2566

Portable audio consoles. RF & lavalier mics. SMPTE time code generator/readers.

COLORADO VIDEO Box 928, Boulder, CO 80306 303 444-3972

Analog & digital slow-scan transmitters/ receivers. Sync generators. Field/ framestores, video noise reducers.

COLOR FILM CORP., VIDEO DIV. 98 Commerce Rd., Stamford, CT 06904 203 327-7270

Video post-production facilities. Videocassette duplication, film-to-tape transfers, TV standards conversion.

COLORGRAPHICS SYSTEMS 5725 Tokay Blvd., Madison, WI 53719 608 274-5786

ArtStar II/ArtStar 3D character generator/ graphics systems & digital art/paint systems; ArtStar 3D three-dimensional modeling & animation. LiveLine weather graphics displays, weather-based art/paint systems

See ad on pg. 70. Circle No. 147.

COLORTRAN 1015 Chestnut St., Burbank, CA 91506 818 843-1200

Studio, TV, and theater lamps & guartz fixtures; HMI PAR Sunlites; Far Cyc & Cyc Strip cyc lighting; Lee Color Media diffusion & efx material; lighting stands & rigging, Patchman, Scene Master 60, Packmaster & Prestige Series lighting control boards; dimmer packs.

Field Offices:

CA John Fuller, 478 47 Ave., San Francisco 94121 415 668-4600 FL Jack Gallagher, 7406 Spring Ct., Tampa 33614 813 866-1377 NJ Alan Kibbe/Jane Head, Meadows Office Complex, 301 Rte. 17 N., Rutherford 07070 201 438-4009 TX Steve Surratt, 1603 Babcock #130, Office K, San Antonio 78229 512 344-5533

COLUMBIA AUDIO/VIDEO

Columbia Bldg. 1, Highland Park, IL 60035 312 433-6010

Equipment rental service; video postproduction facilities; projection systems.

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COLUMBINE SYSTEMS 1620 Jackson, Golden, CO 80401 303 279-4000

Radio & TV business automation software & IBM hardware; radio & TV newsroom computers

COMARK COMMUNICATIONS Box 275, Colmar, PA 18915 215 822-0777

Comark, Marconi & Eddystone AM, FM, VHF, UHF & shortwave transmitters; TV exciters, diplexers, multiplexers, modulators. RF amps, tubes, attenuators, converters, filters, loads, switches. M/A-Com intercity microwave. FM antennas; antenna tuning units. Bogner, SWR, Andrew, LeBlanc & Dick TV HP & CP antennas. Coaxial transmission line. power dividers, RF connectors. Pi-Rod, Vert. Technology & Stainless tower masts, rigging, hardware, lighting. Moseley, TFT transmitter remote control systems, STLs

Comark, Tektronix demodulators. Tektronix modulation monitors, antenna monitors, field intensity meters, sideband analyzers, RF power meters & wattmeters, RF calorimeters, frequency monitors, controllers, RF test signal generators, impedance bridges, phase meters, oscilloscopes, delayed sweep scopes. EEV, Amperex klystrons. LEA surge protectors.

COMMUNICATIONS ALTATEC 5205 Airport Blvd. #200, Austin, TX 78751 512 453-4225

Video production & post-production facilities; mobile production facilities rental; equipment rental services.

COMPACT VIDEO SERVICES 2813 W. Alameda, Burbank, CA 91505 818 840-7000

Mobile teleproduction facilities rental; video post-production facilities; satellite uplink & downlink services; film-to-tape transfers; tape duplication services; video & film sound services.

COMPREHENSIVE VIDEO SUPPLY CORP.

148 Veterans Dr., Northvale, NJ 07647 201 767-7990

Audio & video cable. Tape erasers, degaussers. Dimmer packs. Distributor of microphones (Shure), videotape (Maxell), lamps (GE/Sylvania), diffusion & efx material (Rosco), batteries (Anton/Bauer), tripods & heads (Lisand), dollies (Bilora), transportation cases (Calzone), furniture (Winsted), cabinets & consoles (Bretford), test equipment (Leader), cable connectors (Hiros), & tools (Xcelite)

Field Office:

2082 Michelson Dr. #212, Irvine 92715 714 851-8344

Circle No. 148.

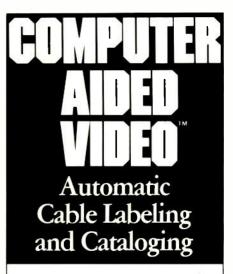
See ad on pg. 71.

COMPU: PROMPT

746 N. Cahuenga Blvd., Los Angeles, CA 90038

213 461-3113

Monitor-based, scroll entry & ENG/EFP portable teleprompters.



If you have ever had to label a few hundred cables, you know what a time-consuming and irritating job it is. No more.

Whenever you add, replace, or change a cable in your system, Comprehensive's CABLETRAK™ software automatically prints out labels for both ends of the cable and updates your cable inventory.

CABLETRAK™ will also tell you what cables are attached to a particular piece of equipment, their wire type, length, and any notes you may have made.

If you are building a studio, CABLETRAK[™] will print out sublists for your installation crews.

If you don't have time to label and keep track of every cable in your system, let CABLETRAK™ do it for you.

For more information call Comprehensive toll-free at 1-800-552-2CAV.







148 Veterans Drive Northvale, New Jersey 07647 (201) 767-7990

MEANS T'S VERIFIED

COMPUSONICS

1355 S. Colorado Blvd. #607, Denver, CO 80222

303 753-0076

Digital audio recording & mixing system.

Ь **COMPUTER GRAPHICS LABS** 405 Lexington Ave., New York, NY 10174 212 557-5130

Animate! video animation controllers. IM-AGES II- character generator/graphics systems, digital art/paint systems. Instamation digital efx generators.

COMPUTER PROMPTING CORP.

#831, 115 K St. NW, Washington, DC 20005 202 783-2051

Computerized teleprompters

COMREX CORP. Box 780, Sudbury, MA 01776 800 237-1776

Portable audio consoles. RF intercom systems. Telco interface equipment. Frequency extenders.

COMSAT GENERAL CORP.

950 L'Enfant Plaza SW, Washington, DC 20024 202 863-6000

Satellite communications service.

6 COMTECH ANTENNA CORP. 3100 Communications Rd., St. Cloud, FL

32769 305 892-6111

Offsat transmit/receive satellite earth stations; receive-only & transportable satellite earth stations.

COMTEK

357 W. 2700 S., Salt Lake City, UT 84115 801 466-3463

RF intercoms; RF IFB systems; RF mics.

COMTREX LTD. POB 5500, Newport Beach, CA 92662 800 443-2751

MacVideo Cam monochrome cameras. Title keyers. MacPrompter business automation software. MacMonitor video interface standards converter

CONCEPT PRODUCTIONS

1224 Coloma Way, Roseville, CA 95678 916 782-7754/800 348-4800

Syndicated radio programming

CONEX ELECTRO-SYSTEMS 1602 Carolina St., Bellingham, WA 98226 206 734-4323

Automatic satellite switchers. Monitor/power amps. Audio routing switchers. 25 Hz tone sensors & generators.

Ь

CONIFER CORP. Box 1025, Burlington, IA 52601 319 752-3607

Receive-only satellite earth stations, upconverters & downconverters; LNAs. MMDS & ITFS receivers.

CONNECT-AIR INTL.

50 37 St. N.E., Auburn, WA 98002 206 939-4880

Video cable: cable connectors.

CONNECTRONICS CORP. 652 Glenbrook Rd., Stamford, CT 06906

203 324-2889/800 322-2537 Seck portable & stereo studio audio con-

soles. Accessit analog audio efx & reverb, monitor/power amps, audio patch panels & jackfields. Audio & video cable.

OTIS CONNER PRODUCTIONS 4801 Spring Valley Rd. # 105, Dallas, TX 75234

214 358-5500

Music'library; TV & radio musical ID production packages; special feature programming for radio; original & syndicated commercial music packages

CONRAC

6

600 N. Rimsdale Ave., Covina, CA 91722 818 966-3511

Monochrome, NTSC, RGB & high resolution video monitors.

CONTINENTAL ELECTRONIC/ CONTEL

1620 W. 32 PI, Hialeah, FL 33012 305 822-1421

Cart player/recorders; LPTV transmitters.

CONTINENTAL ELECTRONICS.

DIV. VARIAN Box 270879, Dallas, TX 75227 214 381-7161

AM, FM & short wave transmitters. FM exciters. RF loads, combiners, diplexers. FM antennas. Demodulators. Phasing & coupling

Field Offices:

AL Dave Hultsman, Box 26509, Birming-205 822-1078 ham 35226 CA Marvin Steelman, 11296 Lakeshore N., Auburn 95603 916 916 0277 CO Ken Perkins, 7846 S. Centaur Dr., Ever-303 670-1049 green 80439 IL John D. Abdnour, Box 575, Streator 61364 815 672-8535 MN Jim Littlejohn, 670 N. Branch Rd., Maple Plain 55359 612 479-2633 John Hutson, 28 Park Ave., Asheville NC 28803 704 274-5298 NY R. Clifford Rogers, Box 157, Schroon Lake 12870 518 532-7488 OR Tom T. Cauthers, 13333 S.E. Marsh Rd., Sandy 97055 503 668-9312 TN Barry Ariaz, Box 2117, Hendersonville 37077-2117 615 822-0256 TX Steve H. Schott, Box 2008, Plano 75074 214 423-3644

See ad on pg. 126. See ad on pg.119.

CONTINENTAL RECORDINGS 102 South St., Boston, MA 02111 617 426-3131

Audio post-production facilities, recording studio; station ID & commercial jingles

CONTROL CONCEPTS CORP. 328 Water St., Box 328, Binghamton, NY

13902 607 724-2484

Power line conditioners for microprocessorbased equipment; transformers, surge protectors

CONTROL TECHNOLOGY

2950 S.W. 2 Ave., Ft. Lauderdale, FL 33315 305 761-1106/800 327-4121

Distributor of full line audio & RF equipment.

6 CONUS COMMUNICATIONS 3415 University Ave., Minneapolis, MN 55415

612 642-4645

Hubcom transportable satellite earth stations. Satellite time brokers. Satellite newsgathering services.

6 CONVERGENCE CORP 1641 McGaw, Irvine, CA 92714

714 250-1641

Two-machine editor/controllers, A/B roll editors, multisource editors. SMPTE time code generator/readers.

Field Office:

NY Steven DiFranco, 250 W. 57 St. #815, New York 10019 212 765-1333 See ad on pg. 32.

Circle No. 122.

Ь

COOL-LUX LIGHTING IND. 5723 Auckland Ave., N. Hollywood, CA 91601

818 761-6116

6

Lamps, HMI & CSI fixtures, quartz fixtures, lighting stands & rigging, dimmer packs. Nicad, silver-zinc & lead-acid batteries & chargers. Foam insert transportation cases.

CORPORATE COMMUNICATIONS $m{ abla}$ CONSULTANTS

64 Clinton Rd., Fairfield, NJ 07006 201 226-5938

Telecine color correctors, telecine control systems.

COUNTRYMAN ASSOCIATES

417 Stanford Ave., Redwood City, CA 94063

415 364-9988

Mics: electret/condenser, PZM, RF, TVH lavalier, stereo, Isomax sound reinforcement & podium mics. Conference table mics.

CREATIVE TECHNOLOGY 853 Copley Rd., Akron, OH 44320 216 535-5778

Video production & post-production facilities; mobile production facilities rental; audio post-production facilities; set/studio design services; computer animation; film-to-tape transfers

CREATIVE VIDEO SVCES.

816 W. St. Germain #500, St. Cloud, MN 56301

612 255-0033

4167 Lyndale Ave. N., Minneapolis, MN 55412

612 521-5870

Video production & post-production facilities; mobile production facilities rental; equipment rental services.

THE CROMWELL GROUP Box 150846, Nashville, TN 37215 615 383-7560

Recording studios; financial consultants; marketing/advertising services.

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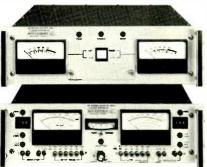
CROSSPOINT LATCH CORP. 95 Progress St., Union, NJ 07083 201 688-1510

Compact studio/mobile, large automated & computer-controlled production switchers; post-production switchers; switcher with

Circle No. 186 Circle No. 199.

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DELTA BROADCAST PRODUCTS



ASE-1/ASM-1

AM Stereo without compromise. The AM Stereo Exciter and Modulation Monitor provides a C-QUAMTM quadrature modulated stereo signal featuring low distortion and channel separation greater than 35 dB throughout the audio spectrum. The ASE-1 generates a signal to produce a phase modulated transmitter carrier. An L + R audio signal AM's this carrier to produce the C-QUAM signal, the only signal completely compatible with all C-QUAM, multimode and envelope detector receivers.



RCS-1V

This Remote Control System calls you when it needs help! The RCS-1 combines microprocessor technology with easy operation. Features include direct interface boards for antenna monitors, patented remote modulation bargraphs, automatic logging, and synthesized speech telephone interface. Additional input and control boards to expand remote control capabilities can be added at any time.



AAM-1

The Analog Antenna Monitor measures the parameters of directional antenna systems. Readings are: relative current; and current ratio and current phase to a reference antenna. The AAM-1 can monitor up to 8 antennas with ratio and phase measurements displayed on front panel meters.



AMC-1/FMC-1

The only modulation control systems which provide a completely closed loop around the transmitter. The Amplitude and Digital Modulation Controllers sample actual modulation levels after the PA output network assures precise adjustment for optimum modulation levels. Both the AMC-1 and FMC-1 keep count of overmodulation bursts for signal control through a linear attenuator.



RG-4

High output Receiver/Generator. The Receiver/Generator combines a two-watt RF output and a correlation detector circuit that virtually eliminates interference problems. The RG-4 operates in the 100 kHz to 30 MHz range. It is designed as the ideal companion instrument for Delta's OIB-1, OIB-2, and OIB-3 impedance bridges.



APC-1

Your insurance against over- and under-power operation. The Automatic Power Controller continuously monitors the transmitter output power, making automatic power adjustments via the transmitter loading control. The APC assures proper power levels at all times.



TCA/TCT

Simplifies antenna current and phase sampling. TCA Ammeter Systems provide accurate, modulationfree current readings on a variety of meter types. Torodial Current Transformers provide current and phase samples, and are available with three output voltage ranges, as well as high voltage models.



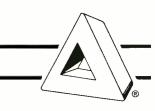
OIB-1/OIB-3/CPB-1

Full power impedance measuring. The Operating Impedance Bridges measure the impedance of radiators, networks and the like while operating under normal power. The OIB-1 measures VSWR and impedance up to 400 \pm j300 ohms. The OIB-3 extends the range to 1000 \pm j900 ohms, and has an RF amplifier for improved nulling. The Common Point Impedance Bridge is permanently installed for continuous monitoring of the common point during network adjustment. An optional TCA ammeter can be installed in its front panel.



6730E/6740B

Fast, efficient coaxial transfer switches. The coaxial transfer switches are designed to switch transmitters, transmission lines, antennas, dummy loads and auxiliary equipment quickly and easily. Either manually or remotely controlled, the switches are fully interlocked to prevent switching with RF power applied. The 6730E switch uses 1-5/8 inch connectors, the 6740B switch uses 3-1/8 inch connectors.



DELTA ELECTRONICS

5730 General Washington Drive P.O. Box 11268 • Alexandria, Virginia 22312 Telephone: (703) 354-3350 • Telex: 90-1963 dual TBC. Video sync, black burst, color bar generators, TBCs. See ad on pg. 68.

Circle No. 145.

Ь JOHN CROWE PRODUCTIONS 6311 N. O'Connor Rd. #102, LB 48, Irving, TX 75039

214 556-1816 Mobile production facilities rental.

CROWN INTERNATIONAL

1718 W. Mishawaka Rd., Elkhart, IN 46517 219 294-8000

Electret/condenser, PZM & lavalier mics. Preamps, monitor/power amps, Real time analyzers; Tecron spectrum analyzers. See ad on pg. 81. Circle No. 153.

CSI ELECTRONICS Box 965, Highland City, FL 33846 813 644-3573

AM & FM transmitters. Stereo generators. Antenna tuning units. SCA equipment. Status/alarm indicators.

CUBICOMP CORP.

21325 Cabot Blvd., Hayward, CA 94545 415 887-1300

PictureMaker digital art/paint systems, ModelMaker 3D modeling & picture manipulation.

CYBERNETIC DATA PRODUCTS 20732 Lassen St., Chatsworth, CA 91311 818 998-0900

Silent Radio broadcast system for distribution of news & advertising to LED display boards; vertical interval inserter.

DABURN ELECTRONICS & CABLE CORP.

70 Oak St., Norwood, NJ 07648 201 768-5400 Audio, video & lighting/ac cable; cable

connectors.

PETER W. DAHL CO.

5869 Waycross Ave., El Paso, TX 79924 915 751-2300

Rectifiers; transformers; surge protectors.

DALSAT SATELLITE COMMUNICATIONS 1205 Summit Ave., Plano, TX 75042

214 578-7561 Transmit/receive, receive-only & transporta-

ble satellite earth stations; upconverters, downconverters; satellite network controllers. Facilities design & engineering services; engineering consultants; earth station site selection; mobile vehicle construction.

DATA COMMUNICATIONS CORP. 3000 Directors Row, Memphis, TN 38131 901 348-3544

BIAS PC radio & TV business automation software & hardware. BIAS Newsroom radio & TV newsroom computers Computer business services

ь DATA PRECISION CORP. Electronics Ave., Danvers, MA 01923 617 777-1401

Waveform analyzers; waveform synthesizers; dc voltage standards. Voltmeters, multimeters, capacitance meters, ohm meters

DATATEK CORP. 1121 Bristol Rd., Mountainside, NJ 07092 201 654-8100

Audio preamps & line amps; audio DAs, audio routing switchers. Parallel & serial interface video routing switchers. Proc amps. video DAs, pulse amps, subcarrier amps. Transmitter color phase equalizer ident fication of source system (IDS).

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DATAWORLD Box 30730, 4827 Rugby Ave. #200, Bethesda, MD 20814

301 652-8822/800 368-5754 Computer database of FCC engineering information; antenna design services.

DATUM

1363 S. State College Blvd., Anaheim, CA 92806

714 533-6333

SMPTE time code generator/readers; VITC reader/generators; video source ID

DAVIS & SANFORD 24 Pleasant St., New Rochelle, NY 10802 914 632-1636

Camera tripods, heads, pedestals, dollies, remote pan/tilt systems.

dbx 71 Chapel St., Newton, MA 02195 617 964-3210

Audio noise reduction; ALC & AGC amps, AM & FM compressor/limiters, parametric equalizers. Audio noise gate, de-esser. BTSC noise reduction cards. Mixer/ distribution amplifier module.Digital STL for audio & EFP. Satellite compandor. Horizontal equipment rack

DELCOM CORP. 6019 S. 66 E. Ave., Tulsa, OK 74145 918 494-9500/800 331-5461

Video/audio system construction; facilities design & engineering services; set/studio design services; engineering consultants; mobile vehicle contruction. Studio furniture; cabinets; studio consoles; equipment racks.

DELMARK CORP

1092 N. Tustin Ave., Anaheim, CA 92807 714 666-2790

Import/export consulting for broadcast manufacturers.

DELTA ELECTRONICS

5730 Gen. Washington Dr., Alexandria, VA 22312

703 354-3350

Ь

AM stereo exciters. Transmitter remote control systems. Modulation monitors, antenna monitors, RF power meters & wattmeters, RF test signal generators, impedance bridges, torroidal current transformers.

See ad on pg. 73.

Circle No. 149. Ь

6

DESISTI LIGHTING/ DESMAR CORP. 328 Adams St., Hoboken, NJ 07030 201 792-4980

Lamps, HMI & CSI fixtures, guartz fixtures, cyc lighting, lighting stands & rigging, dimmer packs. HMI ballasts. Lighting/ac cable.

DEVLIN PRODUCTIONS 150 W. 55 St., New York, NY 10019 212 582-5572

Video production & post-production facilities; mobile production facilities rental: recording studios; audio post-production facilities; set/studio design services; standards conversions; videodisc premastering services; single field/frame recording services

b **DE WOLFE MUSIC LIBRARY** 25 W. 45 St., New York, NY 10036 212 382-0220

Production music library & sound effects: recording services.

6 DICTAPHONE CORP. 120 Old Post Rd., Rye, NY 10580

914 967-7300 Multichannel tape-based loggers; time signal recording for determination, search & re-

call; CallCheck digital message repeater. See ad on pg. 127. Circle No. 188.

DIELECTRIC COMMUNICATIONS Tower Hill Rd., Raymond, ME 04071 207 655-4555

Diplexers, multiplexers. RF filters, loads & switches. AM, FM, TV HP & TV CP antennas. Rigid & coaxial transmission line, power dividers, RF connectors. See ad on pg. 75.

Circle No. 150.

Ь **DIGIMAX INSTRUMENTS** 8560 Production Ave., San Diego, CA 92121 619 578-7171

Audio preamps. Nicad batteries & chargers LaserDisc videodisc players Frequency counters.

DIGITAL BROADCAST SYSTEMS 🏼 🖉 184 Mechanic St., Southbridge, MA 01550 617 764-4386

Astre digital audio storage & retrieval system.

DIGITAL ENTERTAINMENT CORP. See MITSUBISHI PRO AUDIO

DIGITAL PROGRAMMING Box 8008, Van Nuys, CA 91409 818 780-9780

Radio programming on CD, CD software libraries & database.

DIGITAL SERVICES CORP. See DSC

DIGITAL VIDEO CORP. 369 N. Orange Ave., Orlando, FL 32801

305 425-1999 Video field production & post-production facilities; equipment rental services; interactive disc preparation.

DIGITAL VIDEO PRODUCTIONS 62 S. Franklin St., Wilkes-Barre, PA 18773 717 824-1161

Video production & post-production facilities; mobile production facilities rental.

DIGITAL VIDEO SYSTEMS

See SCIENTIFIC-ATLANTA See ad on pg. 126.

Circle No. 187.

DI-TECH

48 Jefryn Blvd., Deer Park, NY 11729 516 667-6300

Audio DAs, audio routing switchers. Parallel & serial interface video routing switchers. Video/cable equalizers. Videl DAs, pulse amps

See ad on pg. 27.

Circle No. 114.

To a company whose name means quality, it was a natural step to take.

Dielectric Communications is now your single source for complete UHF RF systems due to our recent purchase of RCA's Antenna Division. Dielectric and RCA have had a long-term association, and are both known worldwide for highly reliable broadcasting equipment. It was only natural for Dielectric to begin offering these high quality antennas as part of our already extensive line of UHF components.

Over 600 UHF Pylon Antennas have been shipped from our Gibbsboro, NJ, assembly/test range and are providing years of trouble-free service with minimal maintenance. These ruggedly constructed antennas are designed for low relative windload and weight. All use a single feed point with high power input ratings. They are available in numerous vertical and hor zontal pattern combinations to meet a wide range of broadcast coverage requirements.

Other broadcast products manufactured by Dielectric include: coaxial and waveguide diplexers; motorized waveguide and coaxial switches; rigid coax and waveguide transmission line and filter products; and custom RF systems with Magic Tee switching for UHF stations.

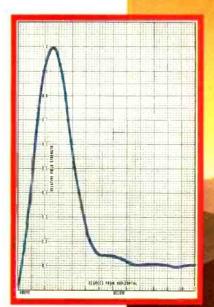
Dielectric's reliable equipment is backed by a full range of in-house services from design to field testing. Call us today for free specification brochures— **1-800-341-9678.**

The Tradition Continues.



Raymond, Maine 04071 (207) 655-4555 • (800) 341-9678 TWX: 710-229-6890

Circle 150 on Reader Service Card



DOLBY LABORATORIES

100 Potrero Ave., San Francisco, CA 94103 415 558-0200

Audio noise reduction systems.

DORROUGH ELECTRONICS 5221 Collier Pl., Woodland Hills, CA 91364 818 999-1132

Discriminate Audio Processor AM & FM compressor/limiters; Dorrough Loudness Meter. FM stereo generators.

R.L. DRAKE

Box 112, Miamisburg, OH 45342 513 866-2421

Receive-only satellite earth stations, LNAs.

DRAKE-CHENAULT RADIO CONSULTANTS 8399 Topanga Canyon Blvd., Canoga

Park, CA 91304 213 883-7400 Radio consultants.

THE DROID WORKS 3301 Kearner Blvd., San Rafael, CA 94912 415 457-5282

EditDroid multisource video editor: SoundDroid audio editing/mixing system.

DRS See PRECISION ECHO

DSC



Frame File digital still store; Prisma video animation controllers. Post-production switchers. Illusion & Eclipse digital video efx generators.

Field Offices:

CA Hugh Gillogly, 17206 Pinot Pl., Poway 92064 619 485-1156 FL Chuck Wacker, 820 NW 39 St. Gainesville 32605 904 375-6740 IN Morrell Beavers, Rt. 1, Box 47B. Trafalgar 46181 317 738-2319 MN Mike Barsness, 245500 Cedar Point Rd., New Prague 56071 612 758-3036 NY John Barker, 325 Central Ave. #219, White Plains 10606 914 738-3219

DUART VIDEO/DUART FILM LABS 245 W. 55 St., New York, NY 10019 212 757-3681

Video post-production facility; audio-for-film post-production facilities; film laboratory.

Ь DUBNER COMPUTER SYSTEMS 6 Forest Ave., Paramus, NJ 07652 201 845-8900

Telecine color correctors. Character generator/graphics systems; digital art/paint systems; 3D modeling & manipulation.

VICTOR DUNCAN

6305 N. O'Connor Rd. #100, Irving, TX 75039

214 869-0200

Video & film production equipment rentals, sales & service.

DUNCAN ELECTRONICS

2865 Fairview Rd., Costa Mesa, CA 92626 714 545-8261 Slideline slide attenuators.

DUNN INSTRUMENTS

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544 Second St., San Francisco, CA 94107 415 957-1600

ProColor 35 mm tabletop camera.

DWIGHT CAVENDISH CO. LTD. 2117 Chestnut Ave., Wilmette, IL 60091 312 256-0937

Videocassette duplicating equipment & modules.

DX COMMUNICATIONS 10 Skyline Dr., Hawthorne, NY 10532 914 347-4040

Receive-only satellite earth stations, block downconverters, LNAs, modulators, 12 GHz equipment; satellite accessories, splitters, dividers, line amps.

DYMA ENGINEERING Box 1535, Los Lunas, NM 87031 505 865-6700

Mic mixers, portable audio consoles. Audio DAs, audio routing switchers, audio patch panels & jackfields, audio mult boxes & splitters. Parallel & serial interface video routing switchers. Sync, black burst, color bar & video slate board/countdown generators. Proc amps, video DAs, pulse amps, subcarrier amps. Lamps, cyc lighting, lighting control boards, dimmer packs. Camera tripods & heads, dollies. Foam insert & rack configuration transportation cases, editing/production consoles. Cart/tape storage. FM antennas. Rigid, foam dielectric & coaxial transmission line. Facilities design & engineering services; engineering consultants.

DYNAIR ELECTRONICS

5275 Market St., San Diego, CA 92114 619 263-7711

Audio DAs, audio routing switchers. Parallel & serial interface video routing switc hers. Parallel & serial interface machine control/ technical automation: ve rtical interval systems. Video/cable equalizers. Video DAs, pulse amps, subcarrier amps.

See ad on pg. 77. Circle No. 151.

DYNATECH DATA SYSTEMS 7644 Dynatech Ct., Springfield, VA 22153 703 569-9000

Video patch panels; coaxial patching equipment.

DYNATECH NEWSTAR 3001 Latham Dr., Madison, WI 53713

608 274-8686

NewStar & NewStar Discovery radio & TV newsroom computer systems.

EAGLE VIDEO

721 E. State St., Rockford, IL 61104 815 963-0963

Video production & post-production facilities; equipment rental services

EAST COAST VIDEO SYSTEMS 112 Ellington St., E. Orange, NJ 07017 212 431-7453

Facilities design & engineering services; set/ studio design services; engineering consultants.

EASTMAN KODAK CO. 343 State St., Rochester, NY 14650 716 724-4293

Eastman professional videotape: one-inch, 3/4-inch cassettes, half-inch cassettes. Eastman film stock.

ECHOLAB

175 Bedford Rd., Burlington, MA 01803 617 273-1512

Portable production switchers, compact studio/mobile production switchers, postproduction switchers. Digital efx generators.

ECONCO BROADCAST SERVICE

1318 Commerce Ave., Woodland, CA 95695

916 662-7553

Rebuilt power tubes.

EDCOR

16782 Hale Ave., Irvine, CA 92714 714 863-1529

RF mics; audio preamps, line amps, monitor/ power amps. Delta Magnetics transformers, hum bucking coils.

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EDITEL/CHICAGO 301 E. Erie, Chicago, IL 60611 312 440-2360

Video production & post-production facilities; audio post-production facilities; set/ studio design services.

EDITEL/LA

729 N. Highland, Hollywood, CA 90038 213 931-1821 Video post-production facilities.

EDITEL/NEW YORK 222 E. 44 St., New York, NY 10017 212 867-4600

Video production & post-production facilities; mobile production facilities rental.

EDITRON AUSTRALIA 1900 S. Sepulveda Blvd. #354, W. Los Angeles, CA 92025

213 477-4882

Electronic audio editors, SMPTE time code synchronizers, editors for digital audio. Audio routing switchers. Telecine control systems. Multisource videotape editors.

EECO 1601 E. Chestnut Ave., Box 659, Santa Ana, CA 92708

714 835-6000

IVES two-machine editor/controllers, A/B-roll editors; EMME multisource editor; Eeconoline SMPTE time code generator/ readers; VITC reader/generators; EECODER still-frame audio system for interactive videodiscs

EEG ENTERPRISES 1 Rome St., Farmingdale, NY 11735

516 293-7472

SMPTE time code generator/readers. Video source ID. Closed captioning, teletext.

EEV 4 Westchester Plaza, Elmsford, NY 10523 914 592-6050

Leddicon camera pickup tubes; Photon monochrome cameras. RF amps, RF tubes. Vacuum tubes; rectifiers; capacitors; surge protectors; LCDs.

Field Offices:

CA Kees van der Keyl, 5455 Garden Grove Blvd. #420, Westminster 92683

714 895-3948 GA Harry Kozicki, 15 Dunwoody Pk. #100E, Atlanta 30338 404 394-9201 IL Jim Comella, 890 Deerpath, Hoffman Estates 60194 312 843-8417



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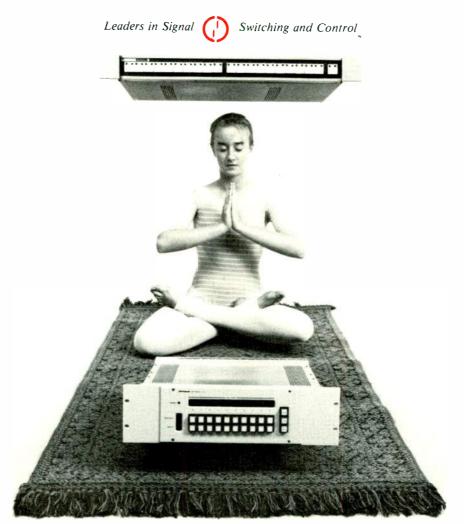
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Our Smart Little Switch Now Has The Self-

Of A Yoga Enthusiast

In 1979, our "Smart Little Switch" led the industry. At the time, this 10 x 10 switch had things pretty well under control. With its HDTV performance and component capability at NTSC prices, it soon had risen to become our fastest selling product. Today, it's still the source of considerable peace of mind on the part of users. Now we've teamed the Smart Little Switch with our new Series 1 Controls and are achieving far greater levels of self-control. With a wide range of options, users can add big system features to any Series 10 ever built. Just connect our PCA-904A Control containing one of its many software programs to the comm line and you have X-Y control of the entire matrix — in one rack unit. Insert a different program and you have sequential control that even remembers what you do for the time you do it. That's not all. Select from our growing library of software programs, in combination with Series 1 Controls, and you can achieve such big system features as: • Batch switching from a VDT or computer, or simply from 20 push buttons, each programmed for a different batch • Dedicated twobus control in a single rack unit • Long distance computer control via modems. How's that for control? Using our new Series 1 Controls, there's no end to the system well-being that can be achieved if you put your mind to it. Why not Lotus Position your Series 10 for higher levels of control. If you're not a Series 10 user, with a little serious meditation you could be. To order, control yourself and call: 800-854-2831 NA. • 619-263-7711 CA.





Circle 151 on Reader Service Card

Covering All the Bases

Meet the team of innovative Time Base Correctors from FOR-A. These high performance systems combine the latest advances in digital and component signal processing with the versatility to handle every professional broadcast and postproduction application.

 FA-410 Time Base Corrector—The full-feature "Workhorse" TBC with Dynamic Tracking[™] for the Sony BVU-820 and Panasonic NV-8950 VTRs.

DIDITAL TIME SAME COMPOSE

- FA-400/FA-420 TBCs with Frame/Field Picture Freeze plus processing of Non-Synchronous signals from remote locations or Non-V-Locked VTRs.
- FA-430 TBC with Image Processor—Providing the ultimate in color correction, image enhancement and noise reduction with Y/C Dub, Dynamic Tracking and DOC.
- FA-440 TBC with Video Production Effects—An exciting array of multiple digital effects including Compression, Inversion, Mosaics, Posterization and Multi-Move.
- FA-800 ALITOCOR Frame Synchronizer with Automatic Level Control—Now with capability for correcting 1" (Type C) VTRs, including Velocity Correction, DOC and VTR SC mode.
- FA-450 Component Interfacing TBC—Handles any component, Y/C Dub or Composite Signal and provides Full Transcoding Interface capabilities including decoding and encoding functions, Employing 4:2:2 sampling and 8bit encoding for each component, the FA-450 provides Full-Frame Correction, Color Picture Freeze, DOC and Dynamic Tracking. Designed with future video technology in mind, the FA-450 updates existing systems and insures against format obsolescence.

So cover all the bases and join the winning team. FOR-A is ready to review its versatile line-up with you. Call your FOR-A dealer . . . and ask about our new 2-year warranty.

U-matic and Dynamic Tracking are registered trademarks of Sony Corporation.

DIGITAL TIME BABE CORRECTOR

EDE



FOR-A CORPORATION OF AMERICA Nonantum Office Park, 320 Nevada Street, Newton, MA 02160 East Coast: (617) 244-3223 West Coast: (213) 402-5391 WA Don Rose, 19001 40 Pl. N.E., Seattle 98155 206 363-2200

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EG&G 35 Congress St., Salem, MA 01970 617 745-3200 Strobeguard tower lighting

EIDSON ELECTRONIC CO.

Box 3751, 3409 W. Pecan Dr., Temple, TX 76501 817 773-3901

Quartz crystals for AM, FM, TV.

EIGEN VIDEO

Box 848, Nevada City, CA 95959 916 272-3461

3/4-inch U VCRs; digital image processors; videodisc recorders; digital framestores

ELCOM BAUER

6199 Warehouse Way, Sacramento, CA 95826

916 381-3750

ELECTOR USA

ALC & AGC amps, AM & FM compressor/ limiters. AM & FM transmitters; FM exciters; antenna tuning units; AM diplexers, triplexers.

ELCON ASSOCIATES

1450 O'Connor Dr., Toronto, Ont., Canada M4B 2T8 416 759-5614

Videotape cleaners, evaluators.

FLECON See UNIVERSAL ELECON



b

Box 699, Pinebrook, NJ 07058 201 882-0584 Barco NTSC & high resolution video monitors

& video projectors; TV tuners.

ELECTRIC WORKS, COMM. DIV. 14952 Waverly, Irvine, CA 92714 714 551-3998

Video interface for audio consoles: electronic audio editors, SMPTE time code synchronizers; time insertion sequencers, computer automation controllers. Telecine control systems; vertical interval machine control; twomachine editor/controllers, A/B-roll editors, SMPTE time code generator/readers, VITC reader/generators. Engineering consultants.

ELECTRO CONTROLS 2975 S. 300 W., Salt Lake City, UT 84115 801 487-9861

Celebrity, Celebrity Plus & Premiere lighting control boards; dimmer packs

ELECTROHOME

809 Wellington St. N., Kitchener, Ont., Canada N2G 4J6 519 744-7111

NTSC encoders. Monochrome, NTSC, RGB & high resolution video monitors; video projectors. Large-screen color data/graphics & video production systems. Receive-only satellite earth stations; SMATV antennas. Field Office:

NY 250 Wales Ave., Tonawanda 14150 716 694-3332

ELECTRO IMPULSE LAB

116 Chestnut St., Box 870, Red Bank, NJ 07701

201 741-0404

RF attenuators, RF loads. RF power meters, wattmeters, calorimeters.

ELECTRONICS DIVERSIFIED

1675 N.W. 216 Ave., Hillsboro, OR 97124 503 645-5533

Lighting control boards (Litestar, Troubadour, TCC, SEC, DCC, Showboard), dimmer packs (Dimmex, SCRimmerette, SCRimmer, SCM, Mark VII, DPC).

ELECTRO & OPTICAL SYSTEMS

31 Progress Ct., Unit 13, Scarborough, Ont., Canada M1G 3V5 416 439-9333

Agents for Pye TVT, Philips, CEL, Electrocraft, CMX, Merlin, Barco & Mycrotek.

ELECTRO-SOUND

160 San Gabriel Dr., Sunnyvale, CA 94086 408 245-6600

High-speed tape duplicating equipment.

ELECTRO-VOICE 600 Cecil St., Buchanan, MI 49107 616 695-6831

Dynamic, electret/condenser, shotgun & lavalier mics. Graphic equalizers. Sentry monitor speakers.

Field Office:

CA Doug MacCallum, 8234 Doe Ave., Box 3297, Visalia 93277 209 651-7777 MI Jesse Walsh/Terry Smith, 600 Cecil St., Buchanan 49107 616 695-6831 CAN Mark Simmons, 345 Herbert St., Box 520, Gananoqui, Ont. K7G 2V1 613 382-2141

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Ь ELICON 940 S. Leslie St., La Habra, CA 90631 714 870-6647

Animation stand motion control systems; character generator/graphics systems; 3D modeling & manipulation; bit pad digitizers.

EMCEE Box 68, White Haven, PA 18661 800 233-6193

Transmitters: VHF, UHF, LPTV, MMDS, ITFS, translators. Turnkey facilities installation; transmitter system design services

EMCOR PRODUCTS 1600 Fourth Ave. N.W., Rochester, MN 55901

507 289-3371 Rack configuration transportation cases; cabinets; studio consoles; equipment racks.

Ь EMERGENCY ALERT RECEIVER Box 20629, New York, NY 10025

212 695-4767 FM SCA receivers; EBS receivers.

EMPIRE VIDEO

216 E. 45 St., New York, NY 10017 212 687-2060 Video post-production facilities.

ENCLOSURE CORP. 2900 Wharton Rd., Bristol, PA 19007 215 785-2900 Cabinets; equipment racks

ENERTEC SCHLUMBERGER/ **PROFESSIONAL AUDIO**

1 Rue Nieuport, 78140 Velizy Villacoublay, France

1 30703070/Telex 697430 ENERSON F

Mic mixers, portable audio consoles, mono & stereo studio consoles, audio-for-TV consoles. Single-deck & dual/triple-deck cart players. Portable ATRs, 2-/4-track studio

ATRs. Open-reel audio tape, carts, cassettes, empty reels & carts, tape erasers & degaussers. Program automation systems. Hardwired intercoms. Line amps, monitor/ power amps, amp power supplies. Audio DAs, audio routing switchers, audio patch panels & jackfields. Turnkey studios and radio & TV centers.

E-N-G CORP. 2930 Cloverdale Ave., Concord, CA 94520 415 798-4060

ENG microwave-equipped mobile vehicles with telescoping masts. Satellite newsgathering vehicles.

ENG HELICOPTER PRODUCTIONS, LTD.

9919 Carter Rd., Bethesda, MD 20817 301 469-8109

Helicopter-mounted camera stabilizing systems; complete helicopter microwave & communication system rentals.

Ь ENTERPRISE ELECTRONICS

Box 1216, Industrial Park, Enterprise, AL 36331

205 347-3478

Weather radar systems, tracking radar systems. Doppler radar systems.

ENVIRONMENTAL CONTAINER SYSTEMS

3560 Rogue River Hwy., Box 188, Grants Pass, OR 97526 503 476-8871

RFI/EMI shielded containers; shock & vibration isolated containers

Ь ENVIRONMENTAL SATELLITE DATA

5200 Auth Rd., Suitland, MD 20746 301 423-2113

Color Connection & Front End weather graphics displays, weather satellite displays, weather radar displays, weather symbol inserters, weather-based art/paint systems, LPATS lighting detection & display.

ENVIRONMENTAL TECHNOLOGY 1302 High St., South Bend, IN 46618 219 233-1202

Tower ice sensors. Air dehydrators **Field Offices**

IL Tom Kellner, 730 N. Hicks Pl. #407, 312 358-2622 Palatine 60067 NC Robert Millice, POB 221972, Charlotte 28222 704 542-3380

ESC ELECTRONICS

534 Bergen Blvd., Palisades Park, NJ 07650 201 947-0400

Delay lines, LC filters, transformers.

ESE 142 Sierra St., El Segundo, CA 90245 213 322-2136

Digital clocks, timers, complete clock/timing systems. Audio DAs, telco interface equipment; VU meters, LED audio level displays; EBS two-tone systems. Two-machine editor/ controllers, SMPTE time code generator/ readers. Video DAs

Circle No. 127. See ad on pg. 43.

b ESL 120 S.W. 21 Terrace #C104, Ft. Lauderdale, FL 33312 305 583-0626

EELA Audio mixers, ancillary broadcast





equipment, telephone hybrids, Reportophone minimixer.

ESPN ESPN Plaza, Bristol, CT 06010 203 584-8477

Video production & post-production facilities; mobile production facilities rental.

ETHEREUM SCIENTIFIC CORP. 0 7641 Clarewood #336, Houston, TX 77036 713 784-2630

Design & construction of transportable uplink/downlinks & satellite newsgathering vehicles; earth station site selection; satellite time brokers.

EVENTIDE 1 Alsan Way, Little Ferry, NJ 07643 201 641-1200

Harmonizer digital audio efx; digital audio delay; Timesqueeze audio time compression/expansion. Spectrum analyzers.

EVERTZ MICROSYSTEMS

3515 Mainway, Burlington, Ont., Canada L7M 1A9

416 335-3700

Chaser & Emulator SMPTE time code synchronizers. SMPTE time code generator/ readers, VITC reader/generators; video slate board/countdown generators; titlers & subtitlers. Digital clocks, timers, complete clock/timing systems.

EXCALIBUR INDUSTRIES 12427 Foothill Blvd., Lake View Terrace, CA 91342

818 899-2547

Foam insert, padded nylon & rack configuration transportation cases; editing/production consoles.

EXPRESS TOWER CO. Box 37, Locust Grove, OK 74365

918 479-6484

Tower masts; tower construction.

EXR

3373 Oak Knoll Dr., Brighton, MI 48116 313 227-6122

Audio processing exciter, projector.

FAIRLIGHT INSTRUMENTS 2945 Westwood Blvd., Los Angeles, CA 91364 213 470-6280

Music synthesizers. CVI digital video efx generator.

FANTASEE LIGHTING 404 N. River, Ypsilanti, MI 48197

313 482-6565 Distributor of full line lighting fixtures, controls, rigging & accessories. Set design service

FAROUDJA LABORATORIES 6 946 Benicia Ave., Sunnyvale, CA 94086 415 941-8585

ColorEx video noise reducers; VHP & RecordEx image enhancers; video flesh tone corrector. NTSC encoders, decoders, comb filter boards.

FARRTRONICS

480 Dutton Dr., Waterloo, Ont., Canada N2L 4C6 519 746-6200/800 265-2713

515 740 0200/000 203-21

Hardwired intercom systems. Audio DAs, audio patch panels & jackfields. VU meters. Video patch panels.

FAX PRODUCTIONS

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4924 Hampden Ln., Bethesda, MD 20814 301 652-7800

Video production & post-production tacilities; mobile production facilities rental.

FIBERBILT CASES 601 W. 26 St., New York, NY 10001 212 675-5820

Foam insert (Supercase) & rack configuration (Supertrunk) transportation cases.

FICON BROADCAST

Box 150846, Nashville, TN 37215 615 329-2400

Radio business automation software.

FIDELIPAC Box 808, Moorestown, NJ 08057 609 235-3900/800 HOT TAPE

Dynamax single-deck, dual/triple-deck & phase control matrixing audio cart player/ recorders; audio carts, tape erasers & degaussers. Cart/tape storage.

See ad on pg. 1 Circle No. 101.

FILM & VIDEO ASSOC. 02700 Seventh Ave. S., Birmingham, AL 35233

205 322-6348

Video production facilities; mobile production facilities rental; equipment rental services; production support services.

FILM/VIDEO EQUIPMENT SERVICE 1875 S. Pearl St., Denver, CO 80210 303 778-8616

Wide Eye wide-angle lens attachments Portable Energy Products nicad & lead-acid batteries, chargers.

IMERO FIORENTINO ASSOC. 44 W. 63 St., New York, NY 10023 212 246-0600

Facilities design & engineering services; set/ studio design services; engineering consultants. 3M Scanmural studio set backdrops.

Field Office:

CA Robert M. Dahl/Nancy Haas, 7060 Hollywood Blvd. #1000, Hollywood 90028 213 467-4020

FIRSTCOM BROADCAST

13747 Montfort #220, Dallas, TX 75240 214 934-2222

Music libraries on CD; syndicated radio programming.

FISHER BERKELEY CORP.

5800 Christie Ave., Emeryville, CA 94608 415 655-9696

Ektacom hardwired intercom systems.

FITZCO SOUND 912 N. Midhiff, Midland, TX 79701 915 684-0861

Audio equipment rental service; audio engineering consultants. Facilities design & engineering facilities; video production & post-production facilities; mobile production facilities rental; recording studios.

FLASH TECHNOLOGY

55 Lake St., Nashua, NH 03060 603 883-6500 High-intensity tower beacons; photoelectric controls; remote monitoring for incandes-cent lighting.

JOHN FLUKE MFG. CO. Box C9090, Everett, WA 98206 206 356-5400

RF test signal generators; frequency counters. Voltmeters, multimeters, dB meters.

FOR-A CORP. OF AMERICA Nonantum Office Park, 320 Nevada St., Newton, MA 02160 617 244-3223

Digital audio memory, digital audio storage. Digital still stores; titlers & subtitlers, "drawon-screen" systems; post-production switchers, component switchers. Digital efx generators, compressor/positioners, RGB & encoded chromakeyers, downstream keyers. SMPTE time code generator/ readers, VITC reader/generators. TBCs, frame synchronizers, field/framestores, TBC/ framestores, color correctors. NTSC encoders, decoders. Video DAs.

Field Offices:

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CA 11060-E Artesia Blvd., Cerritos 90701 213 402-5391 IL 7250 S. Millard St., Chicago 60629

312 582-2233

Circle No. 152.

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See ad on pg. 78.

FOROX CORP. 393 West Ave., Stamford, CT 06902 203 324-7400

Video animation controllers; animation stand motion control. Film cameras. Film recorders.

FORTEL 2985 Gateway Dr., Norcross, GA 30071

404 447-4422 TBCs, field synchronizers, frame synchronizers; Turbo 2 field/framestores & TBC/ framestores; Colorex video noise reducers & image enhancers; color correctors.

Field Offices:

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 CA
 Tim Stockhaus,
 1374
 Wright Ave..

 Sunnyvale
 94087
 408
 730-5919

 CT
 John Duffy,
 135
 Rainbow Trail,
 Vernon

 06066
 203
 872-1087
 KS
 David Rangel,
 10778
 Hauser Dr.,

 Lenexa
 66210
 913
 469-9430

FOSTEX CORP. OF AMERICA V 15431 Blackburn Ave., Norwalk, CA 90650 213 921-1112

Mic mixers, portable consoles. 2-/4-track & multitrack ATRs. Portable, multitrack integrated cassette recorder/mixer. Audio compressor/limiters, graphic equalizers. Analog special efx, reverb. Monitor speakers & components, headphones. Dynamic, ribbon, moving coil & stereo mics. Audio line & power amps. Audio-to-video synchronizers and editing systems.

See ad on pg. 83. Circle No. 155.

FREELAND PRODUCTS CO. Rt. 7 Box 628, Covington, LA 70433 504 893-1243/800 624-7626 Rebuilt RF tubes.

FREQUENCY DEVICES 25 Locust St., Haverhill, MA 01830 617 374-0761 Active filter modules for stereo generators.

FREZZOLINI ELECTRONICS 5 Valley St., Hawthorne, NJ 07506 201 427-1160 Lamps, quartz lighting fixtures, lighting stands & rigging. Nicad & lead-acid batteries & chargers, ac/dc converters & inverters.

See ad on pg. 82. Circle No. 154.

FUJINON

672 White Plains Rd., Scarsdale, NY 10583 914 472-9800

Camera lenses, lens remote control

FUJI PHOTO FILM USA

555 Taxter Rd., Elmsford, NY 10523

914 789-8100 One-inch videotape; 3/4-inch & half-inch videocassettes.

 Field Offices:

 CA
 1211 E. Artesia Blvd., Carson 90746

 213 636-0101
 213 636-0101

 GA
 5461 Peachtree Ind. Blvd., Norcross

 30092
 404 441-2222

 IL
 1000 Pratt Blvd., Elk Grove Village 60007

 312 569-3500
 312 569-3500

 NJ
 800 Central Blvd., Carlstadt 07072

 201 935-6022
 TX

 TX
 3500 Garden Brook Dr., Dallas 75234

See ad on pg. 86.

GABRIEL ELECTRONICS

Box 70, Libby Rd., Scarborough, ME 04074 207 883-5161 Microwave antennas. Rigid, foam dielectric

214 243-2537

Circle No. 156.

& coaxial transmission line.

GARNER INDUSTRIES

4200 N. 48 St., Lincoln, NE 68504 402 464-5911 Tape duplicators. Audio head degaussers; audio & video tape erasers, degaussers.

GBH PRODUCTIONS 125 Western Ave., Boston, MA 02134 617 492-9273

Video production & post-production facilities; mobile teleproduction facilities rental; audio post-production facilities; set/studio design services; teleconferencing services.

GENERAL ELECTRIC CO., LIGHTING BUSINESS GROUP Nela Pk., Cleveland, OH 44112

216 266-2121 Quartzline tungsten-halogen lamps

GENERAL ELECTRIC CO., PROJECTION DISPLAY OPERATION

Electronics Park 6-206, Syracuse, NY 13221 315 456-2152

Video projectors.

GENERAL TELEVISION NETWORK 13201 Capital Ave., Oak Park, MI 48237 313 399-2000

Equipment rental services; facilities design & engineering services; engineering consultants; mobile vehicle construction.

GENERIC COMPUTER SYSTEMS WISR Bidg., Box 151, Butler, PA 16001 412 283-1300

Radio business automation software

MEANS

GENTNER ENGINEERING CO.

540 W. 3560 South, Salt Lake City, UT 84115

801 268-1117

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Hardwired intercoms; audio DAs, audio routing switchers, audio patch panels & jackfields; telco interface equipment.

Ь

GENTNER RF PRODS. DIV. Box 32550, San Jose, CA 95152 408 926-3400

Transmitter remote control systems & satellite network controllers; remote control accessories.

GLENTRONIX (1977) LTD. 90 Nolan Ct., Unit #7, Markham, Ont., Canada L3R 4L9 416 475-8494

Equipment rental services. Exclusive Canadian distributor of Ross video switchers & special efx systems, Dynatech jackfields, Telcom Research time code generator/ readers & synchronizers, Porta-Pattern test charts, CMC head rebuilding program, Scientel sideband analyzers, Torpey clocks & timing systems.

Advancing technologies can move at such a rate a new product may blur by without offering the true explanation of why it was developed in the first place.

Quite simply the new GLM is a superior studio quality microphone that incorporates all the benefits of its larger more conventional predecessors.

Crown technology has always ignored the conventions of new product development and recognized no limits in achieving the ultimate in professional quality.

See your nearest Crown dealer. Find out how this incredibly small microphone achieves such a high level of performance.

Crown International, Inc., (219) 294-8000 1718 W. Mishawaka Rd., Elkhart, IN 46517



GML AMERICA



8150 Leesburg Pike #910, Vienna, VA 22180 703 790-0101

Digital video efx generators; TBC/ framestores

GOLDEN APPLE MEDIA

112 W. Boston Post Rd., Mamaroneck, NY 10543

914 381-4141 Video production & post-production facilities

rental; recording studios; audio postproduction facilities, facilities design & engineering services; set/studio design services; engineering consultants

6 GOLDEN GATE PRODUCTIONS 500 Eighth St., San Francisco, CA 94103 415 533-2277

Video production & post-production facilities; facilities design & engineering services; video/film stock shot library

Ь ALAN GORDON ENTERPRISES 1430 Cahuenga Blvd., Hollywood, CA 90039 213 466-3561

Swintek Hitchhiker RF mics: mic fishpoles. Filmo & Image 300 cine cameras; Trinitar 16 mm lenses. EOS & Lynx Robomation video animation controllers. Nicad batteries, chargers. Pearson camera heads, Colortran & Elemack dollies, Elemack cranes & jibs. Equipment rental services

GORMAN-REDLICH MFG. 6 Curtis St., Athens, OH 45701 614 593-3150

EBS two-tone systems. NOAA weather radio receivers. Antenna monitors, phase meters.

Ь GOTHAM AUDIO 1790 Broadway, New York, NY 10019 212 765-3410

Portable, stereo studio & audio-for-TV consoles; console automation. CD/DAD players, turntables, pickup arms, phono cartridges, complete disc consoles. Computer automation controllers, complete program automation systems, automatic time/weather announcers. ALC & AGC amps, AM & FM compressor/limiters, parametric & graphic equalizers, audio noise reduction. Digital audio efx & reverb, digital delay. Monitor speakers. Electret/condenser, shotgun & stereo mics: mic booms & dollies. Audio preamps & line amps Audio routing switchers. Rotary & slide attenuators, VU & PPM meters, LED displays, video monitor displays. Wow & flutter meters. Audio cable.

Field Office:

CA 7445 Orion Ave., Van Nuys 91406 818 785-2211

GRACE & WILD STUDIOS 23689 Industrial Pk. Dr., Farmington Hills, MI 48024 313 471-6010

Video production & post-production facilities; mobile production facilities rental.

GRAHAM-PATTEN SYSTEMS Box 1960, Grass Valley, CA 95945 916 273-8412

Audio-for-TV consoles; audio DAs: PPM meters, Downstream keyers; video DAs, pulse amps, subcarrier amps, Custom transmitter remote control systems.

GRAPHIC EXPRESS 3678 Fourth Ave., San Diego, CA 92103 619 298-2834

Modular news & studio sets, scenery construction, scenery rigging, props & materi-als, set design service. Studio furniture, cabinets, studio consoles.News graphics slide service, lighting design.

THE GRASS VALLEY GROUP Box 1114, 13024 Bitney Springs Rd., Grass Valley, CA 95945 916 273-8421

Audio-for-TV consoles. Audio DAs, audio routing switchers. Dubner titlers & subtitlers, Texta character generator/graphics systems, digital art/paint systems, 3D modeling & manipulation, "draw-on-screen" systems. Weather-based art/paint systems. Compact studio/mobile & large automated production switchers; post-production switchers, component switchers. Kaleidoscope digital efx generators. Manual & automated master control switchers. Parallel interface video routing switchers. Audio routing switchers. Parallel interface machine control/technical automation. Two-machine video editor/ controllers, multisource video editing systems. Video sync generators. Video/cable equalizers. Proc amps, video DAs, pulse amps, Wavelink, EZ-Link fiberoptic systems. SC/H phase meters.

Field Offices:

b

CA Doug Buterbaugh, 21243 Ventura Blvd. #206. Woodland Hills 91364 213 999-2303

ery Charge

inn W

Used

by all

3 major

networks.

Full 4AH Premium Battery Packs for portable cameras.

FBP-90FC Exclusive: extra High-Tech connects Battery Pack

I-hour re-charge.

For recorders, cameras, lights.

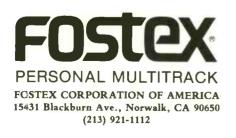
Made in U.S.A.





Here's your best buy in a fully functional audio sweetening facility, complete from input to output. Made expressly for film and video post production. No other manufacturer can offer you complete systems, fully integrated, ready for video or film interface.

Many popular record, TV show themes and movie soundtracks have been recorded on this equipment. Join the fast-growing list of Fostex professional users. You can continue to go outside for all your audio post work, or you can go on-line with Fostex and watch your investment pay for itself



- Model 80: 8-track recorder with integral Dolby C NR. \$2000
- Model 20: 2-track recorder with center SMPTE track. \$1000
- Model 4030 Synchronizer with Model 4035 Remote Controller: one master recorder can control up to three slaves with chase, pre-roll; resolves to film. **\$2000**
- Model 450: 8 x 4 x 2 recording console with parametric EQ, solo and in-line monitoring. \$1000
- Fostex makes a complete line of microphones, monitors, recorders, signal processors and accessories, even the interconnecting cable.
- All prices are approximate retail. You can pay more if you insist, but wouldn't it be better to check with a Fostex dealer first? The more you invest in a Fostex post suite, the more you'll save for that next expensive piece of video hardware. Look to Fostex for all your on-line audio needs.

Prices subject to change without notice.

CA Rick LeFarge, 1032 Elwell Ct. #244, 415 968-6680 Palo Alto 94303 GA Bill Powers, 3554 Habersham at Northlake, Tucker 30084 404 493-1255 IN Louie Swift, Box 4609, Elkhart 46514 219 264-0931

MD Mark Everett, 12520 Prosperity Dr. #110. Silver Spring 20904 301 622-6313 MN Larry Ehnstrom, 3585 N. Lexington Ave. #339, Arden Hills 55126

612 483-2594 NJ Tom O'Connor, 6 Forest Ave., Paramus 201 845-7988 07652 TX Roger Hale, 5628 Poly Webb Rd., 817 483-7447 Arlington 76017 See ad on pg. 8. Circle No. 157. See ad on pg. 85.

GRAY COMMUNICATIONS Box 3229, Albany, GA 31708 912 883-2121

Custom mobile vehicle construction; mobile satellite broadcast systems from fly-away to full production trucks; turnkey broadcast systems; engineering consultants; facilities design & engineering services.

Field Offices:

AL Richard Brown, 2866 Dauphin St. #F&G, Mobile 36606 205 476-2051 FL Emerson Ray, Box 24336, Tampa 813 885-1411 33623 LA 5441 Pepsi St., New Orleans 70123

504 733-7265 GA Dick Schmidt, 2254 Northwest Pky. #C, Marietta 30067 404 925-7725 TN Fred McCoy, 1838 Elm Hill Pike #101, Nashville 37210 615 883-9175

Ь GRAY ENGINEERING LABS 504 W. Chapman Ave. #P, Orange, CA 92668

714 997-4151

SMPTE time code generator/readers, VITC reader/generators; video reticle generator.

THE GREAT AMERICAN MARKET $m{b}$ 826 N. Cole Ave., Hollywood, CA 90038 213 461-0200

Lamps, HMI & CSI fixtures, quartz fixtures, cyc lighting, lighting stands & rigging, diffusion & efx material, lighting control boards. Lead-acid batteries, chargers; HMI ballasts.

DAVID GREEN BROADCAST CONSULTANTS

Box 8782, BWI Airport, Baltimore, MD 21240

301 796-1500/800 547-2346

Test equipment rentals; distributor of audio & RF equipment.

GRINNAN FIXTURE CO.

16041 Georgetown St. NE, Minerva, OH 44657

216 862-2799

Facilities design & engineering services; engineering consultants; mobile vehicle construction; studio cabinets & furniture; set/studio design services

Ь **GROSH SCENIC STUDIOS** 4114 Sunset Blvd., Hollywood, CA 90029 213 662-1134

Ь

Scenery construction & rigging.

GRUMMAN ELECTRONICS SYSTEMS

Sunrise Hwy. #A38-43, Great River, NY 11739

516 435-6001

Parallel & serial interface machine control/ technical automation; ad insertion systems.

JAMES GRUNDER & ASSOC. 5925 Beverly, Mission, KS 66202 913 831-0188

CEL Ltd. audio routing switchers, digital video efx generators, compressor/positioners, serial interface video routing switchers. TBCs, field synchronizers, frame synchronizers, field/framestores, TBC/framestores, video noise reducers, image enhancers, color correctors, standards converters. Brabury NTSC, RGB & high resolution video monitors.

GTE COMMUNICATIONS SYSTEMS CORP.

2500 W. Utopia Rd., Phoenix, AZ 85027 602 582-7000

Fiberoptic systems. Intercity microwave equipment. Microwave & telco STLs. CATV transmission equipment.

Ь **GTE ELECTRICAL PRODUCTS**

Sylvania Lighting Center, 100 Endicott St., Danvers, MA 01923 617 777-1900 Sylvania lamps.

HALLIKAINEN & FRIENDS 141 Suburban Rd. Bldg. E4, San Luis Obispo, CA 93401

805 541-0200

Ь

Audio-for-TV consoles. Log printers, automatic TV & radio monitors, status/alarm indicators. Telemetry adapters to digitize & automate Moseley TRC 15A remote control.

HARDIGG INDUSTRIES

N. Main St. Box 201, S. Deerfield, MA 01373 413 665-2163

Foam insert & rack configuration transportation cases

Ь HARRIS BROADCAST DIV. Box 4290, 3200 Wismann Ln., Quincy, IL

62305 217 222-8200

Mono & stereo studio audio consoles, audiofor-TV consoles; computer automation controllers, automatic satellite switchers, complete program automation systems; radio business automation software; ALC & AGC amps, AM & FM compressor/limiters, audio noise reduction; audio preamps, line amps, monitor/power amps, amp power supplies.

Studio & ENG cameras: digital efx generators, compressor/positioners; TBCs, frame synchronizers, field/framestores, TBC/ framestores, video noise reducers.

AM, FM, VHF & UHF transmitters; AM, AM stereo, FM & TV exciters, stereo generators; RF amps, loads & switches; intercity, portable ENG & airborne microwave systems, central receivers, SMATV systems; FM, TV HP & TV CP antennas.

HARRIS BROADCAST MICROWAVE 967 Stierlin Rd., Mountain View, CA 94043

415 969-9100 KU-band uplinks. Microstar intercity micro-

wave systems; Globalix & Challenger portable ENG microwave; Mini-Link airborne microwave; CR central receivers. STLs & TSLs for radio & TV. Portable video microwave test unit.

HARRIS CORP., SATELLITE COMMUNICATIONS DIV.

Box 1700, Melbourne, FL 32901

800 327-8478

Delta Gain lines of transmit/receive.receiveonly & transportable satellite earth stations; upconverters, downconverters, LNAs & LNCs, encryption systems, MAC systems, satellite network controllers. Satellite audio, video & data exciters & receivers. Low- & high-rate modems for connecting earth station systems. Communications antennas.

HARRIS VIDEO SYSTEMS Box 4290, Quincy, IL 62305 217 222-8200

Iris digital still store. Aurora videographics system. Digital efx generators. TBCs, frame synchronizers, TBC/framestores, video noise reducers.

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Field Offices:

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CA Gary Johnston, 3129 S. Sycamore, Santa Ana 92705 714 850-1894 CT John Burger, 17 Tally Ho Rd., Ridgefield 06877 203 431-9381 FL John Borger, 1451 Owen Dr., Clear-813 797-4191 water 33519 KS Shawn Underwood, 9025 Reeder St. #1602, Overland Park 66214 913 541-0153

HARRISON SYSTEMS Box 22964, Nashville, TN 37202 615 834-1184

Portable, stereo studio & audio-for-TV audio consoles; console automation, VSI video interface for consoles.

HBO STUDIOS

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120-A E. 23 St., New York, NY 10010 212 477-8600

Video production & post-production facilities.

HEDCO Box 1985, Grass Valley, CA 95945

916 273-9524 Audio DAs, audio routing switchers. Parallel

& serial interface video routing switchers. Video DAs, pulse amps, subcarrier amps.

KARL HEITZ, INC.

Box 427, Woodside, NY 11377 718 565-0004

Gitzo camera tripods, heads & dollies, mic booms & dollies.

b HEWLETT-PACKARD CO. 1620 Signal Dr. TAF C-34, Spokane, WA 99220

509 922-4001

HIPOTRONICS

Audio test signal generators, harmonic distortion meters. Demodulators, modulation monitors, RF test signal generators.

Drawer A, Rte. 22N, Brewster, NY 10509 914 279-8091 Automatic voltage regulators; ac/dc high

voltage test sets; voltmeters.

RICHARD HIRSCHMANN OF AMERICA

POB 229, Riverdale, NJ 07457 201 835-5002

Fiberoptic audio & video transmission systems.

See ad on pg. 149. Circle No. 246.

HITACHI DENSHI AMERICA

175 Crossways Park W., Woodbury, NY 11797 516 921-7200

Studio, ENG, single-tube color & CCD color

Have you heard the news about the Grass Valley Group 1680 Series Production Switchers?

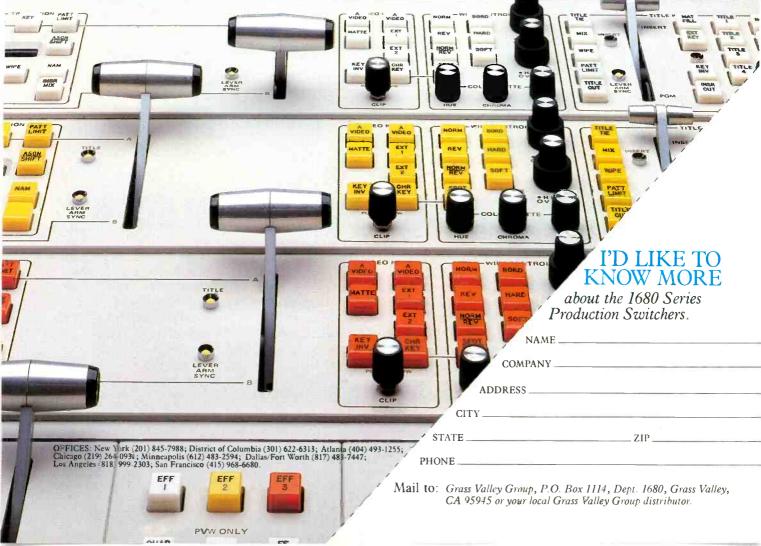
You never will unless you call or send the coupon below to your local Grass Valley Group distributor or sales representative today.

Grass Valley Group[®]

A TEKTRONIX COMPANY

STRENGTH YOU CAN RELY ON

Circle 157 on Reader Service Card





NEVER HAS ONE INCH BEEN TAKEN SO FAR.

We could tell you that Fuj**i**'s H621E 1" videotape has a video and chroma S/N rating 2dB higher than even our best 1" tape.

And we could tell you that now we've made H621E even better with an audio rating that's 3dB higher.

But why tell you when we can show you? We'll do it right before your eyes, in your own facility. Just call your Fuji representative. He'll introduce you to a tape that will give you clear, crisp audio and unsurpassed picture quality after more generations than you'll probably ever need.

Of course, good news travels fast. So before all these extra dBs wind up in someone else's studio, call the nearest regional office listed below toll-free and ask them for a demonstration of Fuji H621E. Because when it comes to great audio and video reproduction, why look any further?



FUJI PROFESSIONAL VIDEOTAPE PRODUCTS:

 Northeast Region 1-800-526-9030
 Southeast Region 1-800-241-6005
 Midwest Region 1-800-323-4826
 Southwest Region 1-300-527-0804
 Western Region 1-800-241-7695

 (in NJ 201-935-6022)
 (in GA 404-441-2222)
 (in IL 312-569-3500)
 (in TX 214-243-2537)
 (in CA 213-636-0101)

 © 1986 Fuji Photo Film U.S.A., Inc., Magnetic Products Dis, 555 Taxter Rd., Elmstord, NY 10523
 NY 10523
 (in CA 213-636-0101)

video cameras. HDTV camera, digital HDTV VTR, HDTV projection display system. Oneinch C VTRs. Monochrome video monitors. See ad on pg. 89. Circle No. 158.

HM ELECTRONICS 9675 Business Pk Ave., San Diego, CA 92131

619 578-8300

Hardwired & RF intercom systems. Dynamic, electret/condenser, RF & lavalier mics. Disco mixers. Wireless presicion audio link for audio testing.

Circle No. 160.

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See ad on pg. 92.

HORIZONTAL EDITING STUDIOS 2625 W. Olive Ave., Burbank, CA 91505

818 841-6750

Video & audio post-production facilities; facilities design & engineering services.

HOTRONIC 1210 S. Bascom Ave. #128, San Jose, CA 95128 408 292-1176

TBCs, frame synchronizers, TBC/ framestores.

HOUSTON INTL. TELEPORT/S.T.A.R.S. 3003 Moffett Ln., Houston, TX 77489 713 438-3600

Prostar encryption system leasing. Video production facilities; equipment rental services; facilities design & engineering services; earth station site selection; mobile vehicle construction; satellite time brokers; syndicated radio programming.

HOWE AUDIO

2300 Central Ave., #E, Boulder, CO 80301 303 444-4693

Portable, stereo studio & audio-for-TV consoles. Audio preamps, monitor/power amps. Telco interface equipment. Audio time base correctors.

HUBBARD COMMUNICATIONS/

12495 34 St. N., St. Petersburg, FL 33702 813 577-7759

MERPS multicassette decks. Solid state telecine systems; telecine cameras. Transmit/receive, receive-only & transportable satellite earth stations. Facilities design & engineering services; engineering consultants; mobile vehicle construction.

HUDSON AUDIO VIDEO ENTERPRISES 309 Power Ave. Hudson NY 12534

309 Power Ave., Hudson, NY 12534 518 828-2000

Haveflex prefabricated audio cable; video cable. Video post-production facilities; equipment rental services; facilities design & engineering services; duplication & standards conversion.

HUGHES HELICOPTERS Centenial & Teal Sts., Culver City, CA 90230

213 305-3226

Broadcast-equipped helicopters

HUGHEY & PHILLIPS 8511 Lankershim Blvd., Sun Valley, CA 91352-3127 213 849-1104 Tower lighting.

IGM COMMUNICATIONS 282 W. Kellogg Rd., Bellingham, WA 98226

206 733-4567

Go-Cart, Instacart multideck cart players. IGM EC/SC computer automation controllers; IGM EC/SC automatic satellite switchers; complete program automation systems. Custom system design service.

IKEGAMI ELECTRONICS 37 Brook Ave., Maywood, NJ 07607 201 368-9171

Cameras: studio, field, ENG, Unicam recorder/cameras, HDTV, monochrome, electronic cinematography. Solid-state telecine systems, telecine cameras. Video monitors: monochrome, NTSC, RGB, high resolution, wide aspect ratio, batterypowered portable. Portable ENG microwave systems.

Field Offices:

CA Jerry Kraus/Bill Warnke, 3445 Kashiwa St., Torrance 90505 213 534-0050 FL Bud Mills/Kevin Goetz, 6201 Johns Rd. #5, Tampa 33614 813 884-2046 IL Bob Johnston, 747 Church Rd., Units C4 & C5, Elmhurst 60126 312 834-9774 TX Glen Smith, 13721 Omega Rd., Dallas 75234 214 233-2844 See ad on pg. 14-15. Circle No. 108. See ad on pg. 47. Circle No. 131. See ad on pg. 142. Circle No. 237.

IMAGE AMPLIFICATION Box 699, Pine Brook, NJ 07058 201 882-0584

Large-screen video projectors.

IMAGE DEVICES INTERNATIONAL 1825 N.E. 149 St., Miami, FL 33181 305 945-1111

Video production & post-production facilities; mobile production facilities rental; equipment rental services; facilities design & engineering services.

Field Office:

GA 3311 Empire Blvd., Atlanta 30354 404 766-1111

IMAGE TRANSFORM

4142 Lankershim Blvd., N. Hollywood, CA 91602

818 985-7566

Video post-production facilities; film laboratory.

IMAGE VIDEO LTD.

705 Progress Ave. #46, Scarborough, Ont., Canada M1H 2X1 416 438-3940

Downstream keyers. Manual & automated master control switchers. Parallel & serial interface video routing switchers. Parallel & serial interface machine control/technical automation. Video DAs. Silence monitor; dual mix amp; voltage monitor. Jackfields, patch panels.

Field Office:

NY 1051 Clinton St., Buffalo 14206 716 855-2693

IMS/INTEGRATED MEDIA SYSTEMS

1552 Laurel St., San Carlos, CA 94070 415 592-8055

Audio routing switchers. Digital audio A/D & D/A converters.

INDUSTRIAL RESEARCH PRODUCTS

321 Bond St., Elk Grove Village, IL 60007 312 439-3600 Mic mixers. Parametric equalizers. Digital delays. Power amps; automatic gain control.

INFORMATION TRANSMISSION SYSTEMS 375 Valley Brook Rd., McMurray, PA 15317

412 941-1500 UHF, LPTV & MDS transmitters. TV exciters.

INMARK CORP.

147 W. Cedar St., Norwalk, CT 06854 203 866-8474

Comet Vacuum variable & fixed capacitors.

INNOVATIVE TELEVISION EQUIPMENT

6445 DeSoto Ave., Woodland Hills, CA 91367

818 888-9421

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Tripods, heads, pedestals, ENG braces, dollies, remote pan/tilt systems. Foam-insert transportation cases. Portable antenna support tripods & heads.

INOVICN 250 E. Gentile St., Layton, UT 84041 801 546-2850

Digital art/paint systems; digital efx generators.

INOVONICS

1305 Fair Ave., Santa Cruz, CA 95060 408 458-0552

ALC & AGC amps, AM & FM compressor/ limiters. Gordon Headroom meter (PPM); TVU video monitor level displays. Audio recorder replacement electronics. FM & TV slereo generators.

INTEGRATED SOUND SYSTEMS 1227 Walt Whitman Rd., Melville, NY 11747 516 351-2100

Stereo audio consoles. Turntables, complete disc consoles. Graphic equalizers. Audio time compression/expansion. Monitor speakers. Dynamic, electret/condenser & shotgur mics. Monitor/power amps.

INTEGRATED TECHNOLOGIES 3821F S. George Mason Dr., Falls Church, VA 22041 703 578-1811

Character generator/graphics systems; digital art/paint systems; 3D modeling & manipulation; "draw-on-screen" systems; bit pad digitizers. Weather graphics displays; satellite displays; weather radar displays; weather-based art/paint systems. NTSC encoders.

INTERAND CORP.

3200 W. Peterson Ave., Chicago, IL 60659 312 478-1700

ImageFile still store. Telestrator character generator/graphics systems, "draw-onscreen" systems. NTSC decoders. Discon teleconferencing systems.

INTERCONTINENTAL TELEVIDEO 29 W. 38 St., New York, NY 10018 212 719-0202

Video standards conversion & duplication services; video post-production facilities; equipment rental services.

INTERFACE VIDEO SYSTEMS

1333 New Hampshire Ave. N.W. #LL200, Washington, DC 20036 202 861-0500



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Video production & post-production facilities; mobile production facilities rental; recording studios; audio post-production services; standards conversion; duplication services; equipment rental services.

Ь INTERGROUP VIDEO SYSTEMS 240 N.W. 67 Pl., Gainesville, FL 32606 904 335-0901

Audio DAs. Portable, compact studio/mobile & large automated production switchers; post-production switchers. Digital efx generators, colorizers, RGB & encoded chromakeyers, downstream keyers. Manual & automated master control switchers; parallel & serial interface routing switchers; video DAs, pulse amps, subcarrier amps.

INTERNATIONAL ELECTRO-MAGNETICS

350 N. Eric Dr., Palatine, IL 60067 312 358-4622

Replacement audio heads. Replacement & rebuilt video heads

Ь INTERNATIONAL MICROWAVE CORP.

65 Commerce Rd., Stamford, CT 06902 203 323-5599

Pulse & subcarrier amps. Diplexers, modulators. RF amps, converters, filters & switches. Upconverters, downconverters; LNAs. Microwave systems: intercity, portable ENG, central receivers. Communications antennas. FM & AM SCAs. Two-way radio communications. Solid-state components.

INTERNATIONAL NUCLEAR CORP. 608 Norris Ave., Nashville, TN 37204 615 254-3365

Preamps, line amps. Audio DAs, audio routing switchers. EBS two-tone systems. Downstream keyers. Manual master control switchers. Parallel interface video routing switchers. Black burst generators. Video DAs, pulse amps

INTERNATIONAL PRODUCTION CENTER

514 W. 57 St., New York, NY 10019 212 582-6530/800 223-0622 Video production & post-production facilities. Videotape duplication services.

INTERNATIONAL **TAPETRONICS CORP./3M**

2425 S. Main St., Box 241, Bloomington, IL 61702

309 828-1381/800 447-0414

Delta, Omega single-deck cart player/ recorders; Deltadual/triple-deck cart player/ recorders. ScotchCart audio cartridges; tape erasers, degaussers. Circle No. 119.

See ad on pg. 35.

Ь INTERNATIONAL TELETRONICS Box 738, 1 Airport Dr., Williamstown, NJ 08094

609 728-5152

FM transmitters. FM exciters, stereo generators. Transmitter remote control systems. FM SCA equipment.

ISS ENGINEERING

104 Constitution #4, Menio Park, CA 94025

415 853-0833 TV & CATV modulators. Upconverters, downconverters, LNAs. SMATV systems. Power dividers. Spectrum analyzers

MEANS IT'S VERIFIED

Field Office:

6

AL John Coiro, 1749A 6 Pl. N.W. Birmingham 35215 205 853-6919

ITELCO 1620 W. 32 Pl., Hialeah, FL 33012 305 822-1421

FM, VHF, UHF, LPTV transmitters. FM & TV exciters, stereo generators, diplexers, modulators. RF amps, converters, filters, switches. Transmit/receive & receive-only satellite earth stations. Portable ENG microwave systems. FM antennas. FM SCA equipment. RF test signal generators. Resonating cavities.

ITI ELECTRONICS 12 Kulick Rd., Fairfield, NJ 07006 201 882-6405

Audio line amps, monitor/power amps, amp power supplies. Audio patch panels, jackfields.

ITT JENNINGS

970 McLaughlin Ave., San Jose, CA 95122 408 292-4025 RF switches; capacitors.

JAM CREATIVE PRODUCTIONS 4631 Insurance Ln., Dallas, TX 75205 214 526-7080 Music libraries; station ID jingle packages.

Ь JAMPRO ANTENNAS

6939 Power Inn Rd., Sacramento, CA 95828

916 383-1177 FM, TV HP & TV CP antennas. RF filters.

Ь THE JANSON INDUSTRIES 1200 Garfield Ave. S.W., Canton, OH

44706

216 455-7029 Scenery construction & rigging. Cyclorama drapery & track.

6 **JASONI ELECTRONICS**

2900 E. Charleston Blvd. #197, Las Vegas, NV 89104 702 384-0081

Audio test signal generators; audio tape analyzers

JAVELIN ELECTRONICS

19831 Magelian Dr., Torrance, CA 90502 213 327-7440

Cameras: CCD, monochrome, color. Camera lenses, extenders. Video DAs. Monochrome & color picture monitors. Remote pan & tilt systems. Video source ID systems. Modulators. Video microscopes.

Ь JBL PROFESSIONAL 8500 Balboa Bivd., Box 2200, Northridge, CA 91329 818 893-8411

Soundcraft portable audio consoles & audiofor-TV consoles, 2-/4-track & multitrack ATRs. UREI mono & stereo studio consoles, ALC & AGC amps, parametric equalizers, preamps. JBL/UREI graphic equalizers, digital delay lines, monitor speakers, line amos, monitor/power amps.

JEFFERSON PILOT DATA SYSTEMS

501 Archdale Dr., Charlotte, NC 28210 704 529-3901

Radio & TV business automation software & hardware; radio & TV newsroom computers.

JEM-FAB CORP.

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400 Roosevelt Ave., Freeport, NY 11520 516 868-1428

Facilities design & engineering services; engineering consultants; financial consultants; mobile vehicle construction; systems documentation; custom panel engraving & manufacturing. Modular news & studio sets; studio furniture; cabinets; custom studio consoles; equipment racks. AFV monitor switchers, AFV visual time code switchers, specialty audio & video switchers, VCR dubbing machine control systems.

JENSEN TOOLS

7815 S. 46 St., Phoenix, AZ 85044 602 968-6241

Tools; foam insert transportation cases.

JENSEN TRANSFORMERS

10735 Burbank Blvd., N. Hollywood, CA 91601

213 876-0059

Twin servo mic preamps, opamps, power amps; audio transformers.

THE J-LAB CO.

Box 6530, Malibu, CA 90264 213 457-4090

Standalone CCUs. Safe title area generators. Line-operated & camera-mounted transcoders. Beta playback modification.

JRF/MAGNETIC SCIENCES 101 Landing Rd., Landing, NJ 07850

201 398-7426 Replacement & rebuilt audio heads. Head

relapping service.

J.S.L. VIDEO SERVICES

25 W. 45 St., New York, NY 10036 212 575-5082/212 944-9494 Video post-production facility.

JVC CO. OF AMERICA, **PROFESSIONAL VIDEO** COMM. DIV.

41 Slater Dr., Elmwood Park, NJ 07407 201 794-3900

Cameras: field, ENG, lightweight, singletube color, recorder/cameras. 34-inch U & VHS VCRs. Half-inch VHS mastering videocassettes. Standalone analog video efx; RGB chromakeyers. Video graphics system. Three-machine video editor/controllers. Video monitors. Digital audio editors; turntables; shotgun mics.

Field Offices:

CA 1011 W. Artesia Blvd., Compton 90220 213 537-6020 GA 3040 Northwoods Pky., Norcross 404 447-0811 30071 IL 2250 Lively Blvd., Elk Grove Village 312 364-9300 60007 TX 407 Garden Oaks Blvd., Houston 77018 713 694-0666 Circle No. 112.

See ad on pg. 22.

KAHN COMMUNICATIONS 425 Merrick Ave., Westbury, NY 11590 516 222-2221

AM stereo exciters. AM SCA equipment.

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When the Hitachi HR-230's real-time diagnostic system spots a potential problem during operation, it tells you what happened, and exactly where it happened. And it tells you in plain English.

The HR-230's computer controlled self-diagnestics continually monitors 49 different operat onal, maintenance, and troubleshooting parameters during both playback and reocrding. And it gives you the whole story up front on a conscle display and on the monitor.

Plus, you don't have to keep your eyes glued to the machine. Because the HR-230 stores it all in memory— along with the exact locat or— so you can go back and check later on.

But the HR-230 has a lot more going for it than just a great memory. Our retracting tape guides and tension arms —along with a non-contact







air scanner system dramatica ly reduce head and tape wear. It's compatible with all major eciting systems. And such features as master/ slave operation of up to 48 VTRs through its built-in editor, complete autosetup, prealigned replacement scanner, and a built-in TBC save you a lot of time and trouble

of time and trouble And the HR-230 will save you money. Because nobody offers you so complete a machine for so mocest a price.

For a demonstration in your studic, contact Hitachi Denshi America _td. Broadcast and Professional Division, 175 Crossways Park West, Woodbury, NY 11797. Or phore (516) 921-7200 cr (800) 645-7510. In Canada. cortact Hitachi Der shi Ltd. (Canada), 65 Melford Drive, Scarborough, Ontario M1B 2G6; (416) 299-590C.

Circle 158 or Reader Service Carc

THE FIRST I-INCH VTR THAT TELLS YOU WHERE TO GO.



You can't expect much from a \$4,500* character generator.

SURPRISE!

Introducing the Laird 1500-PROM high resolution character generator with 6 font resident memory and built in expandability.



*User's choice of broadcast or industrial encoder required for color operation.

LAIRD TELEMEDIA INC."

Corporate Offices WEST 2424 South 2570 West Salt Lake City, Utah 84119 (501) 972-5900

MIDWEST Three Dallas Communications Complex 6311 N O'Connor Suite N38 LB160 Irving, ïexas 75039-3510 (214) 869-7693 Circle 159 on Reader Service Card

EAST #1 Perimeter Park South Suite 100 North Birmingham, Alabama 35243 (205) 870-0967

KAITRONICS CORP.

Ь

890 Cowan Rd., Burlingame, CA 94010 415 697-9102 Compact studio/mobile production switch-

ers. Parallel & serial interface routing switchers.

KALAMUSIC

4200 W. Main St., Kalamazoo, MI 49007 616 385-5110/800 225-KALA

Syndicated radio programming; music library.

KALART VICTOR CORP.

Hultenius St., Plainville, CT 06062 203 747-1663

16 mm telecine projectors.

KAMAN SCIENCES

1500 Garden of the Gods Rd., Colorado Springs, CO 80933 303 599-1470

Radio & TV business automation hardware & software.

KANGAROO VIDEO PRODUCTS

10845 Wheatlands Ave. Ste. C, Santee, CA 92071 619 562-9696

Padded nylon transportation cases.

KAVOURAS

Ь 6301 34 Ave. S., Minneapolis, MN 55450 612 726-9515

TritonX & WeatherLink Vista weather graphics displays & satellite weather displays; TritonX weather symbol inserters & weatherbased art/paint systems. Radac weather radar displays. L-DATS lightning detection interface to TritonX.

KAY ELEMETRICS CORP. 12 Maple Ave., Pine Brook, NJ 07058 201 227-2000

Rotary attenuators. RF attenuators, switches. Audio test signal generators, spectrum analyzers, real time analyzers. RF test signal generators.

KAY INDUSTRIES 604 N. Hill St., South Bend, IN 46617 219 234-0171

Rotary phase converters for radio & TV transmitters

KEYLITE PSI

333 S. Front St., Burbank, CA 91502 818 841-5483/800 LITE NOW Sales & rentals of full line lighting equipment.

K&H PRODUCTS/PORTA-BRACE Box 246, Water St., N. Bennington, VT 05257

802 442-8171 Padded nylon transportation cases

KINEMETRICS/TRUE TIME DIV. 2343 Santa Rosa Ave., Santa Rosa, CA 95407

707 528-1230

Digital clocks, complete clock/timing systems.

KING INSTRUMENT CORP. 80 Turnpike Rd., Westboro, MA 01581

617 366-9141

Audio & video cassette loaders; videotape evaluators

KINGS ELECTRONICS CO.

40 Marbledale Rd., Tuckahoe, NY 10707 914 793-5000

Cable connectors, jackfields & patch panels.

KINTEK

224 Calvary St., Waltham, MA 02154 617 894-6111

Stereo synthesizers, polarity correctors; phase & correlation meter.

KLARK-TEKNIK ELECTRONICS 30B Banfi Plaza N., Farmingdale, NY 11735

516 249-3660

Mic mixers, stereo studio consoles, audiofor-TV consoles. AM & FM compressor/ limiters, graphic equalizers, audio/video sync delay. Digital efx & reverb, digital delay, analog efx & reverb. Lighting stands & rigging, lighting control boards. Real-time analyzers.

GEORGE KLEINKNECHT, INC. 940 Eighth Ave., New York, NY 10019 212 246-2133

Electrical contractor specializing in transmitter, microwave & broadcast studio installations

KLIEGL BROS.

32-32 48 Ave., Long Island City, NY 11101 212 786-7474

HMI & CSI lighting fixtures, cyc lighting, lighting control boards, dimmer packs.

KLINE IRON & STEEL CO. Box 1013, Columbia, SC 29202

803 779-7080

Tower masts; tower installations.

KLUGE COMMUNICATIONS

5350 W. Clinton Ave., Milwaukee, WI 53223

414 354-9490

Video production & post-production facilities; recording studios; audio postproduction facilities; music libraries; film laboratory

KNOX VIDEO PRODUCTS

8547 Grovemont Circle, Gaithersburg, MD 20877

301 840-5805 Telecine color correctors. Titlers, subtitlers, character generator/graphics systems. Color Box colorizers, title keyers, downstream keyers, nonadditive keyers. Video proc

KOSS CORP. 4129 N. Port Washington St., Milwaukee,

WI 53212 414 964-5000

amps.

Dynamic & electrostatic headphones & speakers. Digital delay systems. Cassette players. Audio/video cleaning products.

KOED PRODUCTIONS 500 Eighth St., San Francisco, CA 94103 415 553-2137

Video production & post-production facilities; mobile production facilities rental.

KVIE VIDEO 2480 Garden Hwy., Sacramento, CA 95610 916 929-5797

Video production & post-production facilities; mobile production facilities rental; equipment rental services.

LAIRD TELEMEDIA

2424 S. 2570 West, Salt Lake City, UT 84119 801 972-5900

Titlers, subtitlers, character generator/ graphics systems. 16/35 mm telecine projectors, 35 mm slide projectors, optical multiplexers. Equipment racks See ad on pg. 90. Circle No. 159.

LAKE SYSTEMS CORP. 55 Chapel St., Newton, MA 02160 617 244-6881

La-Kart video cart automation system for Beta, M-format, 3/4-inch U, one-inch C formats. Facilities design & engineering services; engineering consultants; mobile vehicle construction. Circle No. 133.

See ad on pg. 49.

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LANDY ASSOCIATES 1890 E. Marlton Pike, Cherry Hill, NJ 08003 609 424-4660

Facilities design & engineering services. Distributor full line of broadcast equipment. Field Office:

MA 330 Bear Hill Rd., Waltham 02154 617 890-6325

LANG VIDEO SYSTEMS CORP. 700 Warrington Ave., Redwood City, CA 94063

800 222-LANG/ in CA 415 364-1287

Two-Shot, One-Shot portable integrated ENG video switchers with audio mixer, SID. monitoring. Video source ID. Video/audio switch with color bar & ID generator.

LARCAN COMMUNICATIONS EQUIPMENT

6520 Northam Dr., Mississauga, Ont., Canada L4V 1H9 416 678-9970

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FM & VHF transmitters; translators. FM & TV exciters; hybrid & notch diplexers. TV HP & CP antennas. Transmitter plant design services.

Field Offices:

IL Charles Coyle, 5335 W. Joliet Rd., Countryside 60525 312 352-0707 MD Lewis F. Page, 14440 Cherry Ln. Ct. #201, Laurel 20707 301 490-6800

LAUMIC CO.

306 E. 39 St., New York, NY 10016 212 889-3300

Sales & rentals of video editing equipment.

LEADER INSTRUMENTS 380 Oser Ave., Hauppauge NY 11788 516 231-6900

Sync, black burst & color bar generators. Stereo generators. Audio test signal generators, harmonic distortion meters, wow & flutter meters, MTS test equipment. Video test signal generators, waveform monitors, vectorscopes. Field intensity meters, frequency monitors & controllers, RF test signal generators, impedance bridges, Oscilloscopes, delayed sweepscopes, voltmeters, multimeters, dB meters.

LEA DYNATECH 12516 Lakeland Rd., Santa Fe Springs, CA 90670

800 654-8087

Perfect Power Source transformers; Surge Eliminator/Kleanline surge protectors; lightning dissipation arrays. Engineering consultants.

LEAMING INDUSTRIES

180 McCormick Ave., Costa Mesa, CA 92626

714 979-4511

FM compressor/limiters Stereo generators SCPC modulator/demodulator

LEASAMETRIC

1164 Triton Dr., Foster City, CA 94404 415 574-4441/800 227-1817 Test equipment rental services

LEBLANC & DICK COMMUNICATIONS 14440 Cherry Ln. Ct. #201, Laurel, MD 20707

301 498-2200

AM, FM, TV HP & TV CP antennas Rigid transmission line. Tower masts, rigging, hardware, lighting

LECTROSONICS

Box 12617, Albuquerque, NM 87195 505 831-1010

Freedom RF mics; portable, self-contained monitor/power amps

LEE LIGHTING AMERICA 534 W. 25 St., New York, NY 10001 212 691-1910

Rentals of full line lighting & grip equipment, camera filters, lamps, expendables.

Field Office: CA Evan Green, 3620 Valhalla Dr., Bur-818 848-1111 bank 91505

LEITCH VIDEO

825K Greenbrier Cir., Chesapeake, VA 23320

804 424-7920/800 231-9673 10 Dyas Rd., Don Mills, Ont., Canada M3B 1V5

416 445-9640/800 387-0233

Audio DAs, audio routing switchers. Parallel & serial interface video routing switchers. Sync, black burst, color bar & safe title area generators. Frame synchronizers. Comb filter decoders, video delay lines, video/cable equalizers. Proc amps, video DAs, pulse amps, subcarrier amps. Vertical interval processor. Vertical interval processors; vertical interval adder/deleter; video source ID Video test signal generators, SCH phase meters, transmitter test generator. Digital clocks, complete clock/timing systems Circle No. 163.

See ad on pg. 95.

LEMO USA Box 11006, Santa Rosa, CA 95406 707 578-8811

Connectors, jackfields

LENCO

300 N. Maryland St., Box 348, Jackson, MO 63755 314 243-3147

Monitor/power amps; audio DAs. Sync, black burst, color bar & safe title area generators. TBCs NTSC encoders & decoders, comb filter decoders, video delay lines. Proc amps, video DAs, pulse amps, subcarrier amps. Monochrome & NTSC monitors. Video noise meters. Processing amplifiers; master & slave timing generators. Video test signal generators, SCH phase meters, video noise meters

Field Offices:

AL Ron Burks, 5901 Spanish Moss Ct., Mo-205 660-0738 bile 36609 CA Ron Wells, 320 Harding Ave., Los Gatos 95030 408 356-0221 TX Russ Thalacker, 2520 Laurel Ln., Plano 75074 214 578-0419 Circle No. 125. See ad on pg. 41.

LERRO ELECTRICAL CORP. 3125 N. Broad St., Philadelphia, PA 19132 215 223-8200

Facilities design & engineering services; mobile vehicle construction.

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LEXICON

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60 Turner St., Waltham MA 02154 617 891-6790

Digital audio recorders; editors for digital audio Audio/video sync delay. Audio digital efx & reverb, digital delay, time compression/ expansion. Random access audio recording, editing & mixing system.

LIGHTING METHODS 1099 Jay St., Rochester, NY 14611 716 328-1020

Lamps, HMI & CSI fixtures, quartz fixtures, cyc lighting, diffusion & efx material, lighting stands & rigging, lighting control boards, dimmer packs.

LIGHTNING ELIMINATORS & CONSULTANTS 13007 Lakeland Rd., Santa Fe Springs, CA

90670 213 946-6886

Formed to Fit the Function. **HME's New** Intercom **Belt Pacs**

The all-new HME Belt Pacs feature rugged aluminum housings that are curved for comfort and ease of operation. They're the lightest, most compact units available-you'll hardly know you're wearing them. What's more, you'll get unsurpassed audio quality plus compatibility with our complete line of cabled intercom systems.

HME—renowned for quality! See for yourself. Call us today to arrange a demonstration.

HME manufactures a complete line of wireless microphones, wireless intercoms, and cabled intercom products.



9675 Business Park Avenue, San Diego, CA 92131 Phone: (619) 578-8300 Telex: 350-771 Circle 160 on Reader Service Card

Lightning protection grounding systems; surge protectors. Facilities design & engineering services; engineering consultants.

Ь LINES VIDEO SYSTEMS 219 S. Jefferson, Springfield, MO 65806 800 641-4674

Facilities design & engineering services, engineering consultants; audio & video equipment suppliers.

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818 247-9266

LIPSNER-SMITH CO., SUBSIDIARY RTI

4700 Chase Ave., Lincolnwood, IL 60646 312 677-3000

Ultrasonic film cleaners for film-to-tape transfers; high speed film rewinders.

LISTEC VIDEO CORP.

205 Oser Ave., Hauppauge, NY 11787 516 273-3020

Polar Video compact studio/mobile production switchers, digital efx generators, standalone analog efx & safe title area generators. Acron sync, black burst & color bar generators, NTSC encoders. Listec downstream keyers, monochrome monitors; monitor-based, scroll entry, keyboard entry & ENG/EFP portable teleprompters.

Field Office:

CA Box 3127, Glendale 91201

See ad on pg. 140.

Circle No. 201.

LITTON ELECTRON DEVICES 1215 S. 52nd St., Tempe, AZ 85281 602 968-4471 CRTs.

LNR COMMUNICATIONS 180 Marcus Blvd., Hauppauge, NY 11788

516 273-7111

Satellite video exciters; upconverters, downconverters; FET & parametric LNAs.

LOGITEK 3320 Bering Dr., Houston, TX 77057 800 231-5870/713 782-4592

Audiorack portable & mono studio consoles; Perfectionist stereo studio consoles; audiofor-TV consoles; console automation; Stereorack video interface for consoles. ALC, AGC amps. Monitor speakers. Preamps, line amps, monitor/power amps Audio DAs, audio routing switchers Bright-VU LED displays. Crossfire audio crossfader. Timers.

LOUISVILLE PRODUCTIONS

520 W. Chestnut St., Louisville, KY 40202 502 582-7744

Video production & post-production facilities; mobile production facilities rental.

LOWEL-LIGHT MFG. 475 Tenth Ave., New York, NY 10018 212 947-0950

Quartz lighting fixtures; lighting stands, rigging

LPB 28 Bacton Hill Rd., Frazer, PA 19355 215 644-1123

Mic mixers; mono & stereo studio, audio-for-TV consoles. Turntables, pickup arms AM & FM compressor/limiters. Audio DAs. Highway & travelers information broadcast systems

Field Office:

CA Richard Burden, 20944 Sherman Way, Canoga Park 91303 213 340-4590 See ad on pg. 93. Circle No. 161.

L&R COMMUNICATIONS LTD. 2301 Bridgeport Dr., Box 3807, Sioux City, IA 51102

712 252-4101/800 831-0974

Tower masts; tower rigging & hardware. Preassembled & portable equipment shelters

LRP

311 E. 47 St., New York, NY 10017 212 759-0822

Video production & post-production facilities; mobile production facilities rental; filmto-tape transfers.

LTM CORP. OF AMERICA

1160 N. Las Palmas Ave., Hollywood, CA 90038

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213 460-6166

Luxarc & Mark III HMI & CSI fixtures: lighting stands & rigging; Pepper Pots dimmer packs

Field Offices:

FL 909 N.W. 10 Terrace, Ft. Lauderdale 33311 305 522-1070 NY 437 W. 16 St., New York 10011 212 243-9288

L-W INTERNATIONAL

50 W. Easy St., Simi Valley, CA 93065 805 522-3284

Nothing sells an LPB[®] console like the station that bought one

We recently surveyed a group of radio station General Managers who purchased LPB audio consoles...

TX 100kw FM-"Delighted; it simply won't stop."

UT FM-"Love it; would certainly buy another. Best all-around console we've ever had."

NY AM—"Great board; our second LPB. Wouldn't buy anything else."

SC AM---"Best I've ever had. It was recommended by our consultant. Have anyone interested call us."

OH FM—"Our second LPB board, because we liked the first so well!!! Never had any problem with either."

WV 50kw FM—"Couldn't be happier with it. Certainly pleased with your rep's presentation."

CA AM/FM—Our operators love it. It's a solid console. The good layout made it easy to install."

What are you saying about your console?

Call your LPB Dealer or LPB



LPB Inc. 28 Bacton Hill Road Frazer, PA 19355 (215) 644-1123 TELEX: 703000

Circle 161 on Reader Service Card

Athena 16 mm telecine projectors; optical multiplexers.

LYON LAMB VIDEO ANIMATION 4531 Empire Ave., Burbank, CA 91505 818 843-4831

Video animation controllers. NTSC encoders.

3M BROADCASTING & RELATED PRODUCTS DIV.

3M Center, Bldg. 225-3N-03, St. Paul, MN 55144

612 733-9073 Titlers, subtitlers, character/generator

graphics systems, digital art/paint systems, camera/VTR digitizers. Parallel & serial interface video routing switchers. Parallel & serial interface machine control/technical automation, vertical interval systems. Sync, black burst, color bar generators. Proc amps, video DAs.

b **3M MAGNETIC MEDIA DIV.** Bldg. 223-55-01, 3M Center, St. Paul, MN 55144 612 733-8765

Open-reel audio tape, carts, cassettes, sprocketed mag film; empty reels & carts. Scotch two-inch & one-inch videotape, 3/4-inch & half-inch cassettes; empty reels, carts, cases.

See ad on pg. 20-21.

3M STORMSCOPE WEATHER MAPPING SYSTEMS

223-3N-10 3M Center, St. Paul, MN 55144 612 733-8878

Thunderstorm warning & tracking systems.

M/A-COM MAC 5 Omni Way, Chelmsford, MA 01824 617 272-3100

Intercity & portable ENG microwave systems; 23 GHz microwave system for point-topoint & STL. Skypod airborne microwave systems. Microwave central receivers.



totally solid state AM



NAUTEL 201 Target Industrial Circle Bangor, Maine 04401 207-947-8200

Telex 944466 Jorgen Jensen 902-823-2233



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M/A-COM

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TELECOMMUNICATIONS DIV. 11717 Exploration Ln., Germantown, MD

20874 301 428-5500

DATE modulators. TDMA & SCPC transmit/ receive satellite earth stations; M/AESTRO receive-only earth stations. Small aperture Ku-band earth terminals for videoconferencing/data broadcasting.

MAGNASYNC/MOVIOLA

5539 Riverton Ave., N. Hollywood, CA 91603

818 763-8441

Videola film-to-tape transfer system. Multitrack tape-based logging recorders/ reproducers.

MAGNA-TECH ELECTRONIC CO. 630 Ninth Ave., New York, NY 10036 212 586-7240

Sprocketed magnetic film transports, dubbers. 16/35 mm telecine projectors. SMPTE time code generator/readers See ad on pg. 139.

Circle No. 238.

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MAGNAVOX

Box 6950, Knoxville, TN 37914 615 521-4316 PMX AM stereo system.

MAGNETIC REFERENCE LAB

229 Polaris Ave. #4, Mountain View, CA 94043 415 965-8187

Audio test tapes. Audio test signal generators, wow & flutter meters.

MAGNI SYSTEMS 9500 S.W. Gemini Dr., Beaverton, OR 97005

503 626-8400

Personal computer-aided TV test signal generator. Combination waveform monitor/ vectorscopes. Burst phase meters, diff. gain/phase meters, SCH phase meters. See ad on pg. 31. Circle No. 116.

MAGNUM TOWERS

9370 Elder Creek Rd., Sacramento, CA 95829 916 381-5053

Tower masts, rigging, hardware, lighting.

MALLORY TIMERS CO.

3029 E. Washington St., Indianopolis, IN 46201 317 261-1220 Timers

THE MANAGEMENT Box T, Aledo, TX 76008 817 441-8532

Radio & TV business automation software

MANHATTAN TRANSFER/EDIT 545 Fifth Ave., New York, NY 10017 212 687-4000 Video production & post-production facili-

LEIGH ISIENS

It's the reason why these three new Leitch test generators are tailored to your needs.

These three new test generators may look alike. But the software inside tells another story. Before they were designed, we sat down with transmitter, studio and transmission people to find out what they needed and wanted.

With these new Leitch 2500 NTSC test generators, you get digital generation for accuracy and stability. The Transmitter and Transmission generators deliver up to 60 signals while the Studio generator provides 56 different signals. All with 10 bit precision.

c The

Upgradeable EPROMs allow you to have the unit adapted to meet new signal requirements. And you get Leitch ease of operation.

If you want further information, just write or call. You'll find we're not only good listeners. we're good providers.



Leitch Video International Inc., 10 Dyas Road, Don Mills. Ontario, Canada M3B 1V5. Tel.: (416) 445-9640 or 1-800-387-0233. Telex: 06 986 241 Leitch Video of America. Inc., 825K Greenbrier Circle, Chesapeake, VA, U.S.A. 23320, Tel.: (804) 424-7920 or 1-800-231-9673, Telex: 710 882 4342 ties; mobile production facilties rental; equipment rental services.

6 MARATHON PRODUCTS 334 W. Boylston St., W. Boylston, MA 01583

617 853-0988

ATR head cleaners, degaussers; alignment & tension gauges. Open-reel audio tape, carts; empty reels & carts. Splicing blocks & tape

MARCOM

Box 66507, Scotts Valley, CA 95066 408 438-4273

FM compressor/limiters. Audio routing switchers. Stereo generators. Demodulators, modulation monitors. Equipment distributor

MARCONI INSTRUMENTS 3 Pearl Ct., Allendale, NJ 07401 201 934-9050

Spectrum analyzers; mobile radio test sets. Video test signal generators, television interval timers, TV test line generator/inserters. FM/AM signal generators. Modulation monitors. Microwave counters; amplitude analyzers; AM/FM signal sources. White noise test sets. RF power meters. Voltmeters.

MARCUS SATELLITE SERVICES

134 E. Center St., Manchester, NH 06040 203 646-1839

Satellite earth station maintenance, repair & consulting. Point-to-point microwave equipment rentals.

MARK ANTENNA PRODUCTS 2810 S. Wolf Rd., Des Plaines, IL 60018 312 298-9420

Transmit/receive & receive-only satellite earth stations. Communications antennas. Foam dielectric & coaxial transmission line; RF connectors.

MARSHALL ELECTRONIC Box 438, Brooklandville, MD 21022 301 484-2220

Digital audio efx & reverb; digital delays; audio time compression/expansion.

MARTI ELECTRONICS Box 661, 1501 N. Main, Cleburne, TX 76031

817 645-9163

AM & FM compressor/limiters. Dynamic mics. Line amps, monitor/power amps. Intercity, portable ENG & airborne microwave systems; central receivers. Communications antennas. Andrew foam dielectric & coaxial transmission line, RF connectors. Transmitter remote control systems. STLs, TSLs; microwave boosters for aural STLs. FM & TV SCA equipment. Two-way radio communications; remote pickup equipment. Quartz crystals.

MATRIX SYSTEMS CORP. 5177 N. Douglas Fir Rd., Calabasas, CA 91302

818 992-6776

Large automated video production switchers. Parallel & serial interface video routing switchers.

MATRIX VIDEO SERVICES 727 11 Ave., New York, NY 10019 212 265-8500

Video production & post-production facili-

ties; mobile audio/video production facilities rental.

MATTHEWS STUDIO EQUIPMENT 2405 Empire Ave., Burbank, CA 91504 818 843-6715

Lighting diffusion, efx material, stands & rigging. Dollies, cranes, jibs, remote pan/tilt systems.

MAXELL CORP. OF AMERICA 60 Oxford Dr., Moonachie, NJ 07074

201 440-8020 Audio & video tape, cassettes.

MAXIMA MAGNETICS

300 Bonair Ave., Hatboro, PA 19040 215 443-0700

Tape cleaning & evaluation services; custom loading of video & audio cassettes; videocassette reloading.

MCCURDY RADIO

108 Carnforth, Toronto, Ont., Canada M4A 214

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416 751-6262

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Mic mixers; mono & stereo studio & audiofor-TV consoles. Turntables. AM compressor/limiters, parametric equalizers & filters. Digital audio delay. Hardwired intercom systems; digitally controlled intercom. Line amps, monitor/power amps, amp power supplies. Audio DAs, patch panels. Low frequency extenders. PPM meters. Digital clocks, master & slave clocks. Audio postproduction services; radio & TV studio design.

Circle No. 227. See ad on Cover 3.

MCG ELECTRONICS 12 Burt Dr., Deer Park, NY 11729 516 586-5125

Surge-Master surge protectors.

501 S. Woodcreek Rd., Bolingbrook, IL 60439-4999

312 759-9500

FM. VHF. UHF & LPTV transmitters: RF amps & switches; transmit/receive & transportable satellite earth stations. RF test signal generators.

MCMANUS ENTERPRISES Box 6530, San Diego, CA 92106 619 223-1730

Equipment maintenance, overhaul & modification services; facilities design & engineering services; engineering consultants.

MCMARTIN INDUSTRIES 7300 F St., Omaha, NE 68127 402 331-2000

Accu-Five mic mixers, mono studio & stereo studio consoles. Complete disc playing consoles. ALC & AGC amps, AM & FM compressor/limiters. RF intercom systems. Preamps, line amps, monitor/power amps. Rotary & slide attenuators, EBS two-tone systems. AM, FM, VHF & UHF transmitters. AM & FM exciters, stereo generators, modulators. SAP generators, monitors. RF amps, filters. Modulation monitors, field intensity meters.

MEAD DATA CENTRAL 9393 Springboro Pike, Miamisburg, OH

45342 800 227-9597

Computer-accessed library of wire service stories, newspapers, magazines.

MEDALLION VIDEO PRODUCTIONS 4001 W. Devon #310, Chicago, IL 60646 312 794-4970

Mobile production facilities rental

MEDIA COMPUTING

4401 E. Kings Ave., Phoenix, AZ 85032 602 992-2338

The Electronic Newsroom radio & TV newsroom computer software systems. ANGIS automated news graphics interface system. PC Prompter monitor-based, keyboard entry teleprompters.

MEDIA CONCEPTS 559 49 St. S., St. Petersburg, FL 33707 813 321-2122

VHS duplication facilities; standards conversion: 34-inch, Beta, & film-to-tape transfers. Equipment rental services.

MEDIA GENERAL BROADCAST SERVICE

2714 Union Ave. Ext., Memphis, TN 38112 901 320-4212

Radio program & commercial production services; station IDs; music libraries.

MEI ELECTRONICS

910 Sherwood Dr., Unit 19, Lake Bluff, IL 60044 312 295-2606

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Digisound digital audio recorders. Computer automation controllers; Satmaster automatic satellite switchers; complete program automation systems. Audio mastering controller & tone generator.

MERLIN ENGINEERING WORKS 2440 Embarcadero Way, Palo Alto, CA 94303

415 856-0900

VTR, VCR modifications for quad, one-inch B, one-inch C, 3/4-inch U-Matic, M-format, VHS. Q-Driver machine control systems. Standards converters. Digital stereo audio encoders

See ad on pg. 148. Circle No. 244.

MEYER SOUND

3832 San Pablo Ave., Berkeley, CA 94702 415 486-1166

Parametric equalizers; monitor speakers.

MICRO COMMUNICATIONS Box 4365, Manchester, NH 03108 603 624-4351

FM antennas; TV HP & CP, VHF & UHF antennas; communications antennas. HP & LP VHF diplexers, UHF diplexers, multiplexers. Waveguide UHF & VHF diplexers for stereo. RF filters, loads, & switches. MDS/ITFS antennas, multichannel combiners, diplexers. Circular & rectangular waveguide; power dividers, RF connectors. Engineering consultants.

MICRO CONTROLS Box 728, Burleson, TX 76028 817 295-0965

Transmitter remote control systems; STLs & TSLs; FM SCA equipment.

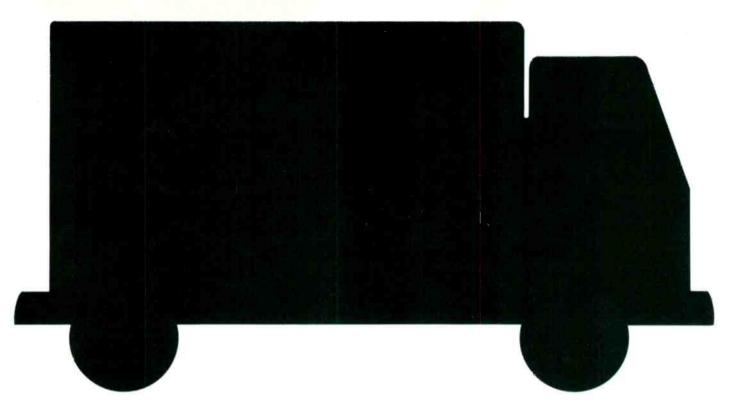
MICRODYNE CORP. Box 7213, 491 Oak Rd., Ocala, FL 32672

904 687-4633 Transmit/receive, receive-only & transportable satellite earth stations; upconverters, downconverters; encryption systems; satel-

MCL

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Trucks are trucks. It's the gear inside that makes the difference.

How can you spot the best SNG truck investment if they all look the same on the outside?

Simple. Look at the equipment inside. If it's Microdyne, you go with one of the most trusted names in satellite communications technology.

QuickLink: superior components for SNG.

Most SNG truck builders take one component from supplier A, another from supplier B and so on.

Microdyne's SNG truck is built to your exact specifications almost entirely with Microdyne equipment. Microdyne will do all the system design, wiring, integration, testing and training of your personnel.

Since key components are all Microdyne, there's minimal delay in making alterations, modifications or changes

QuickLink a superior SNG truck from Microdyne/AFC. in years to come. Other SNG truck makers use somebody else's compo-

nents, so getting something fixed or replaced can take a long time.

Broadcast-quality electronics built and backed by Microdyne.

QUICKTINK



Auto-acquisition system makes peaking

a piece of cake. Take the keypad and enter the truck's latitude, longitude and current compass direction.

Punch in the code for your desired satellite, and the rest is automatic. Microdyne's auto-acquisition system

does the trickiest, and most critical job in very short order. In any kind of weather.

The antenna controller peaks azimuth and elevation, peaks polarization, and lets you change from one satellite to another immediately with pinpoint accuracy.

QuickLink: superior from the inside out.

QuickLink can be customized to your exact needs, from antenna size to communication package, video encryption and C-band or Ku-band receivers.

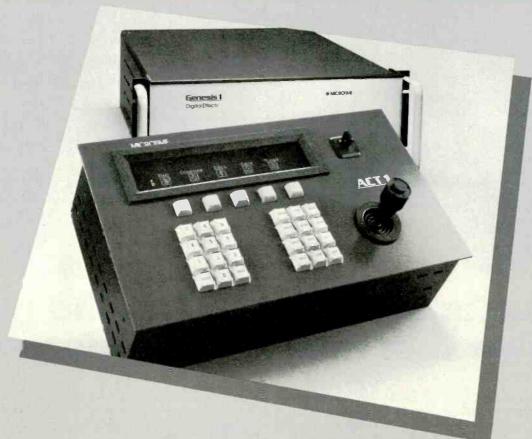
Equip your truck with any type of telephone or data link to receive voice or hard copy instructions or operation commands from the home station.

QuickLink. On the outside, it may look like any other SNG truck. But on the inside, it's in a class by itself.

For more information, or a demonstration, call Microdyne at (904) 687-4633.



A TOUGH ACT TO FOLLOW Genesis 1[™] With ACT 1[™] \$27,990



Genesis 1 ACT 1, Microtime's high quality, low-cost digital effects system increases creative capabilities to your imagination's limit. Create through self-prompting, icon-driven menus and instructions for sequences involving moves, freeze, flips, tumbles, posterize, shadow, variable aspect ratio, XY mosaic, strobe, and source change.

Genesis 1 ACT 1 offers:

- □ 3-Axis joystick control
- □ Keyframe creation of sequences
- Smooth curvilinear movement
- □ Frame accurate duration of a sequence
- Routing switcher interface for dual input switching when flipping and tumbling
- □ Three levels of sequence storage: RAM, internal and portable

Genesis 1 ACT 1... A user-friendly digital effects system for your video productions. An ACT not to be missed at \$27,990.



A Subsidiary of ANDERSEN GROUP

Microtime, Inc. 1280 Blue Hills Avenue Bloomfield, CT 06002 USA Tel: (203) 242-4242 TWX: 710-425-1165 Northeast, Ray Bouchard (609) 896-3716 Central, David Everett (312) 934-9191 Southcentral, Steve Krant (214) 644-0232 Southeast, Jerry Rankin (404) 979-4437 Western, Chuck Bocan (714) 989-4433

Genesis 1 and ACT 1 are trademarks of Microtime, Inc.

lite network controllers. Mobile vehicle construction. Cirolo No. 164

266	au	011	Jg.	97.		Circle	NO.	104.

Ь MICROFLECT CO. Box 12985, 3575 25 St. S.E., Salem, OR 97309

503 363-9267

Tower masts, rigging, hardware, lighting. Waveguide support systems & components.

MICRON AUDIO PRODUCTS 210 Westlake Dr., Valhalla, NY 10595 914 761-6520

RF mics; Tram electret/condenser & lavalier mics; mic booms & dollies.

MICROPROBE ELECTRONICS See MEI

MICROTIME

1280 Blue Hills Ave., Bloomfield, CT 06002 203 242-4242

Genesis 1, ACT 1 digital efx generators, compressor/positioners & standalone analog efx. TBCs, frame synchronizers, TBC/ framestores, image enhancers.

Field Offices:

CA Chuck Bocan, Alta Loma 714 989-4433

GA Jerry Rankin, Liburn 30247

404 979-4437 David Everett, Hoffman Estates 60195 IL 312 934-9191

NJ Raymond Bouchard, Lawrenceville 08648 609 896-3716

TX Steve Krant, Richardson 75080 214 644-0232

See ad on pg. 98.

Circle No. 165.

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MICRO-TRAK CORP. 165 Front St., Chicopee, MA 01013 413 594-8501/800 358-8729

Mic mixers; portable, mono studio & audiofor-TV consoles. Pickup arms, complete disc playing consoles. Preamps, monitor/power amps. Audio DAs. Studio furniture; cabinets; studio consoles; equipment racks; cart/tape storage racks.

MICROTRAN CO. 145 E. Mineola Ave., Box 236, Valley Stream, NY 11582 516 561-6050

ATR & VTR head cleaners & degaussers. Audio & video tape erasers & degaussers. Transformers

MICROWAVE FILTER CO.

6743 Kinne St., E. Syracuse, NY 13057 315 437-3953 Video filters. RF filters.

MID-AMERICA AUTOMATION CORP.

1822 Laramie St., Manhattan, KS 66502 913 537-3289

Automate 64 computer automation controllers.

MIDWEST COMMUNICATIONS CORP.

1 Sperti Dr., Edgewood, KY 41017 606 331-8990

Mobile vehicle construction including ENG and satellite vehicles; equipment rental services, facilities design & engineering services. Distributor of video equipment.

Field Offices:

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FL Lloyd Hicks, 8875 N.W. 23 St., Miami 305 592-5355 33172 GA Ron Bradley, 522 Armour Cir., Atlanta 404 875-3753 30324 IN Al Rerko, 4105 Vincennes Rd., Indianapolis 46268 317 872-2327 KS Rod Herring, 12876 W. 109 St., Over-913 469-6810 land Pk. 66210 KY Mark Dauer, 1804 Cargo Ct., Louisville 40299 502 491-2888 MD John Handley, 4720B Boston Way, 301 577-4903 Lanham 20706 MI Ron Arendall, 1328 Wheaton Ave., Trov 313 689-9730 48083 MO Larry Mason, 11642 Lilburn Pk. Rd., St. Louis 63146 314 569-2240 NC Jim Slate, 2848 Interstate 85 S. #E, Charlotte 28208 704 399-6336 OH Brad Nogar, 7500 Wall St., Cleveland 216 447-9745 44125 PA John Humphrey, 535 Rochester Rd., 412 364-6780 Pittsburgh 15237 TN Mike Quinn, 740 Freeland Station Rd., 615 255-2801 Nashville 37228 VA Fred Wood, 1395 Air Rail Ave., Virginia Beach 23455 804 464-6256 WV Chuck Sizemore, 1020 Grosscup Ave., Dunbar 25064 304 768-1252 Circle No. 110. See ad on pg. 18.

MIKROLAB

4121 Redwood Ave., Los Angeles, CA 90066

213 306-0120

Monitor speakers with built-in amps. Micromoniters (speaker with built-in amp). VLL meters

L. MATTHEW MILLER ASSOC. 48 W. 21 St., New York, NY 10010 212 741-8011

Equipment rental services; facilities design & engineering services; engineering consultants. Distributor of video equipment.

MILLER PROFESSIONAL EQUIPMENT

10816 Burbank Blvd., N. Hollywood, CA 91601

818 766-9451 Milequip camera tripods, heads, dollies.

MINDSET 965 Maude Ave., Sunnyvale, CA 94086 408 737-8555

Titlers, subtitlers, character generators.

MINNEAPOLIS MAGNETICS 9969 Valley View Rd., Eden Prairie, MN 55344

612 944-7660

Replacement audio heads. Satellite network controllers. Tape-based loggers, chart recorders, automatic radio monitors, status/ alarm indicators

MINOLTA CORP.

See ad on Cover 2.

101 Williams Dr., Ramsey, NJ 07446 201 825-4000

Light meters, illuminance meters, luminance meters, color temperature meters, chroma meters, TV monitor analyzers.

MITSUBISHI PRO AUDIO

225 Parkside Dr., San Fernando, CA 91340 818 898-2341 Digital audio recorders.

Circle No. 100.

MIXMASTERS

4877 Mercury St., San Diego, CA 92111 619 569-7367 Recording studios; audio post-production facilities

MOBILE-CAM PRODUCTS Box A-82103, San Diego, CA 92138 619 692-3208

Mobile vehicle construction. Hardwired intercom/IFB systems. Audio & video DAs. Mult-Box battery-powered device for multiple audio & video ENG feeds. Aluminum mobile vehicle cabinets, equipment racks, roof racks, antenna mounts, electric reels, alternators, engine speed controls. Camera cradles, quick-release camera/VTR cables, padded nylon VTR & accessory bags.

MOBILE SYSTEMS

450 N. Somerset Ave., Indianapolis, IN 46222

800 826-3271/317 638-5037

Mobile vehicle construction; SNG vehicle construction.

MOBILE VIDEO SERVICES

2139 Wisconsin Ave. N.W., Washington, DC 20007

202 944-2800

Video production & post-production facilities: mobile production facilities rental: local microwave common carrier

MODERN TELECOMMUNICATIONS/ MTI

1 Dag Hammarskjold Plaza, New York, NY 10017

212 355-0510

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Video production & post-production facilities: mobile production facilities rental.

MODULAR AUDIO PRODUCTS 50 Orville Dr., Bohemia, NY 11716 516 567-9620

AM compressor/limiters, graphic equalizers. Audio preamps, line amps, monitor/power amps, amp power supplies. Audio DAs, audio routing switchers. VU, PPM, LED level displays. Audio test signal generators. Frames

MODULATION ASSOCIATES

897 Independence Ave., Mountain View, CA 94043 415 962-8000

Diplexers, multiplexers, modulators. Transmit/receive, receive-only & transportable satellite earth stations; upconverters, downconverters; satellite network controllers.

MODULATION SCIENCES 115 Myrtle Ave., Brooklyn, NY 11201 718 625-7333/800 286-2603

TSG stereo generators; Sidekick multi-plexers, TV Sidekick SAP generators. FM composite processor; composite line driver; composite audio DA. TV stereo reference decoder. Sidekick, Data Sidekick FM SCA equipment.

Ь MOLE-RICHARDSON CO. 937 N. Sycamore Ave., Hollywood, CA 90038-2384 213 851-0111

Lamps, HMI & CSI fixtures, Molequartz quartz fixtures, cyc lighting, diffusion & efx material, lighting stands & rigging, lighting control boards, Molectronic dimmer packs.

Ь

Nicad & lead-acid batteries & chargers, power generators, HMI ballasts, ac/dc converters & inverters. Foam insert transportation cases

6 MONROE ELECTRONICS 100 Housel Ave., Lyndonville, NY 14098 716 765-2254

Automatic satellite switchers; line amps; telco interface equipment Transmitter remote control systems.

MOOG MUSIC

2500 Walden Ave., Buffalo, NY 14225 716 681-7200

Music synthesizers

TOMMY MOORE, INC. Box 8597, Fort Worth, TX 76124-0597

817 457-3060 Tower masts, rigging, hardware, lighting

MOSELEY ASSOCIATES 111 Castilian Dr., Goleta, CA 93117 805 968-9621

AM & FM compressor/limiters; audio routing switchers; A-D/D-A converters. Stereo generators; Transmitter remote control systems. Microwave STLs, TSLs. FM SCA equipment. Remote pickup equipment. STL & remote control accessories.

See ad on pg. 16.

Circle No. 109.

MOTOROLA, INC., AM STEREO 6 1216 Remington Rd., Schaumburg, IL 60195 312 576-0554

AM stereo exciters. AM stereo modulation monitors

MOTOROLA C&E

17-22 Whitestone Expy., Whitestone, NY 11357

212 746-1100

RF intercom systems VU meters, LED audio level displays. Nicad batteries & chargers, power generators. RF amps, tubes & attenuators. Intercity microwave equipment. Communications antennas. Rigid, foam dielectric & coaxial transmission line. Tower masts. STLs, TSLs. Two-way radio communications. Remote pickup equipment.

MPB TECHNOLOGIES

1725 N. Service Rd., Transcan. Hwy., Dorval, Que., Canada H9P 1J1 514 683-1490

Vista 90 character generator/graphics system.

MPCS VIDEO INDUSTRIES 514 W. 57 St., New York, NY 10019 212 586-3690

Video post-production facilities; studio rental; equipment rental services; recording studios: audio post-production facilities equipment rental services; facilities design & engineering services; engineering consultants. Distributor of full line broadcast equipment.

Field Office:

FL 4100 N. 28 Terrace, Hollywood 33021 305 923-3446/947-3320

MP VIDEO

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65 South St., Hopkington, MA 01748 617 435-2131 Subminiature video cameras

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MU-DEL ELECTRONICS

2426 Linden Ln., Silver Spring, MD 20910 301 587-6087

RF amps, attenuators, converters, filters. Satellite upconverters, downconverters; LNAs.

MULTIDYNE ELECTRONICS Box 528, Locust Valley, NY 11560 516 671-7278

Audio DAs. Titlers, subtitlers, SMPTE time code generator/readers, Sync, black burst, color bar, source ID, safe title area & video slate board/countdown generators. Video/ cable equalizers. Video DAs, pulse amps, subcarrier amps. Video test signal generators.

MULTI-TRACK MAGNETICS, DIV. MATRIX CORP.

3 Industrial Ave., Upper Saddle River, NJ 07458

201 327-9400

Magnetic film dubbers & recorders. Solid state telecine systems, 16/35 mm telecine projectors Time code generators; hard-lock synchronizers for film/tape sync. Facilities design & engineering services.

MUSIC DIRECTOR

PROGRAMMING SERVICE Box 103, Indian Orchard, MA 01151 413 783-4626



Music libraries; syndicated radio programming

THE MUSICWORKS Box 111390, Nashville, TN 37211 800 251-9000/in TN 615 790-1200

Music libraries; syndicated radio programming.

MYCOMP TECHNOLOGIES CORP.

200 McCormick Ave., Costa Mesa, CA 92629

714 545-5111

Sericon parallel & serial interface video routing switchers. Audio & video DAs. QC switchers. Facilities design & engineering services.

MYCRO-TEK Box 47068, Wichita, KS 67201 316 681-0550

Mycro-Vision & Ernie titlers, subtitlers, character generators.

MZB & ASSOCIATES 4203 Beltway, Dallas, TX 75234 214 233-5535

Mobile vehicle construction; equipment rental service; set/studio design services; engineering consultants; financial consultants; equipment distributor

NADY SYSTEMS 1145 65 St., Oakland, CA 94608 415 652-2411

Easytalk RF intercom systems. RF mics. Infrared listening device.

NAGRA MAGNETIC RECORDERS 6 19 W. 44 St. #715, New York, NY 10036 212 840-0999

Portable ATRs. Replacement ATR heads. MRL test tapes, leaders. Tape-based loggers. Audio time code.

Field Office:

CA 1147 N. Vine St., Hollywood 90038 213 469-6391

NAKAMICHI USA CORP.

19701 S. Vermont Ave., Torrance, CA 90502

213 538-8150

Audio cassette player/recorders. Digital audio mastering processor.

NATIONAL VIDEO CENTER 460 W. 42 St., New York, NY 10036 212 279-2000

Video production & post-production facilities; mobile production facilities rental; recording studios; audio post-production facilities; music libraries; satellite transmission.

NATIONAL VIDEO INDUSTRIES 15 W. 17 St., New York, NY 10011

212 691-1300

Video post-production facilities

NATIONAL VIDEO SERVICE 2150 Rheem Dr., Bldg. G, Pleasanton, CA 94566

415 846-1500

New & reloaded TCR-100 two-inch video cartridges; U-Matic reloading service; Betacart multiloads.

NAUTEL

201 Target Ind. Cir., Bangor, ME 04401 207 947-8200

AMPFET AM transmitters. Field Office:

CAN	Hacketts	Cove,	RR1,	Tantallon,	NS
B01 3	JO	902 823-2233			
See ad	d on pg. 9	Circle No. 162.			

NEC AMERICA, BROADCAST EQUIPMENT DIV.

1255 Michael Dr., Wood Dale, IL 60191 312 860-7600

CCD color cameras. DVE System 10 & System 100 digital efx generators. Frame synchronizers. delays. FM, VHF & UHF transmitters. Portable ENG microwave systems. Slow-scan transmitters/receivers.

Field Offices:

CA Frank Stolten, 8300-E Sierra College Blvd, Roseville 95678 916 791-7160 NJ Lawrence Litchfield, 21 Brandywine 201 540-0819 Terr., Morristown 07960 See ad on pg. 46. Circle No. 130.

NEL 934 N.E. 25 Ave., Portland, OR 97232 503 232-4445

Mic mixers; stereo studio consoles. Parametric & graphic equalizers. Analog efx, reverb. Monitor/power amps. Real time analyzers.

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3003 Wakefield Dr., Carpentersville, IL 60110

312 426-5900

Slimline parallel & serial interface machine control/technical automation; digital clocks & timers

NETCOM

2901 W. Alameda Ave., Burbank, CA 94123

818 841-8855

Satellite distribution of syndicated programming; ad hoc satellite TV network creation; SNG transmission services; satellite videoconference transmission services, fullservice satellite transmission facility. Large-screen video projection system rentals

Field Office:

DC 1278 National Press Bldg., Washington 202 638-5338 20045

6 NETWORK PRODUCTION MUSIC 11021 Via Frontera, San Diego, CA 92127 619 451-6400/800 854-2075

Music & sound effects libraries

Ь NEUMADE PRODUCTS CORP. 720 White Plains Rd, Scarsdale, NY 10583 914 725-4900

Empty videotape reels, carts & cases; Neuvator film cleaners. Cabinets, equipment racks

RUPERT NEVE, INC. Berkshire Industrial Park, Bethel, CT 06801

203 744-6230

Portable & stereo studio audio consoles; 51 Series audio-for-TV consoles; NECAM 96 console automation. System 90 audio DAs Field Offices:

CA 6255 Sunset Blvd. #609, Hollywood 90046 213 465-4822 CAN 2721 Rena Rd., Malton, ONT L4T 3K1 416 677-6611

Ь NEW ENGLAND DIGITAL CORP. 49 N. Main St., White River Junct., VT 05001 802 295-5800

Synclavier digital audio system for digital synthesis & multitrack recording.

NEW ENGLAND SATELLITE SYSTEMS 433 South St., Shrewsbury, MA 01545 617 842-4328

Distributor of satellite antennas & microwave systems. Earth station site surveys; permanent installation services.

NEWTON ELECTRONICS

340 E. Middlefield Rd., Mountain View, CA 94043

415-967-1473

Ь

Video sync & color bar generators. Video test signal generators. Domodulators, RF test signal generators.

NEXUS PRODUCTIONS

10 E. 40 St., New York, NY 10016 212 679-2180 Video post-production facilities.

THE NISSEN GROUP

32 Ridge Dr., Port Washington, NY 11050 516 944-5477

Facilities design & engineering services; engineering consultants.

NUSUS VIDEO

6329 Lomas Blvd. NE, Albuquerque, NM 87110

505 268-4587

Lightweight (13 mm tube), single-tube & CCD ENG cameras retrofitted with adjustable rotary shutters.

NORAC BROADCAST POWER

SYSTEMS 1305 Corpus Christi, Laredo, TX 78040 512 726-0130 Power generators.

NORDIC SOFTWARE

4910 Dudley St., Lincoln, NE 68504 800 228-0417

Media Master radio business automation hardware & software package.

NORMEX/TELNOX

55 Montpellier Blvd., Montreal, Que., Canada H4N 2G3

Telco interface equipment.

NORPAK CORP. 10 Hearst Way, Kanata, Ont., Canada K2L 2P4

713 502-4174

NABTS teletext delivery systems, terminals; picture creation systems & test equipment for NABTS teletext. RGB video monitors; teltext & videotex caption creation & encoding equipment.

NORTH AMERICAN PHILIPS LIGHTING

1 Westinghouse Plaza, Bloomfield, NJ 07003

201 429-3000 Lamps, HMI & CSI fixtures

Ь NORTHEAST BROADCAST LAB Box 1179, S. Glens Falls, NY 12803 518 793-2181 Equipment distributors.

NORTHEAST PRODUCTIONS/NEP Wilkes-Barre/Scranton Airport, Avoca, PA 18641 800 233-4777/in PA 717 824-6666

Mobile production facilities rental; video post-production facilities; satellite uplinking & downlinking facilities.

Field Offices:

NY Howard Rogers, NEP Sharpshooters,Inc., 56 W. 45 St., New York 10036 212 823-1100

PA Chester Sawicki, Northeast Satellites Div., Scranton 717 826-1616

NORTHERN MAGNETICS Box 16409, Minneapolis, MN 55416 612 944-8602

Replacement & rebuilt audio heads; head cleaners & degaussers, alignment & tension gauges. Test tapes & leaders; tape cleaners & degaussers. Splicing blocks & tape.

NORTHWEST TELEPRODUCTIONS 4455 W. 77 St., Minneapolis, MN 55435 612 835-4455

Video production & post-production facilities; mobile production facilities rental.

NORTH WIND POWER CO. Box 556, Moretown, VT 05660 802 496-2955

Wind energy systems. Lead-acid batteries & chargers, generators, inverters & converters. Towers.

NORTRONICS CO.

8101 10 Ave. N., Minneapolis, MN 55427 612 545-0401

Replacement audio heads.

N.O.V.A. CORP.

5801 Uplander Way, Culver City, CA 90230

213 641-2046 Videotape cleaners, evaluators

NOVA SYSTEMS

20 Tower Lane, Avon, CT 06001 203 677-5252 TBCs, TBC/framestores.

N-PRO

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10022 Hazelwood Dr., Oregon City, OR 97045

503 656-5500 Hydraulic ENG vehicle masts.

NTI AMERICA

1680 N. Vine St. #202, Los Angeles, CA 90028 213 462-8945

Digital video test signal generators. Video color time coder. Digital still store.

FRED A. NUDD CORP.

Tower masts, rigging, hardware; Hughey/ Phillips tower lighting. Tower installation, repair & modification.

NURAD 2165 Druid Park Dr., Baltimore, MD 21211 301 462-1700

Microwave systems: intercity, portable ENG, Super Pod airborne, central receivers. Transmitter remote control systems. STLs, TSLs. Remote pickup equipment. Demodulators, antennal monitors. Pedestals, remote pan/tilt systems.

MEANS

NYTONE ELECTRONICS

2424 S. 900 West, Salt Lake City, UT 84119 801 973-4090

Flying spot scanner (slide to video), optical multiplexers, telecine color correctors.

N-Z VIDEO SYSTEMS

513 Greer Ave., Sikeston, MO 63801 314 471-7145

Facilities design & engineering services; mobile vehicle construction.

OAK COMMUNICATIONS

16935 W. Bernardo Dr., Rancho Bernardo, CA 92127

619 485-9300

Decoders, converters & addressable systems for STV, PTV & CATV.

O'CONNOR ENGINEERING LABS 100 Kalmus Dr., Costa Mesa, CA 92626 714 979-3993

Tripods, heads, dollies. Foam insert transportation cases.

ODETICS/BROADCAST SALES 1515 S. Manchester, Anaheim, CA 92802 714 774-5000

MERPS multicassette television deck.

With our Automatic Remote Control System your transmitter – and your personnel – will operate with increased efficiency

Have you ever wondered if your night operator will remember to switch patterns at sunrise? ... to periodically check critical levels? ... the correct transmitter restart sequence? You'll never have to worry if Potomac Instruments' RC16 + is on the job. Because it'll do all these tasks for you. Plus a lot more. Automatically.

With its microprocessor based control logic, the basic RC16 + provides 16 telemetry channels with automatic out-of-tolerance alarms and remote raise/lower controls;



plus 16 status channels. The automatic functions — pattern shift, transmitter restart, power control — are preprogrammed in accordance with station license requirements and controlled with an accurate master clock.

The RC16 + is also expandable. In 16 channel increments, up to a total of 64 channels. With the remote video display option your chief engineer can get a detailed readout of all measured parameters. It's updated every 30 seconds and connects to any standard telephone. The optional plug-in automatic logger provides a permanent record of all transmitter activity. Log intervals, sequence, and alarm flags are user-selectable.

And, best of all, the RC16 + is cost effective. No other unit on the market offers these features and capabilities at this low price.

Basic System	\$4,995.00
Additional 16 Channels	1,865.00
Plug-In Automatic Logger	2,499.00
Remote Video Display Unit	65 0.00



Circle 167 on Reader Service Card

PAY LESS ATTENTION TO YOUR VIDEO CART MACHINE



Great idea! Now you can do just that with the TCS2000.

The Cart Machine automatically manages, records and plays-to-air all forms of spots and programs, giving you much more uninterrupted time away from programming concerns.

The Cart Machine holds up to 280 carts on-line. Tracks 65,000 carts in the database. With its 1,000 event look ahead feature, you receive a printed list of needed carts and your saturation spot carts never have to leave the machine.

The Cart Machine's comprehensive software system interacts with your traffic system to download your logs and automatically preplans the spot play lists days in advance.

Now other station operations get your undivided attention—with The Cart Machine.

Odetics We put *smarts* in The Cart Machine.

Odetics, Inc. 1515 S. Manchester Ave., Anaheim, CA 92802-2907 Call toll free 1-800-854-6853. In California call 714-774-5000.

Field Office:

WI Jesse L. Nickels, 1704 N. Wright Rd , Janesville 53545

608 754-2139/800 243-2001 See ad on pg. 103. Circle No. 168.

OKI TELECOM

1 University Pl., Hackensack, NJ 07601 201 646-0011 Digital standards converters.

eligital standards converters.

OKTEL CORP. 1220 Page Ave., Fremont CA 94538 415 490-3100

Digital still stores, magnetic disc recorders.

OLD DOMINION BROADCAST ENGINEERING SVCE.

1101 Front St., Richmond, VA 23222 804 321-4506 Telco interface equipment. Audio casette player/recorders; rebuilt audio heads Hardwired intercom systems. Custom transmitter remote control systems. Antenna tuning units. Low-noise remote pickup equipment. Timers.

OLESEN 1535 Ivar Ave., Hollywood, CA 90028 213 461-4631

Lamps, lighting fixtures, diffusion & efx material, lighting stands. lighting control boards, dimmer packs; ac cable & connectors.

OMICRON VIDEO

9700F Owensmouth Ave., Chatsworth, CA 91311

818 700-0742

Audio DAs, audio routing switchers. Marual master control switchers. Parallel interface



No one need be reminded of the importance of speed in today's world. New audio test requirements, now more than ever, are tuning up the demand for speed with more tests, more often and more devices to test.

The Amber 5500 Programmable Audio Measurement System offers a 3 to 10 time speed improvement over other programmable audio analyzers and perhaps 100 times that of older semi-automatic instruments. And if you really want blinding speed, our high speed plotting system captures over 500 readings per second!

The 5500 will meet the challenge of today's high-performance measurement requirements as well with distortion below 0.001%/ – 100dB, noise below 1uV/ – 120dBm and balanced generator levels above 30V/ + 30dBm. It measures signal level, gain, three kinds of distortion, weighted and unweighted noise, crosstalk and frequency to virtually all world standards. Balanced stereo inputs and outputs allow interface to professional, commercial and consumer devices. And if you need more measurement capability in the future, the unique Amber modular system architecture allows upward growth and system modification.

Ask for our comprehensive technical brochure.

Amber also makes one of the most popular portable high performance audio measurement systems – the 3501. Half the weight and size of comparable instruments, the 3501 has one of the best reliability records in the industry.





Amber Electro Design Inc. 4810 Jean Talon West Montreal Canada H4P 2N5 Telephone (514) 7354105 Telex 05-827598 US Toll free 800-3613697 video routing switchers. Sync, black burst & color bar generators. Video DAs, pulse amps, subcarrier amps. See ad on pg. 149. Circle No. 245.

OMNIMOUNT SYSTEMS

10850 Vanowen St., N. Hollywood, CA 91605-6470 818 766-9000

Audio/video equipment mounting assemblies.

OMNIMUSIC

52 Main St., Port Washington, NY 11050 516 883-0121

Recording studios; music libraries; original music scores.

ONAN CORP.

1400 73 Ave. N.E., Minneapolis, MN 55432 612 574-5000 Power generators.

ONE PASS FILM & VIDEO 1 China Basin Bldg., San Francisco, CA 94107

415 777-5777

Video production & post-production facilities; mobile production facilities rental; audio post-production facilities; equipment rental services.

OPAMP LABS 1033 N. Sycamore Ave., Los Angeles, CA 90038

213 934-3566

Portable, mono studio & audio-for-TV consoles Audio noise reduction. Audio & video DAs, audio routing switchers, video pulse amps.

OPRYLAND PRODUCTIONS 2806 Opryland Dr., Nashville, TN 37214 615 242-2483

Video production & post-production facilities; mobile production facilities rental.

OPTICAL DISC CORP.

17517H Fabrica Way, Cerritos, CA 90701 714 522-2370

CD mastering systems. Videodisc recording system. Color bar encoder/generator. Video test signal generators.

OPTIMUS

161 E. Grand Ave., Chicago 60611 312 321-0880

Mobile production facilities rental, video post-production facilities.

ORBAN ASSOCIATES

645 Bryant St., San Francisco, CA 94107 415 957-1067

ALC & AGC amps; Optimod AM & FM compressor/limiters; parametric equalizers. Analog efx, reverb. Stereo synthesizers. Stereo generators for FM & TV Optimod TV audio processor. SAP & PRO channel generators. See ad on pg. 48. Circle No. 132.

ORION RESEARCH 4650 W. 160 St., Cleveland, OH 44135

216 267-7700 Audio-for-TV consoles; audio DAs, audio routing switchers. Serieal interface video

routing switchers; vertical interface video routing switchers; vertical interval machine control/technical automation; video DAs

ALLEN OSBORNE ASSOC. 756 Lakefield Rd. Bldg. J, Westlake Village, CA 91361 805 495-8420

ONE LESS ALLIGATOR

The Broadcast Engineer works with time-line responsibilities few of us will ever experience. He knows that equipment problems can wreck production schedules.

That's why the Otari BII is the most widely used audio machine for broadcast mix-down, news editing and production.

Three speed operation, front panel record calibrations, a microprocessor controlled tape counter



with LED display, and variable speed control, coupled with "Eulletproof" reliability and high level product support all add up to one less alligator snapping at your heels. From Otari: The Technology You Can Trust.

Contact your nearest Otari dealer for a demonstration, or call Otari Corporation, 2 Davis Drive, Belmont, CA 94002 (415) 592-8311 Telex: 910-376-4890





The "SWAT"* The best engineers assistant.

automatic analysis of all sync parameters of the video signal * video monitor output * local liquid crystal display * two independent video inputs * manual/automatic testing modes * alarm indicators for parameters out of tolerance * self-test software * RS 232 output to feed printer or PC * PAL/NTSC version.

Standard Measurements

M-3910

Watcher-Analyzer:

- * sync and burst amplitude
- * field period
- * number of lines
- * horizontal sync width
- * number of cycles in burst
- * breezeway
- * number of vertical sync pulses
- * equalizer width
- * vertical pulse width
- * SC/H phase up to two degrees * SC frequency error up to 0.2 Hz

@ PESA



- Timer:
- * H and V lock
- * PAL lock
- * H delay and SC phase delay between inputs A and B
- * Sync
- Watcher
- * Analyzer
- Timer



Albalá, 12 - 28037 Madrid (Spain) - Telex: 48449 PESAE E - Tel: 754 00 78 Pesa America Inc. 6073 NW 167th St. - Miami, FL 33015 (USA) - Telex: 6712435 PESAM - Tel: 305-556 - 9638 - Toll Free: 1- 800-USA-PESA

尝 INISEL Group

The affordable hi-tech. Circle 171 on Reader Service Card

Hilomast telescoping microwave masts. See ad on pg. 40. Circle No. 124.

OSRAM CORP.

Box 7062, Jeanne Dr., Newburgh, NY 12550 914 564-6300

HMI lamps & lighting fixtures

OTARI CORP.

2 Davis Dr., Belmont CA 94002 415 592-8311

Single-deck cart player/recorders. Portable, 2-/4-track studio & multitrack open-reel ATRs. Digital audio recorders. Tape duplicators.

See ad on pg. 105. Circle No. 170.

PACIFIC COAST VIDEO 635 1/2 Chapala, Santa Barbara, CA 93101 805 965-5015/213 876-3503

Video production & post-production facilities.

PACIFIC POWER SOURCE CO.

15122 Bolsa Chica St., Huntington Beach, CA 92649

800 854-2433/in CA 800 472-8465

Solid state ac power systems; uninterruptible ac power systems.

PACIFIC RECORDERS & ENGINEERING

2070 Las Palmas Drive, Carlsbad, CA 92008 619 438-3911

Newsmixer portable audio consoles; BMX, AMX & ABX mono & stereo studio consoles. Tomcat & Micromax single-deck cart player/ recorders. Maxtrax audio replacement heads. Cartcue splice finder. Complete disc playing consoles. AM & FM compressor/ limiters, stereo & mono; Voice Processor parametric equalizers. Preamps. Stereo & mono audio DAs, NTP audio routing switchers, audio patch panels & jackfields. VU & PPM meters. Delay controller insert switcher. Custom & stock studio furniture, cabinets, studio consoles, equipment racks, cart/tape storage. Clocks, timers. Facilities design & engineering services; studio design consultants; engineering consultants.

PACIFIC VIDEO

809 N. Cahuenga Blvd., Los Angeles, CA 90038

Ć

213 462-6266

Video & audio post-production facilities; videodisc mastering services; graphics production

PACKAGED LIGHTING SYSTEMS Box 285, 29-41 Grant St., Walden, NY 12586

914 778-3515/800 426-1133

Lamps, quartz fixtures, cyc lighting, diffusion & efx material, lighting stands & rigging, Stage-Master lighting control boards & dimmer packs. Lighting equipment racks.

PACO ELECTRONICS U.S.A.

714 W. Olympic Blvd., #706, Los Angeles, CA 90015 0

Circle No. 166.

Circle No. 240.

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213	747	-654
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Nicad	batteries,	chargers.
See ad	d on pa. 1	00.

See	aa	оп	pg.	100.
See	ad	on	pg.	112.

Asheville, NC 28813

PAG	AMER	ICA		6
Box	15194,	1270	Hendersonville	Rd.,

projectors.

Receive-only satellite earth stations, LNBs. Audio test signal generators; video test signal generators; oscilloscopes, logic analyzers. Capacitors.

See ad on pg. 10 - 11. Circle No. 106.

PANAVISION 18618 Oxnard St., Tarzana, CA 91356 818 881-1702

16 mm cine cameras; Panacam electronic cinematography camera. Camera lenses

PATCH BAY DESIGNATION CO. Box 6278, Glendale, CA 91205 818 241-5585

PatchPrints custom labels for patch bays, control panels, mixers, etc.

PEGASUS SYSTEMS See A.F. ASSOCIATES

PEIRCE-PHELPS, AUDIO/VIDEO SYSTEMS DIV. 2000 N. 59 St., Philadelphia, PA 19131 215 879-7171

Facilities design & engineering services; mobile vehicle construction; turnkey television systems Design, engineering & installation of custom teleconferencing systems

Field Offices:

CA-575 Anton Blvd., Costa Mesa 92626 714 432-6305 MD Fred Bergstrasser, 12288 Wilkins Ave., Rockville 20852 301 984-7979 NJ 880 Bergen Ave. #505, Jersev City 07306 201 420-1061 PA Hal Morrison, 490 S. St. John's Church Rd., Camp Hill 17011 717 761-0240

PENNY & GILES 2716 Ocean Park Blvd. #1005, Santa Monica, CA 90230 213 393-0014

Rotary & slide attenuators; motorized faders. T-bar controllers, joysticks.

PEP

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Ь 25 W. 54 St., New York, NY 10019 212 246 2490

N cad batteries & chargers, ac adapters. VHS interface for Sony editors. Frezzi On-Cam VTR system.

THE PERFORMANCE GROUP

2741 Noblestown Rd., Pittsburgh, PA 15205

412 922-0900

Rentals of lighting, power & support equipment; facilities design & engineering services; set/studio design services; engineering consultants

Ь PERROTT ENGINEERING LABS 7201 Lee Hwy., Falls Church, VA 22046 703 532-0700

Nicad, silver-zinc & lead-acid batteries, chargers. Quartz lighting fixtures, cyc lighting. Lighting/ac cable, cable connectors. Quartz crystals; crystal filters, oscillators.

See ad on pg. 137. Circle No. 197.

6 PESA AMERICA 6073 N.W. 167 St., #C4, Miami, FL 33015 305 556-9638/800 USA PESA

Hardwired intercom systems; audio DAs. Character generator/graphics systems; NTSC & high-resolution video monitors. LPTV transmitters, translators; receive-only satellite earth stations. Burst phase meters, SCH phase meters. Mobile vehicle construction.

See ad on pg. 106. Circle No. 171.

PETERS PRODUCTIONS

9590 Chesapeake Dr., San Diego, CA 92123

619 565-8511/800 255-8511

Audio post-production facilities; recording studios; syndicated radio programming

PHILIPS TELEVISION SYSTEMS 900 Corporate Dr., Mahwah, NJ 07430 201 529-1550

Monitor speakers. Studio, field & ENG cameras; recorder/cameras. Sync generators. FM, VHF & UHF transmitters, FM & TV exciters. FM SCA equipment. Mobile vehicle construction.

Field Offices:

CA Michael W. Hartt, 3760 Cahuenga Blvd. W , N. Hollywood 91604 818 766-8184 MD Colin Parkhill, 5410 Baychester Ct, Alexandria 22310 703 461-0188 MN Jeffrey N. Clarine, 15611 Fish Point Rd., Prior Lake 55372 612 447-6036 TX Michael J. Mackin, Rte 2, 801 E. Woodglen, Lewisville 75067 817 455-2214

PHILIPS TEST & MEASURING INSTRUMENTS 85 McKee Dr., Mahwah, NJ 07430 201 529-3800/800 631-7172

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Video DAs. Monochrome, NTSC & batterypowered portable video monitors; video

Two-machine editor/controllers, Abner & Excel A/B roll editors, Esprit, Esprit Plus & Edit-Star multisource editors. Field Office:

2752 Walnut Ave., Tustin, CA 92680

704 274-1438

415 592-9170

video

PALTEX

714 838-8833

Handlamps, ENG light kits.

W.A. PALMER FILMS

TN Thom Belford, 5650 Matlock, Knoxville 37921 615 588-8410

Nicad batteries & chargers; microprocessor-

controlled chargers, solar chargers.

1475 Old Country Rd., Belmont, CA 94002

Recording studios; audio post-production

facilities; music libraries; film transfers from

PANASONIC INDUSTRIAL CO. 1 Panasonic Way, Secaucus, NJ 07094 201 348-7000

Ramsa portable audio consoles, mono & stereo studio consoles, audio-for-TV consoles; graphic equalizers; monitor speakers; dynamic, electret/condenser, RF & lavalier mics; monitor/power amps, amp power

supplies. Cameras: studio, field, ENG, single-tube color, CCD color, monochrome; Recam

recorder/cameras. Newvicon, Vidicon camera pickup tubes. 3/4-inch U, M-format, M-II format & VHS VCRs; MERPS multicassette decks. 34-inch & half-inch videocassettes. Optical disc recorders. Telecine cameras. Titlers, subtitlers; teletext terminals. Portable & compact studio/mobile production switchers. Standalone analog efx, RGB chromakeyers, title keyers. Manual master control switchers. Two-machine editor/ controllers, A/B-roll editors, multisource editors, SMPTE time code generator/readers.

Sync & color bar generators. Color analyzers. VITS inserters & generators; pattern generators; sync/component video generators. Frequency counters; IF & RF modulators. Waveform monitors, vectorscopes, automatic VITS analyzers. Demodulators. Oscilloscopes, logic analyzers.

Field Office:

CA 3760 Cahuenga Blvd. W., N. Hollywood 91604 818 506-0550

PHOEBUS MANUFACTURING

2800 Third St., San Francisco, CA 94107 415 550-1177

Ultra Arc HMI & CSI fixtures; Ultra Quartz quartz lighting fixtures.

PHOTO AND VIDEO ELECTRONICS

1620 Hillside Ave., New Hyde Park, NY 11040

516 328-6606

Pave Perispheric wide-angle macro lens. Liesegang 35 mm slide projectors.

PICTURE MANAGEMENT SYSTEMS

1069 Wisconsin Ave. N.W., Washington, DC 20007 202 338-6390

Photo Store videodisc stock shot library.

PINZONE COMMUNICATIONS PRODUCTS Box 540, Newbury, OH 44065

304 296-4493 TCR-100 refurbishing rebuildi

TCR-100 refurbishing, rebuilding; TCR-100 diagnostics computer.VIMCAS vertical interval multichannel audio system. Transmit/

receive, receive-only & transportable satellite earth stations; upconverters, downconverters; Dexcel LNAs. Cablewave rigid, foam dielectric & coaxial transmission line, power dividers.

PIONEER ELECTRONICS (USA)

POB 22711, 5000 Airport Pl. Dr., Long Beach, CA 90801 213 420-5700 Laser disc players.

PLASTIC REEL CORP. OF AMERICA Brisbin Ave., Lyndhurst, NJ 07071 201 933-5100

Plio-Magic empty audio & video tape reels, carts, cases. Moduline equipment racks. Videocassette storage & shipping containers for all formats.

Field Offices:

CA 8140 Webb Ave., N. Hollywood 91605 213 504-0400

IL 1302 W. Randolph, Chicago 60607 312 942-1950

CONSTANTINE N. POLITES & CO. 833 Guenther Ave., Yeadon, PA 19050 215 626-4643

Scaffolding couplers for lighting grids

POLYCOM CORP. OF AMERICA 201 E. Erie St., Chicago, IL 60611 312 337-6000

Video production & post-production facilities; mobile production facilities rental; recording studios; equpment rental services; earth station site selection; videotape duplication services; international standards conversion.

MEANS

POLYLINE CORP. 1233 Rand Rd., Des Plaines, IL 60016 312 297-0955

Open-reel audio tape, carts, cassettes, sprocketed mag film, test tapes & leaders, empty reels & carts, tape cleaners & evaluators, erasers & degaussers. Distributor of videotape.

PORTABLE ENERGY PRODUCTS 1875 S. Pearl St., Denver, CO 80210 303 778-8616

Nicad & sealed lead-acid batteries, chargers.

PORTA-PATTERN Box 38945, 750 N. Highland Ave., Los Angeles, CA 90038 213 461-3561

Video test charts, slides, films, transparencies. Camera optical test media.

PORTLAND INSTRUMENT/ AUDIO DEVELOPMENTS 1101A Air Way, Glendale, CA 91201

818 500-0137 Mic mixers, portable audio consoles.

POSITIVE VIDEO 15 Altarinda Rd., Orinda, CA 94563 415 254-3902

You provide the vibration







The Schwem Gyrozoom[®] 60/300 will stabilize it



One of the torture tests we gave the Schwem Gyrozoom 60/300 Image Stabilizer Lens was an improvised dolly shot using an ordinary office chair. The chance you'll ever want to do that is remote. Still, it's nice to know it's possible.

You're more likely to use the Schwem Gyrozoom 60/300 for conventional handheld applications like snowmobiles, toboggans and skydiving. Or even boats, motorcycles and golf carts. In fact, almost anywhere that vibration threatens to ruin the shot. The Gyrozoom 60/300 fits most $\frac{2}{3}$ " ENG/EFP cameras and eliminates virtually all image vibration.

Consider the creative possibilities. Tripod quality images on location hecause practically anywhere you can put a camera you can stabilize the image with a Schwem Gyrozoom 60/ 300.

Call Schwem today for a free demonstration. (800) 228-1333-242 or (415) 935-1226. 3305 Vincent Road, Pleasant Hill, CA 94523.



Video post-production facilities Field Office:

CA 1250 San Carlos Ave., San Carlos, CA 9407 415 595-4041

THE POST CROUP 6335 Homewood Ave., Hollywood, CA 90028 213 462-2300

Video post-production facilities.

POTOMAC INSTRUMENTS

932 Philadelphia Ave., Silver Spring, MD 20910

301 589-2662

Transmitter remote control systems. Audio test signal generators, harmonic distortion meters, IM meters, spectrum analyzers, realtime analyzers; wow & flutter meters. Demodulators, antenna monitors, field intensity meters, RF test signal generators, synthesized monitor/receiver, audio program analyzer

See ad on pg. 102.

Circle No. 167.

b **POWERPAK SYSTEMS** 1200 Everman Pky, Ft. Worth, TX 76140 817 293-1761

FM exciters, stereo generators. RF amps.

PRECISION ECHO

3105 Patrick Henry Dr., Santa Clara, CA 95054

408 988-0516

Video Frame Star portable still-frame videodisc recorder. Video animation controller; Budget Squeezer compressor/ positioner

PRIME IMAGE

19943 Via Escuela, Saratoga, CA 95070 408 867-6519

TBC + & TBCSYNC + TBCs, frame synchronizers, digital efx generators.

PRO BATTERY CO. 2941 Oakcliff Industrial Ct., Atlanta, GA

30340

800 451-7171/404 449-5900

Nicad & lead-acid batteries, chargers. Kobold HMI ballasts, HMI & CSI fixtures, diffusion & efx material, lighting stands & rigging. GE, Sylvania, & Osram lamps

PRODUCTION MASTERS 321 First Ave., Pittsburgh, PA 15222

412 281-8500 Video production & post-production facilities; mobile production facilities rental; re-

cording studios; audio post-production facilities; equipment rental services; music libraries

PROTECH AUDIO CORP.

Flowerfield Bldg. #1, St. James, NY 11780 516 584-5855

Mic mixers. Audio head cleaners, degaussers. ALC, AGC amps; AM & FM compressor/limiters. Hardwired intercom systems. Preamps, line amps, monitor/ power amps; amp power supplies. Audio DAs, audio routing switchers. Slide attenuators; LED audio level displays. Audio transformers

Ć PROTON CORP. 737 W. Artesia Blvd., Compton, CA 90220 213 638-5151 Video off-line monitors

PRO VIDEO/CINETAPE 801 N. La Brea Ave., Hollywood, CA 90038 213 934-8840 Video post-production facilities

PYRAMID VIDEO

480 Natl. Press Bldg., Washington, DC 20045

202 783-5030

Video production & post-production facilities; ENG production crews & equipment rentals; video duplication services; satellite & microwave transmission services, uplinking, downlinking, telco transmit & receive

QEI CORP. Box D, Williamstown, NJ 08094 609 728-2020

FM transmitters. FM exciters, stereo generators. Modulation monitors.

See ad on pg. 34. See ad on pg. 36. **OSC AUDIO PRODUCTS**

1926 Placentia Ave., Costa Mesa, CA 92627

714 645-2540 Monitor/power amos

QSI SYSTEMS

12 Linscott Rd., Woburn, MA 01801 617 938-1403

Black burst, color bar & SID generators, video slate board/countdown generators. Video DAs. Compact, studio/mobile production switchers

0-TV

104 E. 25 St., New York, NY 10010 212 460-9050

Teleprompters: monitor-based, scroll entry, keyboard entry, ENG/EFP portable

Super Flexible ADA

Circle No. 118.

Circle No. 120.

These Utah Scientific Audio DAs provide eight solated oulputs from one input-or four isolated outputs from each of two separate mono or stereo inputs-or can be used as remotely controlled mixers*-or with remote gan control.*

They mount ten-to-the-frame with single or redundant power supplies, and feature specs like .05% IMD/THD and \pm .05 dB flatness, all at \pm 24 dBm/20 KHz.

Write or call for literature, a quote, or the name of your nearest dealer.

*With optional mix/gain module.



OUAD EIGHT/WESTREX

225 Parkside Dr., San Fernando, CA 91340 818 898-2341

Superstar stereo studio consoles, Westar audio-for-TV consoles, Compumix console automation. Westrex 16/35 mm magnetic film dubbers; projectors.

Field Offices:

NY 555 W. 57 St. #1530, New York 10019 212 713-1600 TN 2200 Hillsboro Rd. #218, Nashville 615 298-6613 37212

QUALITY VIDEO SUPPLY 76 Frederick St., Hackensack, NJ 07602 201 488-8336/800 431-6000

Telecomp computer video combiner; distributor of video and audio accessories, supplies & equipment.

OUANTA CORP.

2440 S. Progress Dr., Salt Lake City, UT 84119

801 974-0992

Microgen titlers, subtitlers; Quantafont character generator/graphics systems; Quantapaint & Quantapaint 32 digital art/ paint systems; Dimension 3D modeling & animation system.

Field Offices:

MTN Gary Montgomery, 3417A Honeycutt Rd., Salt Lake City, UT 84106 807 485-1913 W Brent Bullock, 3417A Honeycutt Rd., 807 485-1913 Salt Lake City, UT SW Mel Williams, 1535 S. Memorial #124, 918 627-4151 Tulsa, OK 74112 MW Benton Everett, 3559 Port Cove Dr #25. Pontiac, MI 48054 313 423-5168 NE Peter Glassberg, 57 North St. #207 203 797-1179 Danbury, CT 06810 SE George Cudabec, 209 Bass Rd. Chattanooga, TN 37421 615 892-8427 INTL Len Zeller, 16006 Waterloo Rd. Cleveland, OH 44110 216 692-3410 EURO David Hughes, Postbox 289, 1430 AG Aalsmeer, The Netherlands

31 2977-23473

QUANTE CORP. 3350 Scott Blvd., Bldg. 15, Santa Clara, CA 95054

408 727-2077

Fiberoptic systems; audio & video encoders.

OUANTEL

3290 W. Bayshore Rd., Palo Alto, CA 95051

415 856-6226

Digital still stores; Cypher character generator/graphics system; Paintbox digital art/paint system; Mirage 3D modeling & manipulation system; Encore digital efx generacompressor/positioners; frame tor: synchronizers; TBC/framestores; Satin standards converter. Harry digital animation, recording, editing & efx processor See ad on pg. 38.

Circle No. 117.

OUANTUM AUDIO LABS 1905 Riverside Dr., Glendale, CA 91201 213 841-0970

Portable audio consoles; mono & stereo studio, audio-for-TV consoles.

QUICKSCAN SYSTEMS LTD. 9465 Wilshire Blvd., Beverly Hills, CA 90212

213 876-6596

Stillframe video electronic publishing meth-

od (by licence); video post-production facilities

OUICK-SET 3650 Woodhead Dr., Northbrook, IL 60062 312 498-0700

Tripods, heads, pedestals, dollies, remote pan/tilt systems

RADIATION SYSTEMS

1501 Moran Rd., Sterling, VA 22170 703 450-5680

C- & Ku-band transmit/receive, receive-only & transportable earth stations. Microwave & communications antennas

RADIO ARTS

210 N. Pass Ave. #104, Burbank, CA 91505

818 841-0225/800 423-2840

Syndicated radio programming.

RADIO COMPUTING SERVICES

1 Chase Rd. #206, Scarsdale, NY 10583 914 723-8567

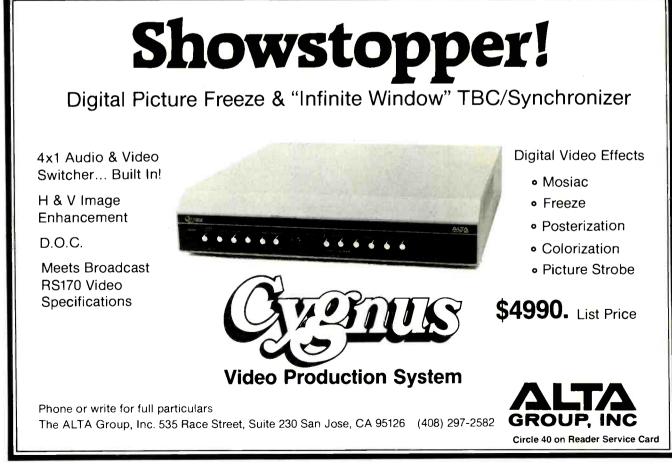
Computer software for music research & scheduling

RADIO SYSTEMS

5113 W. Chester Pike, Edgemont, PA 19028

215 356-4700

Stereo studio consoles. Key/Cart singledeck cart player/recorders. Preamps, line amps, monitor/power amps, amp power supplies. Audio DAs. LED audio level displays. Custom-built studio furniture. Phase II carrier current AM transmitter. FM SCA equipment. Studio timers. Facilities de-



Time is on your side with ADS-1.

anna

the to the

Full broadcast quality at 16 to 30 fps with 16 or 35mm film.

ADS-1 is the only telecine designed specifically for broadcasters. It lets you compress film running time by as much as 25% without any unacceptable video side-effects. With this far superior technology, you'll never again have to cut scenes or suffer from nicture degradation

ADS-1 is fully compatible with 16 or 35mm film to give you the increased aesthetic impact that only 35mm can offer. You can also take advantage of the optional exclusive dirt/scratch concealment system and an automatic color corrector.

Rank Cintel is the world's only specialized manufacturer of telecine equipment. Backed by more than four decades of experience, you'll be glad to have ADS-1 on your side. For more information just call Rank Precision Industries at (914) 353-1914; (215) 886-9817; (609) 953-1331; or (818) 765-7265



sign & engineering services; set/studio design services.

RADIOTECHNIQUES

402 Tenth Ave., Haddon Heights, NJ 08035 609 546-0472

Facilities design & engineering services; set/ studio design services; engineering consultants; earth station site selection.

RADMAR

1263-13 Rand Rd., Des Plaines, IL 60016 312 298-7980

16 mm telecine projectors. Videotape duplication services.

RAINBO PRODUCTS

410 N. River, Ypsilanti, MI 48197 313 482-6591

Lighting head assembly color changer; Horizon memory manual lighting controller.

RAM BROADCAST SYSTEMS 346 W. Colfax, Palatine, IL 60067 312 358-3330

U.S. distributor for McCurdy Radio products Phasescope stereo monitoring device.

RAMKO RESEARCH

3501 #4 Sunrise Blvd., Rancho Cordova, CA 95670

916 635-3600

Mic mixers, portable audio consoles, DC Series mono & stereo studio consoles. XL Series power amps & audio consoles. Primus, Phasemaster single-deck cart player/ recorders, Phasemaster real-time phase correcting cart player. AM compressor/

limiters, audio noise reduction. Preamps, line amps, monitor/power amps. Audio DAs, audio routing switchers. VU, PPM & LED audio level displays.

RAMSA/PANASONIC PRO AUDIO 🕅 6550 Katella Ave., Cypress, CA 90630 714 895-7278

Mic mixers; portable, mono & stereo studio, audio-for-TV consoles. Modular console for post-production. Monitor speakers. Power amps.

See ad on pg. 42. Circle No. 126.

RANGERTONE RESEARCH 115 Roosevelt Ave., Belleville, NJ 07109 201 751-6833

Solid state telecine systems, telecine cameras, 16/35 mm telecine projectors, 35 mm slide projectors, optical multiplexers, telecine control systems.

RANK CINTEL 13340 Saticoy St., N. Hollywood, CA 91605 818 765-7265

Slide File digital still store. Solid state telecine systems, flying spot scanners, telecine color correctors, Amigo telecine control systems, Ferrit sound dubber; field/framestores. **Field Offices:**

IL 411 E. Jarvis Ave., Chicago 60018 312 297-7720 NY 260 N. Route 303, W. Nyack 10094

914 353-1914 See ad on pg. 111. Circle No. 175.

RAYCOM GROUP 1400 Eutaw Pl., Baltimore, MD 21217 301 561-3331

Skylink SNG communication system. Broadband power amps; ENG microwave transmitters & receivers.

RCA AMERICAN COMMUNICATIONS 4 Research Way, Princeton, NJ 08540-6684

609 987-4000 Satellite transmission services; postproduction services.

RCA NEW PRODUCTS & CCTV DIV., **TUBE OPERATIONS**

New Holland Ave., Lancaster, PA 07602 717 295-6123/800 233-0155

Camera pickup tubes. RF amps, RF tubes. Fiberoptic systems.

Field Office:

CA 23860 Hawthorne Blvd., Torrence 90505 213 373-8514

R-COLUMBIA PRODUCTS

2008 St. Johns Ave., Highland Park, IL 60035

312 432-7915

6

Headphones. Hardwired & RF intercom systems. Dynamic, electret/condenser, RF & lavalier mics. IFB/ENG telephones, telephone headphones. Two-way radio communications.

REACH ELECTRONICS Box 308, 1600 W. 13 St., Lexington, NE 68850 308 324-6661

Pocket Pagers RF intercoms.



714 WEST OLYMPIC BLVD., SUITE 706, LOS ANGELES, CA 90015 TEL-213-747-6540/TLX-756923/FAX-213-747-3731

Circle 240 on Reader Service Card



REAL RADIO CO.

127 Glen Summer Rd., Pasadena, CA 91105 818 795-4900 Syndicated radio programming.

REAL WORLD TECHNOLOGIES GROUP 130 McCormick Ave. #109, Costa Mesa,

CA 92626 714 957-1061 UniVUer VU & PPM meters, video monitor au-

dio level displays. Safe title area generators. MonSter stereo coherency meter. Blanking width verifier. Facilities design & engineering services; mobile vehicle construction.

RECORTEC

275 Santa Ana Ct., Sunnyvale, CA 94086 408 737-8441

Videotape loaders, timers, rewinders; videotape cleaners, evaluators; tape erasers, degaussers.

REDLAKE CORP. 0 15005 Concord Cir., Morgan Hill, CA 95037

408 779-6464

Cine cameras & lenses. Lead-acid batteries & chargers; camera tripods & heads.

REES ASSOCIATES 4200 Perimeter Ctr. Dr. #245, Oklahoma City, OK 73112

405 946-9800/800 527-2046

Facilities design & engineering services; engineering consultants; architectural & planning consultants.

Field Offices:

TX 2710 Stemmons Fwy., Stemmons N. Tower #900, Dallas 75207 214 630-7337 TX 6750 W. Loop S. #700, Bellaire 77401 713 432-7337

REEVES TELETAPE 708 Third Avenue, New York, NY 10017

212 573-8888 Video production & post-production facilities: mobile production facilities rental.

REGISTER DATA SYSTEMS Box 1246, 404 Carroll Blvd., Perry, GA 31069

912 987-2501

Radio business automation hardware & software. Sea-Tex weather radar displays.

RE INSTRUMENTS CORP. 5 31029 Center Ridge Rd., Westlake, OH 44145 216 871-7617

Digital fiberoptic systems. Dual-channel audio analyzer; TV stereo test generator. RF test signal generators.

RE-PLAY VIDEO CARTRIDGE SVCE. 328 Meritt Ave., Pittsburgh, PA 15227 412 885-0959

TCR-100 two-inch video cartridge reloading service.

RESEARCH TECHNOLOGY INTL./RTI 4700 Chase Ave., Lincolnwood, IL 60646 312 677-3000/800 323-7520 Retec empty videotape reels, carts, cases;

This tape failure doubled the cost of an already expensive video production.



Videotape: The Weakest Link

To the producer, this shot became much more expensive and complicated than planned... all because the videotape quality was unknown before use.

Why wait for disaster to strike your video productions because of unknown tape quality? Prevention costs much less. RTI's new TapeChek 6120 is the world's top performing evaluator/cleaner for 1" videotape, specifically designed for professionals who demand superior tape performance.

With TapeChek you are assured that every inch of videotape is up to the high standards you expect from 1" tape. At 20 times standard play speed, the TapeChek 6120 accurately and thoroughly evaluates, inspects, cleans and polishes all blank or prerecorded tapes. Advanced 20 track MicroPulse detection electronically identifies dropouts. Plus, it can provide physical evaluation of prerecorded tapes without erasure. TapeChek's precision vacuumassisted cleaning system substantially reduces temporary dropouts caused by loose oxide and dirt. Tape condition is graphically



displayed by color CRT while a hard copy printer reports type and location of dropouts and damage.

Why risk increased production costs and lost revenue because of unknown tape quality? For complete information call:

1-800/323-7520.

In Illinois, call: 1-800/851-4028.

From Alaska, Hawaii and outside the U.S.A., call: 312/677-3000.



4700 Chase Avenue Lincolnwood, IL 60646-1689

Leading the way in videotape care.

THE ONLY WIRELESS MICROPHONE EQUIPPED TO TRIUMPH IN

The airwaves are bursting with interference. TV broadcasts, police emergency calls, taxi dispatches, even other wireless microphones.

All of which can make a performer look bad, and an engineer look worse. But fortunately, Sony has created an effective alternative to the anxiety of conventional wireless microphones. The VHF Synthesized Wireless System.

TÜNE YOUR WAY OUT OF A JAM. Other wireless microphones are pre-tuned to just one channel. Each electronically synthesized Sony VHF wireless microphone, on the other hand, gives ©1985Sony Corp. of America. Sony is a registered trademark of Sony Corp. Sony Communications Product

you 48 channels – 48 opportunities to get on the air without interference. With a mere push of a button.

In fact, with as few as 4 Sony wireless microphones and a tuner, you can reach 168 microphone channels. And the Sony Wireless System makes it possible to use up to 13 microphones in the same place at the same time. Also, Sony's tuner gives you an easy-to-read LCD display. Which is an indispensable asset when you happen to be in a big hurry.

In addition, Sony's wireless microphones won't leave you wincing at poor dynamic range. Thanks to a companding technique which yields a dynamic range Co. Sony Drive, Park Ridge, NJ. 07656. Use of Sony wireless devices is regulated by the FCC as described

THE BATTLE OF THE BANDS.

in excess of 94dB. Well within the realm of wired microphone performance.

The Sony system is also designed to withstand the rigors of live recording. Besides being lightweight, it's also extremely sturdy. Including everything from the microphones, to the body pack transmitter, to the tuners, to the shock-resistant portable cases and rack-mounting brackets.

An arsenal of equipment designed to be invaluable to you in the battle of the bands. And to be an exceptional value as well—about \$3,000 for a full-diversity system. A small price to pay to keep a respected engineer's reputation from being at the mercy of a taxi dispatcher. For more information about the Sony Wireless System, call the Sony Professional Audio office nearest you. In the East, call (201) 368-5185; in the South. (615) 883-8140; in the Central Region,(312) 773-6002; and in the West, (213) 639-5370.



The SSL Stereo Video System

The Practical Standard For MTS Production

Before and beyond the transmitter, Multichannel Television Sound is an art. In the studio and post-production suite, the creative use of stereo can do as much or more than lighting, lensing, colour and video effects to give depth, impact and immediacy to the television picture. It quite literally adds an entirely new dimension to the viewing experience.

In stereo, television is a whole new ball game - or newscast, or series, or advert, or sitcom, or special. Because stereo is both natural and compelling, the programming possibilities are as broad as the imagination and skills of today's sound designers. Technical limitations and the constraints of time are the only obstacles. And that's where SSL can help.

Our SL 6000 E Series Stereo Video System handles complex MTS production with unrivalled ease and efficiency. Designed to simultaneously speed and enhance all aspects of television audio production,

tape cleaners, evaluators, erasers degaussers. Ultrasonic film cleaners. VITC reader/generators. Dropout analyzers. Circle No. 176. See ad on pg. 113.

Ь **RF SPECIALTY PRODUCTS** 4214 San Pedro, San Antonio, TX 78212 512 736-6116

RF filters, loads & switches; antenna tuning units: power dividers, RF connectors; tower lighting; phaser, diplexer.

RF TECHNOLOGY

145 Woodward Ave., S. Norwalk, CT 06854 203 866-4283

RF mics, RF amplifiers, LNAs, Microwave systems: intercity, portable ENG, airborne, central receivers.

RICHARDSON ELECTRONICS LTD. 40 W. 267 Keslinger Rd., IL 60147

800 323-1770

Distributor of full line broadcast tubes & components.

RICHMOND SOUND DESIGN 1234 W. Sixth Ave., Vancouver, BC, Canada V6H 1A5 604 734-1217

Mic mixers; portable, mono & stereo studio, audio-for-TV consoles, console automation. Computer automation controllers; complete program automation systems. ALC & AGC amps, graphic equalizers. Preamps, line amps, monitor/power amps, amp power supplies. Audio DAs, audio routing switchers.

RJW SOFTWARE

HitList comptuterized music scheduling and library maintenance system.

6



RKO TAPE CORP.

201 575-8484

Field Office:

213 533-1498

cassettes

the SL 6000 E Series makes innovative stereo programming practical on a daily basis.

Only SSL has triple stereo mix buses for stereo music, dialogue and effects, plus rapid mix-minus matrixing for Second Audio Program creation. Only SSL provides compressor/limiters, parametric equalizers, expanders and noise gates on every channel - plus balance and image width controls for all stereo sources. And only



6

SSL provides such time-saving operational features as patchfree audio subgrouping and pushbutton signal processor routing. For post-production efficiency, even the multitrack electronics remotes are built right in. And that's just the new line standard equipment!

Options include Total Recall[™] – an SSL exclusive, completely independent of the audio path, which allows any operator to recreate the most intricate console setups for any programme with rapid accuracy, week after week. Programmable dynamic stereo equalisation and panning may also be added, along with

ROHN

Box 2000, Peoria, IL 61656 309 697-4400

Lighting diffusion material, gels & filters.

ROH/DIV. ANCHOR AUDIO 913 W. 223 St., Torrance, CA 90502

Ć

212 764-6603

Automatic time/weather announcers. ALC & AGC amps. Monitor speakers, headphones. Hardwired interoms. Preamps, line amps, monitor/power amps, amp power supplies. Audio DAs, audio routing switchers, audio patch panels & jackfields, telco interface equipment. VU & PPM meters. Audio test signal generators; MTS test equipment. Audio cable.

3 Fairfield Cres., W. Caldwell, NJ 07006

Audio & computer tape duplicators. Audio

NY 1440 Broadway, New York 10018

6 ROHDE & SCHWARZ/POLARAD 13 Nevada Dr., Lake Success, NY 11042 516 488-7300

Sync & color bar generators. AM, FM, VHF, UHF & LPTV transmitters. FM & TV exciters, modulators. Receive-only earth stations. Transmitter remote monitoring equipment.

Spectrum analyzers. Video test signal generators, waveform monitors, diff. phase/ gain meters, video noise meters, automatic VITS analyzers. Demodulators, modulation monitors, field intensity meters, sideband analyzers, RF power meters & wattmeters, RF test signal generators, impedance bridges. Oscilloscopes, voltmeters, multimeters, logic analyzers. Automatic TV monitors, automatic radio monitors, status/alarm indicators.

Tower masts, rigging, hardware, lighting. **ROSCO LABORATORIES INTL.**

36 Bush Ave., Port Chester, NY 10573 914 937-1300

Scenery materials, props.

ROSCOR CORP.

6061 Feehanville Dr., Mt. Prospect, IL 60056

312 539-7700

Mobile vehicle construction; mobile production facilities rental; video post-production facilities: equipment rental services; facilities design & engineering services; engineering consultants. Custom studio consoles & equipment racks. Audio tone generator; monitor tally system.

Field Office:

WI Glenn Curry, 4701 W. Schroeder Dr. #110, Milwaukee 53223 414 357-8000

JUDSON ROSEBUSH CO. 1619 Broadway, New York, NY 10019 212 397-5400

Video post-production facilities; video/film stock shot library; computer animation services.

ROSNER TELEVISION SYSTEMS 250 W. 57 St., New York, NY 10107 212 246-2850

Facilities design & engineering services; engineering consultants; earth station site selection; mobile vehicle construction.





multi-repeatable Events Control, Automatic Dialogue Replacement, and centralised command of up to five synchronised audio and video machines. All of this is thoroughly integrated with the SSL Studio Computer the world's number one choice for mixing automation.

Best of all, the SSL Stereo Video System is not a hasty revamp of an old mono design. Nor is it an experimental project in search of a guinea pig. It is a practical, reliable international standard for advanced television audio production — proven in well over half a million hours of network and independent studio and mobile operation in Great Britain, Japan, Germany, Scandanavia, Australia, Canada and all across the United States.

Take advantage of our experience. Call or write today for a free 40 page colour brochure describing the operation and applications of the SL 6000 E Series Stereo Video System. If your station or facility is contemplating an upgrade to full MTS production capabilities, we'll be happy to arrange a complete demonstration. And be sure to ask about our training programmes.

Solid State Logic

Begbroke, Oxford, England OX5 1 RU • (08675) 4353 200 West 57th Street • New York, New York 10019 • (212) 315-1111 6255 Sur set Boulevard • Los Angeles, California 90028 • (213) 463-4444

ROSS AMERICAN LOGIC SYSTEMS 20540 D Superior St., Chatsworth, CA 91311

818 709-4195

Lamp-array displays for game shows, elections, telethons; computerized control light wall for theaters. Custom system design.

ROSS VIDEO LTD. 500 John St., Box 220, Iroquois, Ont., Canada K0E 1K0 613 652-4886

Portable, compact studio/mobile & large automated production switchers; postproduction switchers.

RPM/RADIO

PROGRAMMING/MANAGEMENT 25140 Lahser Rd. #232, Southfield, MI 48034

800 521-2537/in MI 313 358-1040 Syndicated radio programming; music

libraries.

RSCAN CORP. 511 11 Ave. S., Minneapolis, MN 55415 612 333-1424

Satellite weather displays, lightning tracking systems. Lang video-to-slide printer. Zephyr weather data service. Weather Sentinel services.

RTS SYSTEMS

1100 W. Chestnut St., Burbank, CA 91506 818 840-7313

Hardwired intercom systems, IFB systems. Preamps, line amps, monitor/power amps. Audio DAs, telco interface equipment.

RUSLANG CORP. 320 Dewey St., Bridgeport, CT 06605

203 384-1266 Studio furniture; studio consoles; equipment racks; cart/tape storage.

RUSSCO ELECTRONICS MFG. 5690 E. Shields Ave., Fresno, CA 93727 209 291-5591

Turntables, tonearms. Audio DAs. Preamps, power amps. Audio consoles. Telephone remote equipment.

SACHTLER CORP. OF AMERICA 400 Oser Ave., Hauppauge, NY 11788 516 231-0033

Camera tripods, heads, pedestals, ENG braces, dollies.

See ad on pg. 121. Circle No. 182.

SADELCO

75 W. Forest Ave., Englewood, NJ 07631 201 569-3323

TV signal level meters; white noise generators; meter repairs.

SAE/SCIENTIFIC AUDIO ELECTRONICS 1734 Gage Rd., Montebello, CA 90640

213 726-9999 Audio cassette player/recorders. CD/DAD players. Parametric equalizers. Preamps, monitor/power amps.

SAKI MAGNETICS 8650 Hayden Pl., Culver City, CA 90230 213 559-6704

Replacement audio & video ferrite heads for Ampex, MCI, Otari, ReVox & Scully recorders. Replacement 2-inch m etal heads for Ampex, MCI, Mincom, Otari & Studer Recorders

SAMSON PRODUCTS CORP. 124 Fulton Ave., Hempstead, NY 11550 516 489-2203

VHF wireless mic systems.

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

Audio cassette player/recorders; digital cassette recorders. CD/DAD players. Graphic equalizers. Preamps, line amps. VHS VCRs. Titlers, subtitlers. NTSC monitors. A/V signal processor & special efx generator. Digital clocks, timers.

Field Offices:

CA Len Gielarowski, 17150 S. Margay Ave., Carson 90746 213 604-7300 IL Paul Hirose, 2015 S. Arlington Hts. Rd. #112, Arlington Heights 60005

312 439-6320 TX Mark Smith, 13773 N. Central Expy. #1414, Dallas 75243 214 699-1964

SATCOM TECHNOLOGIES 2912 Pacific Dr., Norcross, GA 30071 404 448-2116

Transmit/receive & transportable satellite earth stations. Satellite network controllers.

SATELLEASE 223 W. Erie, Chicago, IL 60610 312 649-9339/800 323-1366

Satellite networking services; transmission/ reception services; satellite time brokers.

Compact

without Compromise

Studer 961/962: Small Wonder

It's a wonder how a console so small can do so much ... and sound so good!

The Swiss have a special talent for making great things small. A case in point: the new 961/962 Series mixers from Studer. In video editing suites, EFP vans, remote recording, and radio production, these compact Studers are setting higher standards for quality audio.

Sonic performance is impeccable throughout, with noise and distortion figures well under what you'd need for state-of-the-art digital recording. By refining and miniaturizing circuits developed for our 900 Series production consoles, Studer engineers have squeezed world-class performance into suitcase size.

The 961/962 Series is fully modular, so you can mix-and-match modules to meet your requirements. The 961/962 features stereo line level input modules with or without 3-band EQ, plus mono mic/ line inputs and master module with compressor/limiter. Other choices include a variety of monitor. talkback, auxiliary, and communication functions. The 961 frame holds up to 14 modules, the 962 accepts up to 20.

Other new features in the 961/962 Series include improved extruded guide faders, balanced insert points, FET switching, electronic muting, Littlite® socket, and multifrequency oscillator.

Thanks to its light weight, DC converter option, and sturdy transport cover, you can put a 961/962 mixer on the job anywhere. And, with Studer ruggedness and reliability, you can be sure the job will get done when you get there.

Packed with performance and features, 961/962 consoles will surely

make a big splash in audio production circles. Small wonder. Call your nearest Studer representative for more details.



With snap-on cover, mixer is road-ready in seconds.

Studer Revox America, Inc. 1425 Elm Hill Pike/Nashville, TN 37210/(615) 254-5651

New York (212) 255-4462 • Los Angeles (818) 780-4234 Chicago (312) 526-1660 • Dallas (214) 943-2239 San Francisco (415) 930-9866

Circle 179 on Reader Service Card

SATELLITE CONSULTANTS

Box 1509, Idaho Springs, CO 80452 303 567-4679

Engineering consultants; earth station site selection; mobile vehicle construction; satellite time brokers

SATELLITE MUSIC NETWORK Ь

12655 N. Central Expy. #600, Dallas, TX 75243

214 991-9200/800 527-4892

Live radio programming networks via satellite

SCALA ELECTRONIC CORP.

Box 4580, Medford, OR 97501 503 779-6500

FM, TV HP & CP, communications antennas STL & TSL antennas. Power dividers.

SCENE THREE 1813 Eighth Ave. S., Nashville, TN 37203 615 385-2820

Video & film production & post-production facilities; mobile production facilities; audio post-production facilities.

SCHAFER WORLD COMMUNICATIONS CORP. Box 31, Marion, VA 24354 703 783-2001

Mic mixers, portable, mono & stereo studio consoles, console automation. Randomaccess cartridges. Multi-deck cart player/ recorders. CD players, turntables, pickup arms. Relay sequencers, time insertion sequencers, computer automation controllers, automatic satellite switchers, complete program automation systems, automatic

New Class A

Winner

2....

Continental's Type 814B 4.3 kW FM

outstanding operating benefits. For a

PO Box 270879 Dallas, Texas 75227.

brochure, call (214) 381-7161. Continental

Electronics, a Division of Varian Assoc., Inc.

deliver a crisp, clean signal.

Transmitter uses the Type 802A Exciter to

time/weather announcers. Radio business automation systems.

Field Office:

VA Box 31, Marion 24354 703 783-2000

RON SCHILLER ASSOC. 140 Country Rd., Tenafly, NJ 07670 201 568-1552

Facilities design & engineering services; engineering consultants.

See ad on pg. 136. Circle No. 196.

SCHNEIDER CORP. OF AMERICA 400 Crossways Park Dr., Woodbury, NY 11797

516 496-8500

Ь

Camera lenses, filters, lens remote control. Equipment rental services; lens repair. **Field Office:**

See ad on pg. 45.	Circle No. 129
Newport Beach 92663	714 631- 74 30
CA Peter Mieke, 861	Production Pl.,

SCHWEM TECHNOLOGY

3305 Vincent Rd., Pleasant Hill, CA 94523 415 935-1226

Gyrozoom image stabilizing lens. See ad on pg. 108. Circle No. 172.

SCIENTIFIC-ATLANTA Box 105027, Atlanta, GA 30393 404 441-4000

Stereo generators, modulators. Transmit/ receive, receive-only & transportable satellite earth stations; upconverters, downconverters; LNAs; scrambling & encryption systems; MAC systems; satellite network controllers. SMATV systems. Rigid, foam dielectric & coaxial transmission line:

power dividers; RF connectors. Video test signal generators. TBCs, frame synchronizers, field/framestores, TBC/framestores. Optima cabinets, studio consoles, equipment racks.

See ad on pg. 123. Circle No. 183.

6 SCIENT FIC-ATLANTA/DIGITAL VIDEO SYSTEMS DIV.

120 Middlefield Rd., Scarborough, Ont., Canada N1S 4M6 416 299-6888

Sync, black burst, color bar & safe title area generators. TBCs, field synchronizers, frame synchronizers, field/framestores, TBC/ framestores. Encryption systems, MAC systems

See ad on pg. 126. Circle No. 187.

SCIENTIFIC SYSTEMS 92 Westwood Dr., Toms River, NJ 08753 201 255-2230

Audio preamps, line amps, monitor/power amps; audio DAs.

L.J. SCULLY MFG. CORP.

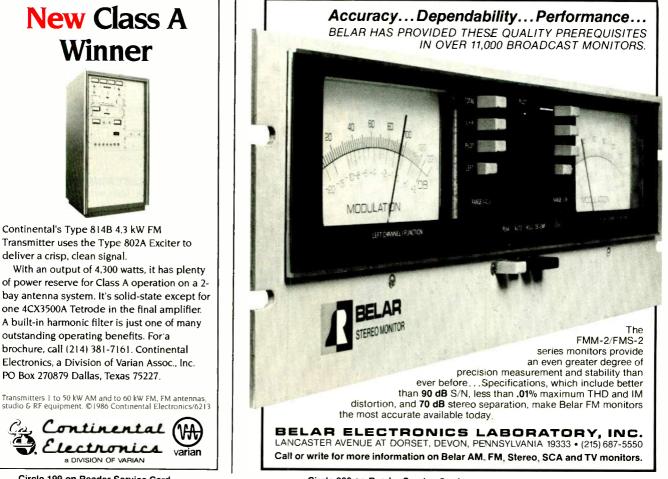
138 Hurd Ave., Bridgeport, CT 06604 203 368-2332 2-/4-track studio ATRs.

SCV

b

414 N. Sparks St., Burbank, CA 91506 818 843-7567

FM compressor/limiters; parametric & graphic equalizers. Analog efx, reverb. Preamps, line amps, amp power supplies. Telco interface equipment; audio multi boxes, splitters. Audio phase checker.



a DIVISION OF VARIAN Circle 199 on Reader Service Card

Continental

lectronic

4

Circle 200 on Reader Service Card



SEA-CAM 6080 S.W. 28 St., Miami, FL 33155 305 665-5694 Underwater video productions.

SELCO PRODUCTS CO.

 7580 Stage Rd., Buena Park, CA 90621

 714 521-8673

 VU & PPM meters.

 See ad on pg. 147.

 Circle No. 194.

SENCORE

3200 Sencore Dr., Sioux Falls, SD 57107 605 339-0100/800 843-3338

Audio & video test signal generators. Field strength meters, impedance bridges. Oscilloscopes, multimeters, dB meters.

6

SENNHEISER ELEC. CORP. 48 W. 38 St., New York, NY 10018 212 944-9440

Headphones. Mics: dynamic, electret/ condenser, RF, shotgun, lavalier & modular. Audio analyzers. Impedance bridges.

SENTRY SYSTEMS 2211 Fifth Ave., Seattle, WA 98121 206 728-8651

Computer automation controllers, automatic satellite switchers, complete program automation systems.

SESCOM 2100 Ward Dr., Henderson, NV 89015

702 565-3400 Mic mixers. ALC & AGC amps, parametric & graphic equalizers. Preamps, line amps, monitor/power amps. Audio DAs, audio patch panels & jackfields, audio multi boxes & splitters. LED displays.

SETCOM CORP.

1400 Stierlin Rd., Mountain View, CA 94043 415 965-8020

Headphones. Hardwired intercom systems.

SHALLCO

Smithfield Ind. Pk., Box 1089, Smithfield, NC 27577 919 934-3135

Daven/Shallco rotary attenuators, Slidex slide attenuators.

SHARP ELECTRONICS Sharp Plaza, Mahwah, NJ 07430 201 529-8731

ENG/EFP & single-tube cameras; recorder/ cameras. Professional Series VHS VCRs. NTSC, RGB & high-resolution video monitors; video projectors. Dynamic mics.

Field Offices:

 CA
 Gary Bridges, 20600 S. Alameda St., Carson 90810
 213 637-9488

 GA
 Ron Parker, 725 Old Norcross Rd., Lawrenceville 30245
 404 995-0717

 IL
 Paul Insco, 430 E. Plainfield Rd., Countryside 60525
 312 432-9292

SHINTRON CO. 144 Rogers St., Cambridge, MA 02142 617 491-8700/800 358-NTSC

Compact studio/mobile production switchers, post-production switchers, component switchers. Digital still store. Digital efx generators, compressor/positioners, colorizers, RGB & encoded chromakeyers, downstream keyers. Parallel & serial interface video routing switchers; component routing



Best Show on Wheels. The New Video 20

When you and your EFP camera are on the go, get maximum portability plus studio comfort with the Video 20 Pedestal System from Sachtler. A pneumatically supported center column with its pressurized balance system provides multiple load capabilities for smooth and precise on air movement. The steerable dolly assures equally smooth and precise tracking. Also, the Video 20 Pedestal can be combined with the Sachtler Semi-Dolly or used as a stable, stationary unit. For lightweight portability and professional results, the Video 20 Pedestal System proves itself a champion in action. Everywhere. Every time. Of course all Video 20 Pedestal System combinations come with Sachtler's guaranteed leakproof fluid heads for the ultimate in smooth, precise shooting.

That's what we are known for. Worldwide. For detailed information, please contact us.

Sachtler. The System.

Sachtler Corp. 400 Oser Avenue Hauppauge N. Y. 11788 Phone (516) 231–0033

3316 W. Victory Blvd. Burbank, CA 91505 Phone (818) 845-4446

Sachtler GmbH Dieselstr.16, D-8046 Garching/München, West Germany

Circle 182 on Reader Service Card

Pedestal System.



switchers SMPTE time code generator/ readers, SMPTE time code synchronizers, VITC reader/generators. Component frame synchronizers, NTSC TBC/framestores, standards converters. Video & audio DAs, subcarrier amps, audio routing switchers. Chroma Digital TBC/framestores.

SHIVELY LABS

85 Harrison Rd., Bridgton, ME 04009 207 647-3327

Diplexers, multiplexers. RF filters. loads, switches. Antennas: FM, TV HP & CP, antenna tuning units. Rigid & coaxial transmission line, power dividers, RF connectors. Directional couplers, AM/FM & AM/LPTV isocouplers, pressurization units, RF patch panels.

See ad on pg. 135.

Circle No. 173.

SHOOK ELECTRONIC ENTERPRISES 6630 Topper Pky., San Antonio, TX 78233 512 653-6761

Mobile vehicle construction.

SHURE BROS.

222 Hartrey Ave., Evanston, IL 60202 312 866-2200

Mic mixers, portable consoles. CD/DAD players; phono cartridges. Mics: dynamic, electret/condenser, PZM, lavalier, shotgun, stereo; mic booms & dollies. Preamps, line amps. Audio DAs, audio multi boxes & splitters. Surround Sound decoders.

See ad on pg. 13. See ad on pg. 122. Circle No. 107 Circle No. 181.



The alternative to our "double isolation" headsets.

The Shure SM1 and SM2 Headsets isolate you from sound in two exclusive ways.

First, these headsets use extra-large, pillow-soft ear pads for superior noise isolation and comfort. Second, they feature a noise-reducing mic, with a precision cardioid polar pattern, to leave background noises where they belong...in the background. The mic's tailored frequency response

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The SM2 is a dual-ear headset, the SM1— single. For complete information, write or call Shure Brothers Inc., 222 Hartrey Avenue, Evanston, IL 60202-3696. (312) 866-2553.





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See ad on pg. 116 - 117.

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Cat satellite network controllers, transmitter remote control systems, log printers, status/ alarm indicators. Facilities design & engineering services; engineering & computer consultants.

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Audio Products Dept.: Mic mixers, portable audio consoles, stereo studio consoles, console automation, audio-for-TV consoles; video interface for consoles. Audio cassette player/recorders. Portable, 2-/4-track & multitrack ATRs, audio layback system, center track time code recorder/reproducer. Digital audio recorders. SMPTE time code synchronizers; editors for digital audio. CD/ DAD players. Parametric equalizers. Digital efx, reverb. Monitor speakers. Electret/ condenser, RF, lavalier & shotgun mics; mic booms, dollies. Monitor/power amps.

Field Offices:

CA Robert Manahan, 2820 W. Olive Ave., Burbank 91505 818 841-8711 GA Andy Kryworuchenko, 2300 Peachford Rd., Atlanta 30338 404 451-7671 T. Katoh, 1020 Auahi St., Honolulu HI 808 531-5981 96814 IL David Doherty, 500 Park Blvd., Itasca 312 773-6046 60143 TX Charlie Taylor, 1320 Walnut Hill Rd., Irving 75038 214 659-3600 NY Lenny Staskiewicz (NY/NE)/Bob Combs (Mid-Atl.), 15 Essex Rd., Paramus 201 368-5111/5120 07652 See ad on pg. 2-3.

Circle No. 177. See ad on pg. 114 -115.

SONY MAGNETIC PRODUCTS CO. b 1 Sony Dr., Park Ridge, NJ 07656 201 930-1000

Audio cassettes. One-inch videotape, 3/4-inch & half-inch cassettes; industrial 8 mm

THE TEKTRONIX SPG-170A. **ITS FEATURES AND VALUE CAN'T BE MATCHED**

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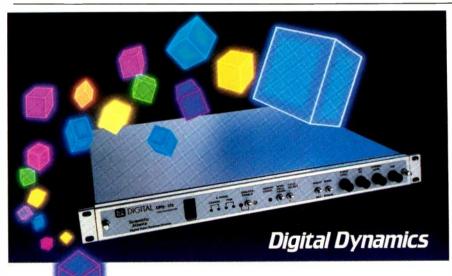
The 816R-5 is an outgrowth of Continental's popular 816R Series of 10, 20, 25 and 27.5 kW FM transmitters. It uses husky components and is built to give many years of reliable, dependable service.

For brochure and operating data, call (214) 381-7161. Continental Electronics, a Division of Varian Assoc., Inc. PO Box 270879 Dallas, Texas 75227.

Transmitters I to 50 kW AM and to 60 kW FM, FM antennas studio & RF equipment ©1986 Continental Electronics/6210

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Circle 186 on Reader Service Card



DPS-175 TBC/Framestore

Crystat vision framestore and full-featured TBC... all in a single rack unit. The DPS-175's 525-line buffered memory freezes frames or fields of incoming monochrome, heterodyne or direct color with a 3.58 MHz feedback to tape source. And you get TBC with wide dynamic tracking range of -1 to +3 and clear viewing up to $\pm 30X$ play speed.

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MEANS

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Engineering systems designer & installer.

SOUNDOLIER

1859 Intertech Dr., Fenton, MO 63026 314 962-9870

Monitor speakers; PageKom hardwired intercoms. Select Series cabinets, studio consoles, equipment racks. Audio transformers

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Audio test tapes, leaders. Audio test signal generators, harmonic distortion meters, IM meters, spectrum analyzers, tape recorder/ audio test systems, wow & flutter meters, MTS test equipment; automated audio switching system for T&M.

Field Offices:

NC Robert Millice, POB 221972, Charlotte, NC 28222 704 542-3380

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1324 Motor Pkwy., Hauppauge, NY 11788 516 582-6210

Stereo studio & audio-for-TV consoles, console automation, serial video interface for consoles

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Mic mixers, portable consoles, mono studio consoles ALC & AGC amps. AM & FM compressor/limiters, parametric & graphic equalizers Monitor speakers Lavalier mics Preamps, line amps, monitor/power amps, amp power supplies Slide attenuators VU meters LED audio level displays Studio consoles, equipment racks RF test signal generators

SPECTRUM PLANNING

1850 N. Greenville #122, Richardson, TX 75206

214 361-2126

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SPENCER BROADCAST

316 E. El Camino Dr. N.E., Phoenix, AZ 85020 602 242-2211

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3099 Science Park Rd., San Diego, CA 92121

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VTR replacement heads; guad head refurbishing

6 SPRAGUE MAGNETICS 15720 Stagg St., Van Nuys, CA 91406 800 553-8712/818 994-6602

Replacement & rebuilt audio & video heads. audio & video head cleaners, degaussers. alignment & tension gauges Audio test tapes & leaders, tape erasers & degaussers Splicing blocks & tape Record cleaning & care equipment

STAGE LIGHTING DISTRIBUTORS See SLD

STAINLESS, INC. Third St., N. Wales, PA 19454 215 699-4871 Antenna towers See ad on pg. 124. Circle No. 184.

STANCIL CORP.

921 N. Highland Ave., Hollywood, CA 90038 213 464-7461 Tape-based loggers

STANDARD COMMUNICATIONS CORP.

Box 92151, Los Angeles, CA 90009 213 532-5300

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Phono cartridges, record cleaning & care equipment Dynamic microphones Preamps Announcer's earphone. pre-preamps

STANTRON/UNIT OF ZERO CORP. 6900 Beck Ave., N. Hollywood, CA 91605 213 875-0800

Cabinets, studio consoles, equipment racks, cart/tape storage See ad on pg. 120.

Circle No. 180.

b

STAR CASE 648 Superior, Munster, IN 46321 219 922-4440

Foam-insert & rack configuration transportation cases

STARFAX

6

8157 Lankershim Blvd., N. Hollywood, CA 91605

818 768-2905

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b STEENBECK 9554 Vassar Ave., Chatsworth, CA 91311 818 998-4033

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STOREEL CORP.

2050-C Chamblee-Tucker Rd. #2, Box 80523, Atlanta, GA 30341 404 458-3280

Stor-Max & Railriders high-density storage cabinets; mobile & static audio cart cabinets. See ad on pg. 146. Circle No. 241.

Ь **STRAIGHT WIRE AUDIO** 2611 Wilson Blvd., Arlington, VA 22206 800 368-2081/703 522-7780

Amplifiers for upgrading & customizing audio cart machines. Audio DAs, CD players. SpeedDemon variable speed controller for CD players Phono preamps, line amps, amp power supplies. Wall plug transformers

STRAND LIGHTING 18111 S. Santa Fe Ave., Rancho Dominguez, CA 90221 213 637-7500

Lamps, HMI & CSI fixtures, quartz fixtures. Sirio Ianiro Fresnels, Iris cyc lights, diffusion & efx material, lighting stands & rigging, Light Palette & Mantrix lighting control boards, dimmer packs. Solid state HMI ballasts

Field Offices:

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N.L 20 Bushes Ln., Elmwood Park 07407 201 791-7000 CAN 6490 Viscount Rd., Mississauga Ont 14V 1H3 416 677-7130

STUDER REVOX AMERICA 1425 Elm Hill Pike, Nashville, TN 37210 615 254-5651

Portable, mono & stereo studio, audio-for-TV consoles Audio cassette player/recorders





The Dictaphone 5600 Veritrac[™] voice communication recording system is a complete broadcast recordingretrieval system that lets your radio station keep its entire broadcast day on the record. In one dependable unit you get around-the-clock verification that you're running your advertiser's spots on schedule and meeting all your FCC requirements. So if they ask for proof, you've got it all there on tape, ready for quick retrieval and replay.

Tune into the Dictaphone 5600 Veritrac logger. And never get your signals crossed again.

coupon 1-80 Or mail to	e information, fill in the or call toll-free: OBM/E 86 D-342-8439 D: Dictaphone Corporation, ost Road, Rye, NY 10580
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A Pitney Bowes Company Circle 188 on Reader Service Card BM/E AUGUST 1986 127 Portable ATRs, 2-/4-track studio & multitrack ATRs. Digital audio recorders. Electronic audio editors, SMPTE time code synchronizers. CD/DAD players. Monitor speakers. Monitor/ power amps. Telco interface equipment.

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CA Thomas Jenny/Vencil Wells, 14046 Burbank Blvd., Van Nuvs 91401 818 780-4234

CA Fred Layn, 954 Hawthorne Ave., Wal-415 930-9866 nut Creek 94596 Brian Tucker, 111 South Dr., Tower Lake, H. Barrington 60010 312 526-1660 Nick Balsamo, 155 Ave. of the Ameri-NY cas, New York 10013 212 255-4462 TX Chris Ware, 831 Woodlawn Ave., Dallas 214 943-2239 75208 Circle No. 179. See ad on pg. 118.

STUDIO FILM & TAPE

6670 Santa Monica Blvd., Hollywood, CA 90038

213 466-8101 Kodak, Agfa, Ampex, TDK videotape & film.

STUDIO TECHNOLOGIES 5520 W. Touhy Ave., Skokie, IL 60077 312 676-9177

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Field Office:

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SYMETRIX 4211 24 Ave. W., Seattle, WA 98199 206 282-2555

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he FCS-30/C features a column mount to support a 3/1, 3-tube color camera and self contained 3200°K lighting.

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Audio cassette recorder/players; 2-/4-track studio ATRs; CD players; preamps, monitor/ power amps; tuners & receivers. Audio cable

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TASCAM

7733 Telegraph Rd, Montebello, CA 90640 213 726-0303

Mic mixers; portable, stereo studio & audiofor-TV consoles; audio cassette player/ recorders; 2-/4-track studio ATRs; multitrack ATRs; audio cassettes, test tapes & leaders, empty reels & carts, tape erasers & degaussers; digital efx & reverb; electret/ condenser mics; line amps. Audio & video cable, cable connectors, jackfields & patch panels. Circle No. 113.

See ad on pg. 25.

TBA TECHNOLOGY Box 302, Walnut Creek, CA 94596

415 932-8134 Magic Lantern HMI & CSI fixtures; Imagine

lighting control boards.



TBS FIELD OPERATIONS

1050 Techwood Dr., Box 105264, Atlanta, GA 30348 404 827-1746

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516 625-0100

Open-reel audio tape, audio cassettes, empty reels & carts, head cleaners, tape erasers & degaussers. Video head cleaners & degaussers, half-inch videocassettes.

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► The Flatest Frequency Response ► Dramatically Increased Tape Life

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2006 cartridge. This is the most important design advance in 10 years of cartridge technology, and in combination with our new ARISTOCART HOLN 2006 tape gives you the finest tape/cart combination available today. We quarantee it.

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If any ARISTOCART cartridge should fail to meet NAB AM/FM performance specifications on a properly aligned cart machine, we will replace it at our sole expense





Circle 226 on Reader Service Card

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6 TECH ELECTRONICS 6000 Peachtree Rd. N.E., Atlanta, GA 30341

404 455-7626

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Audio cassette player/recorders. Reel-toreel ATRs. CD/DAD players, turntables, tonearms. Audio equalizers. Monitor speakers. Preamps, monitor/power amps.

TECHNISPHERE CORP.

29 E. 19 St., New York, Ny 10003 212 777-5100

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TECHNOLOGY SERVICE CORP. 2950 31 St., Santa Monica, CA 90405 213 450-9755

Weather graphics displays, satellite displays, radar displays.

TECHNOV INDUSTRIES 3974 Amboy Rd., Staten Island, NY 10308 718 356-4700

Portable production switchers; two-machine editor/controllers: sync & black burst generators; NTSC decoders; video DAs.

TECHPON 1718 W. Mishawaka Rd., Elkhart, IN 46517

219 294-8300 Audio test signal generators, spectrum analyzers.

TECTAN

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1216 Alamo Way, Pittsburg, CA 94565 415 458-5500

Diplexers, multiplexers.

TEKSKIL INDUSTRIES

#108 15290 103A Ave., Surrey, BC, Canada V3R 7A2 604 589-1100

Monitor-based, scroll entry, keyboard entry & ENG/EFP portable teleprompters.

TEKTRONIX Box 500, M/S 58-699, Beaverton, OR 97077 503 627-2230

Video sync, black burst & color bar generators. TBCs, field synchronizers, frame synchronizers, field/framestores, TBC/ framestores. NTSC decoders, comb filter decoders. NTSC, RGB & high-resolution video monitors. Photometers.

Audio test signal generators, harmonic

distortion meters, spectrum analyzers, MTS test equipment. Video test signal generators, waveform monitors, vectorscopes, combination waveform/vectorscopes, blanking width meters & displays, burst phase meters. Demodulators, modulation monitors, Oscilloscopes, delayed sweepscopes, voltmeters, multimeters, dB meters, logic analyzers.

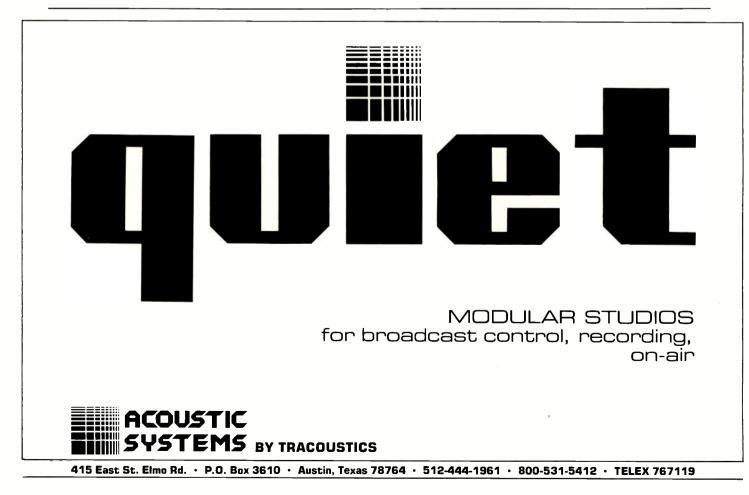
Field Offices:

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AL Jim Edwards, 4900 Corporate Dr. #H, Huntsville 35805 205 830-9212 CA Chris Davies, Box 19523, Irvine 92713 714 660-8080 CA Rich Lyons, Box 8500, Woodland Hills 91365 818 999-1711 CA John Nielson, 3451 Vincent Rd., Pleasant Hill 94523 415 932-4949 CO John Kelley/Ron Barnes, 393 Inverness Dr. S., Engelwood 80112 303 799-1000 FL Dave Walters, 3657 Maguire Blvd. #100, Orlando 32803 305 894-3911 GA Dick Walters/Paul Hogan, Box 6500, Norcross 30091 404 449-4770 IL Mel Infanzon, 5350 Keystone Ct., Rolling Meadows 60008 312 259-7580 IN Steve Brant, 8751 Weslevan Rd., Indianapolis 46268 317 872-3708 MD Jim Capps, Box 6026, Gaithersburg 20877 301 948-7151 MA Tom Christenson, 482 Bedford St., Lexington 02173 617 861-6800 NJ Jim Quinn, 40 Gill Ln., Woodbridge 07095 201 636-8616 NY Bhaskar Pant, 100 Crossways Park W., Woodbury 11797 516 364-9060 NY Bill Denne, 1 Northern Concourse, N. Syracuse 13212 315 455-6661



OR Warren Beals, 10220 S.W. Nimbus Dr. Portland 97223 503 620-9100 PA Tom Jordan, 450 Sentry Pky., Blue Bell 19422 215 825-6400 PA Ken Kinman, 1051 Brinton Rd. #300, Pittsburgh 15221 412 244-9800 TX Austin Basso, Box 165027, Irving 75016 214 550-0525 Circle No. 121.

See ad on pg. 37. See ad on pg. 125.

TELCOM RESEARCH

1163 King Rc7, Burlington, Ont., Canada L7R 3X5 416 681-2450

SMPTE time code generator/readers; VITC reader/generators. See ad on pg. 131.

Circle No. 190.

Circle No. 185.

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TELECTRO SYSTEMS CORP. 96-18 43 Ave., Corona, NY 11368 718 651-8900

Audio cassette player/recorders; open-reel audio tape; monitor speakers; hardwired intercoms; amp power supplies.

TELEDYNE ACOUSTIC RESEARCH 330 Turnpike St., Canton, MA 02021 617 821-2300 Turntables; monitor speakers

TELEDYNE ENERGY SYSTEMS 110 W. Timonium Rd., Timonium, MD 21093 301 252-8220 Telan power generators.

TELE EDIT 10 S. Fifth St. #640, Minneapolis, MN 55402 612 333-5480 Video post-production facilities

TELE-IMAGE

6305 N. O'Connor LB 6, Irving, TX 75039-3510 214 869-0060

Video production & post-production facilities; mobile production facilities rental.

TELEMATION PRODUCTIONS/ DENVER

7700 E. Iliff, Denver, CO 80231 303 751-6000

Video production & post-production facilities; mobile production facilities; equipment rental services

Field Offices:

AZ 834 N. Seventh Ave., Phoenix 85007 602 254-1600

WA 1200 Steward St., Seattle 98112 206 623-5934

TELEMET, DIV. GEOTEL 185 Dixon Ave., Amityville, NY 11701 516 842-2300

RGB & encoded chromakeyers. Parallel interface video routing switchers. Color bar generators. NTSC decoders, comb filter decoders, video/cable equalizers. Video & audio DAs, pulse amps. Modulators; fiberoptic systems. Spectrum analyzers; video test signal generators, diff. gain/phase meters; stereo/quadrature demodulators, sideboard analyzers

TELEMETRICS 7 Valley St., Hawthorne, NJ 07606 201 423-0347

Standalone CCUs, lens remote control systems. Cranes & jibs, remote pan/tilt systems.

TELEPAK SAN DIEGO 4783 Ruffner St., San Diego, CA 92111 619 268-8559 Padded nylon transportation cases.

TELEPROMPTERS ARE US 325 W. 56 St., New York, NY 10019 212 582-5066 Teleprompter rental service.

TELESCRIPT 445 Livingston St., Norwood, NJ 07648 201 767-6733 Monitor-based teleprompters.

TELESIS PRODUCTIONS

277 Alexander St. #600, Rochester, NY 14607 716 546-5417 Video post-production facilities

TELESOURCE COMMUNICATION SERVICES

730 E. Highland Ave., Phoenix, AZ 85014 602 265-1232

Radio & TV newsroom computers

TELETECH Box 924, Dearborn, MI 48121 313 562-6873

RF consulting for AM/FM/TV transmission: turnkey transmission system construction; contract engineering; application preparation

TELEVISION ASSOCIATES

2410 Charleston Rd., Mountain View, CA 94043

415 967-6040

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Video production & post-production facilities; mobile production facilities rental; crea-



You're all set with the Toshiba full-auto PK-501.

Making great programs takes many things. A talented cast, good script, reliable staff and careful coordination are vital. The camera you use is also quite important because it decides just how

> creative and efficient production will be. Our 2/3-inch tube PK-501 color TV camera excels in studios and the

field. It delivers remarkable picture quality while freeing the operator to concentrate on creativity with full-auto ease. Automatic functions include microprocessor-controlled digital scan registration and multiple real-time correction for high-resolution picture quality. Operating ease and program production capabilities are enhanced by the common

*PK-50 Series Camera Control Unit (CCU) and versatile Master Control Panel (MCP). The Toshiba PK-501. It expands creativity and picture quality with ease.

...Three...Two...One...Go for exciting camera action

*2/3-inch tube PK-501, 1-inch tube PK-502 and 1-1/4-inch tube PK-503



ELECTRONIC SYSTEMS DEPARTMENT 1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO, 105, JAPAN TELEX: J22587 TOSHIBA CABLE: TOSHIBA TOKYO PHONE: 457-3246-8

Circle 192 on Reader Service Card

tive services/preproduction; equipment rental services; facilities design & engineering services.

TELEVISION ENGINEERING CORP.

580 Goddard Ave., Chesterfield, MO 63017 314 532-4700

Mobile vehicle construction; engineering consultants.

TELEVISION EQUIPMENT

ASSOCIATES Box 393, S. Salem, NY 10590 914 763-8893

Racal headsets & hardwired intercoms. Elcon videotape cleaners & evaluators. Matthey video delay lines, filters, video/cable equalizers, video DAs. IRT monitor calibrators.

Field Office:	
CA	213 271-9570

See ad on pg. 137.

TELEVISION TECHNOLOGY CORP. See TTC

b **TELEX COMMUNICATIONS** 9600 Aldrich Ave. S., Minneapolis, MN 55420

612 882-4051

Tape duplicators. Audiocom hardwired intercoms. Dynamic, electret/condenser, RF & lavalier mics. Tape-based loggers.

TELFAX COMMUNICATIONS 502 Bank St., Box 31, Webster City, IA 50595

515 832-1263

Mic mixers, portable consoles. Audio routing switchers, telco interface equipment.

TEMTRON ELECTRONICS LTD. 15 Main St., Box 170, E. Rockaway, NY 11518

516 599-6400/800 645-2300

Distributor of audio mixers, mics, camera pickup tubes, single-tube color cameras, CRTs for studio monitors, Fuji quartzhalogen lamps, RF tubes, color analyzers, color pattern generators, video test signal generators, waveform monitors, vectorscopes, burst phase meters.

TENNAPLEX SYSTEMS 452 Five Farms Ln., Timonium, MD 21093

301 561-1999

Broadband FM & TV HP panel antennas

TENTEL CORP.

1506 Dell Ave., Campbell, CA 95008 408 379-1881

Tentelometer tape tension gauges. Head tip protrusion gauge, spindle height & alignment gauges

TEPCO CORP. Box 680, Rapid City, SD 57709 605 343-7200

Jones FM translators; VHF translators. RF amps, filters.

TERMINAL SYSTEMS CORP. 901 Columbia Circle, Merrimack, NH 03054

603 424-5033

Acorn radio & TV newsroom software for IBM computers. Election day newsroom system rentals

TEXAS ELECTRONICS Box 7225, Dallas, TX 75209

214 631-2490 Weather instruments.

TEXSCAN CORP.

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b

Circle No. 198.

3102 N. 29 Ave., Phoenix, AZ 85076 602 252-5021

Parallel machine control & automation, automated commercial insertion; subcarrier & teletext data decoders; video & audio DAs; weather information digital displays; character generators: business automation hardware & software.

Field Offices:

IN 3169 N. Shadeland Ave., Indianapolis 46226 317-545-4196 TX 1440 Goodyear Dr., El Paso 79936 800 351-2345

UT 3855 S. 500 West #S, Salt Lake City 84115 801 262-8475

TEXWIPE

650 E. Crescent Ave., Upper Saddle River, NJ 07458

201 327-9100

Texswabs & Wetswab audio & video head cleaners

3090 Oakmead Village Dr., Santa Clara, CA 95051

408 727-7272

TFT

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EBS two-tone systems. AM stereo exciters; intercity microwave systems; transmitter remote control systems; STLs, TSLs; FM, AM & TV SCA equipment. MTS test equipment; modulation monitors, frequency monitors & controllers.

THEATRE SERVICE & SUPPLY 1792 Union Ave., Baltimore, MD 21211 301 467-1225

Lamps, HMI & CSI fixtures, quartz fixtures, cyc lighting, diffusion & efx material, lighting stands & rigging, lighting control boards, dimmer packs. Curtains, scenery rigging, props, materials.

THERMODYNE INTERNATIONAL 20850 S. Alameda St., Long Beach, CA 90810 213 603-1976

Foam insert & rack configuration transportation cases.

THIRD COAST VIDEO 501 North I. H. 35, Austin, TX 78702

512 473-2020

Video production & post-production facilities; mobile production facilities rental.

THOMSON BROADCAST 37 Brownhouse Rd., Stamford, CT 06902 203 965-7000

Field & ENG cameras; recorder/cameras. Betacam VCRs. Solid state telecine systems, telecine color correctors. Vidifont character generator/graphics systems, Graphic Store digital art/paint system, Vidifex 3D modeling & manipulation. Weather graphics displays. Digital production switchers.

Field Offices:

AL Phillip J. Smith, 5016 Northumberland Dr., Birmingham 35210 205 956-4932 CA Michael W. Clayton, 517 Prospect Terr., Pasadena 91103 818 849-2188 FL Martin J. McGreevy, 5778 Grande Lagoon Blvd., Pensacola 32507

904 492-0666

MN Louis J. Kesten III,	4022 Howell Ferry
Rd., Duluth 30136	
NJ Robert J. Grassi,	T-8 Avon Dr., E.
Windsor 08520	609 448-4307
NY Thomas P. Moore,	104 Oakridge Dr.,
Solvay 13209	315 487-6710

THOMSON ELECTRON TUBES \mathbf{b} & DEVICES

Box 6500, Dover, NJ 07801 201 328-1400

Camera pickup tubes. RF tubes. Vacuum tubes

THOMSON-LGT

1, Rue de l'Hautil, Zone des Boutries, F78700 Conflans Ste. Honorine, France 33.3

34.90.31.00/Telex 696.833 F

FM, VHF, UHF & LPTV transmitters; translators. FM & TV exciters, stereo generators, diplexers, multiplexers. Receive-only earth stations FM, TV HP & TV CP antennas. Power dividers.

Field Office:

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NJ Jerry E. Smith, 3 Tamarac Ln., Medford 08055 609 654-5935

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TIFFEN MFG. CO.

90 Oser Ave., Hauppage, NY 11788 516 273-2500 Lens filters

TIMES FIBER COMMUNICATIONS 358 Hall Ave., Box 384, Wallingford, CT 06492

203 265-8500

Rigid, feam dielectric & coaxial transmission line. Video cable.

b TMD, DIV. WILL-BURT CO. Box 900, Orrville, OH 44667

216 682-7015

Telescoping antenna masts. See ad on pg. 151. Circle No. 249.

TOA ELECTRONICS

480 Carleton Ct. S., San Francisco, CA

94080 415 588-2538

Portable recording consoles.

Field Office: CAN 10712 181 St., Edmonton; Alta. T5S

1K8 408 489-5511 TODAY VIDEO

45 W. 45 St., New York, NY 10036 212 391-1020

Video production & post-production facilities

TORPEY CONTROLS &

ENGINEERING

98-2220 Midland Ave., Scarborough, Ont., Canada M1P 3E6 416 298-7788

Digital clocks, timers, complete analog & digital clock/timing systems. Central digital thermometer.

6 **TOSHIBA AMERICA** 2441 Michelle Dr., Tustin, CA 92680 714 730-5000

Studio, field & ENG cameras. Production switchers. Digital effects processors. Frame synchronizers. Audio/video delay systems. See ad on pg. 132. Circle No. 192.

TOTAL SPECTRUM MANUFACTURING See TSM

MEANS

TOWNSEND ASSOCIATES 79 Mainline Dr., Westfield, MA 01085 413 568-9581

VHF, UHF, LPTV & MDS transmitters; translators. TV exciters, stereo generators, diplexers, multiplexers. RF amps, tubes, filters, loads, switches. TV HP & CP antennas. Rigid, foam dielectric & coaxial transmission line; power dividers, RF connectors. Transmitter remote control systems. STLs, TSLs. Television transmitter installations.

TPC COMMUNICATIONS Production Plaza, Sewickley, PA 15143 412 771-4700

Video production & post-production facilities; mobile production facilities rental.

TRANS-AMERICAN VIDEO/TAV

1541 N. Vine St., Hollywood, CA 90028 213 466-2141

Video production & post-production facilities.

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TRANSMISSION STRUCTURES

Box 907, Vinita, OK 74301 918 256-7883 Towers

TRIDENT USA

303 N. Stanley Ave., Los Angeles, CA 90036

213 933-7555 Storeg, studio, co

Stereo studio consoles, Optimix console automation.

TRI-EX TOWER CORP.

7182 Rasmussen Ave., Visalia, CA 93291 209 651-2171

Tower masts, rigging, hardware, lighting

TROMPETER ELECTRONICS

8936 Comanche Ave., Chatsworth, CA 91311

213 882-1020

Audio patch panels, jackfields. Video patch fields. Coaxial transmission line, RF connectors. Video cable, cable connectors.

TSM/TOTAL SPECTRUM MANUFACTURING

20 Virginia Ave., W. Nyack, NY 10994 914 358-8820

Titling stands, color graphics stands; camera pan/tilt systems; MultiController camera motion control system; Monobrace camera stabilizing system; ENG accessories.

See ad on pg. 128. Circle No. 189.

TTC/TELEVISION TECHNOLOGY CORP. 2360 Industrial Ln., Box 1385, Broomfield, CO 80020-8385

303 465-4141 Wilkinson AM & FM transmitters, FM exciters, diplevers, recijiers, surge protectors, TTC

diplexers, rectifiers, surge protectors. TTC VHF, UHF (Silverline) & LPTV transmitters, translators, modulators, STLs & TSLs. Ampro mono & stereo studio consoles, single-deck cart player/recorders, rotary & slide attenuators. Scully dual-/triple-deck cart player/ recorders, 2-/4-track & multitrack ATRs.

TTE 2233 S. Barry Ave., W. Los Angeles, CA 90064

213 478-8224 Video delay filters; transformers.

TUI COMPUTER SERVICES

Trademark Square III, Metro Center, 240 Great Circle Dr., Nashville, TN 37228 615 242-4477

Newstech software for TV newsrooms.

TURNER ENGINEERING 14 Morris Ave., Mountain Lakes, NJ 07046 201 263-1000

Facilities design & engineering services; engineering consultants; mobile vehicle construction. Studio consoles.

TVC VIDEO

225 E. 43 St., New York, NY 10017 212 397-8600

Video production & post-production facilities; audio post-production facilities; film-totape transfers.

TVI

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5426 Fair Ave., N. Hollywood, CA 91601 818 769-0928

Distributor of hardwired intercoms, lighting equipment, support equipment, cases, tower masts. Equipment rental services, studio design services.



In the business of professional audio, new products and ideas are being applied to expand the boundaries of creativity.

ART products are being used creatively in a growing number of studios, commercial installations, touring companies and broadcast/postproduction facilities. This is the result of our dedication to the professional audio industry - providing quality high technology performance.

When you're in a demanding audio situation, keep in mind that ART products are designed to help you achieve superior results with ease and reliability.

ART brings talent and technology together to produce excellence in audio.

We remain devoted to the art of professional audio...today and tomorrow.

Applied Research & Technology Inc. 215 Tremont Street Rochester, New York 14608 (716) 436-2720

DR1 DIGITAL REVERB
 01A DIGITAL REVERB
 DR20 DIGITAL REVERB
 1500 DIGITAL DELAY
 1/3 OCTAVE EQUALIZER
 2/3 OCTAVE EQUALIZER
 PITCH TRANSPOSER PACKAGE

TYLER CAMERA SYSTEMS

14218 Aetna St., Van Nuys, CA 91401 818 989-4420

Camera stabilizing systems, helicopter rigs.

UHER OF AMERICA 7067 Vineland Ave., N. Hollywood, CA 91605

818 764-1120 Audio cassette player/recorders. Portable open-reel ATRs.

UHF ASSOCIATES

5625 State Farm Dr. #4, Rohnert Park, CA 94928 707 584-7844

Video filters. Modulators. RF filters.

6 ULTIMATE SUPPORT SYSTEMS

Box 470, Ft. Collins, CO 80522 303 493-4488 Ultimate lighting stand

ULTIMATTE CORP.

18607 Topham St., Reseda, CA 91335 818 345-5525 Ultimatte, Newsmatte RGB chromakeyers. See ad on pg. 147. Circle No. 193.

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ULTRA AUDIO PIXTEC, DIV. AUDIO INTL Box 921, Beverly Hills, CA 90213

213 651-5563

Mic mixers; portable, studio, audio-for-TV consoles. Single & multiple cart player/ recorders. Phase control matrixing. Replacement audio heads. Alignment & tension gauges. Bulk erasers, splice finders. Complete program automation systems.

UNION CONNECTOR CO. 300 Babylon Tpk., Roosevelt, NY 11575

516 623-7461 Digi 1 & 2 lighting control boards. Unitrol dimmer packs. Lighting/ac cable, cable connectors, jackfields, patch panels

UNI-SET CORP.

449 Ave. A, Rochester, NY 14621 716 544-3820 Modular studio/set design

UNITED MEDIA 4075 Leaverton Ct., Anaheim, CA 92807

714 630-8020

Time code synchronizers, two-machine editor/controllers, Comm-Ette A/B roll editors; Commander II & Mini-Comm multisource editors; SMPTE time code generator/readers. Parallel & serial interface video routing switchers, vertical interval systems

UNITED PRESS INTERNATIONAL 220 E. 42 St., New York, NY 10017 212 850-8600

Wire services, radio news networks, photo services

UNITED RESEARCH LAB 16 E. 52 St., New York, NY 10022 212 751-4663

Auto-Tec solid state conversion for tube amplifiers. Distributor of full line professional audio equipment

6

UNITED ROPEWORKS (U.S.A.) Box 306, 20 Commerce Dr., Montgomeryville, PA 18936 215 368-6611

Nonmetallic, electrically transparent tower auvs

UNITEL VIDEO 515 W. 57 St., New York, NY 10019 212 265-3600

Video production & post-production facilities; mobile production facilities rental; recording studios; teleconferencing services.

UNIVERSAL ELECON 903 S. Lake St. #102, Burbank, CA 91502 818 846-6220

Component production switchers; title keyers; parallel interface video routing switchers; multisource video editors; SMPTE time code generator/readers; frame synchronizers. Nicad batteries & chargers. MTS stereo generators, TV modulators; TV IF modulator; RF converters. MTS test equipment.

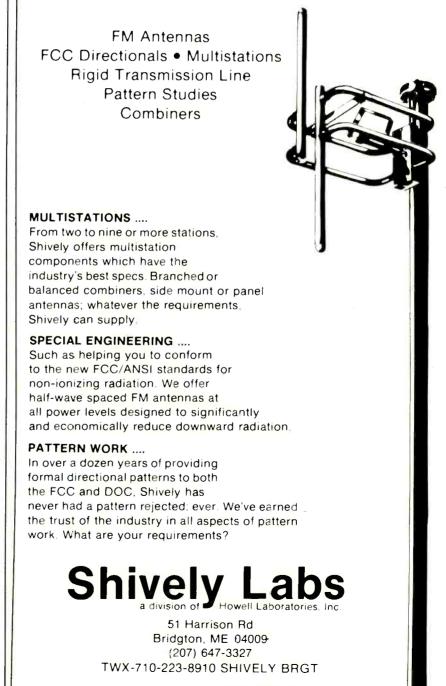
URSA MAJOR See AKG

UTAH SCIENTIFIC

1685 W. 2200 South, Salt Lake City, UT 84119

800 453-8782/801 973-6840

Manual, automated & business automation interfaced master control switchers, serial interface routing switchers; serial interface machine control/technical automation. Audio & video DAs; audio routing switchers. See ad on pg. 109. Circle No. 195.



call or write for more information

Circle 173 on Reader Service Card

UTILITY TOWER CO.

Box 12369, Oklahoma City, OK 73157 405 946-5551

Tower masts, rigging, hardware & construction equipment; tower lighting.

VACUUM TUBE IND. Box 2009, Brockton, MA 02403 617 584-4500 RF tubes; vacuum tubes.

See ad on pg. 150. Circle No. 247.

VALENTINO MUSIC LIBRARY 151 W. 46 St., New York, NY 10036 212 869-5210/800 223-6278

Production music library.

VALLEY	PEOPI	E			V
Box 4030	6, 2817	Erica	ΡΙ.,	Nashville,	TΝ

37204 615 383-4737

Audio console automation. ALC & AGC amps, AM & FM compressor/limiters; Maxi Q parametric equalizer; Kepex & Gatex audio noise reduction; mic preamps; audio level matching interface.

VANNER

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745 Harrison Dr., Columbus, OH 43204 614 272-6263

Ac/dc converters, inverters.

VARIAN, EIMAC DIV. 301 Industrial Way, San Carlos, CA 94070 415 592-1221

RF amps, RF tubes. Vacuum tubes, RF cavities.

RON SCHILLER ASSOCIATES BROADCAST SYSTEMS CONSULTANTS 140 COUNTY ROAD TENAFLY, NJ 07670 201-568-1552 201-567-9279

Engineering for today <u>and</u> tomorrow.

Radio Television Post Production Multi-Media

Business Analysis Market Analysis Project Planning Facilities Design

Operations Effectiveness

Cost Control Transmission Quality Technical Efficiency

New Technologies

Transmission Systems Control Systems Data Management

Projects impact the bottom line. Shouldn't you ensure they have a profitable impact?

Field Offices:

AL 500 Wynn Dr., N.W. #302, Huntsville 35816-3429 205 837-9225 CA 818 Oak Park Rd., Covina 91724 818 967-3834 CA 6375 Auburn Blvd. #N, Citrus Heights 916 725-7989 95621 FI 1240A Clearmont St. N.E. #1, Palm Bay 32905 305 767-3183 GA 106 Olympia Dr. #D, Warner Robins 31093 912 922-2202 IL 205 W. Touhy Ave., Park Ridge 60068 312 825-6686 MA 83 Second Ave., Burlington 01803 617 272-8532 939 Elk Ridge Landing Rd. #195, MD Linthicum 21090 301 850-5010 NJ 25 Commerce Dr., Cranford 07016 201 276-9050 NJ 307 Fellowship Rd. #100, Mt. Laurel 08054 609 235-6800 NY 2504 Brewerton Rd., Syracuse 13211 315 455-2810 4130 Linden Ave. #255, Dayton 45432 OH 513 258-3930 TX 13531 N. Central Expy. #2343, Dallas 75243 214 235-2385

VARIAN MICROWAVE Equipment div.

3200 Patrick Henry Dr., Santa Clara, CA 95050

408 496-6273 Klystrons; high power amplifier klystrons.

VARIAN, MICROWAVE TUBE

611 Hansen Way, Palo Alto, CA 94303 415 493-4000

UHF-TV klystrons, satellite uplink klystrons, studio transmitter communications reflex klystrons.

VARICOM

350 Townsend St., San Francisco, CA 94107

415 543-7218 TV business automation software.

VARITEL VIDEO

350 Townsend St., San Francisco, CA 94107

415 495-3328 Video post-production facilities; mobile production facilities rental.

VCA TELETRONICS 231 E. 55 St., New York, NY 10022

212 355-1600 Video production & post-production facili-

ties; mobile production a post-production facilipost-production facilities; facilities design & engineering services; engineering consultants.

VECTOR TECHNOLOGY 203 Airport Rd., Doylestown, PA 18901 215 348-4100

Diplexers, traps; RF loads, switches; antenna tuning units. RF phasing equipment. Mica transmitting capacitors.

VECTRIX CORP.

2606 Branchwood Dr., Greensboro, NC 27408

919 288-0520

Color graphics frame buffers. Weather graphics & imagery systems. Color Card two-board graphics package for IBM PC &

XT computers. High-resolution two-card graphics package for IBM AT & XT

b VERTEX COMMUNICATIONS 2600 Longview St., Box 1277, Kilgore, TX 75662

214 984-0555

Transmit/receive, receive-only & transportable satellite earth stations.

VIDCOM

2426 Townsgate Rd., Westlake Village, CA 91361 818 991-1974

Video production & post-production facilities; mobile production facilities rental; audio post-production facilities; equipment rental services.

VIDCOM INTERNATIONAL CORP. 3 West End Ave., Old Greenwich, CT 06870

203 637-8666

Radio & TV business automation software; Datapoint business automation hardware.

b **VIDEO AIDS OF COLORADO** 2450 Central Ave. #H. Boulder. CO 80301 303 443-4950

Hardwired intercom systems. Character generator/graphics systems. Sync, black burst, color bar generators. Image enhancers. Audio & video DAs, pulse amps. Video squelchers, video & audio alarms. RF amps. Burst phase meters.

VIDEO ASSOCIATES LABS

3933 Steck Ave. #B109, Austin, TX 78759 512 346-5781

Microkey add-on board giving NTSC output from Apple & IBM computers for graphics applications.

VIDEO DATA SYSTEMS

205 Oser Ave., Hauppauge, NY 11787 516 231-4400

Microsystem II message display system. Teletext decoding equipment. Vital Communication data communications systems.

VIDEO HI-TECH/ADWAR VIDEO 2370 Merrick Rd., Bellmore, NY 11710

516 785-1200

Video post-production facilities; equipment rental services; engineering consultants.

VIDEO INTERNATIONAL

1280 Sunrise Hwy., Copiague, NY 11726 516 842-1815

Portable, digital TV standards converters.

VIDEOLAB

1978B Del Amo Blvd., Torrance, CA 90501 213 618-9046/800 548-4466

Time code retrofit kit & fast shuttle retrofit kit for 3/4-inch U VCRs

VIDEO MAGNETICS

3515 Edison Way, Menlo Park, CA 94025 415 365-0125

Half-inch & 3/4-inch video cart/cassette changers.

VIDEOMEDIA

211 Weddell Dr., Sunnyvale, CA 94089 408 745-1700

Time control synchronizers; two-machine editor/controllers, A/B-roll editors, multisource editors, SMPTE time code generator/readers, VITC reader/generators. Computer automation controllers; complete program automation systems. Video animation controllers. Parallel & serial interface machine control/technical automation, vertical interval systems. Distributor of full line audio & video equipment.

VIDEO PLANNING PLUS! 325 W. 56 St., New York, NY 10019 212 582-5066

Video production facilities; mobile production facilities rental.

VIDEOPLEX 2 World's Fair Dr., Somerset, NJ 08873 201 469-9038

Video multiplexers.

VIDEO POST & TRANSFER

Box 53, Love Field Terminal, Dallas, TX 75235

214 350-2676 Video & audio post-production facilities; en-

gineering consultants.

VIDEOSTAR CONNECTIONS 3390 Peachtree Rd., Atlanta, GA 30326 404 262-1555

C-band & Ku-band satellite networking & transmission services; videoconferencing services, earth station site selection: satellite time brokers

THE VIDEO TAPE CO.

10545 Burbank Blvd., N. Hollywood, CA 91601

818 985-1666

Video post-production facilities; video duplication & distribution services; satellite deliverv of syndicated programs.

VIDEOTEK 243 Shoemaker Rd., Pottstown, PA 19464 215 327-2292

Monochrome, NTSC, RGB, high-resolution & battery-powered portable video monitors. Sync, black bust & color bar generators. Waveform monitors, vectorscopes; demodulators. Audio & video DAs; rackmount audio program monitors.

See ad on pg. 141. Circle No. 236.

VIDEO WEST

Broadcast House, 5 Triad Center, Salt Lake City, UT 84180 801 575-7400

Video production & post-production facilities; mobile production facilities rental.

VIDEOWORKS

24 W. 40 St., New York, NY 10018 212 869-2500

Video production & post-production facilities

VID VIDEO

3919A W. Magnolia Blvd., Burbank, CA 91505

818 845-1515

Shuttle I & Shuttle II zero-frame offset address track time code modification for Sony Type 5 ¾-inch VCRs.

VIF INTERNATIONAL

Box 1555, Mountain View, CA 94042 408 739-9740

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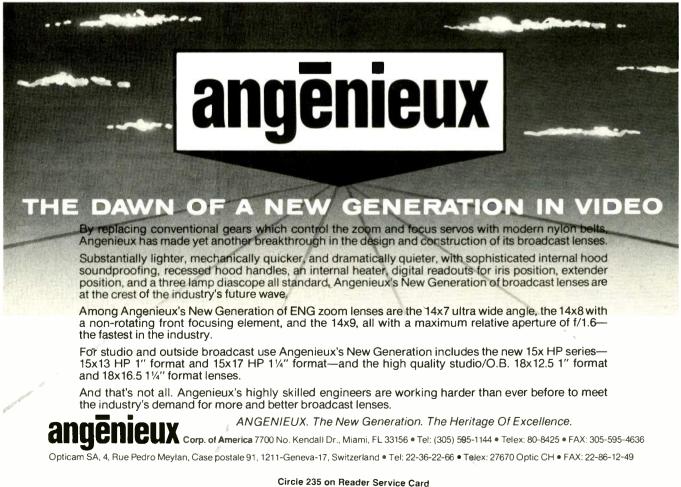
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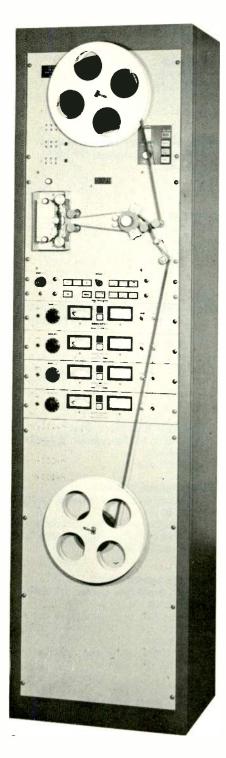
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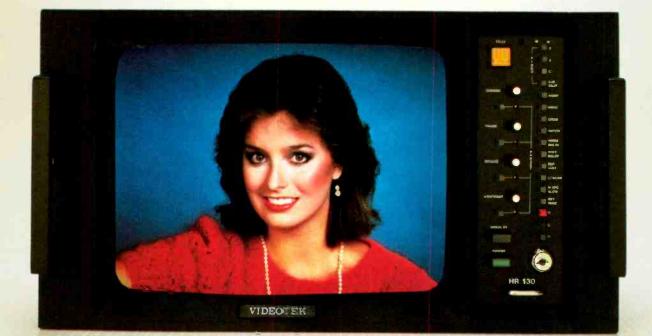
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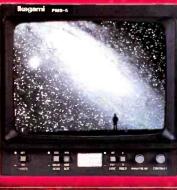
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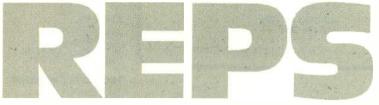
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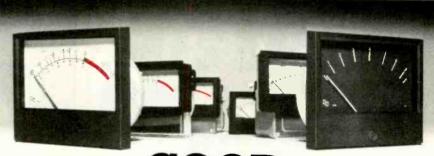
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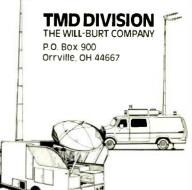
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