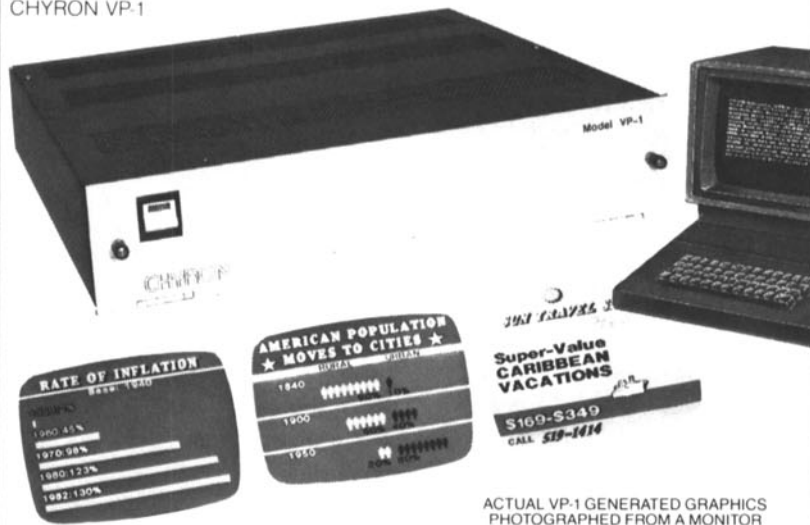


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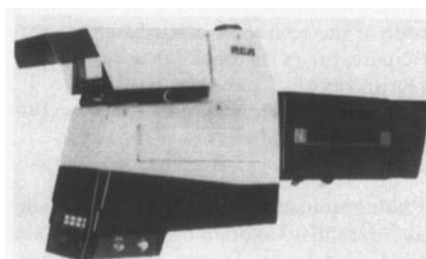
## NEW PRODUCTS

*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.*

**A technique for recording information from three semiconductor lasers onto an optical disk** has been developed at RCA Laboratories in Princeton, N.J. The technique, called multi-channel recording, simultaneously records information onto an optical disk using three semiconductor lasers that are on a single solid-state chip.

This is considered a major step in the development of a compact system that can store and retrieve vast amounts of information at extremely high speeds. One possible application would be the storage of image data received from satellites such as Landsat. Multi-channel recording also could be employed in high-speed communications and for the mass storage of data from large mainframe computers.

In the newly developed RCA method, an optical disk 14 in. in diameter can store as many as 100 billion bits of information. The three high-power semiconductor lasers fabricated on a single chip record information by creating tiny pits in a light-absorbing layer on the disk. Each pit measures less than 30 millionths of an inch across. Information from each laser is simultaneously recorded on the disk in closely spaced parallel tracks. A low-power laser retrieves information from the disk.



TK-48 studio camera, RCA


**The TK-48 automatic studio camera** has been introduced by RCA, Rt. 38, Bldg. 206-1, Cherry Hill, NJ 08358. The camera features a programmable dynamic lens-correction system, and an "intelligent" viewfinder. A third generation of RCA automatic cameras, the TK-48 has new levels of microprocessor control.

The dynamic lens correction system allows the camera user to select up to three correction points to eliminate the registration errors in zoom lenses. The memory in the TK-48 system can store settings for 8 different lenses, or 24 settings in all. The system can be reprogrammed for new


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lenses. Another feature is an "electronic screwdriver," a hand-held device that plugs into the camera head and is used to set the correction points. After setup, it is disconnected, and the camera operates from the camera head memory.



*TKS-100 telecine, RCA*

The TKS-100 telecine camera has been introduced by RCA, Rt. 38, Bldg. 206-1, Cherry Hill, NJ 08358. The TKS-100 uses three charge-coupled-device (CCD) sensors in place of pickup tubes. Designed primarily for broadcasters, the TKS-100 has a wide range of optional features, permitting users to tailor the system to their needs. A central electronics unit provides monitoring facilities, and control for up to three film transport units. Each transport handles both 16 and 35mm films. Changes between formats are handled by a single switch.



*EMME™ videotape editing system, EECO*

The EMME™, a computer-assisted videotape editing system, has been announced by EECO Inc., P.O. Box 659, Santa Ana, CA 92702. Described as a multi-machine editing system, it can control up to nine VTRs and multi-track ATRs, and a production switcher. A choice of user interfaces is offered.



*TCP-250 time-code processor, EECO*

The TCP-250 time-code processor, an addition to its line of time-code peripherals, has been announced by EECO Inc., P.O.



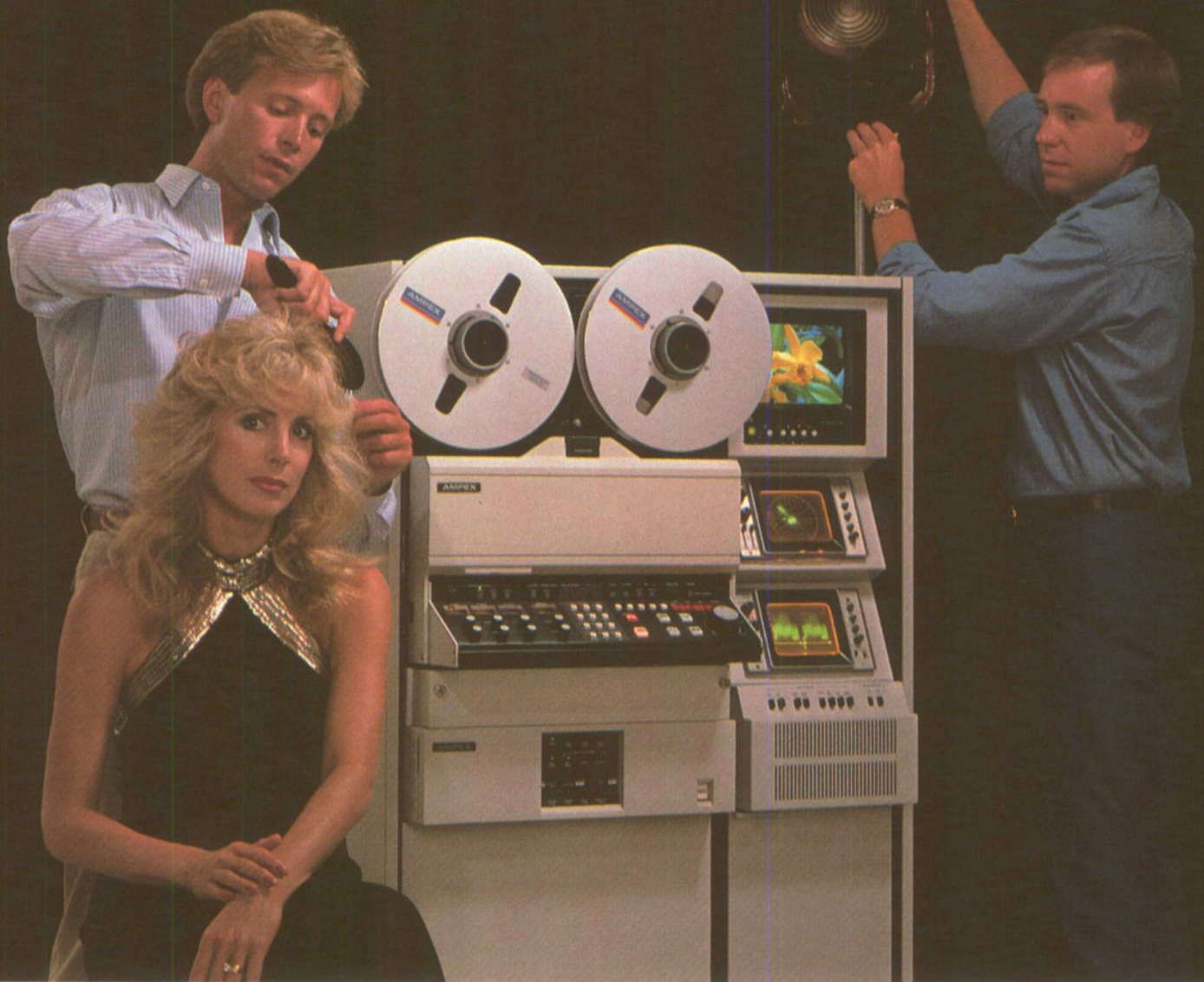
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Box 659, Santa Ana, CA 92702. Micro-processor-based, the TCP-250 is a multi-function peripheral that operates as a time-code reader, vertical interval time code (VITC) to longitudinal time-code (LTC) translator, LTC restored output and video character generator, all in one unit. Used in videotape editing, the unit's primary application is in reading, converting, and displaying time code for use in indexing, synchronizing, and correlating specific video program material.

The TCP-250 can read SMPTE VITC or LTC from videotape at speeds from still frame to 70 times play speed. From this time-code input, it extracts tape time and user bit data and outputs it as video characters that can be "burned" into or superimposed over the source video for independent or simultaneous display.



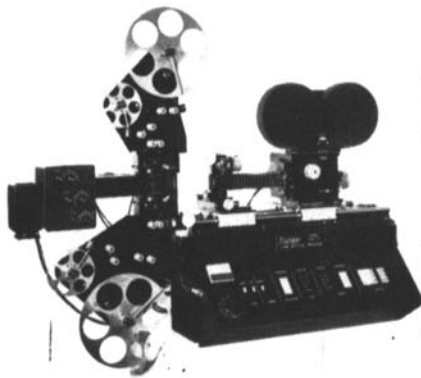
*TLS 4000 synchronizer, Studer Revox America*

The **TLS 4000 synchronizer** has been announced by Studer Revox America Inc., 1425 Elm Hill Pike, Nashville, TN 37210. The system can be used for audio/audio, audio/video, and audio/film synchronizing applications. A single TLS 4000 unit can control and slave one tape transport to SMPTE time codes, reference frequencies, video composite signals, and biphasic signals.

The different operating modes can be accessed by the optional local control unit, which is equipped with time-code readout and control keys. The TLS 4000 can interface to various transports via an intelligent interface. For reference, it accepts time code, frequency signals between 20 Hz and 20 kHz, video composite signals, and biphasic signals. The synchronizer can operate in the resolver mode or in the time-code interlock mode in a wide range of applications.

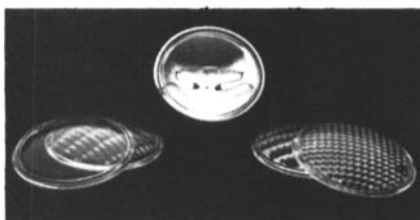
The **Model 7650 restoration optical printer** has been announced by Pioneer Technology Corp., 1021 N. Lake St., Burbank, CA 91502. The printer was designed primarily to produce new, crisp-color or B&W motion-picture prints from faded, shrunk, and scratched motion-picture film. It can accommodate 16 and 35mm film formats, and will allow enlargement, reduction, and duplicate printing.

Components of the printer include a precision camera, pin-registered film movements, adjustable-pitch liquid gates, specially designed drive sockets, additive color lamphouse, and a high-quality optical system. The printer is controlled by a



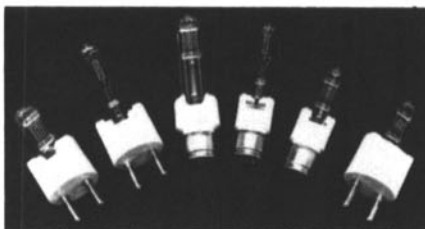
*Model 7650 restoration optical printer, Pioneer Technology*

computer that provides the capability of performing fades/dissolves, off-center zooms, skip-add frame, and scene-to-scene color correction in addition to conventional optical printing operations.



*Sylvania energy-saving Brite Beam™ lamp, GTE*

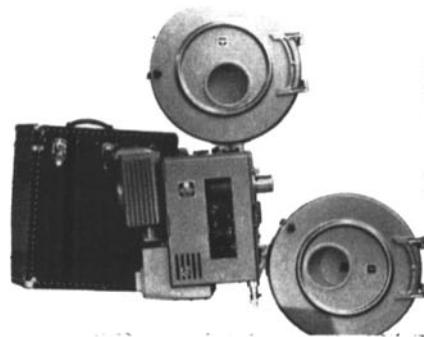
An energy-saving **Brite Beam™ PAR lamp** has been introduced by GTE Lighting Products, Sylvania Lighting Center, Danvers, MA 01923. For use in film, theater, and television applications, the lamp is rated at 200 W and produces 14,000 lm. It is available in the PAR 36 bulb shape and comes with four lens patterns: very narrow spot, narrow spot, medium flood, and wide flood. Designed as a daylight fill light and bounce light for studio applications, the color temperature is 5600°; therefore, filters are not necessary for color correction.



*Sylvania RoughNeck™ lamps, GTE*

**Two Sylvania studio lamps** have been redesigned to use tungsten halogen technology instead of the previous incandescent design, it was announced by GTE Lighting Products, Sylvania Lighting Center,

Danvers, MA 01923. The 750 and 1000-W lamps are designated DNT/FMD and DNV/FME, respectively, and are part of the Sylvania RoughNeck™ line. They provide improved lumen maintenance equivalent to about 25% more light output over rated life than that of the incandescent units they replace. The RoughNeck versions are more rugged because the ceramic base collars have been enlarged and lengthened to improve the support of the quartz glass envelope.



*Tokiwa T-60 projector, American Theatre Products*

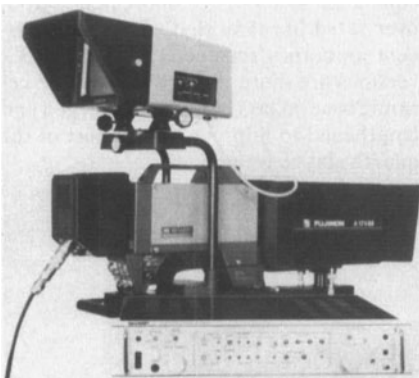
The **Tokiwa T-60**, a portable 35mm motion-picture projector, has been announced by American Theatre Products, Inc., 6650 Lexington Ave., Hollywood, CA 90038. The projector has a 2000-ft reel capacity, a built-in exciter lamp, a drive motor, and an incandescent lamp. Optional halogen or xenon light sources are available. The projector weighs 65 lb.

A **remote control pan-tilt system for U-3A and U-3B camera systems** has been announced by Canon Inc., 7-1 Nishi-Shinjuku 2-chome, Sinjukju-ku, Tokyo 160, Japan. Remote control of the pan, tilt, zoom, and focus operations is accomplished by a rotary encoder system. Five shots (pan, tilt, zoom, focus, and extender) can be memorized. Using page-selector buttons, up to 4 pages of 10 shots per page, or a total of 40 shots, can be stored in memory. Designed for use in TV news studios, applications include news broadcasts, weather, and commercials, as well as panel discussions and educational programs.

A **laser-based fiber optic transmission system** has been announced by Artel Communications Corp., P.O. Box 100, West Side Sta., Worcester, MA 01602. Designated the SL3000, the system simultaneously transmits video and two wideband subcarriers for audio and data on a single optical fiber. It can transmit up to 20 miles.

The system consists of one to three transmitter pairs for video and subcarrier modules for audio or TTL data. Also included is an automatic protection switch logic card that processes the on-line alarms and controls the one-to-one pro-

tection switch. All modules plug directly into a 19-in. card frame that houses up to eight modules and a redundant power supply.

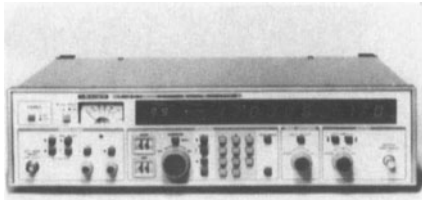


*XC-803TX Triax system, Sharp Electronics*

**The XC-803TX Triax system**, designed to expand the capabilities of broadcast cameras, has been announced by Sharp Electronics Corp., 10 Sharp Plaza, P.O. Box 588, Paramus, NJ 07652. Consisting of a base station and a compact head adaptor, the Triax is linked to the broadcast camera by an ultra-thin cable that permits full remote-control camera operation over 1 mile from the base station.

The system requires no external adaptors. The camera head adaptor mounts di-

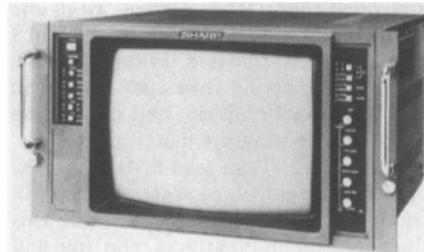
rectly on the camera head without any exposed cables or connectors. Its multiplex system transmits dc power, in addition to video, audio, and camera control systems, between the camera head and the base station. The base station is lightweight and compact, occupying only 3½ in. of rack height. The XC-803TX hooks into any existing Triax network.



*LSG-215A signal generator, Leader Instruments*

**The LSG-215A, a programmable, synthesized AM/FM RF signal generator**, has been introduced by Leader Instruments Corp., 380 Oser Ave., Hauppauge, NY 11788. Features include convenient keyboard control of frequency and output level. Semiautomatic operation is available by preprogramming up to 100 different test conditions. Two kilobytes of memory store frequency, output level, and modulation (0 to 100% AM, 0 to 100 kHz FM) data for each test condition. The LSG-

215A has an output frequency range of 0.1 to 120 MHz in two bands: 0.1 to 30 MHz in 100-Hz steps and 30 to 120 MHz in 1-kHz steps. Output level range is -10 to 120 dBµV in 1-dB steps.



*XM-1300 monitor, Sharp Electronics*

**The XM-1300 professional color monitor**, has been announced by Sharp Electronics Corp., 10 Sharp Plaza, P.O. Box 588, Paramus, NJ 07652. The 13-in. rackmount monitor uses standard U.S. controlled phosphors. The CRT features 0.31 dot pitch producing more than 600 lines of resolution. A front panel switch allows selective use of a notch or comb filter. The monitor also has two video inputs and direct RGB inputs. The RGB signal source can be analog video or TTL for computer display. H-delay and V-delay are offered for pulse cross display.

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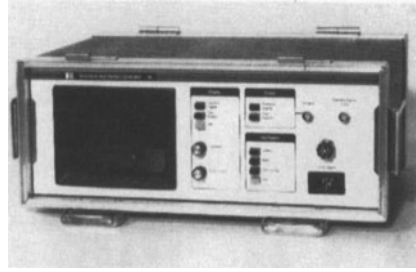
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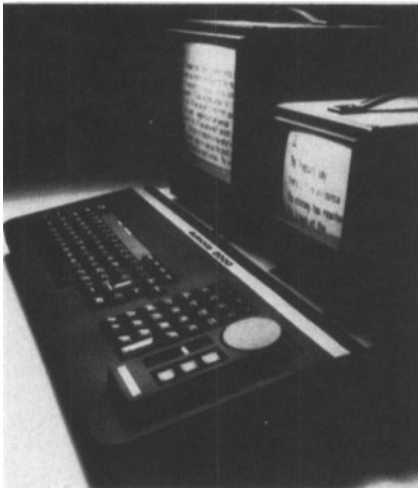
view of a noncorrected VTR signal or a signal with a stable time base. Normal and under-scanned picture modes are featured along with an automatic/manual degauss circuit. The monitor operates on 120 V ac, 50/60 Hz, with a power consumption of 130 W.



TV test pattern generator, Vii



Stereo video system, Solid State Logic



Autocue 2000 electronic prompter, Autocue

The Autocue 2000 electronic prompter has been announced by Autocue Ltd., 265 Merton Rd., London SW18 5JS, England. The device has an RS232 interface for computerized newsroom applications.

The Vii Model 18 TV test pattern generator, has been announced by Visual Information Institute, Inc., P.O. Box 33, Xenia, OH 45385-0033. The device is designed for use in the field to aid in onsite camera setup of focus, iris, and field of view, using a built-in 5-in. monochrome display (700 TV lines resolution at the center of the display). Test patterns include bars (to verify display linearity) and video which can be used to check the condition of a coax signal transmission line, set equalizers, and verify performance of a display device. The centering pattern establishes size and centering of a display. Model 18 operates at the 525/60 scan rate, in accordance with EIA standards RS-170 and RS-330A.

The SL6000E series stereo video system has been announced by Solid State Logic

Ltd., Stonesfield, Oxford OX7 2PQ, England. Features include primary studio computer, total recall, programmable equalizer, real-time system, and synchronizing controller interfaced to video, multitrack, stereo, and cartridge machines. Designed for video post-production and broadcasting studios, the system has three stereo mix buses for creating separate music, dialogue, and effects mixes. It can create mix-minus feeds and alternative combinations for program output.

The StereoDimensional™, a stereoscopic computer graphics display system has been announced by Stereographics Corp., Box 2309, San Rafael, CA 94912. The device offers depth perception and three-dimensional images. The display controller works in conjunction with computer

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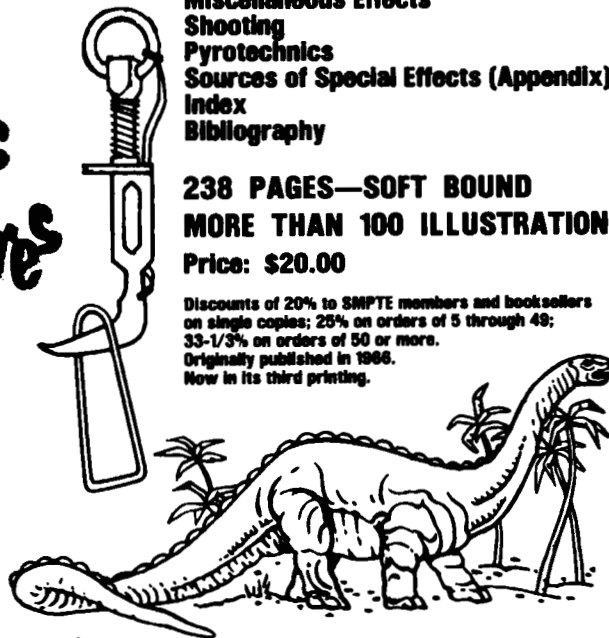
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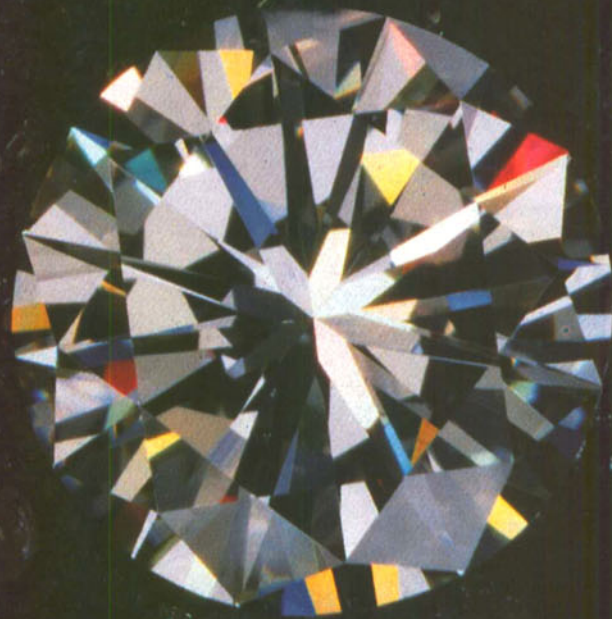
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graphics software that generates right-eye and left-eye perspective viewpoints. The controller switches fields, yields a time-multiplexed video signal, and produces 120 fields/sec (60 left and 60 right), alternating left-right-left-right.

The display controller accepts monochrome or RGB video and is programmable for standards ranging from 500 to 1500 lines. The electro-optical shuttering glasses plug into the display controller and become alternately transparent and opaque in synchronization with the video fields.

**Model 492 Video Subtractor**, one of a new series of instruments using solid-state video memory, has been announced by Colorado Video Inc., P.O. Box 928, Boulder, CO 80306. Model 492 is used to compare video images and display the differences between them. Its primary applications include inspection, surveillance, registration, and quality control.

In a typical situation, a reference image is digitized and stored in one of the unit's dual memories. A second image is digitized and stored in the second memory, which produces a negative picture. The

two signals are then combined and produce a neutral gray field on the television monitor screen if no changes in picture content have taken place. Any difference between the first and second image, such as a missing part or an intruder, shows up dramatically. Model 492 also can compare continuously a live video input with the reference image for intrusion detection or tracking. A separate video output from the reference memory is provided.

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*Cell-stab* has been designed by Alphonse Boehm M.B.K.S., Broadcast Engineering Consultant, to increase the stability of flying-spot telecines.

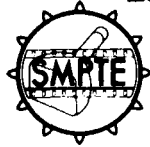
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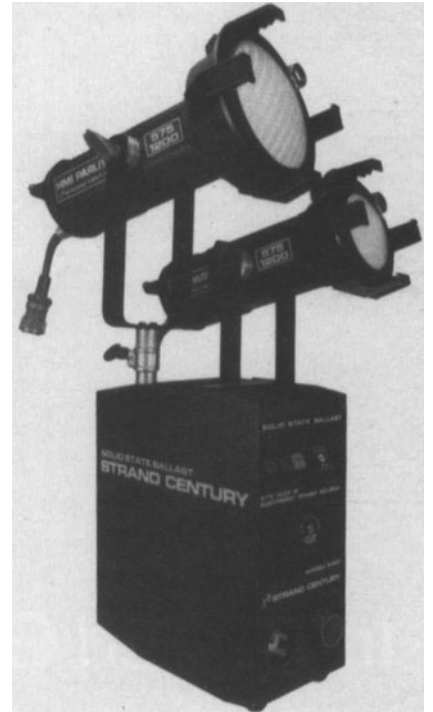
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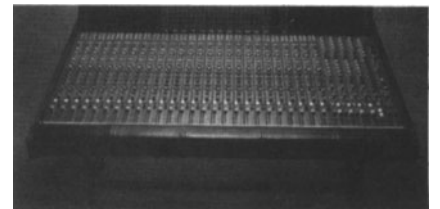


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*Solid-state ballast, Strand Century*

A **solid-state ballast**, designed to operate 575 or 1200-W ParLites, has been announced by Strand Century, Inc., P.O. Box 9004, Rancho Dominguez, CA 90224. The new ballast regulates electronic power for HMI lighting. Its fixed frequency, square-wave output to the lamp is said to result in higher efficiency independent of input power fluctuations. Other features include color-temperature stability over the life of the lamp at low line voltage, flicker-free filming, adjustment of color temperature for balancing multiple lamps, and prolonged lamp ignitor life. The unit is field adjustable from 120 to 220/240 V ac and weighs 30 lb.



*Matchless 24-bus audio console, Amek Consoles*

The Matchless series of 24-bus audio consoles has been announced by Amek Con-

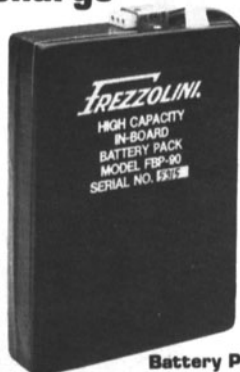
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Improved GEVACOLOR® Print Film 982. The film that reproduces colors as they really are – purer and more saturated, defining the slightest change in tone textures, clearing up highlights and intensifying blacks. It is the print film that shows you the colors as you have always wanted them.

## Improved 982: The Time-Resistant Print Film

Improved 982 continues the AGFA-GEVAERT tradition of manufacturing films that ensure long-lasting color images. It is the print film that withstands the test of time, and does it even more so on GEVAR base. GEVAR base means - 0.12mm polyester safety. Improved 982 on GEVAR base – if you have used it once you will certainly use it again.

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# FINALLY, AN "UNDER \$10,000" NEWS CAMERA WHOSE BIGGEST SELLING POINT ISN'T THAT IT COSTS UNDER \$10,000.



There's no shortage of portables out there that sell for under \$10,000. The trouble is, price isn't the only thing they're short on.

The new Sony BVP-150, however, is another story. Its MF diode gun Saticon™ tube delivers performance that rivals cameras costing twice its \$8,900\* price. Like 650 lines of resolution at encoded output and a S/N ratio of 57 dB. Not to mention how it achieves a new height in depth of modulation for cameras in this class.

There's also the BVP-150's considerable range of auto-matics to consider. Along with the fact that it can generate composite output for recording on 3/4" or 1", as well as component outputs for direct recording on Betacam™. And, in either case, it's legally airable. Because, unlike many cameras in this class, the BVP-150 is equipped with an RS-170A sync generator and a true I and Q encoder.

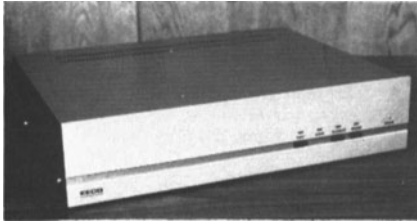
But to get the whole picture, you should call: in NY/NJ, (201) 833-5350; in the Northeast/Mid-Atlantic, (201) 833-5375; in the Midwest, (312) 773-6045; in the Southeast, (404) 451-7671; in the Southwest, (214) 659-3600; in the West, (213) 841-8711.

And find out about the new BVP-150.

The "under \$10,000" news camera that gives you something even better than a low price: high **SONY** performance. Broadcast

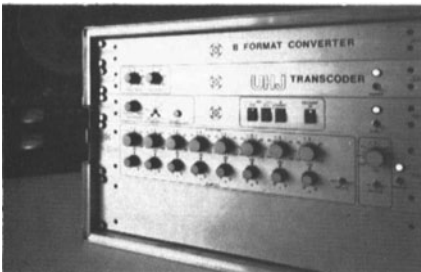
\*U.S. list price (lens not included). Sony Broadcast Products Company, 1600 Queen Anne Rd., Teaneck, NJ 07666. © 1984 Sony Corporation of America. Sony is a registered trademark and Betacam a trademark of Sony Corporation.

soles Inc., 10815 Burbank Blvd., North Hollywood, CA 91601. The Matchless series is a scaled-down version of the Angela series console, utilizing the same circuit design and many of the same features, but in a more compact package. It comes standard in a 26/24 mainframe configuration with larger frames and retrofit extenders available.



VAC-300 still-frame video/audio converter, EECO Inc.

A new system for compressing 10 sec of audio information into every  $1/30$  sec (one frame) of NTSC television signal, a 300 to 1 compression ratio, has been announced by EECO Inc., 1601 E. Chestnut Ave., P.O. Box 659, Santa Ana, CA 92702-0659. The system includes two microprocessor-controlled companion units, the AVC-300 still-frame audio/video converter for audio compression during videodisk premastering, and the VAC-300 still-frame video/audio converter for capturing the compressed audio during playback. A single 30-min videodisk produced with this technique can store 18,000 still-frame images and 100 hr of audio captions.



Ambisonic mastering system, Audio + Design Recording, Inc.

The Ambisonic mastering system, designed to reproduce a complete two or three-dimensional soundfield in the average domestic listening environment, has been announced by Audio + Design Recording, Inc., P.O. Box 786, Bremerton, WA 98310. It requires three (X, Y, and Z) or four (+Z) information channels. Y is an omnidirectional signal of the soundfield consisting of sounds from all directions with equal gain; X, Y, and Z are bidirectional (figure-of-eight) signals pointing, respectively, forward to back, left to right, and up and down. The Z signal is set to zero for horizontal-only surround sound. All four signals represent a total three-dimensional and directional soundfield. The Ambisonic is also compatible with stereo and mono.

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