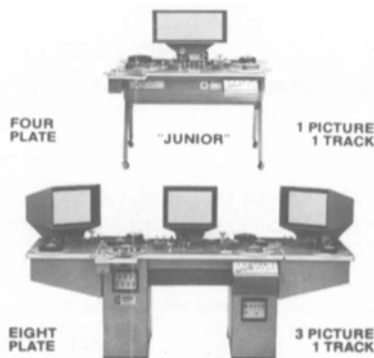


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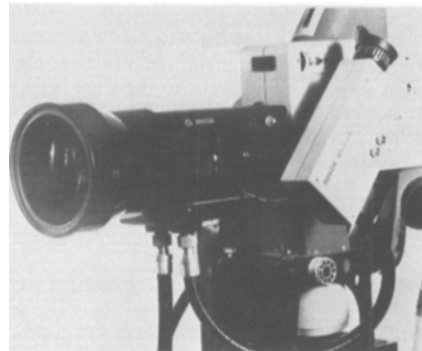
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## New Products & Developments

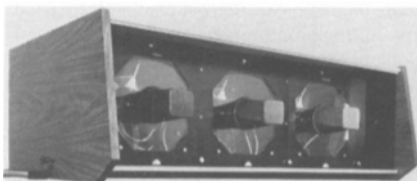
*Further information about these items can be obtained direct from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement of the products or services.*

The PJ5000 large screen color television projector, which provides a picture size variable from 2 ft to 20 ft for front or rear projection, has been announced by General Electric Company, Electronics Park, Syracuse, NY 13201. The projector utilizes the GE light valve, a single-gun, single optical path system which requires no convergence adjustments to reproduce color television pictures of high resolution and contrast. Built-in remote control capability allows set-up adjustment and operating control at the projector or from 200 ft away with the addition of an accessory cable. The removable remote control unit contains the operating controls arranged in a convenient pattern for ease of operation. The projector assembly with elevation tilt adjustments houses the sealed beam xenon lamp, the sealed light valve and projection lens and all electronic components. All components are plug-in types.

In addition to projecting information from all standard video sources, the PJ5000 can be coupled to computer facilities through suitable interface equipment. It can project alpha-numeric data, graphic displays and computer-generated images in real time. Price of the PJ5000 is \$54,000.



England. In the United States the lens was announced by Rank Precision Industries, Inc., 260 N. Route 303, West Nyack, NY 10994. The lens provides the camera user with a common set of optical zoom lens modules for both television broadcast standard cameras and for portables. The MRL provides an angle range of 52:1. Both standard and portable versions have a compact body with controls and the choice of three interchangeable lens fronts. A precision location arrangement and release gives instant lens interchange without the need for re-registration or adjustment of the camera. The interchangeable lens fronts comprise wide, narrow and standard to give a total range of angles of view from 52° to 1°. Price range for the MRL is \$8000 to \$16,000, the price varying according to what version of the lens is required, such as studio or portable, wide angle or narrow angle, with manual controls or full servo controls.



The Spectacolor, a large-screen color television projector has been announced by Electronic Applications, Inc., 25 W. 54 St., New York, NY 10019. Designated CTV-612, the projector uses 40 kV 5-in cathode ray tubes and a 14-in Schmidt lens system. It can project color television pictures from 6 × 8 ft to 9 × 12 ft on matte, lenticular or beaded screens. The Spectacolor is designed for operation by non-technical personnel with such safety features as automatic turn-on sequencing and overload protection. Integrated and solid state circuits are on easily serviced plug-in boards. Operation of the projector, as well as switching and processing of picture/sound information from broadcast and other NTSC sources are remotely controlled from up to 100 ft away from the projector. Price of the Spectacolor is \$9800.

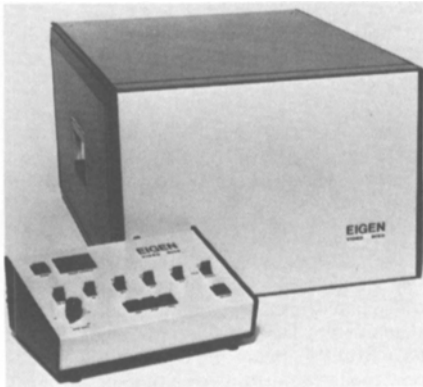


The Color Hip-Switcher, a 2-lb belt-carried device allowing a cameraman to switch, dissolve, superimpose and fade between the images of his own and a second camera up to 100 ft away, has been announced by Adwar Video Corp., 100 Fifth Ave., New York, NY 10011. Designed for portable color video newsgathering and field production, the device does not require an extra sync generator or color phase shifter. The master camera viewfinder previews either camera image and also monitors the program during recording. An external monitor switch and sync generator are installed inside the master camera at Adwar

The Varotal Multi-Role lens (MRL) for television use has been introduced by Rank Optics, P.O. Box 64, Stoughton St., Leicester LE2 0SP,

or in the field with an optional kit. The phase shifter, part of a small junction box connecting the camera, avoids color shifts during fades. Price of the Color Hip-switcher is \$995.

A 12-in professional rack-mount color monitor, the CR6220, has been announced by World Video, Inc., P.O. Box 117, Boyertown, PA 19512. The monitor is designed to provide a high-quality display without automatic circuitry. Features include pulse-cross; pre-set controls; underscan; keyed backporch clamp; high voltage regulation; modular construction and front panel controls for full color set-up. The price is \$1350. A cabinet version is available at the same price.

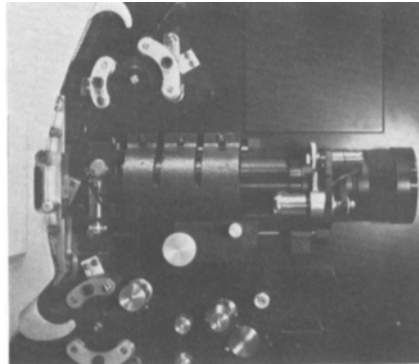


The Eigen Sports Package, a 20-s color slow-motion disc recorder combined with an integral TBC, has been announced by Eigen Video, P.O. Box 1027, Grass Valley, CA 95945. The recorder operates at 3600 r/min. It uses flexible Mylar to eliminate head crashes. The cabinet is 17 in high in a rack mounted configuration. The table top remote control unit can be extended up to 500 ft from the main chassis making it adaptable to van installations. Price of the 20-s Sports Package is \$30,000.

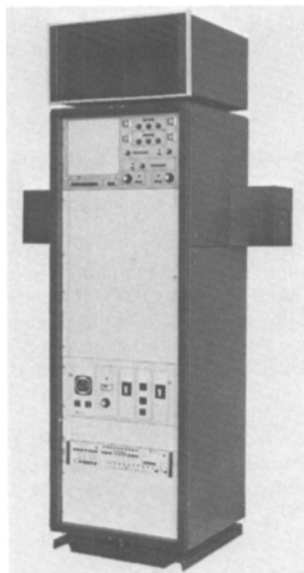
A color broadcast slow-motion recorder with digital TBC has been announced Eigen Video, P.O. Box 1027, Grass Valley, CA 95945. Called the Sportster and intended mainly for sports applications, the 10-s continuous loop recorder is especially suitable for football, hockey and basketball. It is 14 in high and weighs 75 lb. The unit has two heads so slides can be changed on-air as a vertical interval switch. In playback the operator can play single fields or can use the two heads to play a full frame. Operators using the slide capability still have the slow-motion capability as a backup or to isolate another camera. In addition to live sports applications of the Sportster, a color disc recorder may be used for cutting in of animation, jump-cut slides and freeze-frame or field effects for production of commercials or post-production of news tapes. The integral TBC allows the recorder's output to be brought back through the switcher with full color lock. The Sportster is priced at \$20,000.

A Frame Grab and Store option for the Grinnel line of television display systems has been announced by Grinnel Systems Corp., 2986 Scott Blvd., Santa Clara, CA 95050. The option, combined with the high-speed RAM refresh memories used in Grinnel displays, gives users

the ability to grab, digitize and store a full video frame in real time. Any RS-170 video signal can be digitized and stored and the data can then be subjected to further computer processing and analysis. The Frame Grab option is a plug-in card that fits into standard Grinnel display controller cabinets. It is available only on new systems and comes with either a 6-bit or 8-bit resolution. Prices of the Frame Store option card range from \$1000 to \$300 depending on the specific display system and the resolution required.



A Zoom Blow-Up Positioner for use on telecine projectors has been announced by Warren R. Smith Co., 8-09 Fern St., Fair Lawn, NJ 07410. Models are available for both 16mm and 35mm projectors. The unit can be used to correct composition errors, to zoom in or out while transferring film to tape, to pan or tilt independently, to reposition for title insertion, to mix film with a chroma key scene, and to "build" commercials on telecine. The Positioner also makes it possible to zoom without focus change from two to one-fourth frame. It has independent pan-tilt-focus-iris controls and manual or servo motor drives. It has optional CinemaScope capability and a range of zoom lenses can be used. No alteration to the projector is required. Prices range from \$3000 to \$4200.



The CA-3000 Auto Color Balance/Auto Gamma optional accessory for the TCF-3000 telecine camera (shown above) has been announced by TeleMation, Inc., P.O. Box 15068, Salt Lake City, UT 84115. It is designed to improve au-

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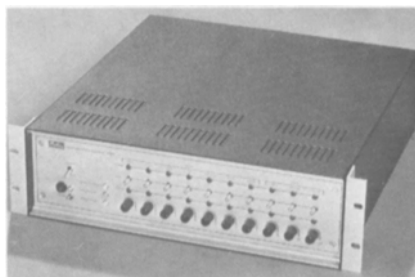
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tomatically the color balance of poor quality film and slides by continuously sampling and correcting selected portions of the signal. Since a common result of rushed or improper film processing is the introduction of unwanted color in white, gray and black portions of the original scene, the device is intended to detect and restore these areas to neutral. Features of the TCF-3000 telecine camera include a prism optical system, a color masking amplifier, a built-in image enhancer, automatic gain stabilization, a built-in optical diplexer; and multiple input port positions. Price of the TCF-3000 with the CA-3000 accessory is \$45,970. The CA-3000 is available separately at a price of \$3145.

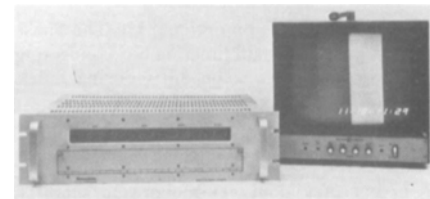


The Automatic Video Equalizer 2504N designed to examine NTSC television pictures for distortion and automatically apply corrections has been announced by Matthey Printed Products Ltd., William Clowes St., Burslem, Stoke-on-Trent ST6 3AT, England. The Matthey representative in the United States is Television Equipment Associates, Bourbon St., Box 260, South Salem, NY 10590. The 2504N works from an Interval Test Signal (ITS) inserted in the vertical blanking interval of the broadcast picture. If users prefer to operate from the Vertical Interval Reference Signal (VIR), the 2504N can be programmed accordingly. If the ITS or VIR signal disappears during the transmission the 2504N will maintain the last corrections applied. Alternatively the 2504N can switch automatically to by-pass. A zero carrier chopper pulse generator can be switched on if desired for use in closed-loop control of unmanned transmitters. The 2504N controls brightness, color saturation, smearing definition and color accuracy — technically, video gain, amplitude and phase 2T and 12½T and burst, sync, amplitude, LF bar tilt, and setup. Manual controls are also provided. Price of the 2504N is \$10,800.

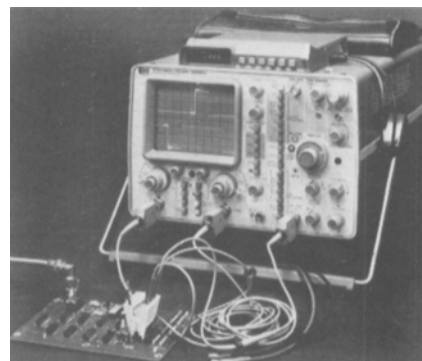
An advanced model of the VPR-10 portable helical video production recorder and several new features that expand the capabilities of the VPR-1 have been announced by Ampex Corp., 401 Broadway, Redwood City, CA 94063. The new features are designed to utilize more fully the potential of the VPR-1's automatic scan tracking option which provides slow motion and still frame playback. The improvements include continuous slow motion which permits the user to go from still frame to play without a noise bar, utilizing a joy stick control.

The advanced model of the VPR-10 has improved editing and servo capabilities operating on self-contained batteries. Price of the VPR-10 is \$34,950.

A new Datametrics digital timing device, Model SP-722, designed to generate and read SMPTE time code and display the decoded time on an editing monitor, has been announced by Gould Inc., Control and Systems Division, 340 Ford-



ham Rd., Wilmington, MA 01887. The digital display of hours/minutes/seconds/frames is accomplished by mixing with the video signal. The time characters are infinitely adjustable to any position on the monitor, have switchable size and style and can be adjusted for optimum intensity. Price of the SP-722 is \$3500.



The Delta Time Oscilloscope, Model 1715A, with dual-channel, delta time capability has been announced by Hewlett-Packard Company, 1501 Page Mill Rd., Palo Alto, CA 94304. The delta time mode can measure the time between two events on channel A, between two events on channel B or between events on either channel. Delta time makes measurements of high-speed digital timing, rise times propagation delay and clock phasing rapid and with greater accuracy than possible with real time oscilloscopes. With an 8 × 10 cm display, dual trace signals on which timing measurements are made can be easily viewed. Internal triggering to 200 MHz requires only 1 cm of vertical deflection. Triggering on-line frequency can be selected. External triggering requires 50 mV peak-to-peak to 100 MHz increasing to 100 mV peak-to-peak at 200 MHz. Vertical deflection factors range from 10 mV to 5 V per division over the full 200 MHz range. Model 1715 A, priced at \$3000, is available with an optional built-in 3½-digit auto-ranging digital multimeter which reads time in seconds, milliseconds or microseconds. The IMM, option 034, can be available initially or as a field installable kit later. It is priced at \$325.



A new solid state AM/FM signal generator, Model 2016, covering the spectrum from 10 kHz to 120 MHz has been announced by Marconi Instruments, 100 Stonehurst Court, Northvale, NJ 07647. The instrument weighs 15 lb and measures about 6 × 11 × 12 in. To ensure freedom from non-harmonically related spurious signals, a system of fundamental frequency

generation is employed, the range being covered in 12 switched bands. Modulation facilities include two internal oscillators at 400 Hz and 1 kHz which may be used independently for FM to 75 kHz deviation or AM depth to 100% or combined with external signals for simultaneous AM and FM. The RF output level of 2-V potential difference is continuously variable by means of coarse and fine attenuators. The low leakage of the generator enables accurate measurements to be made on receivers with sensitivities down to 0.1  $\mu$ V. The total level accuracy of Model 2016 is reported to be  $\pm 1$  dB down to 1  $\mu$ V. Model 2016 is priced at \$2650.

**Fuji H 701 E color videotape**, a 2-in polyester tape with low-noise, high-band characteristics, has been announced by Fuji Photo Film U.S.A., Videotape Division, 350 Fifth Ave., New York, NY 10001. The tape has a color SNR of +5 dB and a video SNR (black-and-white) of +1 dB. Tape life is estimated at about 2000 passes before failure with an average dropout rate of less than 10 per minute.



**U-Do-It Reload Kits** designed to supply new reels of tape to be inserted in any existing U-Matic shells have been announced by 3M Company's Magnetic Audio/Video Products Division, P.O. Box 33600, St. Paul, MN 55133. The only tools required are a Philips-type screwdriver and a pencil. Kits for 60-min videocassettes use the same Scotch brand high-energy tape as that used in Scotch brand U-Matic cassettes. The 30-min and 15-min cassettes use the tougher Scotch brand MBU tape developed for more rugged field applications such as electronic newsgathering. Prices for the Reload Kits are about \$17.50 for the 15-min cassettes; \$21 for the 30-min and \$27.50 for the 60-min.



The **Eumig Macro Sound 65XL** low-light super-8 macro sound camera with a zoom ratio of 6.5:1 has been announced by Eumig (U.S.A.) Inc.,

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Single and double perforation, positive and negative pitch, anamorphic formats. New spring-loaded bridge holds tape taut, keeps end out ready for next splice.

**Perfect registration fast. The CIRO makes its own perforations in the splicing tape, and trims the edges automatically.**

**L**ay the cut film along the recessed splicing block. (Its position pins hold the ends in precise registration.) Pull the tape across the open splice. Lower the chopper. Done.

### Effortless accuracy

A perfect splice. Tape perforations exactly where they should be. Film and tape dead straight. No protruding edges. No effort.

### Frame-line tape edge

In 16mm, both tape edges are on the frame line. Workprints look cleaner. On TV news footage, the splice is effectively invisible at 24 frames per second.

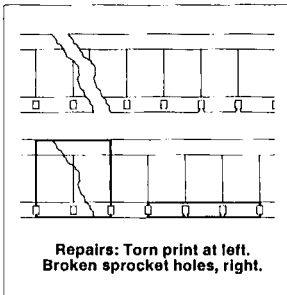
### No frame loss

If you change the cut, there's no frame lost, of course. And since you made the original cut on the CIRO's block, ends match exactly.

### Instant repairs

Broken sprocket-holes can be rebuilt with no tape in the image

area! (See illustration.) With the CIRO, film libraries can repair torn release prints without a jump cut.



Repairs: Torn print at left. Broken sprocket holes, right.

### Easily through the gate

A cement splice almost doubles the film's thickness at that point. CIRO tape on both sides of the film

increases it from about 72/1000 inch to 75/1000 inch! (Horizontal editing machines let you use tape on one side only.) CIRO splices run through projectors smoothly.

### Looks better on screen

Because every CIRO splice is perfectly registered, the image doesn't weave as it goes through the gate. With CIRO tape, the clean, straight sides of the tape run across the film — not a torn-off, serrated section. So dirt doesn't stick.

### Tape two-thirds cheaper

Because it's not perforated, high-quality CIRO tape costs about a third the price of pre-perforated tape. Not a big item — but it adds up. After about thirty rolls, your tape savings have paid for the splicer. (CIRO tape, incidentally, is guaranteed not to telescope.)

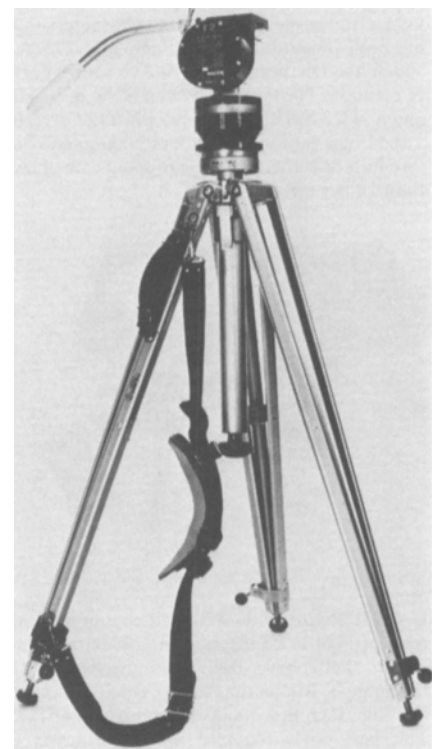
### One year guarantee

Overall, the CIRO is built to last. Stainless steel precision. Nevertheless, every model is guaranteed for a year, parts and labor.

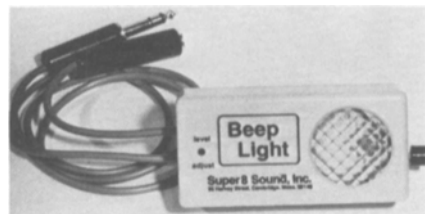
**Ciro Equipment Corp**  
6820 Romaine Street  
Hollywood, Calif. 90038  
Phone: (213) 466-3591

# CIRO

Lake Success Business Park, 225 Community Dr., Great Neck, NY 11020. The camera has an *f*/1.2, 7-45mm XL lens and a 225° shutter. Features include a single frame exposure setting making possible animation or other special effects and a choice of filming speed of 18 or 24 frames/s. Sound sources include a remote control microphone supplied with the camera or an optional standard microphone or an optional boom microphone. Other features include an automatic fade-out/fade-in switch to control picture and sound, a choice of auto or manual exposure control, the Dichromatic Rangefinder focusing system (lens focuses from lens front to infinity) and a wide range of viewfinder indicators. The camera is priced at about \$549.50.



**The IDI Super Stix Tripod**, using Swiss components, has been announced by Image Devices Inc., 1825 N.E. 149 St., P.O. Box 61-0606, Miami, FL 33181. The tripod is constructed of lightweight weatherproof aluminum. It weighs 8½ lb and has a maximum height of 6 ft 7½ in and a minimum height of 2 ft 2 in. Features include removable leg wedges for low angles, adjustable leg friction, a reversible rising column and adjustable telescopic legs with rubber feet and steel spikes. The tripod is supplied with a Miller F head at a price of \$695, a Ronford F-1 head at \$995 or an O'Conner 30 head at \$960.



**The Super8 Sound Beep Light**, an auto-slating accessory for Super8 Sound Recorders I and II and other sync recorders, cassette or reel-to-reel which have a standard low-impedance microphone input, has been announced by Super8 Sound, Inc., 95 Harvey St., Cambridge, MA 02140. The BeepLight is designed to provide the sync function of the slate board used in scripted

## Statement

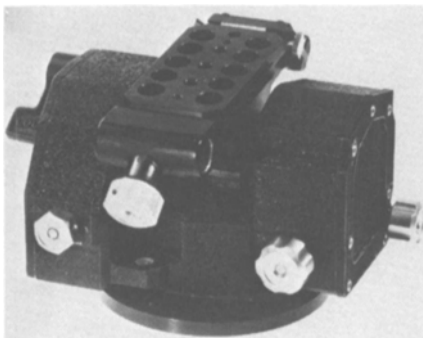
At the request of AATON Grenoble, SOREMEC-CEHESS states publicly that contrary to current rumours the Aäton VII 16 mm camera designed and constructed by AATON in no way infringes upon patents belonging to SOREMEC-CEHESS.

## SOREMEC-CEHESS

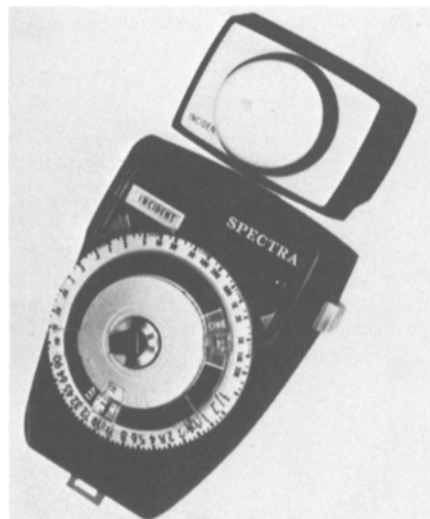
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productions. It produces an extremely bright flash of light, about the length of one frame, and generates simultaneously a 1000-Hz tone burst. When held in front of the camera, the flash of light is filmed and the tone burst is superimposed on the audio track. Later, on the editing bench, shots can be synced by lining up the recorded flash and the beep. No connections to the camera are necessary (only to the sound recorder) making it possible for the BeepLight to slate with crystal sync rigs. The unit measures 1½ × 2 × 4 in and weighs 8 oz. The price is \$75.



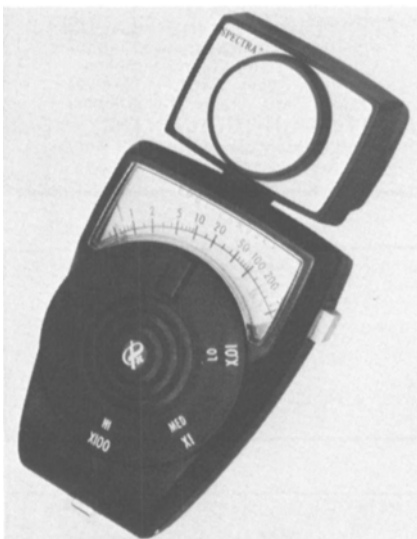
**The O'Connor Model 30**, a new fluid type camera head for motion-picture photography and video cameras, has been announced by O'Connor Engineering Labs, 100 Kalmus Dr., Costa Mesa, CA 92627. Made of cast aluminum, it weighs 5 lb and is 3¾ in high, 7 in wide and 5 in long. It is designed to handle cameras weighing 10 to 30 lb. Pan drag, pan lock, tilt drag and tilt lock all operate independently for greater flexibility. It pans 360°, tilts ± 60° and has a new counterbalance which is adjustable in the field. Other features include frictionless roller and needle bearings. The price is \$675.



**The Spectra Combi II**, a meter for still and cinematography designed to measure all low-light-level situations, has been announced by Ehrenreich Photo-Optical Industries, Inc., Photo Products Division, 101 Crossways Park West, Woodbury, NY 11797. The meter has incident and reflected light measurement readouts. Powered by a 6-V photo battery it has non-mechanical solid state electronic components. Features include a dual silicon photo-cell design. The cell in the Combi II is said to be so sensitive that exposure values can be obtained even when two hands are held over it. Readings can be obtained in light so dim that an 8-min exposure at *f*/1.4 with ASA 25 film can be made.

A three-range metering scale extends from 0.004 to 100,000 fc — a 25 million to 1 lighting ratio. The lowest range registers up to 10 fc illumination. The medium zone handles 0.4 on up to 1000 fc. The high range covers 40 to 100,000 fc. The exposure index extends from ASA 0.10 to ASA 25,000. Cine speeds range from 1 to 256 frames/s. Direct reading apertures range from *f*/0.7 to *f*/90. Price of the Spectra Combi II is \$199.95. A number of accessories are available.

Also announced was the Spectra Professional II, an all-purpose silicon photo cell light meter with a sensitivity range of 0.008 to 80,000 fc a lighting ratio of 10 million to 1. Features include solid-state design, direct stop readings for still and movie cameras and large easy-to-read calibrations. Cine speeds range from 1 to 256 frames/s. The price is \$159.95.



**The Spectra Lumicon**, a direct-reading foot-candle meter with a light-level range of 25 million to 1, has been announced by Ehrenreich Photo-Optical Industries, Inc., Photo Products Division, 101 Crossways Park West, Woodbury, NY 11797. The instrument is said to have the capability of measuring light levels as low as 0.0004 lumens per square foot. The Lumicon takes illuminance measurements directly in footcandles. Measurements are taken with the Photodisk (a flat white diffuser) pointed toward the light source. Cosine-corrected readings are shown. It has three measuring ranges — 0.004 to 10 fc; 0.4 to 1000 fc; and 40 to 100,000 fc. The meter can accept an accessory PhotoSpot attachment which, used in place of the Photodisk, can give the user direct readout of brightness (foot-lambert). Price of The Lumicon is about \$150. The accessory PhotoSpot is priced at about \$109.95.

**The Eumig 824 Sonomatic projector** for super-8 or 8mm projection has been announced by Eumig (U.S.A.) Inc., Lake Success, 225 Community Drive, Great Neck, NY 11020. Features include dual track recording with individual recording and playback capabilities on Track 1, or 2 or on both tracks simultaneously. Fully automatic or manual recording level indicators are provided with a built-in VU meter and an indicator light showing when sound-on-sound recording is taking place. Separate volume and tone controls are provided for improved sound selectivity when recording or playing back. Other features include the ability to erase un-



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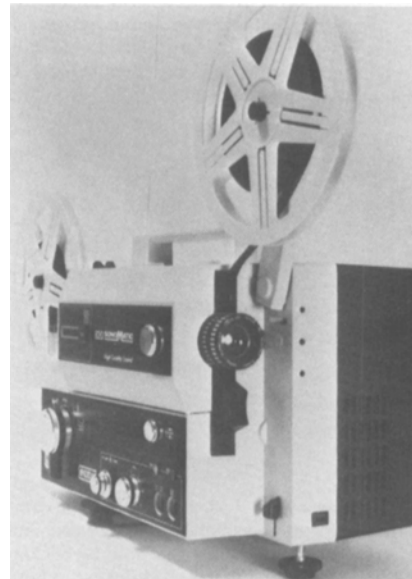
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wanted sounds without erasing surrounding words or music and the ability to add narration or music to silent passages without accidental erasure of the preceding or following soundtrack. Price of the Eumig 824 Sonomatic is \$750.

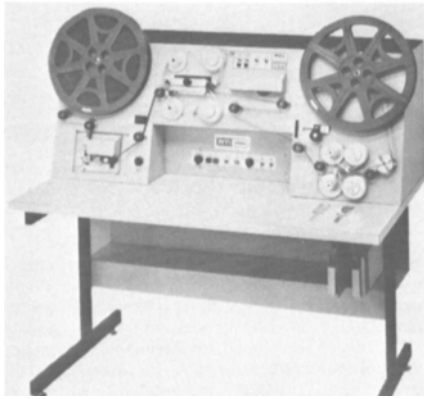


A super-8 sound projector, called the 820 Sonomatic HQS, designed to record, erase, or edit sound has been announced by Eumig (U.S.A.) Inc., Lake Success Business Park, 225 Community Dr., Great Neck, NY 11020. The Sonomatic has a built-in frame counter and programming pushbuttons so that the projector can be preset to start and stop recording at the exact frames required. The 820 Sonomatic provides spot erasing of unwanted words or sounds without erasing the words or music surrounding them. It also can record smooth musical transi-



The Yashica Sound P810 super-8 movie projector has been announced by Yashica Inc., 411 Sette Dr., Paramus, NY 07652. The new projector can play back super-8 or single-8 film with either an optical or magnetic soundtrack. It also has provision for magnetic recording with sound-on-sound and fade-in, fade-out techniques. The projector has a Yashica f/1.3 15-25mm zoom lens and a 12-V 100-W halogen lamp. Reel-to-reel film threading and take-up are automatic. LED displays indicate the various operating modes. Price of the P810 movie projector is \$450.

tions in sync with a change of scene and can add narration or music to silent passages and can record sound-on-sound. The 820 Sonomatic is priced at \$634.



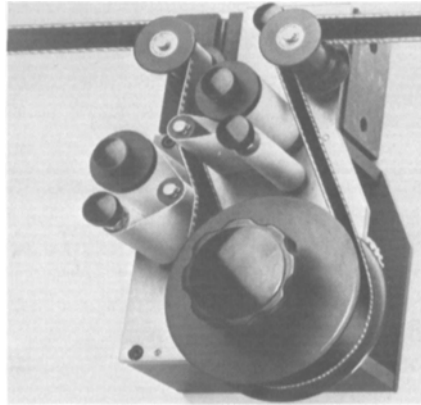
The Omega automatic film inspection unit and the Protector PCL liquid cleaning and conditioning unit have been announced by Research Technology Inc., 8260 Elmwood, Skokie, IL 60076. Film defects are detected on the Omega by the EC (electrical contact automatic detection module). The EC detector allows for overall bypass, stop-on splice and notch bypass capabilities. The detector is completely automatic and engages the film only when the machine is on the "inspect" mode. The presaturated tape cleaning system surface cleans film after inspection and repair.

The Protector cleaning and conditioning unit installs in the center panel of the Omega, allowing simultaneous film inspection and liquid cleaning, conditioning and lubricating. Price of the Omega is \$6500. The Protector PCL is priced at \$2350. The Omega with the Protector PCL installed is shown above.



Unex, a moving fast-changing image and words visual display sign has been announced by American Sign and Indicator Corp., 2310 N. Fancher Way, Spokane, WA 99206. It is suitable for use on cinema theater marquees. The system can be operated by one of several computer-controlled consoles including the Mark 400 desk console and the portable Mark 50. The Mark 400 is programmed using a keyboard similar to a typewriter. A TV-like screen on the console allows the operator to check messages and create graphics. The Unex panel can be programmed to display messages automatically for up to a week in advance. The messages can be changed all day long. The backlit display screen is comprised of a uniform array of thousands of small apertures that may be opened or

closed to form pictures and copy. Prices begin at \$6000.



The Christie Film Cleaner, designed to protect film from damage caused by deterioration and abrasion, has been announced by Christie Electric Corp., 3410 W. 67 St., Los Angeles, CA 90043. It is available in two versions, the FC-1P with brackets for mounting on a projector and the FC-1A with brackets for mounting on the Christie Autowind film handling system. The film cleaner is totally mechanical, driven by the passage of the film. One film cleaner can be used for a multi-theater operation as it can be easily interchanged between projectors and film handling systems by the use of different mounting brackets. The film cleaner uses a cleaning medium designed by 3M Company specifically for cleaning film during laboratory processing. The cleaning cloth lubricates the film and also removes dirt, dust and static. Each roll of cleaning cloth can clean about 10 hours of film. Christie Film Cleaners are available for 16mm, 35mm and 70mm film. Prices are \$395 for 35mm; \$444 for 16mm; and \$530 for 70mm (with either bracket). Extra mounting brackets are available at a price of \$37 each.

A magnetic tape eraser controlled by a foot switch has been announced by Microtran Co., 145 East Mineola Ave., P.O. Box 236, Valley Stream, NY 11582. The eraser, designated Model HD-25/50, provides bulk erasure of program and residual noise from magnetic tape up to 2 in wide on reels to 17 in diameter and magnetic sound film up to 35mm. It may also be used for video and sound cartridges and cassettes with erasure up to 90 dB below saturation level. The eraser is supplied with a cast aluminum foot switch to permit hands-free operation for faster and better control of demagnetizing. The foot-switch is intended to prevent overheating and burn-outs caused by the operator inadvertently failing to de-energize the demagnetizer after use. Two degaussing coils are provided for thorough erasing. The unit measures 14 x 12 x 4 in and weighs 35 lb. The price is \$252.50. The foot-switch may be ordered separately if desired at a price of \$27.50. A plug-in connection eliminates the need for rewiring.

The IDI Superkart, a folding hand truck weighing 2.5 kg and designed to hold a load of 90 kg has been announced by Image Devices Inc., 1825 N.E. 149 St., P.O. Box 61-0606, Miami, FL 33181. The design includes angular wheel lifters for handling load up and down stairs, fold-out lateral load stabilizers and heavy nylon cross webbing to support small-sized loads. The ID Superkart is made of aluminum tubing, stainless steel and heavy-duty industrial casters. The price is \$75.

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