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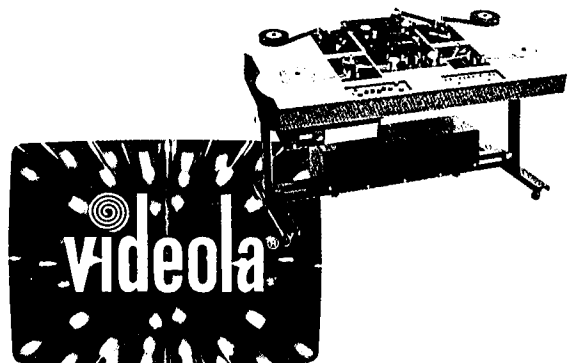
Built around the unique Flickerless Prism® optical system, Videola produces superb images with no sign of flicker, jitter or frame lines . . . at any frame rate. Because the Videola optics merge adjacent frames into a continuously-moving image, TV synchronization is no longer a consideration. Video transfers can be made at crystal-controlled sound speed or at any speed forward or reverse up to 6x (35mm) or 10x (16mm) sound.

Video output will stay state-of-the art for years to come, because the Videola optics deliver their

image to the pickup tube of a high-quality ENG/EFP camera . . . readily exchanged for a future high-resolution model.

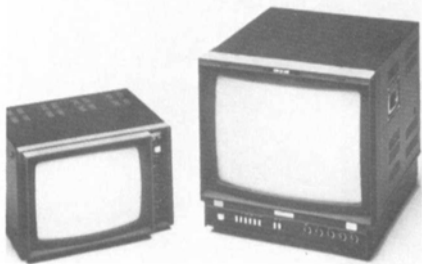
Please write or call for full information on the V-500 and V-1000, and for the names of happy Videola users. In the east, contact Laumic Co. Inc., New York.

Magnasync/Moviola Corporation, A Subsidiary of Craig Corporation, 5539 Riverton Avenue, North Hollywood, CA. (213) 763-8441. Cable: MAGNASYNC. Telex: 67-3199 MAGNA/MOVIO.



of the pack in eight to 12 hours while it is still in the battery compartment.

Controls for tint, color, contrast, and brightness are on the front panel, as well as video input select switch, LED battery-level indicator, earphone plug, and power/volume control. The monitor is equipped with two video input terminals (UHF and EIAJ eight-pin), two video output connectors, and associated audio terminals. A 75-ohm termination switch terminates the VTR input signals or makes them available at the audio and video input/output connectors. Other rear panel connectors are provided for the ac power cord and car battery adaptor. The TM-22U measures 8.6 X 5.5 X 13.6 in. and weighs 9 lb.



Barco monitors.

Two Barco color television monitors, the CM-33 and CM-51, offering pulse-cross

and switch-select features, have been announced by Elector, 5128 Calle del Sol, Santa Clara, CA 95050. The CM-33 (13 in.) is designed for ENG/EFP applications as well as post-production applications. The CM-51 is designed for broadcast applications including commercial playback preview, studio audience viewing, and industrial and educational installations. Both models are available with a medium, standard, or high-resolution delta dot tube. Other features include switch-selectable underscan/overscan, RG off-switch for easy setup, and color temperature switch. Both models are fully modular. Prices are under \$2500.

A Beta-format portable videocassette recorder called the VR9500 Portable Video Director has been announced by Zenith Radio Corp., 1000 Milwaukee Ave., Glenview, IL 60025. Features include picture speed search in forward and reverse, tape search, automatic rewind, direct camera connector, remote control, audio dub, battery caution alarm, and tape counter. The new recorder weighs 10 $\frac{3}{8}$  lb with cassette and battery pack. The optional rechargeable battery pack allows up to one hour of recording and two hours of playback on one charge.



Zenith portable videocassette recorder.

The Model 853A spectrum-analyzer display, a ruggedized portable mainframe incorporating a digital display system for use with the HP series of spectrum-analyzer plug-ins covering from 10 kHz to 21 GHz, has been announced by Hewlett-Packard, 1820 Embarcadero Rd., Palo Alto, CA 94303.

The HP 853A provides two independent 480- by 800-point resolution traces offering user flexibility to store trace data and yet still monitor signal changes. Additional capabilities include Maximum Hold which facilitates measurements such as signal drift, and digital averaging to extract low-level signals from noise without sacrificing sweep speed. Normalization (or Trace Arithmetic) simplifies observation of signal changes within a crowded spectrum or removes system frequency re-

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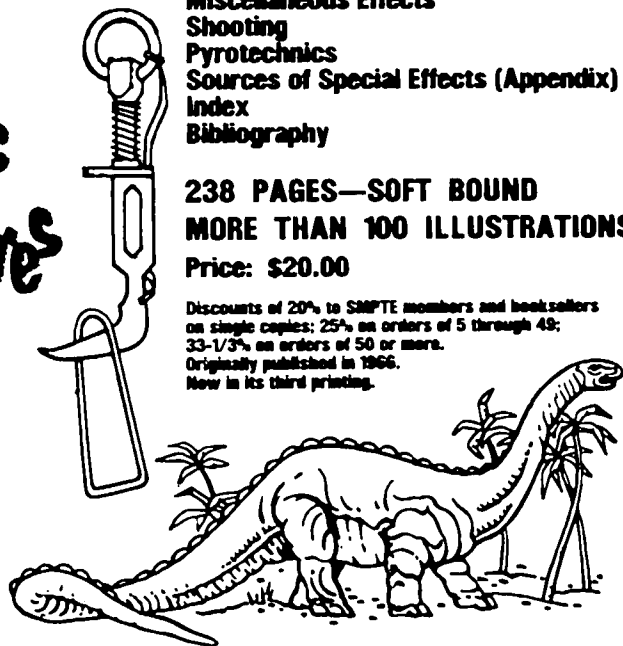
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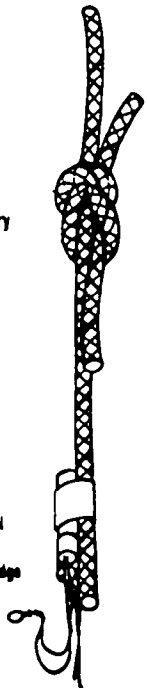
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Optical Effects  
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Sources of Special Effects (Appendix)  
Index  
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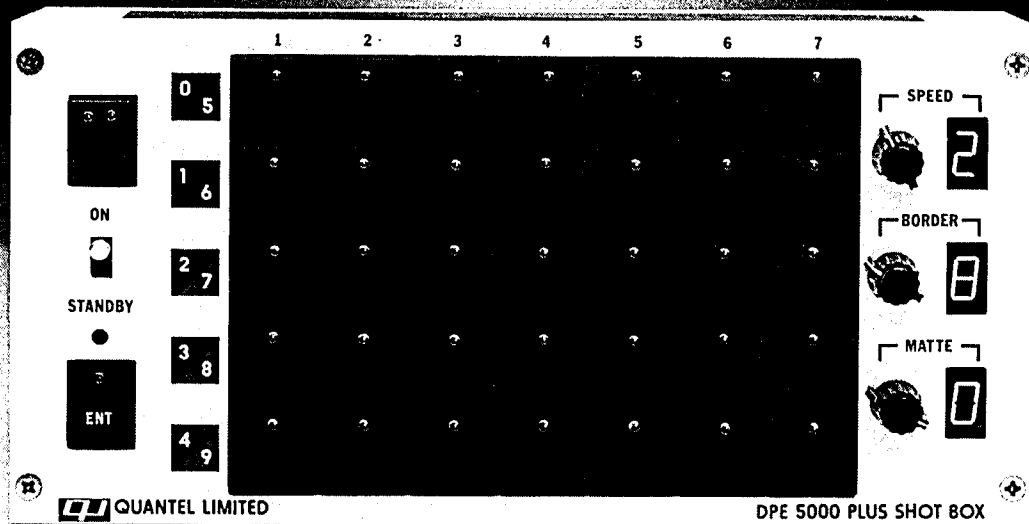
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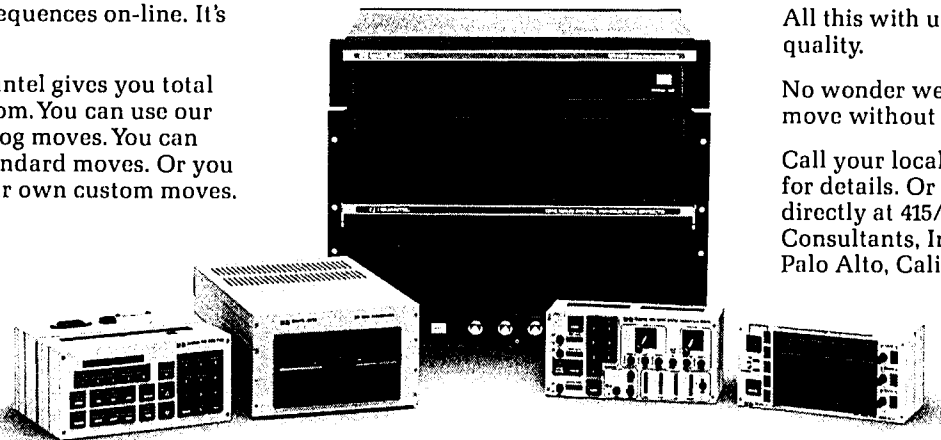
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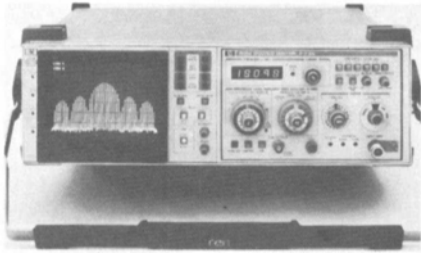
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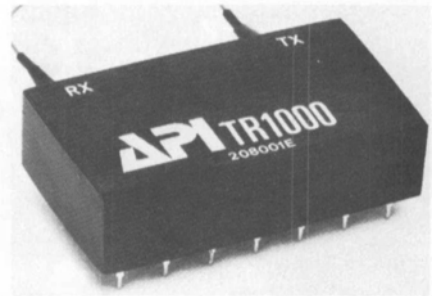
Model 853A spectrum analyzer display.

sponse when using a tracking generator to make stimulus/response measurements. Also included is Direct Plotter Dump capability, permitting both trace and grati-

cule information to be plotted directly on an HF-IB digital plotter via pushbuttons on the front panel.

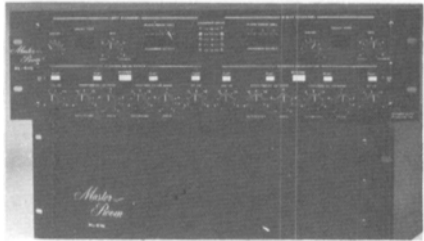
Should a permanent record of many displays, or a comparison and tabulation of data be required, the instrument's HP-IB port can be connected to a controller. In addition to trace data recording, other possibilities in this mode include drawing test limits and providing operator prompts on the analyzer CRT.

The HP 853A measures  $19\frac{3}{4} \times 6\frac{1}{4} \times 20\frac{5}{8}$  in. The price is \$5500. Prices of the spectrum-analyzer plug-ins range from \$6500 to \$11,800.



American Photonics transceiver.

The TR1000 transceiver, announced by American Photonics, Inc., Milltown Office Park, Rt. 22, Brewster, NY 10509, is a low-noise module designed as a fiber optic transmission interface using an LED source and PIN photodetector. The TR1000 is PC board-mountable, provides fiber strain relief, and offers either single or differential inputs allowing it to be interfaced to ECL, TTL, CMOS, and other logic families with a minimum of external circuitry. The unit, measuring  $2.8 \times 1.5 \times \frac{3}{4}$  in., is priced at \$510 in quantities from one to ten.



XL-515 reverberation system.

The Master-Room XL-515 reverberation system has been announced by MICMIX Audio Products, Inc., 2995 Ladybird Lane, Dallas, TX 75220. The system offers three operational modes in full stereo that synthesize the reverberation acoustics characteristics of a live chamber, plate, and concert hall. Any of these three modes can be selected from the main control unit. The Plate mode offers high echo density and the instantaneous diffusive qualities of a plate-type reverberator. The room mode offers the characteristics of live chambers, and the Hall mode provides the reverberation characteristics of a concert hall that can be varied in apparent size and sonic qualities.

The control parameters allow a number of variations in each mode to adapt the sound to the reverberation environments. The continuously variable decay is easily adjustable providing variations from one to six seconds. No change in tonality occurs when the decay time is varied. Decay time is displayed by a two-digit numeric display. The Equalization Section contains high and low fixed controls along with two mid-range sweepable controls, all with 12 dB of boost and cut. The main control unit is housed in a  $5\frac{1}{4}$ -in. rack-mount package. All control functions are located on the front panel and all signal connections are

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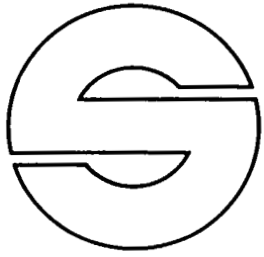
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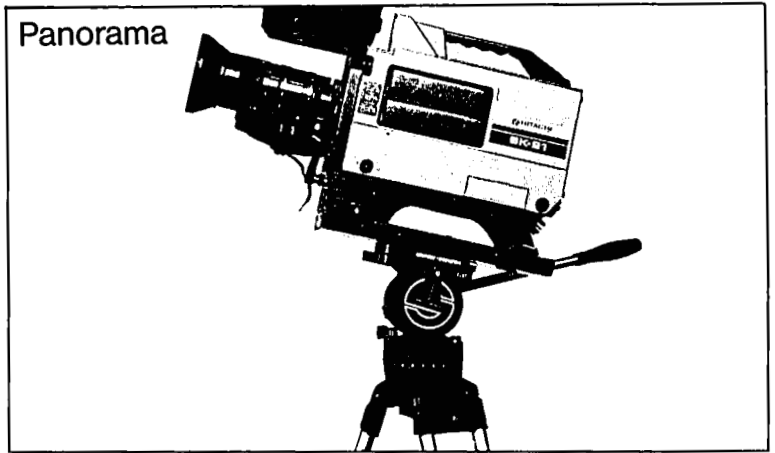
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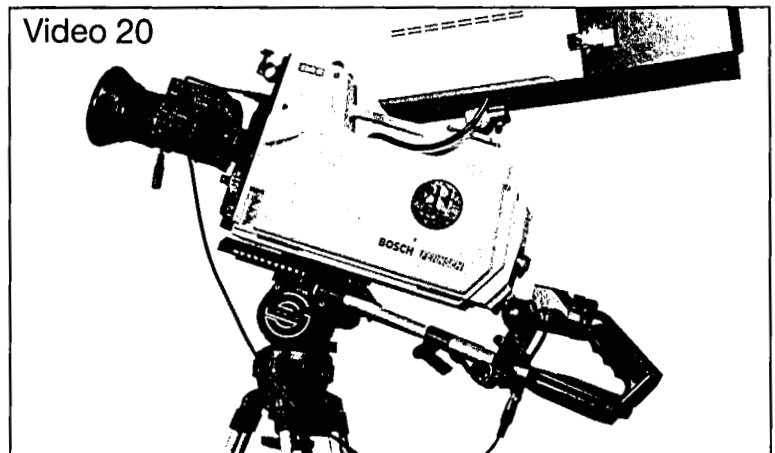
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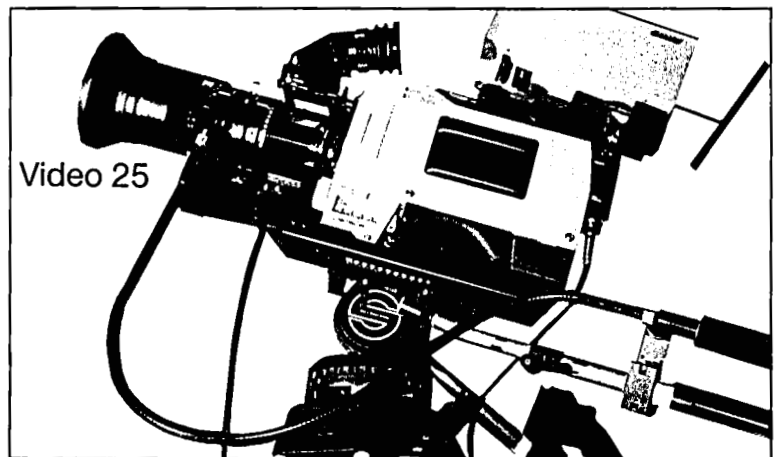
Panorama



Video 20



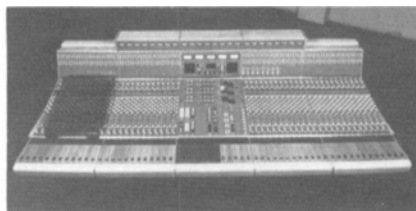
Video 25



Video 30



on the rear panel. Normal operating level is +4 in and out. The price is about \$3990.



*Neve audio console.*

The Neve 51 series of audio consoles, which are applicable to television and film program production including multitrack recording, have been announced by Neve Electronics International Ltd., Cambridge House, Melbourne, Royston, Herts SG8 6AU, England. All models are suitable for both studio and vehicle installations and have been designed for maximum flexibility. Four console types are available in different configurations and with different numbers of input channels and groups. Options allow a comprehensive console to be supplied for any modern studio.

Three new Pulsar film cleaning and inspection machines have been announced by Research Technology International, 4700 Chase, Lincolnwood, IL 60646. The 2800 provides high-speed film inspection having the capability of inspecting a 30-min film in less than a minute. LED readouts indicate thickness, perforation, and soundtrack defects, and also display footage counts and splice counts. Its detection system automatically adjusts for acetate or polyester film.

The 3600 inspects all types of films for different types of defects. Features include RTI's patented one-hand loading and automatic threading, balanced three-motor transport system for smooth film transport, servo-regulated rewind speed for safe high-speed rewind, self-cleaning defect detection, and ultrasonic film sensor.

The 3200 features an advanced technology film inspection system with 100% solid state, logic-controlled electronics, three-motor film transport system, modular designed electronics for easy maintenance and addition of options, and a film safety bypass detector that disengages the cleaning tapes during high-speed rewind.

Available as an option is the Data-Film 820, a microcomputer film analysis system that automatically prints film condition record cards.



*RVS-524 production switcher.*

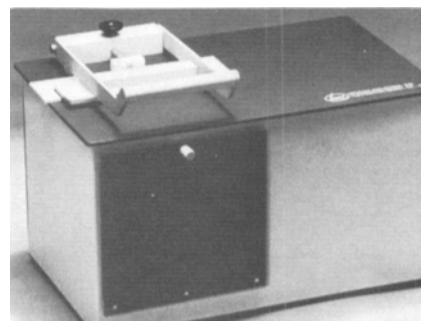
The Model RVS 524 production switcher designed for small studios, editing suites, and mobile vans has been announced by Ross Video Ltd., P.O. Box 220, 9 Plaza Dr., Iroquois, Ont., Canada K0E 1K0. Available with 12 or 20 inputs, the 524 permits manipulation of up to four video signals at one time without locking up the switcher. Features include the Ross transition preview, interfaces for all major computer editors and digital effects systems, analog key borders, and the Ross scene-store memory system.



*GE switchable decoder.*

An automatically switchable decoder for the GE professional large-screen video projectors has been announced by General Electric Co., VDEO, Electronics Park 6-206, Syracuse, NY 13221. The decoder adjusts to display input at any one of the three primary television scanning standards — NTSC, PAL, and SECAM. The built-in decoder accepts input signals from sources in any of the three scanning standards enabling users to display encoded videotapes, video transmissions, and input from video cameras generated at any of the three scanning rates without employment of auxiliary equipment or manual adjustments. The projector system is equipped with logic circuits that automatically identify input signals as NTSC, PAL, or SECAM and make the necessary adjustments such as changes in sweep rates, raster size, and various elements of video circuitry. The projector operator does not need to know which TV standard is being fed to the projector. The decoder feature is available as an option on new projectors or can be retrofitted to recent production models in the GE PJ5000 series. The decoder is priced at \$1500.

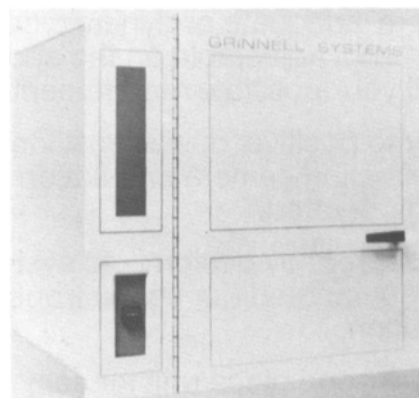
A process control sensitometer, Model S-100, has been announced by Brumac Industries, 5261 Business Dr., Huntington Beach, CA 92649. Features include a fixed synchronous motor speed and highly regulated lamp voltage combined with double beam optical geometry to produce uniform  $\frac{3}{4} \times \frac{3}{4}$ -in. control strips. Easy adjustment of sectored wheel shutter allows variable exposure settings in infinite steps covering



*Model S-100 process control sensitometer.*

a range of 8-, 16-, and 35-mm film as well as sheet film and paper.

A raster graphics display with 1024 × 1024 resolution, high speed vector generation, and full alphanumeric has been announced by Grinnell Systems, 2159 Bering Dr., San Jose, CA 95131. Called the GMR 27-64, the new system produces a 1024 × 1024 interlaced 30 Hz display and generates vectors at speeds as fast as 200 ns per pixel. Displays can be black-and-white or color. Up to 16 colors or eight colors with blink can be displayed. The GMR 27-64 consists of a display generator and power supply, 4 bits of refresh memory, the high speed vector generator, alphanumerics, and rectangle and image generators. The standard system also includes complete pan and zoom and a combined 10 × 12 lookup table/video card. A DEC DR11W Unibus interface is available as an option.



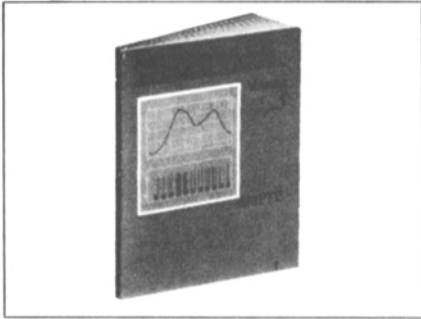
*Raster graphics display.*

The alphanumerics set in the GMR 27-64 feature 7 × 9 characters in 8 × 12 blocks and a font with a capacity of 256 characters. Zoom and pan capability includes zoom factors of 1, 2, 4, and 8 pixel-by-pixel panning and a zoom cursor. The system generates standard RS-170 compatible video signals which drive black-and-white or color video monitors. The GMR 27-64 is housed in a 19-in.-wide, 19 $\frac{1}{4}$ -in.-high rack-mountable chassis. Single system price for the 27-64 is \$15,750. A number of options are available.

Canon Super-Telephoto lenses have been announced by Century Precision Cine/Optics, 10661 Burbank Blvd., North Hollywood, CA 91601. Features include

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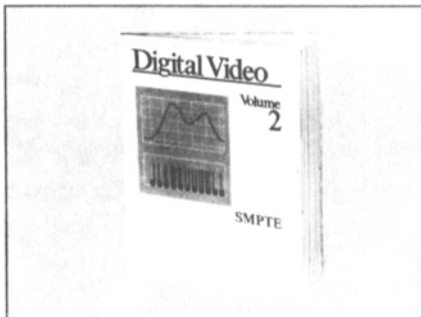
# Digital Video—Volumes 1, 2, 3



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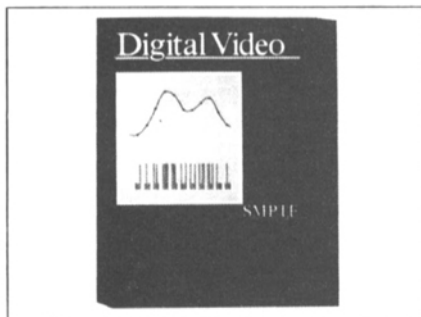
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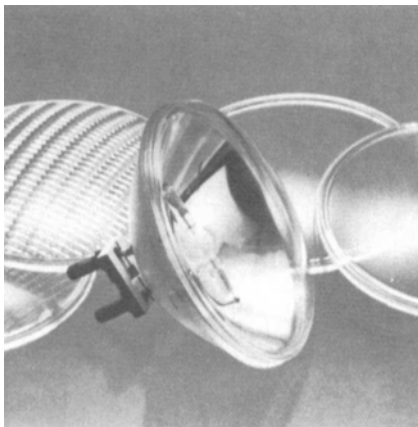
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Canon Super-Telephoto Lens

internal focusing, built-in lens hoods, tripod adapters, super spectra multi-coated optics and, in many cases, both Fluorite and Canon's new ultra-low dispersion glass.

The rear section of the lens, specially modified by Century, has a manual diaphragm calibrated in "T" stops and uses the Century Interchangeable mount system. Adapters are available to fit most professional 16-mm and 35-mm motion-picture cameras and 2/3-in. video cameras. Also available are 1.5X and 2X extenders. A special behind-the-lens rotating mount for polarizing filters is available as an option on some models. Prices start at \$2845.

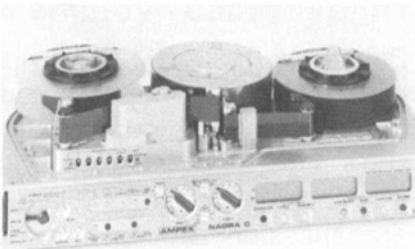


Sylvania Brite Beam lamp

A new Sylvania PAR lamp for film, television, and theater studio use has been announced by GTE Lighting Products, Sylvania Lighting Center, Danvers, MA 01923. Called the Sylvania Brite Beam™ lamp, it is rated at 1200 W and is available in the PAR 64 bulb shape. The lamp produces 100,000 lm or 84 lm/W. Designed as a daylight fill light for studio applications, the color temperature is 5600 K, which means that filters are not necessary to correct color. The lamp is available in four lens patterns — very narrow spot, narrow spot, medium flood, and wide flood. It has an average rated life of 1000 hours.

The 1200-W HMI Molepar® Type 6221 has been added to the daylight HMI family of fixtures by Mole-Richardson Co., 937 North Sycamore Ave., Hollywood, CA 90038. Four separate lenses that mount in

diffuser clips are available — very narrow, narrow, medium, and wide beam — for varied lighting applications. The lens may be rotated for positioning the oval-shaped beam from horizontal to vertical.



Ampex VPR-5 videotape recorder

A portable 1-in. helical scan videotape recorder, weighing less than 15 lb including tape and battery, has been announced by Ampex Corp., 401 Broadway, Redwood City, CA 94063. Called the VPR-5, it is designed for electronic field production, Ampex and Kudelski, S. A., combined state-of-the-art technologies to produce a full performance Type C videotape recorder. The capabilities of Kudelski, S. A., in manufacturing small, rugged audio recorders have been incorporated into the Ampex/NAGRA design. An exclusive audio level control smoothly accommodates the wide range of audio dynamics encountered in a field situation. Seven operator-selectable built-in filters are available to tailor the frequency response to scene acoustics.

The Ampex VPR-5 has comprehensive built-in editing capabilities. C-format video record capabilities have been incorporated, as well as two audio channels and a SMPTE/EBU time code track as standard features. All combinations of video/audio split edits are available.

As a microprocessor-based VTR, the VPR-5 is designed to provide better human interface. LCD displays highlight tape time or time code, operational status, and diagnostic information. Powerful remote control capabilities for the VPR-5 are an additional benefit of its dual microprocessor design.

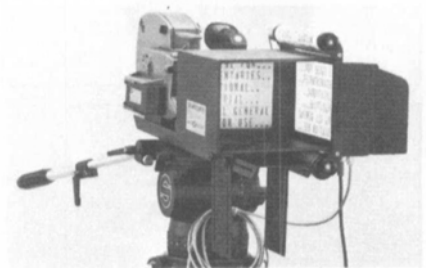
Price of the Ampex VPR-5 is about \$45,000.



JVC Tapehandler videocassette recorder

The upgraded JVC Tapehandler 3/4-in. videocassette recorders announced by US JVC Corp., 41 Slater Drive, Elmwood Park, NJ 07407, offer improved capabilities including SMPTE time code capability. The new CR-8250U editing VCR and

its companion decks, the CR-6650U recorder and CP-5550U player, are designed to eliminate trial-and-error editing and to popularize off-line editing. Because the SMPTE time code is compatible with computers, producers can record edit points on computer, link the computer to the edit controller, and then instruct it to perform edits in sequence. Other features include balanced audio circuits that minimize hum, RF interference, and ground loops.



CPC Camraprompter

A new and improved Camraprompter, a portable film/video camera prompting system, has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. Features include bright, easy-to-read script and silent operation. It is especially useful for all ENG/EFP and film news/documentary, educational, or industrial assignments as well as TV commercials and other applications shot on location.

Script copy can be hand printed or typed on 25-ft matte-finish clear plastic scrolls (or paper rolls) which can be easily loaded and/or exchanged. An optional script board/roller unit is available for convenient and legible hand printing. The compact remote control unit, which has a silent miniaturized motor drive, provides continuously variable speed control (forward or reverse). The system can be operated by the "on camera" subject or by a member of the crew who is pacing the sequence and viewing the script from the side of the Camraprompter.

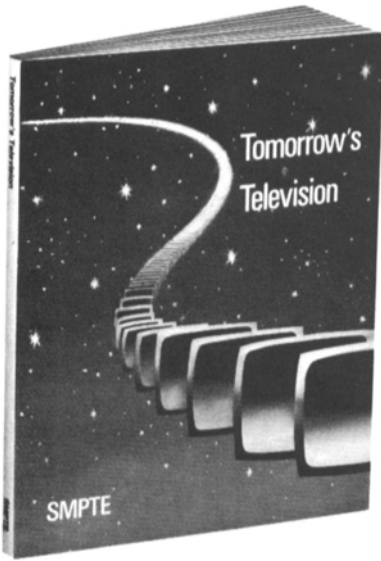
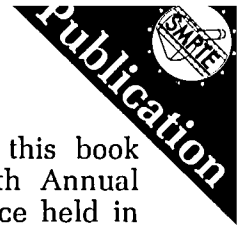
Power is by standard 12-V battery packs, belts, or ac mains. The Camraprompter can be operated tripod-mounted or handheld with most portable motion picture and ENG/EFP video cameras. Prices start at \$2350.

The new Universal Studio Matte Box system has been announced by Cinema Products Corp., 2037 Granville, Ave., Los Angeles, CA 90025. The device can be used interchangeably with 35-mm film cameras, such as Moviecam, CP35, Panaflex, and Arri, as well as the EC-35 for electronic cinematography and professional EFP video cameras.

Weighing about 4 lb, the swing-away style permits easy filter changes. It holds two 4 x 5.65-in. filters in a fully rotatable stage which allows the user to pass filters completely through the holder from

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## CONTENTS

Digitally — What's Up? A Report on Progress and Directions from the Working Group on Digital Video Standards, Kenneth P. Davies, Chairman, <i>WG-DVS, Canadian Broadcasting Corp., Montreal, Quebec, Canada.</i>	Serial Data Machine Control System, Marc S. Walker, <i>Fernseh Inc., Salt Lake City, Utah.</i>
New Integrated Circuits for Video Digital Filters, Willard K. Bucklen, <i>TRW LSI Products, La Jolla, California.</i>	Network of 60 Microcomputers Automates PBS Multi-Channel Satellite Program Distribution, George E. Lemaster and Robert W. Schmidt, <i>Public Broadcasting Service, Washington, D.C.</i>
Code Utilization for Component-Coded Digital Video, David Izraelevitz and Joshua L. Koslov, <i>RCA Laboratories, Princeton, New Jersey.</i>	A General Purpose Machine Control System, Thomas R. Meyer, <i>Dynair, San Diego, California.</i>
Digital Television Tape Recording: Forming a Format, J. L. E. Baldwin, <i>Independent Broadcasting Authority, Winchester, England.</i>	The VIMACS System, B. Greenberg and A. Molenari, <i>American Broadcasting Co., New York, N.Y., and S. Ripley, Dynamic Technology Ltd., London, England.</i>
The Art of Digital Television, Richard J. Taylor, <i>Quantel Ltd., Newbury, England.</i>	A Rationalized Approach to Broadcast Automation, Peter Symes, <i>Central Dynamics Ltd., Montreal, Quebec, Canada.</i>
Development and Applications of Measuring Equipment for Precise Registration of Levels of Television Signals, T. Sueoka, K. Wakui, K. Murakami and H. Nakamura, <i>NHK Technical Research Laboratories, Tokyo, and Shibusaku Co., Ltd., Saitama, Japan.</i>	Television Station Automation: The Station's Viewpoint, John T. Davis, <i>Digital Services Corp., Gainesville, Florida.</i>
Optimization of High Quality Color Camera for ENG/EFP Purposes, A. A. J. Franken, N. V. Philips, <i>Holland and N. V. Rao, Ampere Electronic Co., Slatersville, R.I.</i>	High Definition Television and Compatibility with Existing Standards, Charles Sandbank and M. E. B. Moffat, <i>BBC, London, England.</i>
TV Stereo and Bilingual Service of NHK, Yoshiaki Inamoto, <i>NHK (Japan Broadcasting Corp.), Tokyo, Japan.</i>	An Evolutionary Approach to High Definition Television, Charles W. Rhodes, <i>Tektronix, Inc., Beaverton, Oregon.</i>
Optimum Use of One Inch Type "C" Audio Channels, Martin A. Lilley, <i>Ampex Corp., Redwood City, California.</i>	Color Picture Display System for High Definition Television, Eiichi Taira and Minoru Takeda, <i>Matsushita Electric Industrial Co., Ltd., Osaka, Japan.</i>
A Review of Issues Related to the Choice of Sample Rates for Digital Audio, J. J. Gibson, <i>RCA Laboratories, Princeton, New Jersey.</i>	High Resolution Optical Systems for High Definition Television, Jack Dawson, <i>Fujinon Optical Inc., Scarsdale, New York.</i>
Management of Audio Samples in Digital Television Recording, E. Stanley Busby, Jr., <i>Ampex Corp., Redwood City, California.</i>	A Compatible High Fidelity Television Standard for Satellite Broadcasting, T. S. Robson, <i>Independent Broadcasting Authority, Winchester, England.</i>
Status Report: SMPTE Working Group T14-10: Standardization of Digital Control for Television Equipment, William E. Bauer (Committee Secretary), <i>RCA Corporation, Broadcast Systems, Camden, New Jersey.</i>	Development of a VTR for High Definition TV, H. Shibaya, et al., <i>NHK, Tokyo, Japan.</i>
A Serial Communications Architecture for Real-Time Digital Control, Robert Steele, Graeme Little, William Russell, <i>Ampex Corp., Redwood City, California.</i>	Panel Discussion on Multichannel Television Audio. Moderator: Thomas B. Keller, <i>National Association of Broadcasters.</i> Panelists: Yoshiaki Inamoto, <i>NHK (Japan Broadcasting Corp.); Martin A. Lilley, Ampex Corp.; Bernard Lechner, RCA Laboratories; Alastair Heaslett, Ampex Corp.; Marc Repp, Opryland Productions; Larry Oaker, WTTN, Chicago; David Harrison, Harrison Systems.</i>

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