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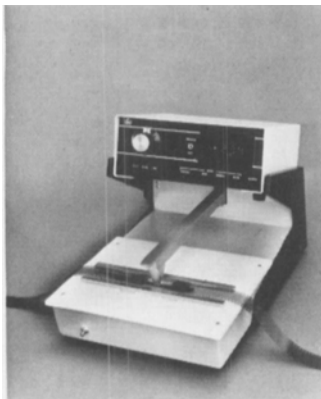
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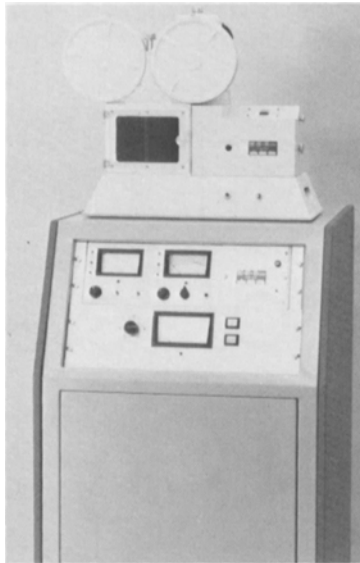
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# New Products & Developments

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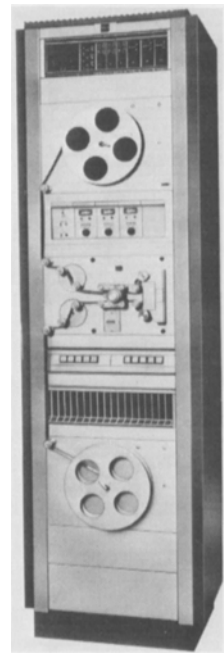
A new solid-state 16mm optical sound recorder system based on the WRE-Maurer F-Prime Galvanometer and improved electronics has been announced by Wide Range Electronics Corp., 2119 Schuetz Road, St. Louis, MO 63141. The system, designated Model 600, features a modular design and consists of three major components — the galvanometer, transport and record electronics.

The WRE-Maurer F-Prime Galvanometer has a frequency response flat within  $\pm 1$  dB to 9000 Hz, a response due mainly to the 0.001-in line thickness of the recording image. Other features include low distortion, dual bilateral track recording and switchable positive or negative tracks. The galvanometer has an increased light output over earlier models and can withstand 1000% signal overload without damage.

The Model 10 Film Transport provides smooth film flow with flutter less than 0.05%, bidirectional operation (A or B wind) and a solid-state optical pickup for monitoring the audio output of the galvanometer, permitting also, simple, fast and reliable testing and adjustments when using special SMPTE test films. A 1200-ft film magazine is supplied with the transport.

Model 350-E Record Electronics has an improved circuit design incorporating a new patented noise reduction amplifier. The unit is completely engineered for ease of setup and reliable operation. The complete system price for Model 600 is \$22,000. The galvanometer, transport and electronics are available as separate components for updating existing systems.

The **PM-86SL**, a new magnetic sound recorder/reproducer system designed to interface with both film and tape machines to meet post-production needs of motion-picture and teleproduction operations, has been announced by RCA Government and Commercial Systems, Moorestown, NJ 08057. The new units have a servo-controlled film transport mechanism designed to apply smooth continuous drive motion to the film. The PM-86SL can be equipped for 16mm or 35mm sound recording. Interchangeable sprockets and plug-in head assemblies permit changing from one film size to the other quickly and easily, the announcement stated. The unit is designed for stand-alone operation and for electrical or electronic interface with other equipment. A built-in electronic facility



permits the PM-86SL to run in synchronization with a variety of machines including another sprocketed sound recorder, a projector, a vidcotape machine or a capstan-drive sound recorder. The unit can be locked to non-sprocketed equipment using SMPTE, EBU and other time code data, with appropriate interface.

The interlock system automatically counts, stores in a "count memory," and corrects position error during start-up and film-run errors caused by a splice or other technical disturbance. The PM-86SL can be locked to an incoming power line (50 or 60 Hz) and can operate at 24 or 25 frames/s. For telecine operation the system can be locked or referenced to TV vertical sync. Prices range from \$9850 to \$23,760 depending upon the number of heads, number of tracks, various capabilities, etc.

The **Avex-1** a modular system providing screening, transferring and final sound mixing capabilities has been announced by Multi-Track

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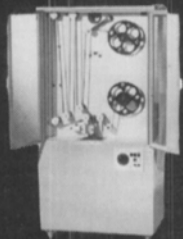
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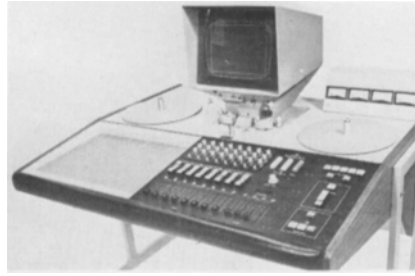


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Magnetics, Inc., One Ruckman Rd., Closter, NJ 07624. The Avex-1 is a small, self-contained, 4-ft console providing film sound production facilities intended for use by TV and film producers, educators and advertising agencies. It provides capabilities for direct tape to magnetic filmstrip transferring on 16mm or 35mm, work track preparation, fingertip control pickup recording, premixing with picture, synchronous 24 frames/s, individually equalized inputs with pushbutton assignment, complete patching and monitoring, and other features, Reverb, echo, noise suppression and other accessories are available. The Avex-1 can be used with the Venture III Dubber Rack or with other conventionally interlocked recorders, reproducers. Prices for a single channel Avex-1 Edit/Mix system begin at \$28,000.

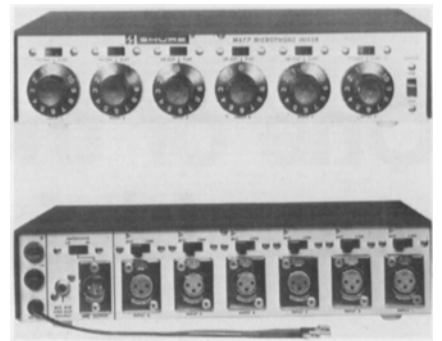
A new range of modules for audio mixing and switching has been announced by Prowest Electronics Ltd., Alma Rd., Windsor, Berkshire, U.K. SL4 3JA. Four field effect transistors in a series-shunt configuration are used as the switching elements. A further series switch on each board reduces crosstalk to 90 dB at 20 kHz. Maximum level through the system is +26 dBm and distortion is held to less than 0.03% at all levels to +20 dB. The four basic modules, a five-channel input buffer, a ten by one crosspoint, a twin output amplifier and a dc-controlled fading amplifier are custom built in 19-in racks to fulfill complex systems requirements. They are based on 7-in PCBs, are balanced throughout and use a common power supply of  $\pm 18$  V. Control of crosspoints can be direct or by a BCD address. The systems are custom built to the requirements of the end user. A typical system, e.g. 20 X 20 would be priced at about £ 9000 and would occupy 28 in of rack space.

The IDI Micro-Mike measuring 8 X 18 X 5 mm has been announced by Image Devices Inc., 1825 N.E. 149 St., Miami, FL 33181. The active element is an electret condenser which is enclosed in a silicon-rubber boot so that it will be isolated from the case. The case is constructed of a smooth plastic material so that clothing will glide over it and there will be minimum noise generation. The FET pre-amplifier is built in and driven by a No. 13 battery located in an inline power module. The microphone is available in two models. Model 14, which has a 138-cm cable with a threaded locking micro plug, is designed for wireless-microphone applications. It is priced at \$110. Model B-30 has a cable 366 cm long with a threaded locking micro plug and balancing transformer with a male connector. It is designed for balanced-input applications but can be immediately converted for unbalanced use. The price is \$140.

The SM11, a dynamic lavalier microphone 1 1/16 in (33.4mm) long and 9/16 in (14.3mm) in diameter, has been announced by Shure Brothers

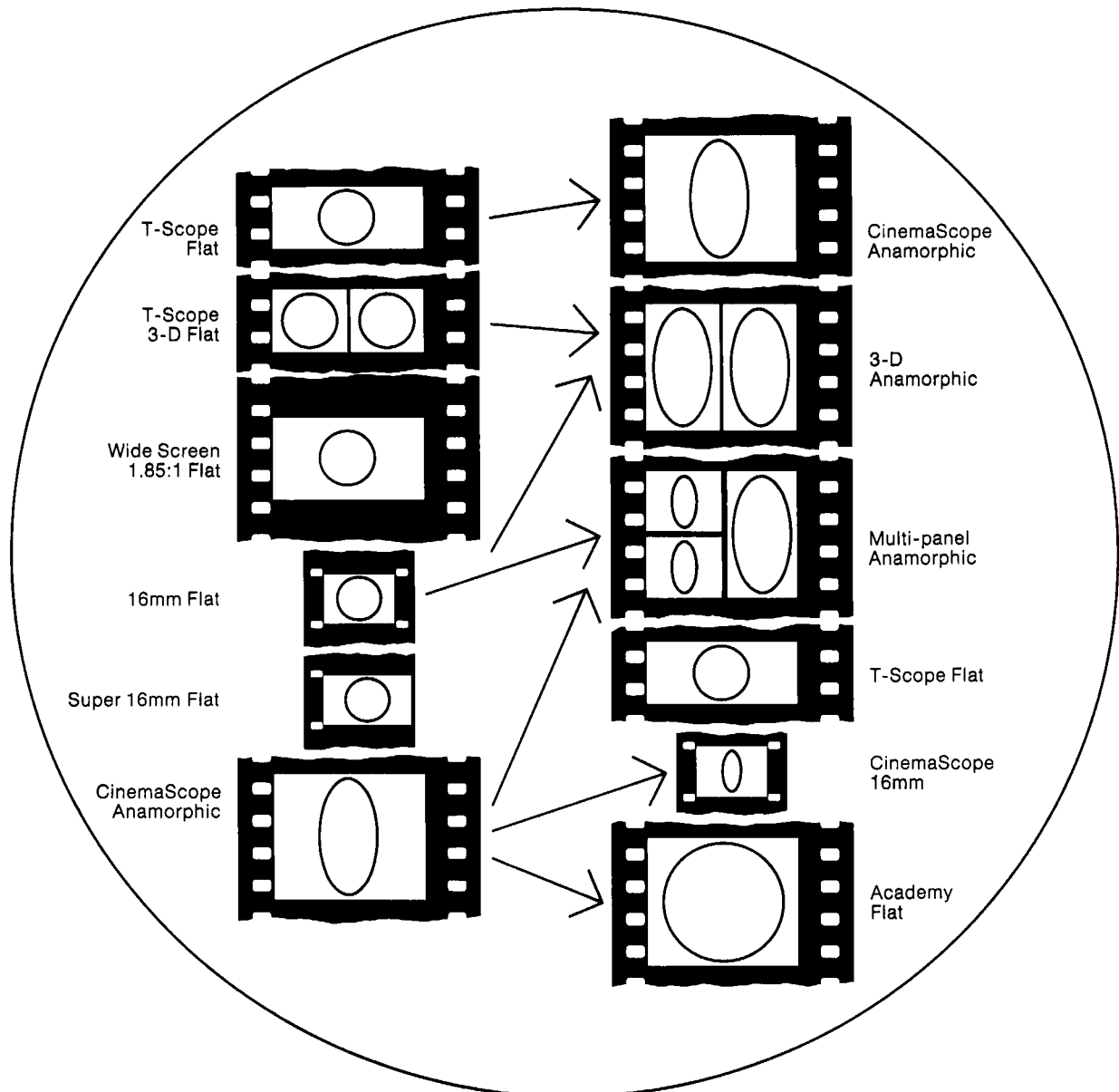
Inc., 222 Hartrey Ave., Evanston, IL 60204. Frequency response of the microphone is 50 to 15,000 Hz optimized for lavalier usage. The SM11 is said to be easily field serviceable should the unit be damaged, eliminating the down time normally encountered during factory servicing. Price of the SM11 is \$57.40 which includes a lavalier cord assembly, a clip-on clasp and a tie-tack assembly and a connector belt clip to prevent the wearer from accidentally disconnecting the microphone from the lavalier or tie-tack.

The Model 9 X 3 Mic-Splitter, a device designed to split up to nine microphones three different ways, has been announced by Sescom, Inc., Box 590, Gardena, CA 90247. The unit has been designed with three outputs for every input making it possible to handle multiple feed requirements such as during a live performance when three simultaneous outputs are necessary. An example of this application would be when one output is used for the PA system, a second for monitor or foldback sound and a third for TV or recording. Other applications include remixing in recording studios and for TV overdubbing and remixing. Performance specifications include its rated primary and secondary impedance of 150-250  $\Omega$  but it is actually designed to bridge a microphone at more than 1200  $\Omega$  impedance. The input level is -10 dBm at 30 Hz with less than 0.2% THD. The 9 X 3 Mic-Splitter measures 7 X 19 in for standard rack mounting and weighs 8.5 lb. The price is \$1045.



A new add-on accessory microphone mixer, Model M677, designed to add up to six additional low impedance balanced microphone inputs (switchable to line level) to a sound system, has been announced by Shure Brothers Inc., 222 Hartrey Ave., Evanston, IL 60204. The new unit is designed as a slave mixer for Shure products such as the M67 and M68 series microphone mixers, the SE30 gated compressor/mixer, the M610 feedback controller and the M63 audio master. The new M677 mixer can be powered either from the 28 to 30 V dc output of the attached master mixer or from a Shure A67B Battery Power Supply. Price of the M677 is \$181.20.

A new multicoated 2X range extender for 35mm motion-picture format, an optical instrument based on the Barlow system, has been announced by Alan Gordon Enterprises Inc., 5362 North Cahuenga Blvd., North Hollywood, CA 91601. The multicoated extenders have six elements to provide optimum resolution. The 2X extender is available in the following lens mounts: Arriflex standard, Eclair CM3 and the Arriflex bayonet constructed of stainless steel. The unit may be



# ANAMORPHIC!

**an-a-mor-pho-sis** (än'ä-môr'fä-sis, -môr-fō'sis) *n., pl. -ses* (-sēz'). *Optics.* An image distorted so that it can be viewed without distortion only from a special angle or with a special instrument. [Medieval Greek *anamorphōsis*, "a forming anew," from Late Greek *anamorphōō* to transform : *ana-* again +

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used with any Arriflex bayonet mounted zoom lenses and certain focusable prime lenses. The price is \$495.

The 5008MS multispeed single and double system sound super-8 camera has been announced by Hervic Corp., 14225 Ventura Blvd., Sherman Oaks, CA 91423. The camera offers a choice of four filming speeds (8, 18, 24 and 45 frames/s) when using either a sound or silent super-8 cartridge. It is equipped with a Beaulieu-Optivaron (Schneider) 6-70 power zoom lens,  $f/1.4$ , with a zoom ratio of 11.7:1. The lens features built-in macro, permitting filming as close as the front element of the lens and a special zoom knob which, when in position, alters the zoom from 6 to 40mm. Features include four sound options (single system, double system, single and double



system plus silent mode of operation); mirror reflex viewing system allowing 100% of the light transmitted by the lens to reach the film as well as the viewing screen; automatic diaphragm control with manual override; and lens interchangeability (35mm still and 16mm cine lenses). Price of the 5008MS is \$2099.50.

A crystal camera control for the Beaulieu 5008S sound camera has been announced by Super8 Sound, Inc., 95 Harvey St., Cambridge, MA 02140. The camera records both sound and picture; therefore, crystal controls on multiple 5008S cameras provide the producer with multiple sound recordings, all in sync. Music footage can be intercut and the sound from one camera can be used with the picture from another without any pitch change. Additional Nizo or Beaulieu 4008 crystal sync cameras can be run

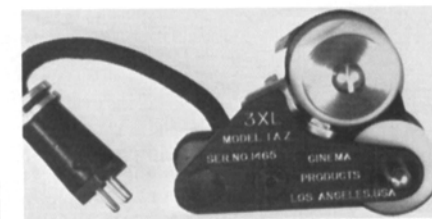


in sync as can separate crystal sync sound recorders such as the Super8 Sound Recorders I and II.

The housing of the Crystal Camera Control is 1 X 2 X 2 in and is mounted on a 2 X 4 in bracket. It weighs 6 oz (170 g). It attaches directly to the camera which is its power source. It is reported to be accurate to within one frame in 13 min. The 5008S camera requires no modification as the control supply plugs into existing sockets; however, the camera must have the standard 1/F contact switch accessory. Price of the 5008S Crystal Camera Control is \$300.



The Super8 Sound Recorder II, an improved version of the super-8 fullcoat magnetic film recorder, has been announced by Super8 Sound, Inc., 95 Harvey St., Cambridge, MA 02140. The new recorder has a superior frequency response (35-16000 Hz) and SNR (63 dB), a built-in synchrometer and it is smaller (11 X 9 X 3 1/2 in) and lighter (8 lb without batteries) than the Super8 Sound Recorder I which will continue to be available. The Super8 Sound Recorder II is based on the Uher 4000 IC recorder. It is compatible with all standard sync sound systems. The price is \$1175.



Availability of the Crystasound 3XL-IAZ magnetic audio record/playback head at the special price of \$270 with the trade-in of any professional type magnetic record head regardless of condition has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. The 3XL-IAZ mag heads are designed for use with CP-16 reflex and nonreflex cameras and all other 16mm cameras accepting Auricon type magnetic heads. The heads are built of a special hard alloy that provides long wearing time. Features include precise azimuth adjustment of the individual record and playback heads to provide optimum recording and monitoring performance.

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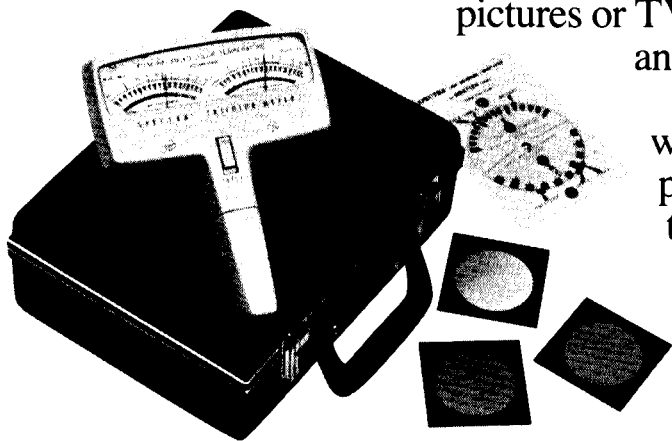
The TriColor is a *full-spectrum* professional color meter. It measures all three primary colors: blue, red, and green. Touch the trigger, and the dual meter needles instantly lock in on the values. Then, just read the correct filtration on a handy pocket computer card.

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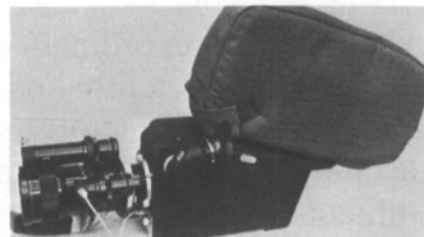
The **Dataslater™**, a self-contained portable slater designed to replace the conventional slate board and clapstick, has been announced by Xenex Products, Inc., 10889 Wilshire Blvd., Suite 1230, Los Angeles, CA 90024. It is designed mainly to provide scene and take identification while simultaneously enabling audio and visual cues to be recorded for subsequent synchronization of soundtrack to picture. The Dataslater measures about 4 × 4 × 8 in. At one end is a lens and at the other a fixed-size copy holder. Internal miniature electric lamps illuminate the copy. Batteries and electronics inside the device power the data lamps, flash the synchronizing lamp and simultaneously produce an audible cue for the soundtrack. External controls near the handle ready the unit and trigger the synchronizing pulse. To operate the device the cameraman inserts the EDP card marked with scene and take numbers, switches on the power, holds the Dataslater in front of the camera, starts the camera and depresses the synchronizing button. After completion of the day's shooting, the film is sent in for processing and the EDP cards are punched and entered into the computer. Price range of the Dataslater is \$29.95 to \$199.50 depending on the model chosen.



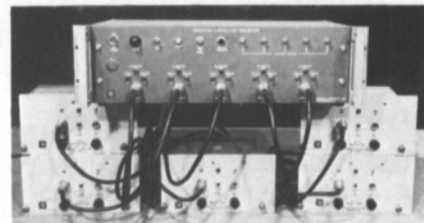
The **Jet-Lux**, a 115-V air-cooled tungsten-halogen light designed to be used handheld, camera-mounted or on a lightstand, has been announced by Cine 60, Inc., Film Center Bldg., 630 Ninth Ave., New York, NY 10036. With an 850-W 3400 K tungsten-halogen lamp the Jet-Lux projects a light beam of 150 fc at 10 ft. A built-in motor-driven forced air cooling system is said to virtually eliminate heat in the light beam. The blower system takes in cooling air through vents at the rear and forces it through the housing, over the surface of the separately mounted etched aluminum reflector then out the front via an air diffusion grille around the rim of the reflector. The weight of the Jet-Lux with a 7.5-ft power cable and a safety glass is 28 oz. It measures 3¼ × 4¼ × 6¾ in. The price is \$65. Two 850-W lamps are available — Model 6214, 3400 K, 115-V, rated life 15 h, price \$14; Model 6215, 3200 K, 115-V, rated life 75 h, price \$16.

The **Macbeth ColorChecker™** chart, a test pattern array of 24 colored squares for use by photographers and cameramen when comparing the color rendition of films, lighting conditions, cameras and lenses, has been announced by the Macbeth Division of Kollmorgen Corp., Little Britain Rd., P.O. Box 950, Newburgh, NY 12550. The colors include spectral simulations of light and dark skin, foliage, blue sky and a blue flower, additive and subtractive primaries,

a six-step neutral scale and other colors. Any given system of reproduction can be evaluated by comparing the rendition with the ColorChecker chart, the announcement stated. This can be done either visually or by measuring the optical density with a densitometer. Also, variables in lighting conditions can be evaluated by using the ColorChecker chart as standard and keeping the reproduction technique constant, the announcement stated. The chart conforms to Munsell notations in terms of hue, value and chroma. It measures 9 × 13 in and is priced at \$19.95.



A special protective cover for PLC-4 magazines designed to afford protection from wind, dust, rain and sun, has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. It is made of Naughayde and the price is \$65.



The **Frezzolini Battery Sequencer** designed to charge automatically up to five Frezzolini HL-33/35 Ikegami Battery Packs has been announced by Frezzolini Electronics Inc., 7 Valley St., Hawthorne, NJ 07506. The device can bring each battery pack in sequence to its full-charge state in 10 h or less. When fully charged each battery pack automatically goes on a trickle-charge rate. A lighted lamp indicates when one or more of the battery packs is ready for use. Price of the Battery Sequencer is \$19.95.



A new series of fixed focal length **Super Speed Distagon** lenses for Arri 16mm cameras has been announced by Arriflex Co. of America, P.O. Box 1102, Woodside, NY 11377. The lenses are rated at a fast  $T/1.3$  and include three focal



## OUR TEAM IS YOUR TEAM

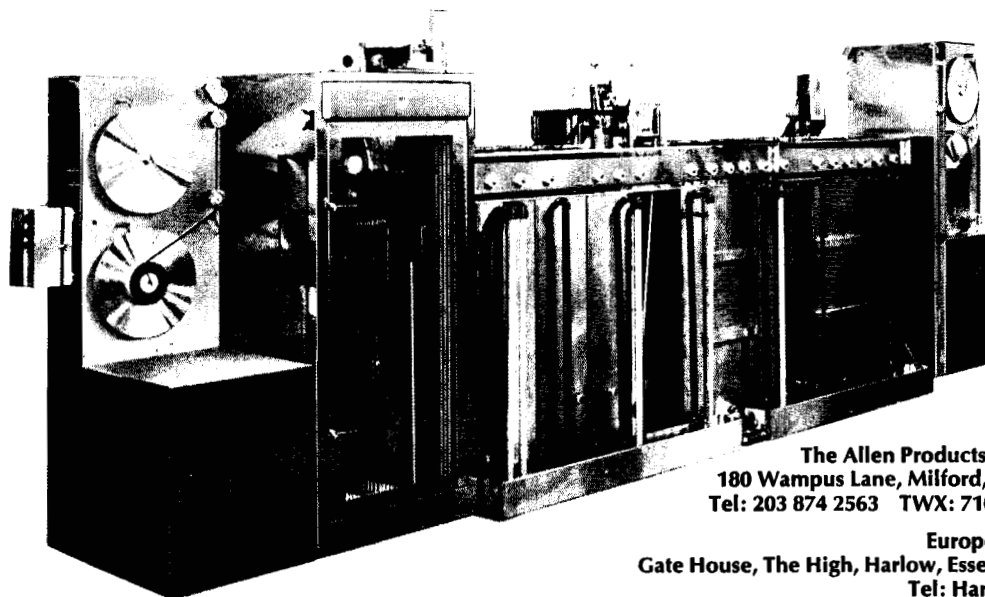
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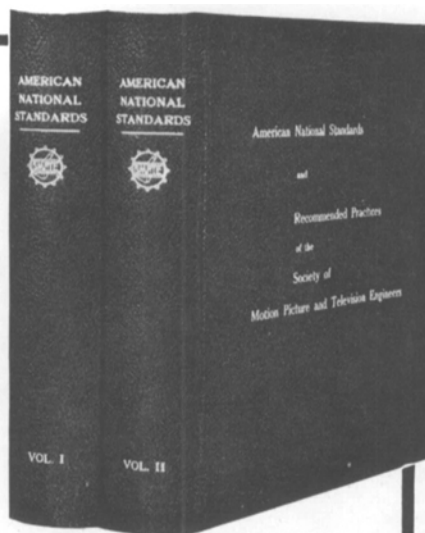


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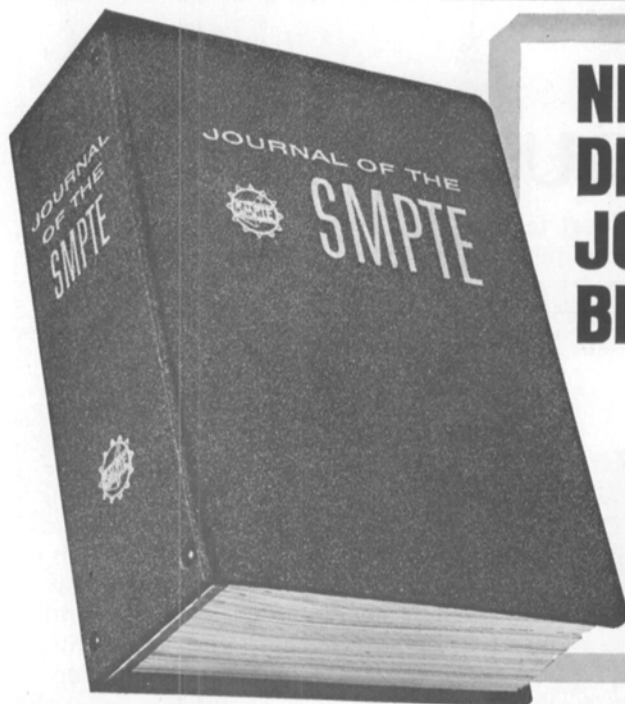
**Society of Motion Picture  
and Television Engineers**

862 Scarsdale Ave., Scarsdale, NY 10583

lengths, 12, 16, and 25mm. The new lenses do not utilize aspheric elements as the design does not require the use of this feature. The lenses in the new series are designed specifically for the 16mm film format and are said to be capable of providing optimum performance at large apertures and at low light levels. The lenses are supplied in the Arri Bayonet Lock. They can be used on all Arriflex 16SR, 16S/B and 16M/B cameras. They can also be used with the 16BL, but when noise levels are critical, they must be used with the Universal Lens Housing for the 16BL together with a new adapter ring set. Prices range from \$1490 to \$1775.



A new viewer-editor, Model MH-1000, has been announced by Filmkraft Services, 6850 Lexington Ave., Hollywood, CA 90038. Designed for simple and fast operation without scratching the film, the device accepts 16mm film in a left-to-right direction without the use of a conventional pressure shoe. A 10-toothed sprocket permits high-speed rewind through the viewer. A four-sided prism is used for optical image stabilization with reduced flicker. A recessed tilted viewing screen measures 3½ × 4½ in. Brightness is in excess of 20 fc. Film threading is fast with no gates to open nor sprocket clamps to close. The sprocket teeth are said to find film perforations automatically. The projection lamphouse is designed to filter out the heat to prevent buckling of the film. Standard film operation is heads to the right, perforations in the rear (mode 1). Special conversions can be made to run heads to the left, perforations to the front (mode 2) or heads to the left, perforations to the rear (mode 3). To prevent noise and friction the viewer uses no gears. The shutter is driven by a freely rotating timing belt. The MH-1000 weighs 12 lb and is priced at \$295.



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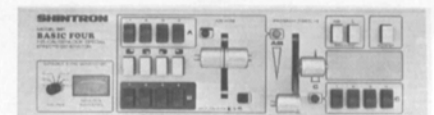
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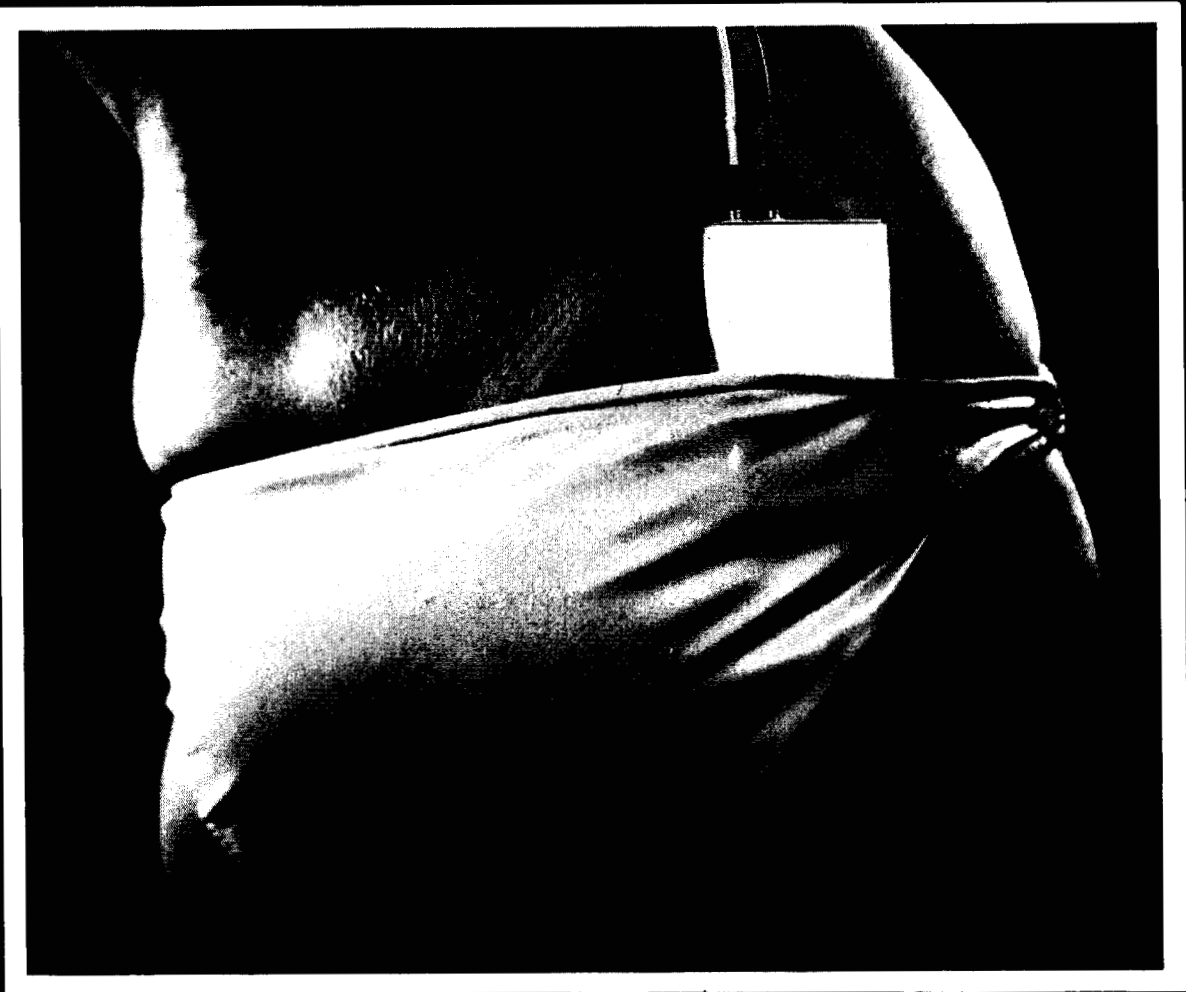
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The Shintron Model 367, a versatile piece of equipment combining the functions of switcher/fader, sync generator, SMPTE Time Code Generator and SMPTE Time Code Reader, has been announced by Shintron Company Inc., 144 Rogers St., Cambridge, MA 02142. Model 367 is contained in a rackmount package. It can be used as the center of a simple color studio with provision for expansion. Other





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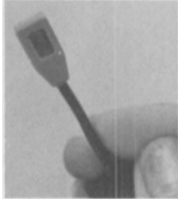


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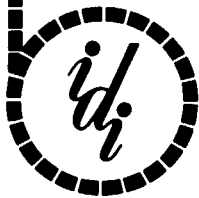


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equipment required would be a system-compatible color camera, color VTR, color monitor and the Shintron Model 367 Edit Code Switcher. This equipment combined with black-and-white cameras and monitors can be used as the basics for a small color studio. Model 367 Edit Code Switcher can be used as the production switcher in a simple production facility. Price of the Shintron Model 367 is \$1320.

A Satchell Carlson 17-in monochrome video monitor, Model 17M922, has been announced by SC Electronics, Inc., Subsidiary of Audiometrics Corp., 530 Fifth Ave., N.W., New Brighton, MN 55112. The monitor was designed for security, surveillance, VTR display, industrial process control, and medical and educational applications. Features include 15 MHz video bandwidth; horizontal resolution in excess of 800 lines; 17 kV high voltage for maximum brightness and contrast; fast AFC action for optimum VTR operation and front panel operating controls. The unit's unitized circuit modules can be interchanged in minutes thus eliminating unnecessary down time and reducing repair costs. Price of Model 17M922 is \$330.



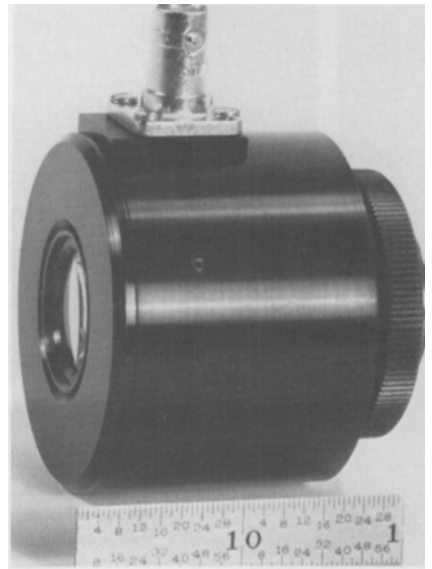
The Eumig Mark 610D Deluxe super-8 projector has been announced by Eumig (U.S.A.) Inc., Lake Success Business Park, 225 Community Dr., Great Neck, NY 11020. The projector is equipped with a newly developed Eumig Suprogon zoom lens,  $f/1.2$ , 12.5 to 25mm. With the short focal length of 12.5mm a relatively large image can be obtained even in very small rooms, for example, a projection distance of about 8 ft will project an image width of about 3½ ft; at 14 ft the projector can fill a 70-in screen. The projector can be used with either 8mm or super-8 film formats. The price is about \$280.



The TeleMation Compositor I Titling/Graphics System for television applications has been announced by TeleMation, Inc., P.O. Box 15068,

Salt Lake City, UT 84115. Using a single disc for storage of the computer program and font library as well as for storage of 800 composed pages, the system consists of a keyboard (shown above) and a set of rackmount equipment. The rackmount items include a minicomputer, a disc memory, the character generator and various interface and video processing equipment.

The fonts are recalled from the disc memory by keyboard commands and written into a 32K X 12-bit random access (RAM) active font memory. Once the fonts are loaded into the active memory they can be displayed on a television monitor by keyboard commands. The basic generator is priced at \$35,900. Optionally available are 28 colors plus black, white and two shades of gray for coloring characters and backgrounds. Background colors and character colors can be changed every four scan lines. An edging option provides a selection of border, drop shadow or outline. With the addition of colorizer and edging options the unit is priced at \$42,700. The addition of a second character generator that would allow the operator to display one page of information while composing a second page would bring the price to \$61,700.



An electrooptical shutter using PLZT ceramic material has been announced by Laikin Optical Corp., 5630 Arbor Vitae St., Los Angeles, CA 90045. The prototype unit shown above is mounted in a 50mm  $f/2.8$  lens in a "C" mount. With no potential applied the device is opaque. Applying a potential increases the transmission reaching a maximum at 600 V. Applications include closed-circuit TV when made a part of the camera electronics. Time required to go from "closed to open" is about 50  $\mu$ s. Other applications include high-speed photography. The price is \$550 without the lens.

The Perf-Fix film perforation repair system has been announced by the Perf-Fix Company, 900 Euclid St., P.O. Box 3208, Santa Monica, CA 90403. The system is said to repair perforation damage in S8, 16 and 35mm film without degrading the film image. Repairs are made at the rate of 10 ft/min. The repair is of the perforation area only and is made with a specially sized, non-oozing, self-adhesive tape. Although the repair tape is only 0.0015 in thick, a tough, tear-resistant polyester base makes possible restoration of perforations that have been

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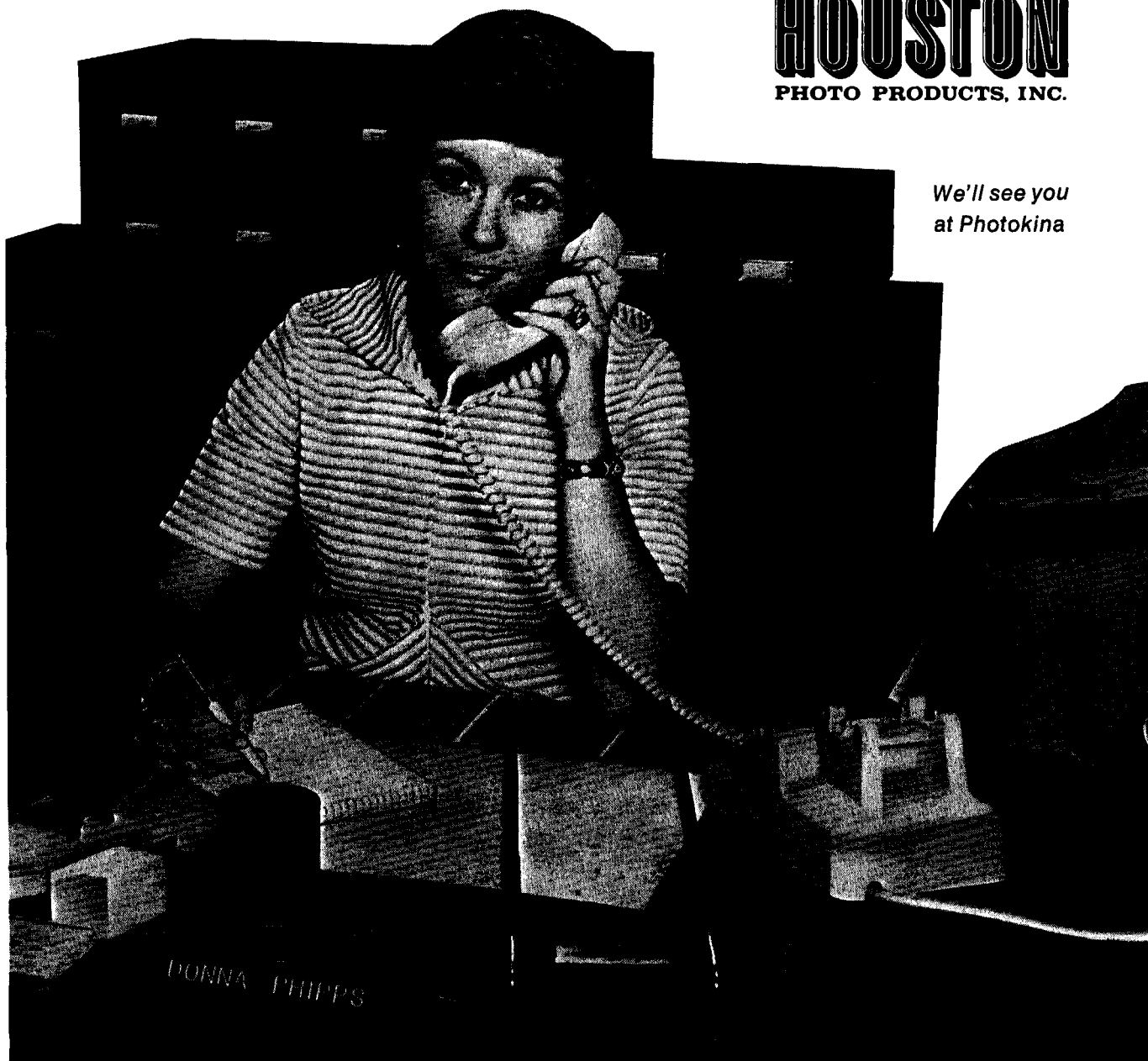
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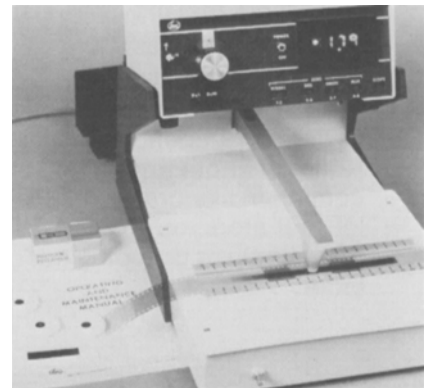
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The Model MP-8 motion-picture densitometer has been announced by Brumac Industries, Box 1786, Huntington Beach, CA 92647. The unit has eight filter positions in a single filter wheel which includes Kodak Certified AA and MM filter sets, an infrared filter for reading optical soundtrack density and a Wratten #106 filter. Four removable apertures including 1-, 2- and 3-mm round plus a 0.012-in x 0.170-in slit are provided. A 35-mm film guide with 21 step divisions plus and 8- and 16-mm film guide adapter are included. Four zero controls plus an internal memory bank allow "zeroing" in all eight filter positions. Eight individual slope controls are provided for each filter position. The MP-8 is an all-solid-state design using a silicon photodetector, plug-in circuit boards and it is fully voltage regulated. The price is \$2795.



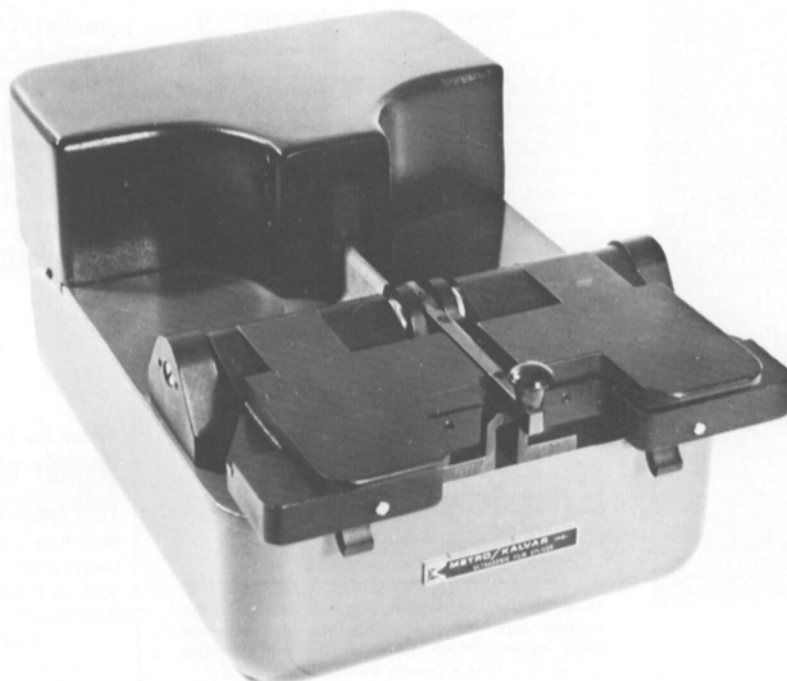
The Model 2026 Ultrasonic Film Splicer for 16mm motion-picture or microfilm applications has been announced by Metro/Kalvar Inc., 745 Post Road, Darien, CT 06820. Designed for use exclusively on polyester base films, the splicer utilizes a 50-kHz generator to fuse films with a 0.020-in overlap splice having a tensile strength of over 25 lb. The unit is portable, measuring 6 x 6 x 8½ in and weighing 7 lb. It operates on 117 V ac, 50-60 Hz. The price is \$1280.

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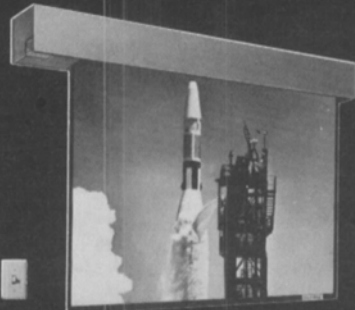
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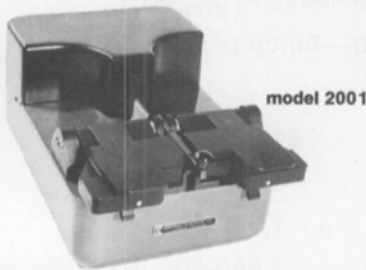
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