

NEW PRODUCTS

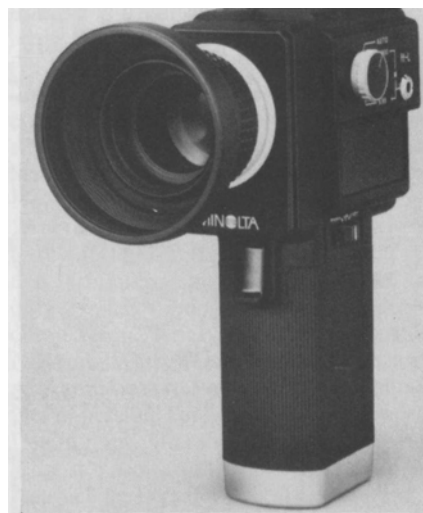
Further information about these items can be obtained from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement of the products or services.



VPR-6 VTR, Ampex

The VPR-6, a new 1-in. Type-C VTR, has been introduced by Ampex Corp, 401 Broadway, Redwood City, CA 94063. Also announced was the TBC-6, a time-base corrector that is performance matched to the VPR-6. Controlled by powerful microprocessors, the VPR-6 offers a high degree of machine intelligence. For example, it solves a problem of broken tape due to dissimilar reel sizes by sensing the size of the tape reel and whether the take-up reel is working in play mode, then adjusting the servos for optimum tape handling. Tape-handling features include shuttle speeds approaching 500 in./sec and a slow motion range of -1 to 3X play speed. Single frame jog is also included.

The Luminance Meter 1°, featuring a flareless optical system that includes a focusing objective lens and a total reflection mirror, has been announced by Minolta Corp., 101 Williams Dr., Ramsey, NJ 07446. Measurements are made by a silicon photo cell and are instantly registered in foot-lamberts (or Cd/m²) on the view-



Luminance meter 1°, Minolta

finder's LED digital display. Applications include metering TV and motion-picture screens and CRTs.

The AL-100 Studio, a portable cine-video light with variable-angle beam and self-contained rechargeable battery pack, has been announced by Osram Corp., Jeanne Dr., Newburgh, NY 12550. The battery monitors charge level with two LEDs and emits an audible tone when the power is low. The light has a continuously variable-



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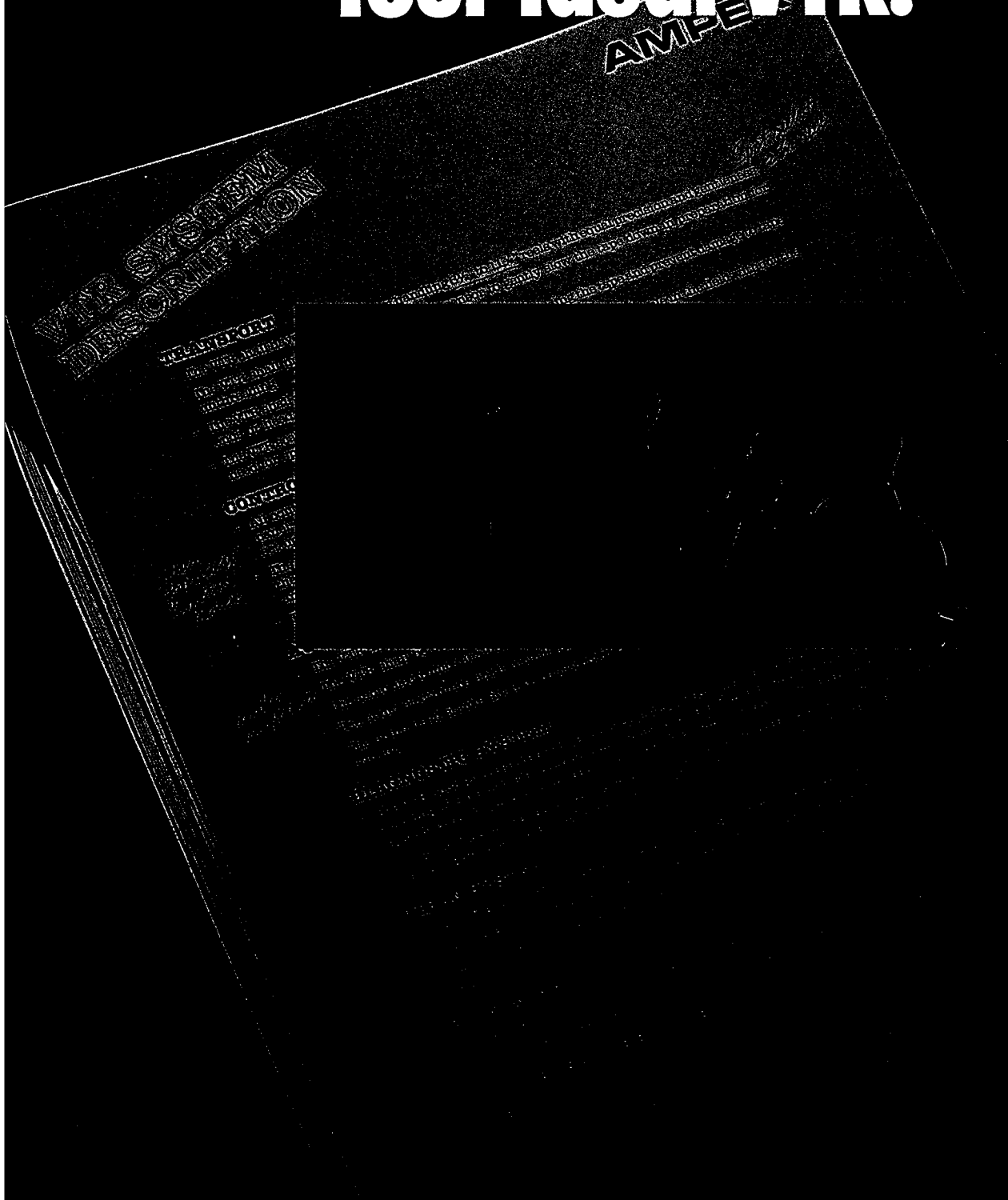
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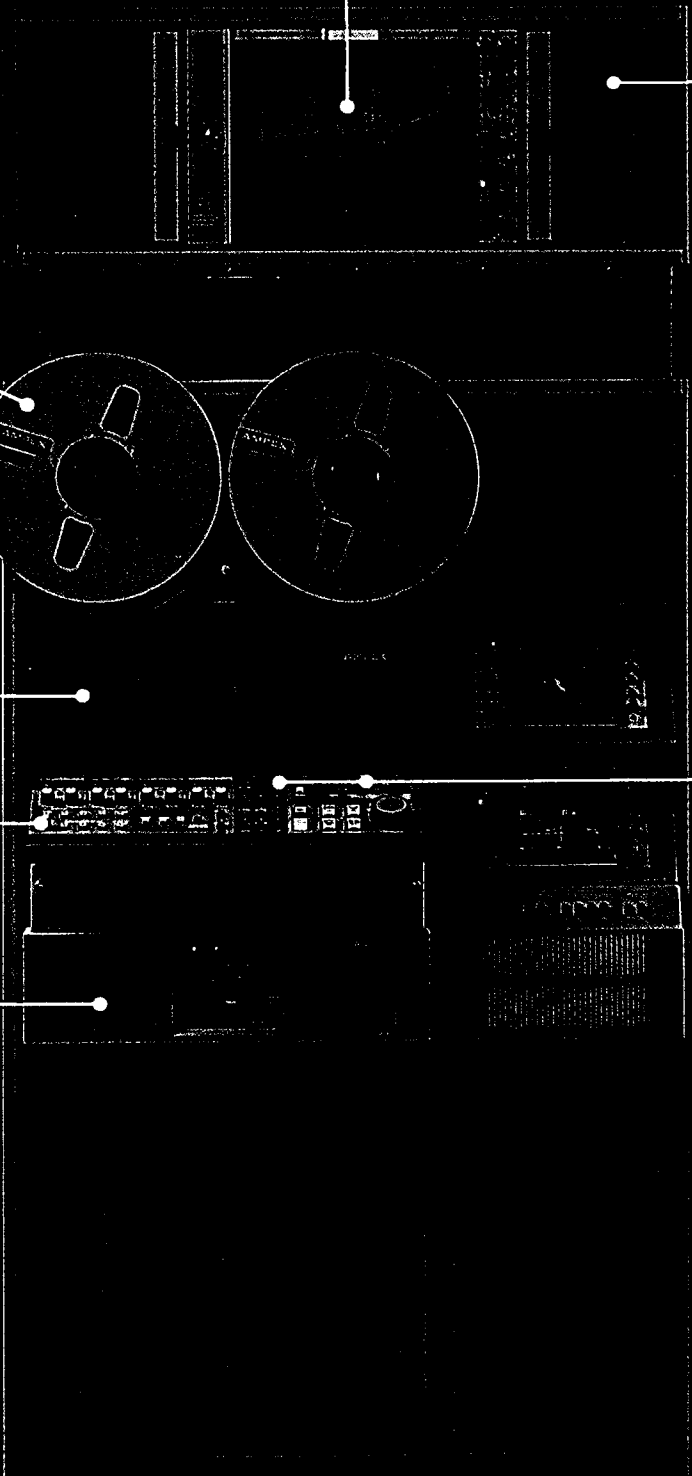
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When hundreds of users worldwide told us what they wanted in a one-inch VTR, we listened closely and then designed and built it. It's our new VPR-6, the easiest VTR to operate, service and maintain of any in its class. And it's in the price/performance ratio that most users want.

Smart, yes. Complicated, no.

Intelligent but not intimidating, the new VPR-6 offers features that allow you to get the job done more productively. For example, virtually all machine setup procedures can be done at the highly efficient control panel. Most board-edge controls typically found in VTR's have been eliminated.

You insisted on fast but gentle tape handling... the VPR-6 shuttles tape at speeds approaching 500 ips and handles all reel sizes from spot to 2 hours with equal precision and gentleness. The servo microprocessor senses when the end of the tape is near and slows down the reels and scanner and unthreads the tape gently.

You asked for power-down memory... so we built in a long-life battery to protect setups, edit and cue points and all editor configuration parameters.

"Make it easier to troubleshoot," you said, and we built in an extensive diagnostics system that constantly monitors many system conditions and warns you if a fault occurs. You can even run from the control panel a diagnostic routine using a logic probe to test every IC in direct communication with the two microprocessors.

A tried and true transport

You demanded reliability. Not wanting to tamper with success, we borrowed the tape transport and mechanical

printed wiring boards and backplane connectors throughout. The modular package allows convenient access to any part of the VTR for easy maintenance.



A TBC to Match

Because you wanted play speeds from -1 to 3X normal and picture in shuttle, we also developed the new TBC-6 digital time base corrector, performance-matched to the VPR-6. Its 32-line memory and 28-line correction window are the largest in any TBC appropriate for a VTR of this type.

State of the art editing

So much for recording and playback, how about editing? The VPR-6 has all the capabilities you asked for, including split audio-video auto edit and auto tag. RS-422 serial communications capability lets VPR-6 function efficiently in a state-of-the-art editing system with the Ampex ACE and other edit controllers.

First-rate audio

"Make audio better," you said, and we did. The VPR-6 has audio (as well as video) confidence playback. The audio system also offers high quality stereo phase and an optional fourth audio channel for EBU systems.

Selection of styles

Most users may agree on capabilities, but you prefer a variety of configurations to choose from. So, we offer the VPR-6/TBC-6 in four console styles as well as tabletop and rackmount versions. Many Ampex video accessories work with it, including some you may now own.

In production now

The VPR-6 is too good to wait for, so it's already in factory production. Ask your Ampex video sales engineer



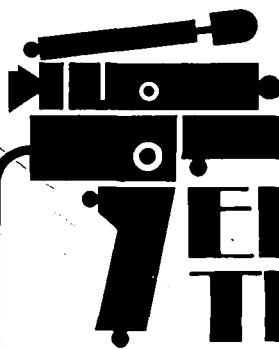
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VIDEO ELECTRONIC TECHNICIAN

The Navy's major research, development, test and evaluation activity, located at the foot of the Sierra Nevada, has immediate openings for a Video Electronic Technician.

Candidates should have experience in TV production equipment operation and maintenance for technical information presentations and extensive knowledge of:

- COLOR CAMERAS
- TBCs
- SEGs
- 3/4" EDITING & RELATED EQUIPMENT

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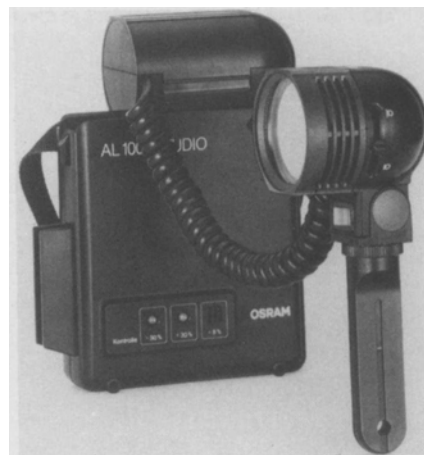
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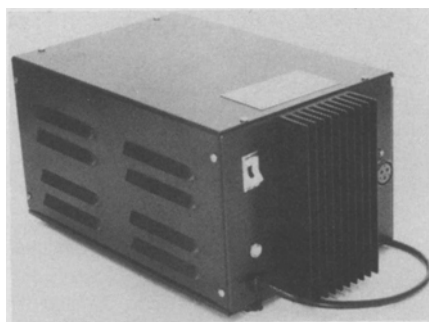
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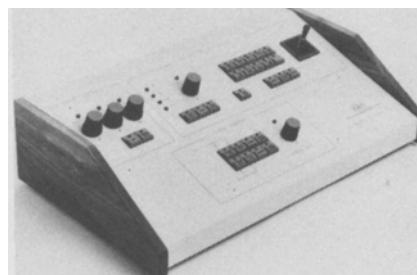
AL-100 cine-video light, Osram

angle beam from a 30° spot to a 70° wide, capable of matching commonly used focal settings. The head can be tilted to 90°, and its swivel mount allows direct placement on the camera or a tripod mount.



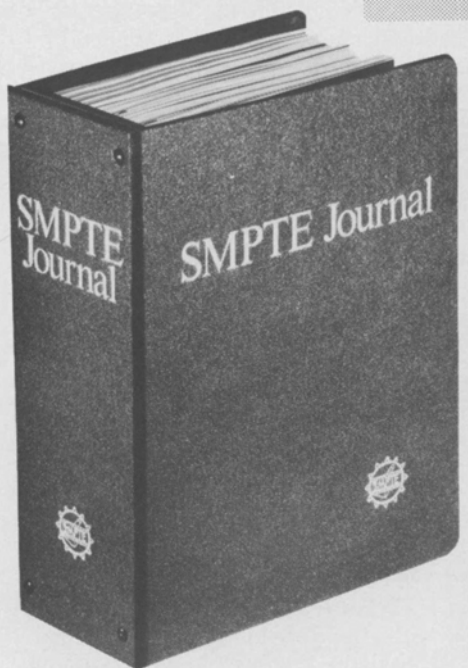
Xelamp 8515 xenon power supply, L.P. Associates

The Xelamp 8515, a 500-W xenon power supply for xenon lamphouses, has been announced by L.P. Associates, Inc., 6650 Lexington Ave., Hollywood, CA 90038. The 8515 is a self-contained 115-V ac (50 or 60 Hz) power supply. It is available in two versions, the 8515-VA and 8515-SW, each having a 2-position HI/LO switch. The 8515-VA has a continuously variable output from 300 to 500 W. The 8515-SW has a 3-position switch, and when combined with the HI/LO switch, gives six different repeatable power settings from 300 to 500 W.



Chromafex 766, Chroma Digital Systems

The Chromafex 766, a special effects device, has been announced by Chroma



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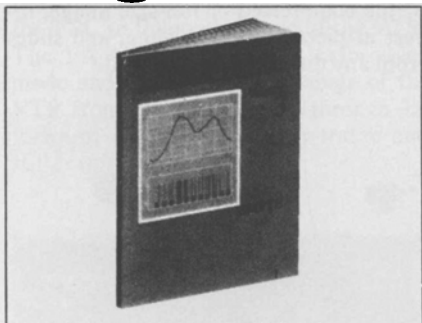
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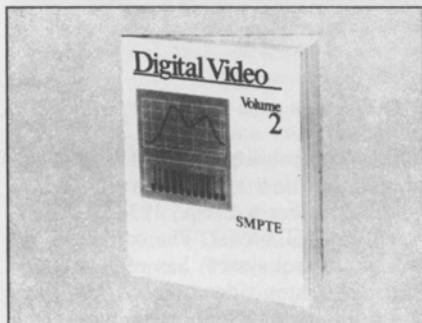
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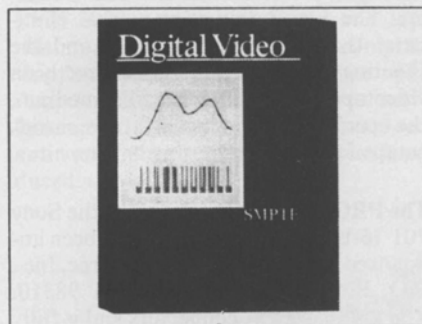
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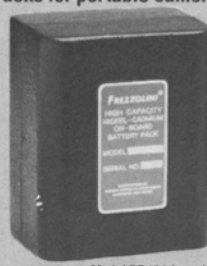
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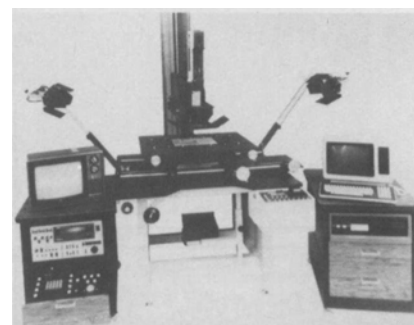
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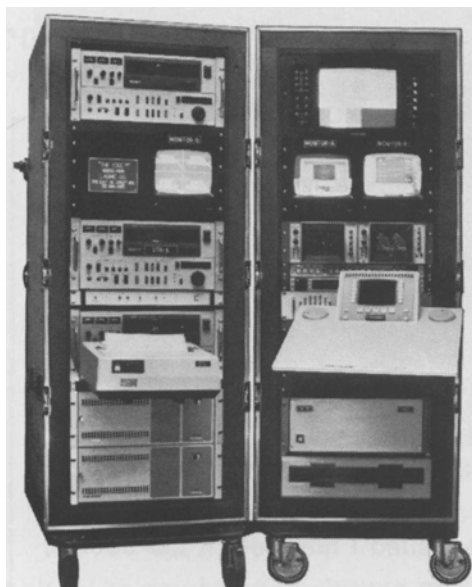
Digital Systems, Inc., 2065 Martin Ave., Santa Clara, CA 95050. The device combines special effects, time-base correction, frame synchronization, and frame storage. Features include joystick positioning of the compressed or full-size image, invert of picture, mosaic tiling, and slides from any direction at any speed.



Videotape animation interface, Forox

Interface capability for the Forox videotape animation system has been announced by Forox Corp., 393 West Ave., Stamford, CT 06902. The computerized motion-control system has real-time and frame-by-frame videotape recording and editing. It provides compatibility with a variety of videotape cameras and recorders. The Forox animation system eliminates the middle step on film, and the shooting of painted cells is done directly on videotape. When film is the final medium, the operator can shoot pencil tests on videotape for quick previewing on a monitor.

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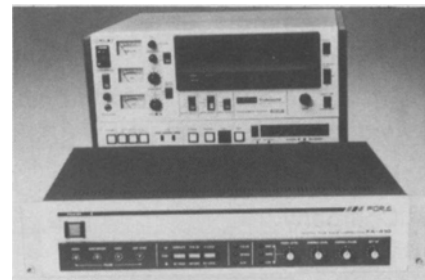
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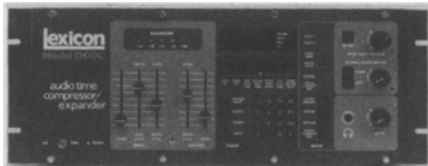
The PRO 701, a modification of the Sony 701 16-bit digital processor, has been announced by Audio + Design/Calrec, Inc., P.O. Box 786, Bremerton, WA 98310. The unit has XLR connectors and is fully balanced with operating levels up to +22 dBm. The Pro 701 incorporates CTC™ (coincident time correction) which gives the channels a coincident output in both analog and digital. Input level controls are replaced with a 12-position input/output unity gain control that sets the operating level in 2-dB steps. Additional features include record pre-emphasis and copy prohibit, as well as digital input/output facilities that enable direct digital-to-digital connection of machines and other processing equipment.



FA-410 modified TBC, FOR-A

A modified version of the FOR-A digital time-base corrector that permits the use of

the dynamic tracking capability of the Sony U-Matic BVU-820 has been announced by FOR-A Corp. of America, 49 Lexington St., West Newton, MA 02165. The modified FA-410 can accept the vertical signal from the BVU-820, allowing the TBC to follow the speed of the VTR. The FA-410 operates in a heterodyne mode and handles the full range of the VTR from 1X reverse speed through 3X forward, including frame-by-frame and still frame.



Audio time compressor/expander, Lexicon

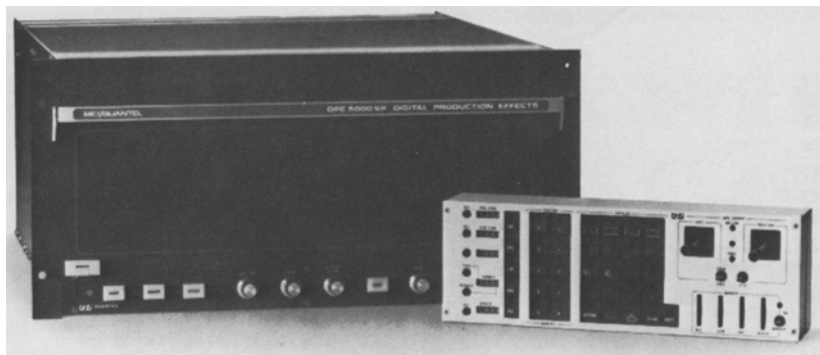
The 1200C audio time compressor/expander has been announced by Lexicon, Inc., 60 Turner St., Waltham, MA 02154. The device can communicate with a wide variety of 1-in. VTRs and editors via an RS422/232 port. This capability allows the 1200C to tie into station automation and to respond to remote instructions. The 1200C can communicate via the Sony BVH-2000 protocol to VTRs and tape editing systems that offer time compression/expansion editing software. The Ampex VTR interface improves servo lock-up time, reducing it to less than 3 sec; as a result, the pre-roll requirement is reduced.



909 prompting system, Tekskil Industries

The 909 prompting system, designed specifically for portable video cameras, has been announced by Tekskil Industries, Inc., 1041D Ridgeway Ave., Vancouver, B.C., Canada V3J 1S6. The system includes a camera viewing unit, script transportation unit, monitor, and imaging camera. The camera mount supports the

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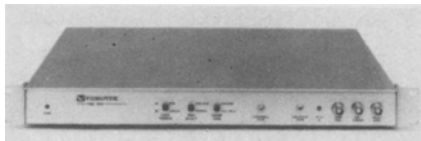
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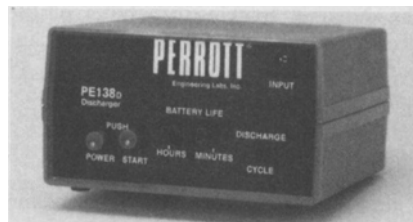


VSG-100 sync generator, Videotek

A color sync generator, the VSG-100, has been announced by Videotek, Inc., 125

North York St., Pottstown, PA 19464-9990. Engineered to RS-170A specifications, the VSG-100 can genlock to an external signal and has a selectable wide/narrow lock window. Test signals display either full-field color bars or split-field/red.

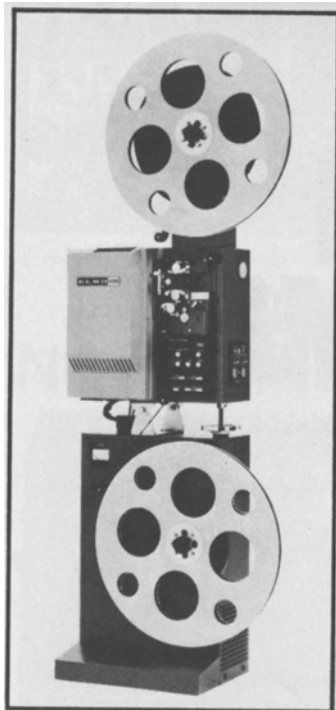
The Cellmate™ battery discharge unit and the 8204 Ni-Cad Minicharger® have been announced by Perrott Engineering Labs, Inc., 7201 Lee Hwy., Falls Church, VA 22046. The Cellmate provides a controlled discharge of Ni-Cad or silver zinc battery packs and digitally reads out the capacity of the battery. It weighs less than



Cellmate™ battery discharge unit, Perrott Engineering Labs

2 lb. The computer-controlled 8204 Minicharger constantly monitors the voltage and capacity of the battery pack during charge. It reads voltage changes with no need for temperature sensors. The Minicharger sequentially charges four Ni-Cad units, delivering a usable system every 2 hr.

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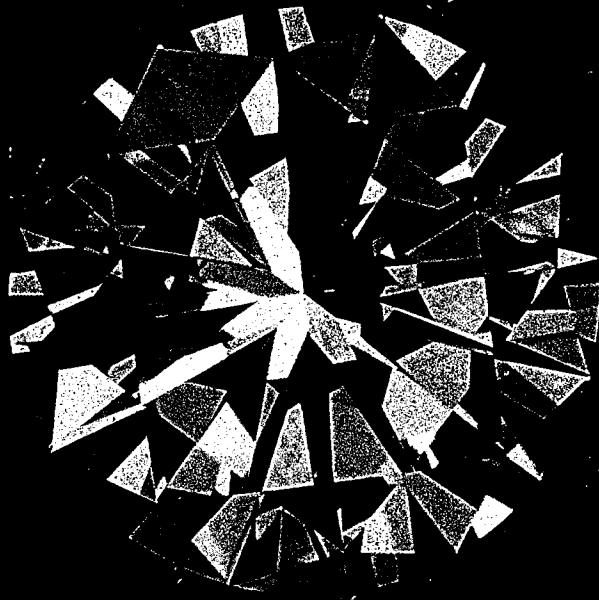
Tri-Analyzer, Alexander Manufacturing Co.

An analyzer for television batteries and two Smart battery-pack chargers have been announced by Alexander Manufacturing Co., P.O. Box 1645, Mason City, IA 50401. The Tri-Analyzer can determine automatically the capacity in up to three packs at a time. The two Smart chargers can detect the actual voltage in the battery packs and automatically drop to trickle when the full charge is reached. The Sequential Smart charger can accommodate up to six packs at a time. The Triplex Smart charger can charge up to three packs simultaneously in less than 2 hr.

The AS-18 digital audio synchronizer, for use in any audio delay or audio timing application, has been announced by NEC America, Inc., 130 Martin Lane, Elk Grove Village, IL 60007. The AS-18 can delay the audio signal up to 1 sec; with optional memory it can delay up to 4 sec. When used with the NEC FS-18 frame synchronizer, it can provide automatic compensation for audio-to-video delay.

A multiple-deck 1/2-in. cassette system, the TCR-10B, for use in automating short program segments, has been announced by RCA, Bldg. 206-1, Rt. 38, Cherry Hill, NJ 08358. Features include a machine control system that can handle up to eight Chroma Trak (HR-2A) studio recorders. The TCR-10B can store up to 250 programmed events in the control system's memory.

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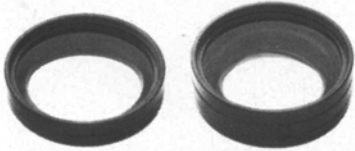
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Lowel 475 Tenth Ave. N.Y., N.Y. 10018. 212-947-0950. Lowel West—3407 W. Olive Ave. Burbank, Ca. 91505. 213-846-7740

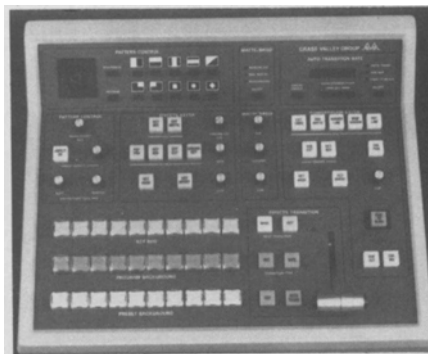


New VHS and Beta videocassettes for professional applications, especially ENG and EFP, have been announced by 3M Magnetic Audio/Video Products Div., P.O. Box 33600, Dept. MA84-21, St. Paul, MN 55144. The cassettes, called PB (professional Beta) and PV (professional VHS), use 1/2-in. videotape that has improved dropout performance and excellent signal-to-noise ratio.



La-Kart video cart system, Lake Systems Corp.

Type-M and Beta La-Kart video cart systems have been announced by Lake Systems Corp., 55 Chapel St., Newton, MA 02160. The La-Kart system has a micro-processor-based computer called the multi-event programmer. The computer can search out, identify, and activate more than 1000 individual events to be queued and aired. Videocassettes are prepared by entering a 4-digit reel ID number into memory. Individual segments are defined by their precise start/finish points according to their locations on the tape as indicated by an SMPTE time code.

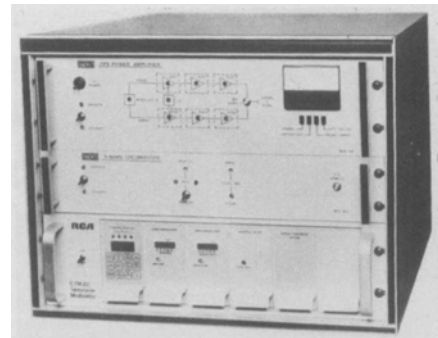


Model 100 production switching system, Grass Valley Group

The Model 100 production switching system has been announced by The Grass Valley Group Inc., P.O. Box 1114, Grass Valley, CA 95945. The system has extensive effects capabilities, especially when used with a post-production editing system or for graphic buildups with a still store. Model 100 consists of a multi-level mix/effects system that is capable of background transitions behind a key and simultaneous background and key transi-

tions, a downstream keyer with Borderline® capability, a master fade to black, and a blanking processor that maintains constant blanking intervals at the switching output. Options include an RGB chroma keyer, digital Borderline generator, serial interface adapter, and rack-mounting adapter.

The Full Spectrum, a color television receiver that processes 100% of the transmitted broadcast signal, both video and audio, has been announced by RCA, 30 Rockefeller Plaza, New York, NY 10020. Special circuitry processes the entire transmitted color signal for up to three times more resolution of certain critical colors.



TTS10GA television transmitter, EMCEE Broadcast Products

A 10-W solid-state MDS television transmitter, the TTS10GA, has been announced by EMCEE Broadcast Products, P.O. Box 68, White Haven, PA 18661-0068. Features include gallium arsenide field effect transistors (FET) in the power amplifier and driver stages. Second-order intermodulation distortion is lessened by the FET design. Other features include self-diagnostic circuitry to isolate and correct malfunctions.

A 100-kW UHF transmitter, the TTG-100U, has been announced by RCA Government Systems, Bldg. 206-1, Rt. 38, Cherry Hill, NJ 08358. The new transmitter can achieve an effective radiated power of up to 5 MW when operating with an antenna system of appropriate gain and power. The system has been designed to operate with all existing and proposed stereo and multiple-channel sound systems.

A half-rack waveform monitor and a 100-MHz oscilloscope have been announced by Leader Instruments Corp., 380 Oser Ave., Hauppauge, L.I., NY 11788. The LBO-5860L waveform monitor is designed to display baseband encoded signals by use of a 1 H (one horizontal line display) line selector function for lines 7 to 21 on fields 1 and 2. The LBO-516 is a time-base oscilloscope offering full 3-channel capability, alternate triggering for simultaneous display of two asynchronous signals, alternate time base, and 8-