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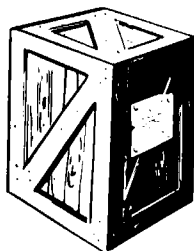
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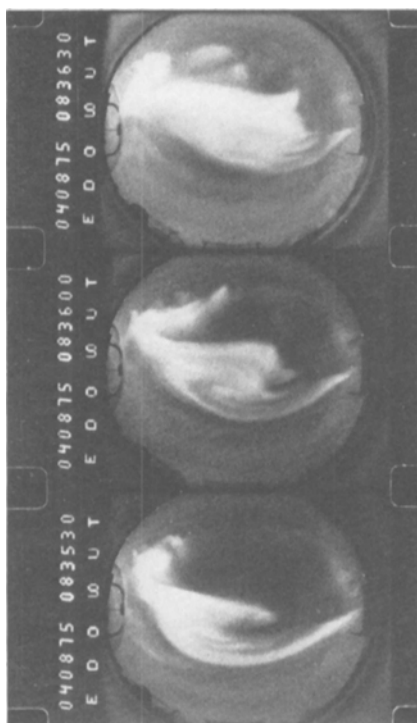
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## new products

(and 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 16mm Automax camera, a pin-registered claw pulldown type accepting 200-ft (61-m) stacked daylight loading spools, has been announced by L-W International, 6416 Variel Ave., Woodland Hills, CA 91364. The camera has a built-in intervalometer which permits setting automatic pulse rates of from 1 to 10 pulses/s. A variety of other pulse rates may be set if an external source is utilized. Cine speeds are to 48 frames/s or 128 frames/s, ac or dc, depending upon the model. Data boxes for simultaneous photographing of the primary image and the data panel are available in various combinations of clocks, LED displays, etc., or they can be ordered empty of instruments for the user's own installation. The intermittent movement of the Automax is designed for long, heavy-duty use even under unfavorable environmental conditions.

The first commercially available 16mm Automax was acquired by the Geophysical Institute, University of Alaska. It was used to photograph the aurora borealis as it made its dynamic sweep across the sky. Shown above are three frames of the film showing station identification and other diagnostic symbols

plus the date at the lower left and universal time at the top left. A 197° fisheye lens was used to get the full sweep of the sky.

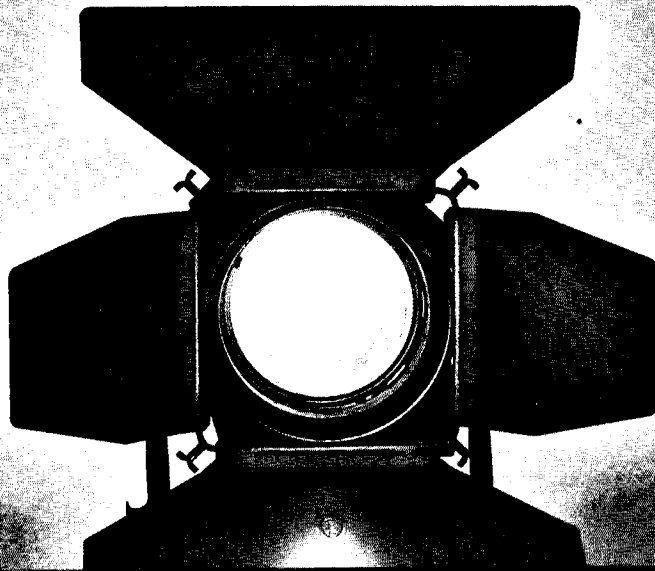
Prices for the 16mm Automax range from \$2495 to \$3395 depending upon the model. In addition a number of optional features and accessories are available including automatic exposure control, boresight tool, timing lights and data box with LED display, clock, slate or counter.



A new available-light super-8 sound movie camera featuring a fast, five-to-one power zoom lens for wide-angle, normal and telephoto movies has been announced by GAF Corp., Consumer Photo Products, 1140 W. 51 St., New York, NY 10020. The camera accepts either drop-in super-8 sound film cartridges for lip-synchronized sound movies or silent super-8 cartridges. The sound system provides audio and visual checks. Features include automatic gain control to assure optimum sound level. The camera may be operated remotely from the microphone switch. A CdS electric eye provides fully automatic exposure. Other features include pushbutton power zoom, backlight and fade controls and Hi-Low switch to help suppress background noise. The price of about \$549.50 includes a microphone and earphone.



A compact, rechargeable power pack and power pack charger for use with both Kodak Supermatic 200 sound camera and Kodak Ektasound movie cameras has been announced by Eastman Kodak Co., 343 State St., Rochester NY 14650. The power pack utilizes six nickel-cadmium cells for a minimum of 500 recharging cycles. A 14-h charge is required to bring the power pack up to its full operating capacity. The fully charged power pack can extend filming capacity to between 2000 and 3000 ft (610 and 915 m) of film. The power-charger unit is priced at \$49.95.



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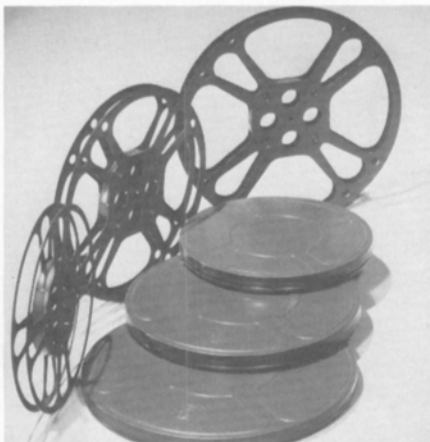
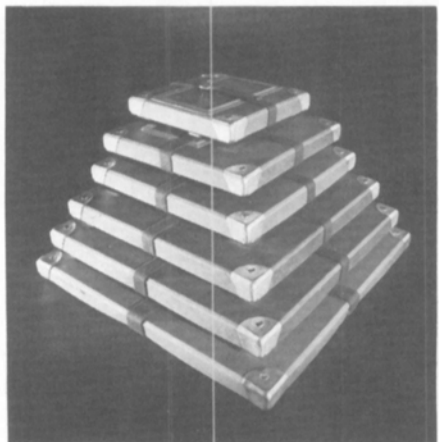
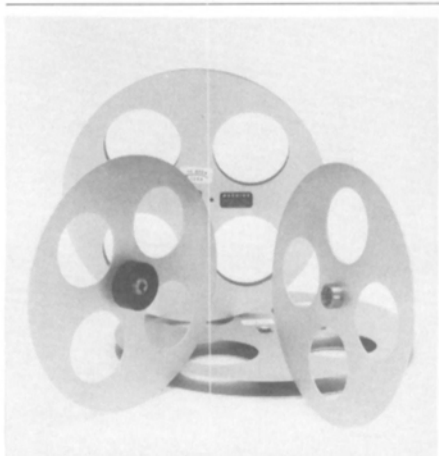
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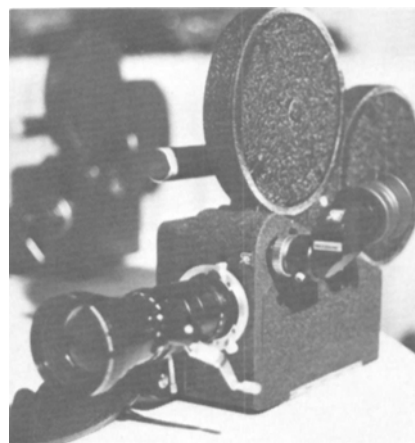
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The Frezzi-Flex, a new 16mm sound-on-film camera, has been announced by Frezzolini Electronics Inc., 7 Valley St., Hawthorne, NJ 07506. Designated Model FR-16, the camera, designed especially for TV news and documentary film production, is light in weight. The camera body weighs 8 lb, 7 oz (3.8 kg). Ready-to-roll the camera weighs 16½ lb (7.5 kg). Well-balanced for handheld shooting, crystal-controlled, standard and multi-speed options are available. The price (less than \$10,000) includes the camera body with finder, an Angenieux 12-120mm zoom lens, a 400-ft Frezzi®/Mitchell magazine, film load, internal battery, side-mount amplifier and soundhead.

Also announced by Frezzolini was the 1000-W portable Frezzi power pack for portable light kits. Designated Model HD-1000A, the power pack can run two 650-W, 120-V light heads for 22 min or a single 1000-W light head for 30 min. The price is \$1995.

Frezzolini also announced the Model F-30 Slim-Line electronic power belt. The belt, 4 in (10.2 cm) high, utilizes NiCad power cells encased in aluminum cassettes mounted on a leather belt. The output is 30 V dc at 4 Ah. The capacity is about 30 min with a 250-W load. The output is automatically disconnected when the battery reaches its minimum voltage.



# The MP-30

## Portable 35mm Sound Projector

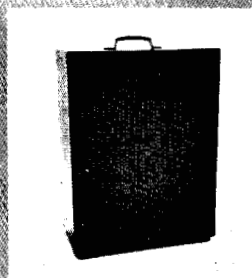
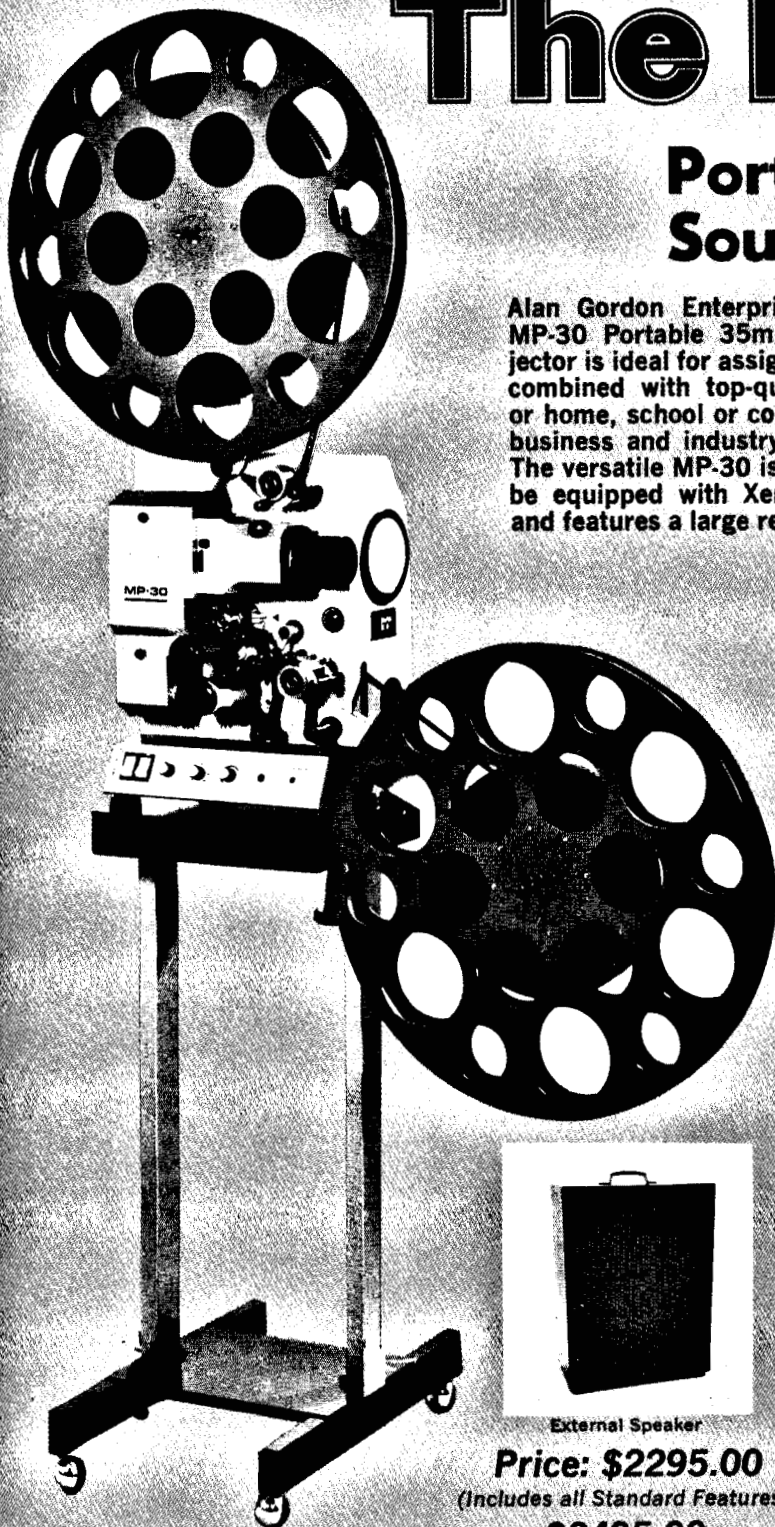
Alan Gordon Enterprises Inc. is pleased to introduce the new MP-30 Portable 35mm Sound Projector. This outstanding projector is ideal for assignments that require portability of equipment combined with top-quality performance. It can serve the office or home, school or college, screening room or advertising agency, business and industry as well as mini or standard-size theaters. The versatile MP-30 is precision engineered throughout, can easily be equipped with Xenon lamphouse for long projection throws, and features a large reel capacity.

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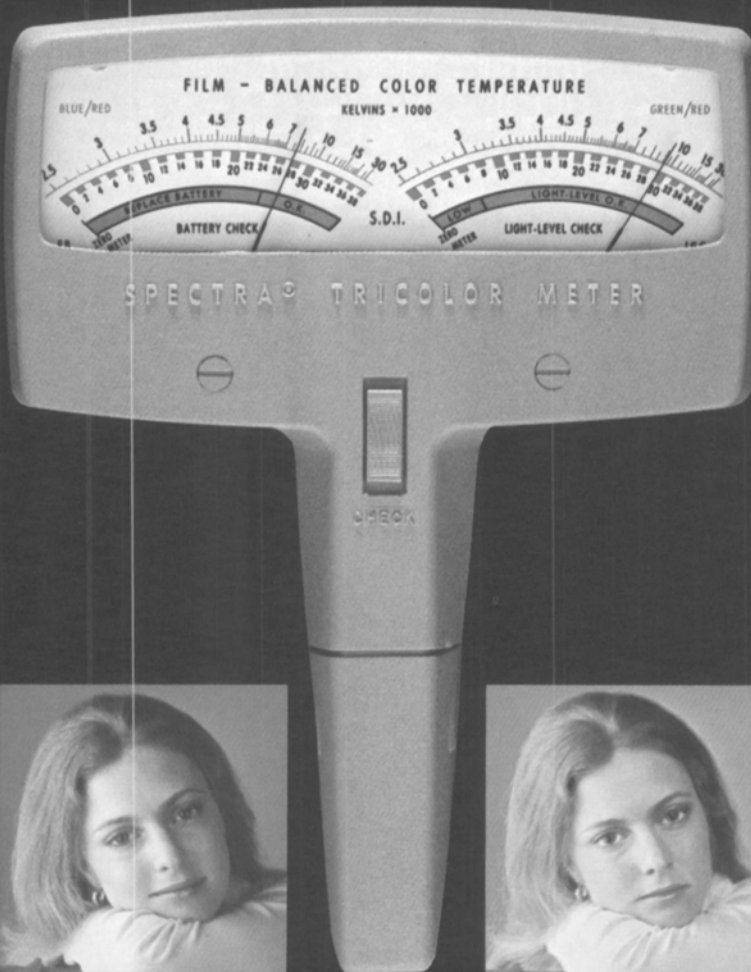


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**The light measurement people**



The Interplex single-tube color camera, which is said to give uniformly good color rendition, has been announced by Siemens AG, D-7500 Karlsruhe 21, Postfach 21 1080, Federal Republic of Germany. The unit consists of a compact camera with a tube and decoder which converts the color information into PAL television signals. The camera uses a new type of dichroic strip filter. The new camera differs from a three-tube camera in that the color distributor used to break down the image arriving from the lens into red, green and blue channels is integrated in the Interplex picture tube making it possible to considerably reduce the size of the camera.

The signal information supplied by the television camera tube in the 4.43-MHz range is converted into standard PAL signals in a decoder with comb filter systems and electronic circuitry. Each frequency spectrum of the black-and-white and color information is separated by the comb filter and here the spectral lines of the video signals are broken into color (chrominance) and luminance information. Additional electronic circuits suppress interference from repetitive luminance in the chrominance channel (cross-color suppression) and are also used to suppress interference in the opposite direction (cross luminance suppression). The individual color signals are processed without loss of information or color rendition and uniformity and can be passed on to a receiver as a PAL coded color signal. The multiplex signal produced by the camera is compatible and can also be shown on a black-and-white set. The camera can be fitted with an antimony trisulphite coated tube (vidicon with integral filter type XQ 1360) or a silicon tube (Interplex vidicon type XQ 1365). The price range is 13,300 and 14,600 DM (about \$5320 and \$5840).

A new infrared-sensitive aerial film with balanced sensitivity, including good green sensitivity, or overall spectral response, has been announced by Eastman Kodak Co., 343 State St., Rochester, NY 14650. The Kodak multi-spectral infrared aerial film (Estar-AH base), SO-289, can be used for the reduction of haze effects for camouflage detection, oblique long-distance photography, high-altitude infrared photography and other applications which require an infrared-sensitive film. The film is a fine grain, high-resolution negative aerial camera film sensitive to infrared radiation as well as to ultraviolet and visible radiation. It requires about two camera stops more exposure than Kodak infrared Aerographic film 2424 (estar base) but it offers improved definition, granularity, higher contrast and more uniform sensitivity throughout its spectral sensitivity range. The contrast of SO-289

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# 35mm Motion Picture Projection Systems for Television & Video Tape

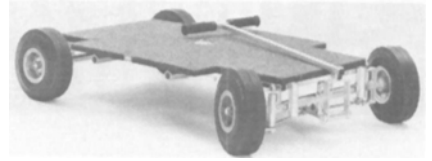
APPLICATIONS

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film decreases with increasing wavelength; the highest contrast is obtained when recording in the blue region of the spectrum and the lowest contrast when recording in the infrared region providing some proportionate compensation of scattered haze. The film has a very thin, highly hardened emulsion coated on 4-mil Estar-AH base. A density of about 0.10 of the gray-tinted base reduced light piping and provides halation protection.

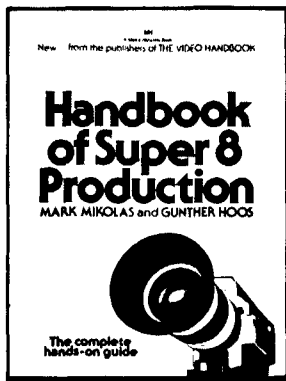


The Matthews Type 5000 Doorway Dolly has been announced by Matthews Studio Equipment, Inc., 2405 Empire Ave., Burbank, CA 91504. The new dolly is 29½ in wide and rides on 10-in pneumatic wheels to provide smoother action than with previous models. Features include 10-in sideboards to extend the working area. The rear axles may be extended 6½ in for increased stability. The price of \$612 includes a push bar, pull handle and sideboards.

Here ... at long last ...  
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## HANDBOOK OF SUPER 8 PRODUCTION

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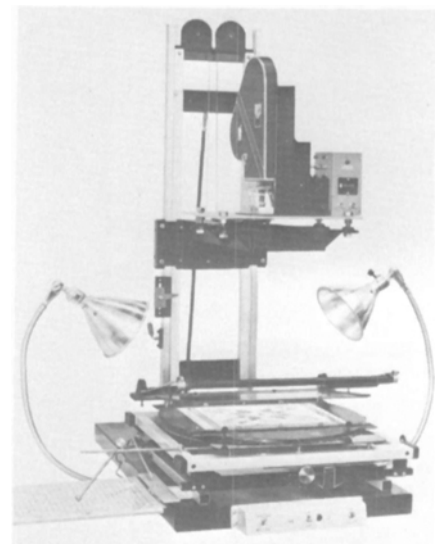
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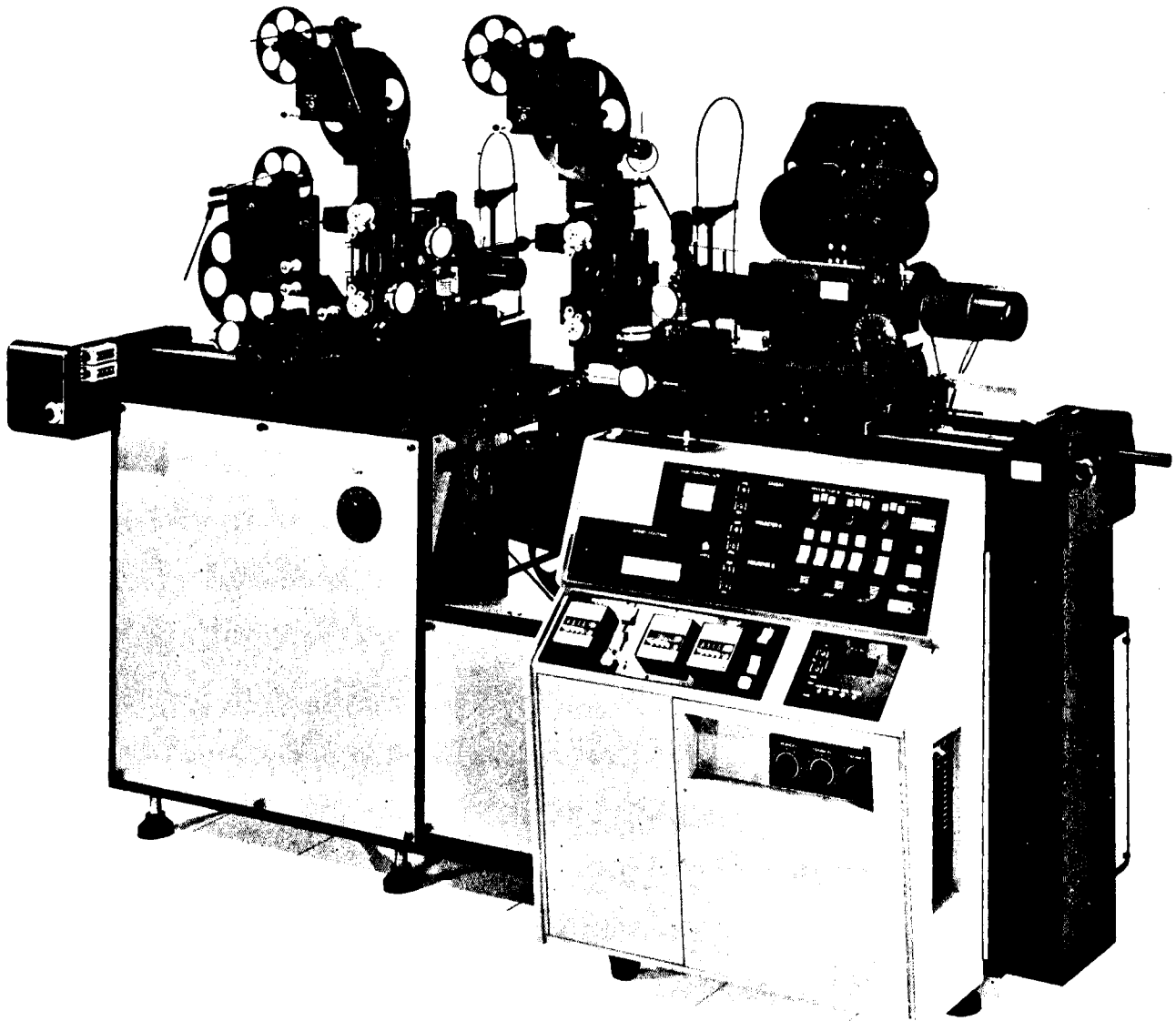
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(Signature)

(Date)



The Fax, Jr., Animation Stand, a table-top model without its own base, has been announced by Fax Co., 374 South Fair Oaks Ave., Pasadena, CA 91105. Features include a cast aluminum supporting bracket traveling vertically on 40-in (101.6-cm) gibs to ensure precise alignment; a pointer to record predetermined positioning; coil springs to assist in manual adjustment and a lock to secure the desired gib positions. A combination disc and platen with top and bottom sliding bars, capable of completing both 12- and 16-field layouts, is attached to the welded steel bottom frame. Either Acme or Oxberry pegs are available. The 2-in-wide (5.1-cm) top and bottom bars with scales in the 20ths allow rapid positioning with the Magnabar® method which utilizes magnetic strips to secure selected movements east or west of center. The large plexiglass window permits back-lighting. Wired lamps and shades are supplied as well as a front-mounted control panel for switch or stop-motion motors. The Fax, Jr., stand is priced at \$896. Twelve- and 16-field discs are



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available separately. Also available is a N-S-E-W compound with scales and pantograph pointers. Disc and platen rotate 360° for spin shots and other effects. The price is \$688.



**A direct bolt-on professional noise-reduction package** for the Nagra IV-S portable stereo tape recorder has been announced by dbx, Inc., 296 Newton St., Waltham, MA 02154. Designated the dbx 192, the device is a two-channel switchable record or playback system reported to be identical in performance with the dbx studio noise-reduction systems. It is reported to combine 30 dB of broadband noise reduction with a 10 dB increase in tape recorder headroom. It requires no level matching and contains only one control—a record/play switch. The package measures 9 × 7 1/8 × 1 1/4 in (22 × 18 × 3 cm) and weighs 2.56 lb (1.16 kg). It bolts directly to existing tapped holes in the Nagra case. Designed without an independent power supply (to keep the weight to a minimum) the 192 draws its 1/3-W power requirement from the Nagra supply. Built to survive the rigors of location recordings, features include a 1/8-in-thick anodized aluminum case, computer-grade glass epoxy circuit boards, metal-cased, hermetically-sealed semiconductors and integrated circuits. The dbx 192 is priced at \$600.

**The Elf Digital Interlock System**, designed to permit sound on conventional tape cassettes to be perfectly synchronized with virtually any standard 16mm or 35mm film projector, has been announced by Elf A.V. Ltd., 836 Yeovil Rd., Trading Estate, Slough, Berks, England. Applications include the production of television news programs where the system can be used for accurate editing and preparation of news film to be accomplished at high speed. The system can also be used with sprocketed sound tapes using two standard film projectors, one for sound and the other for film projection.

Basically the system uses a step-drive motor driven from a power unit within an electronic console which generates pulses or signals. The step-drive motor is fitted within the casing of the Elf film projector to undertake the function of the existing drive motor. An Elf projector modified in this way can still be used for showing films in the conventional way. With this special drive system the projector can operate only from a synchronization signal thus permitting any number of projectors to be synchronized. If the synchronization signal is derived from one track of a tape exact synchronization of the projector with the moving tape is possible. There is said to be no loss of synchronization ensuing from changes in the tape speed or from stopping, starting or reversing.

With a multitrack tape several languages can be synchronized to one mute film. Accuracy of synchronization is reported as better than 0.5% of the total frame area. The price range is from £ 890 for single-axis unit, type E.D. 3, complete with modified Elf 16mm projector Model RM 2, to £ 3050 for two single-axis units, type E.D. 3, complete with two modified Elf 16mm xenon arc projectors. (Elf

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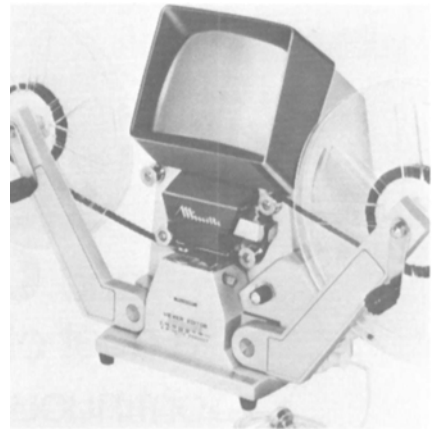
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projectors are sold in the United States under the EIKI brand name. Prices in the United States for the Digital Interlock System have not yet been calculated.)



A new soundhead accessory designed to fit all existing Model S5 and S4 Herculic/Minette super-8 viewer editors without requiring modification to the editor has been announced by Herculic Corp., 14225 Ventura Blvd., Sherman Oaks, CA 91403. The accessory can be attached to the editor by removing the two left-side guide rollers, inserting the soundhead accessory and then re-installing the two guide rollers. The unit features earphone input, battery storage compartment, and integral on/off switch. The soundhead portion of the accessory is an American-made Nortronic unit. When affixed to either the S5 or S4 viewers the soundhead itself is located 18 frames ahead of the scene being viewed. The accessory is priced at \$43.95.

## VIDEODISC RECORDERS

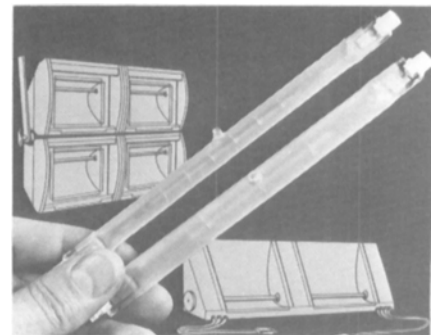
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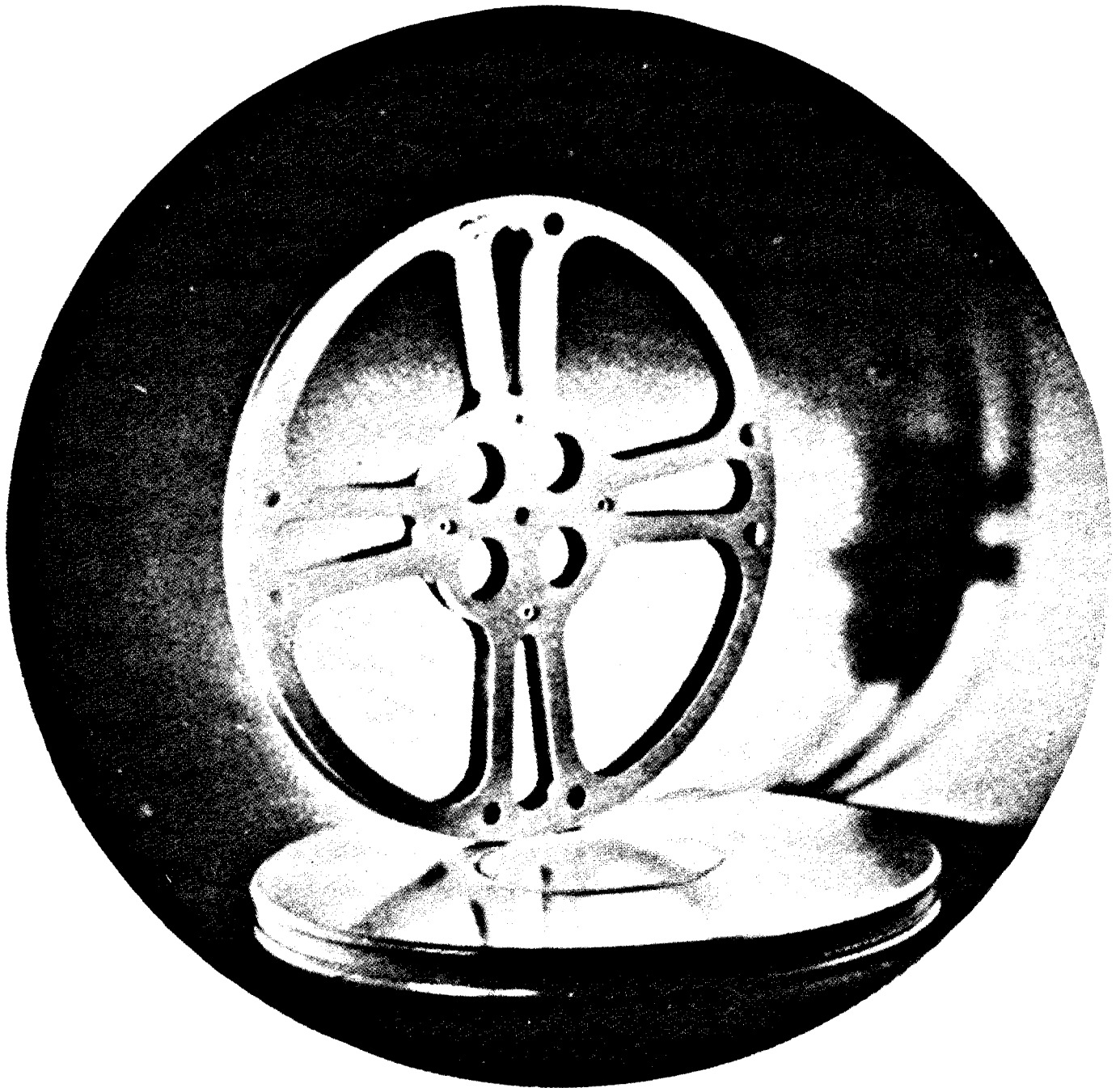
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Two new outside-frosted Quartzline® tungsten-halogen lamps designed for smoother beam patterns in television and motion-picture studio and stage lighting applications has been announced by General Electric's Lamp Div., Nela Park, Cleveland, OH 44112. The new lamps are the 1000-W, 120-V Q1000T3/1 (ANSI Code — FGV) and the 1500-W, 120-V Q1500T4/4 (ANSI Code — FGT). Intended mainly for use in "cyc strips" and other types of cyclorama lighting units for illuminating scenic backgrounds, the lamps can also be used in "broads" (wide-beam reflector-type floodlight fixtures). The new lamps are tubular-shaped, double-ended and have an overall length of 6 $\frac{1}{16}$  in (16.6 cm). They have linear filaments for operating in the horizontal or near-horizontal position. They have a color temperature of 3200 K and have recessed single-contact bases. The Q1000/1 has an average rated life of 500 h. It is priced at \$31. The Q1500/4 has an average rated life of 400 h. The price is \$32.50.



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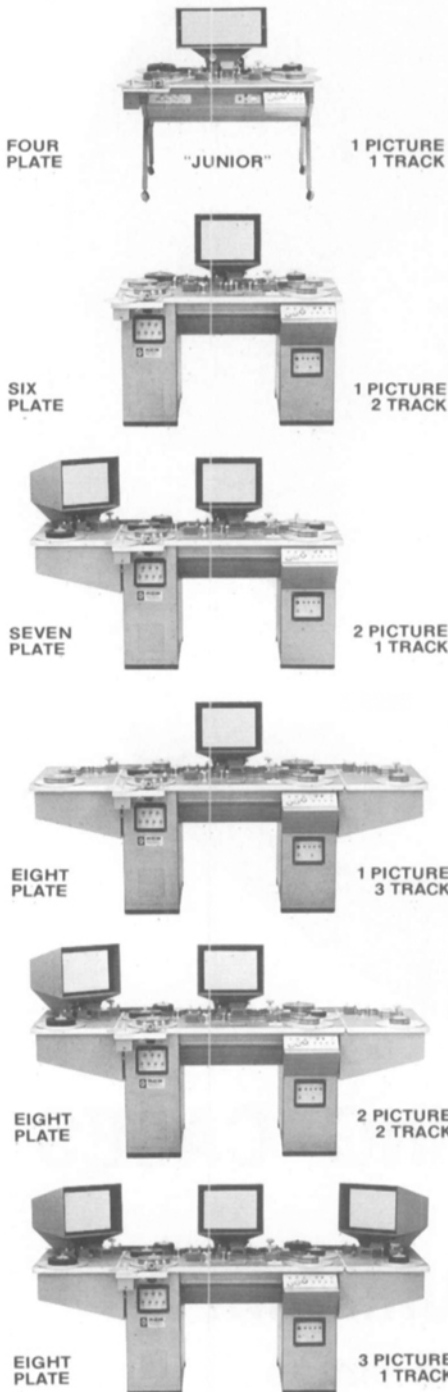
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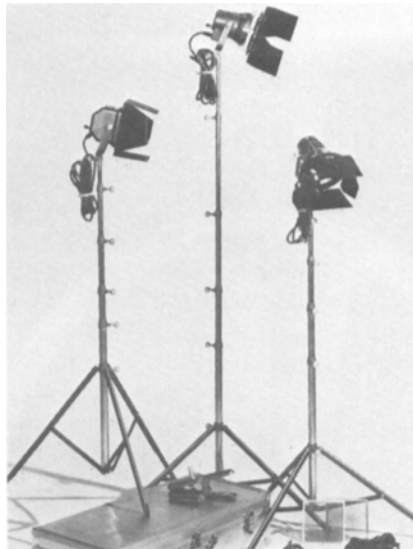


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The Aero-Kit, a compact lighting kit packaged in an aluminum carrying case measuring 6½ by 12 by 26½ in (16.5 × 30.5 × 64 cm) and weighing less than 31 lb (14.1 kg), has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. The kit contains two focusing 600-W spots and two detachable rotating four-way barndoors, one focusing 600-W fill light with integral four-way barndoors, two scrims, three 10-ft three-wire cables (with in-line switch), three 15-ft three-wire extension cables, one gator grip, and three professional-type stainless steel light stands. The light stands (10 ft (3.1 m) high when extended and 24 in (61 cm) high when telescoped) are designed with extendible legs to permit easy and stable placement of the light stand on uneven ground surfaces. Each of the lighting fixtures operates with 600-W lamps at 120-V ac/dc; each fixture can also be used with 250-W lamps for 30-V dc battery operation. The two focusing spots and the focusing fill light are equipped with new and improved quartz lamp sockets designed to be especially heat-resistant. The Aero-Kit is designed especially for motion-

picture documentary-type on-location photography as well as for still photography. The price is \$425.

The Stabilarc® Constant Power Ballast for the Osram series of Metallogen® HMI daylight spectrum lamps and a high-voltage Lampstarter Module™ for the same lamp family have been announced by the TDC Division of Frequency Technology, Inc., Box 365, Whitcomb Ave., Littleton, MA 01460. Both units are available with power ratings ranging from 200 to 4000 W. The Stabilarc uses a new magnetic circuit to deliver constant power to the lamp and thus ensure stable light output during the life of the lamp. The ballast is also intended to prevent line voltage fluctuations from altering spectral output and to accommodate individual lamps whose intrinsic arc voltages vary within the limits of normal manufacturing tolerances. The Stabilarc stabilizes lamp power rather than lamp current, i.e., the ballast is capable of adjusting its output current to compensate for small differences in the inherent arc voltages of individual lamps. Price of a 1200-W Stabilarc is \$532.

The Lampstarter Module is a nonlinear magnetic circuit that develops pulses up to 50,000 V required for the ignition of Metallogen lamps. The module operates in conjunction with the Stabilarc to bring the lamp into operation within one second of switch closure. The price (1200-W) is \$90.

A new ColorMaster Film Processor, Model ACM-E4/E6, that can be converted from the E4 to the E6 process when required without requiring tank changes, has been announced by Technology Inc., HF Photo Systems Div., 11801 West Olympic Blvd., Los Angeles, CA 90064. The unit processes 110, 126 and 135 Ektachrome film with a film output of 5 ft/min (1.52 m/min) in the E4 configuration and 10 ft/min (3.05 m/min) in the E6 configuration. Standard load and takeoff elevators permit continuous uninterrupted processing. Film load is 1200 ft (366 m) in 16/35mm reels or magazines. Transport speed is vari-

## STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION

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D. Free distribution by mail, carrier or other means	820*	303†
E. Total distribution (Sum of C and D)	10,085*	9,621†
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G. Total (Sum of E & F—should equal net press run shown in A)	11,207*	10,611†

\* Average no. copies each issue during preceding 12 months.  
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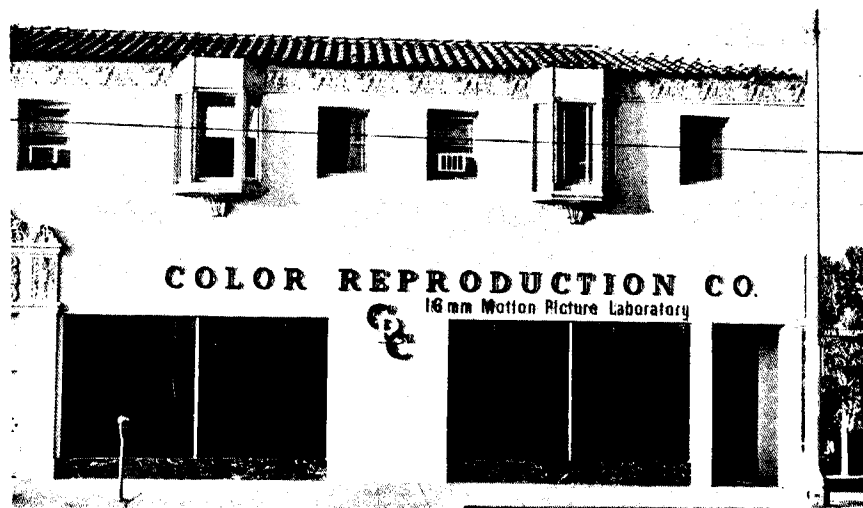
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## A Message from SMPTE's President about the Voluntary Capital Funds Program...

Dear SMPTE Member:

No doubt you share my pride in SMPTE membership. It has been a stimulating experience to work with the officers and members in our Society over many years. We are quite proud that the services offered by the SMPTE to its members have not diminished because of national economic difficulties. In fact, expanded services and improvements are taking place in the entire Society program. In the Conference area, in the Journal, in the Sections program, and in Engineering approaches, improvements have been and are being made to make membership in the SMPTE of greater value to each of us.

The financial position of the Society is excellent, thanks to prudent policies of the past officers and members. However, unpredictable changes in the Society's main sources of income — membership dues, test materials and conferences — resulting from conditions over which we have no control, could at any time seriously alter this present sound condition.

At their July, 1975 meeting, the Board of Governors voted to inaugurate a Voluntary Capital Funds Program, the purpose of which will be to retire the mortgage on the Society's Headquarters property at Scarsdale, N.Y. — the only existing Society indebtedness. By such action, the operating expenses of the Society would be reduced noticeably. Such action would further strengthen the Society's financial position so that the services of the SMPTE to its members would become even more effective.

It is hoped that every member of SMPTE may be willing to make a voluntary contribution of \$25 or more

(or three annual payments of \$9) and thus take a personal share in securing this important investment in the Society's future. Your voluntary contribution — which is, of course, tax deductible for U.S. citizens — will not only be appreciated but will be most helpful in continuing the effective work of the Society.

Kenneth M. Mason  
*SMPTE President*

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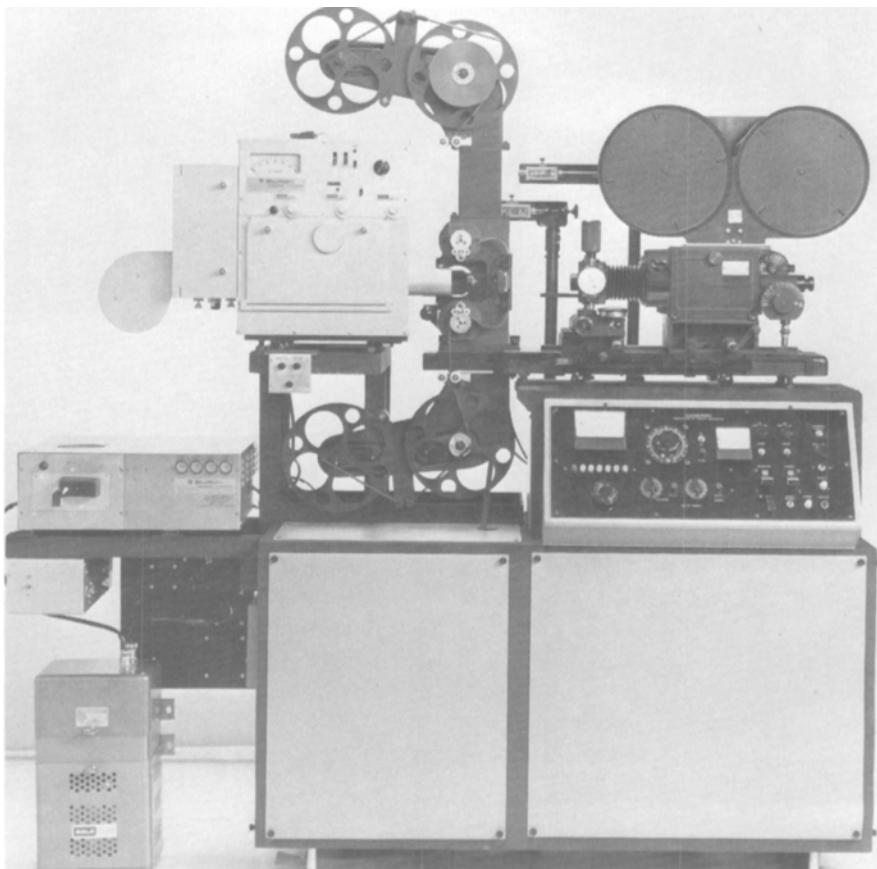
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able from 0 to 15 ft/min. (0-4.6 m/min). The standard model operates in a darkroom environment; a daylight model is optional. Price of the standard model is \$24,750.



The Ag-Tronic III, a computerized unit designed to recover silver automatically from motion-picture film processors while simultaneously cleaning and recirculating the fixer solution, has been announced by Ag-Met, Inc., 16325 Piuma Ave., Cerritos, CA 90701 (or P.O. Box 523, Hazelton, PA 18201). The system can prolong the life of the fixer solution by continuous cleaning and desilvering. It is not necessary to stop film processing to remove silver from the solution or to strip the system of accumulated silver. Ag-Tronic III incorporates a built-in visual and audible warning system in the event of processor or computer fault. It also has an automatic film counter. Price of the Ag-Tronic III is \$2750. The company has previously announced silver recovery systems for small, medium size and large laboratories with prices beginning at \$195.



An additive lamphouse for the Oxberry special-effects optical step printers has been made available by Oxberry Div. of Richmark Camera, 516 Timpson Pl., Bronx, NY 10455. A color printing system, it includes special condensers for 16mm and 35mm formats. The lamphouse is available for either manual or automatic modes. It is designed for operation on the 1500, 1600 and 1700 series of optical printers. It can be adapted for use on existing Oxberry printers as well as the new printers.

Seven professional video products — a processing amplifier, a bridging video switcher, a color bar and sync generator, a digital video AGC unit and three distribution amplifiers — have been added to the 3M Mincom line according to an announcement from 3M Company, P.O. Box 33600, St Paul, MN 55133.

The P-50 processing amplifier generates a pulse-cross format with automatic brightening to allow the use of a standard monitor for skew and tension adjustments in videotape recording. The amplifier accepts all sync formats and has front-panel control of six video signal parameters. The price is \$950.

The vertical interval bridging switcher uses momentary-contact lighted pushbuttons, has built-in audio DA and provides switch-position memory during momentary power failure. There are ten inputs and the unit is removable. The price is \$875.

The color bar and sync generator provides a stable signal source: the NTSC 8-bar pattern and all studio synchronizing signals as well as a test tone for audio system checkout. The price is \$695.

The digital video AGC unit can be used in any application to reduce the unacceptable effects of sudden and undesirable signal level changes. It has selectable attack and release time, a peak white or VIR reference signal

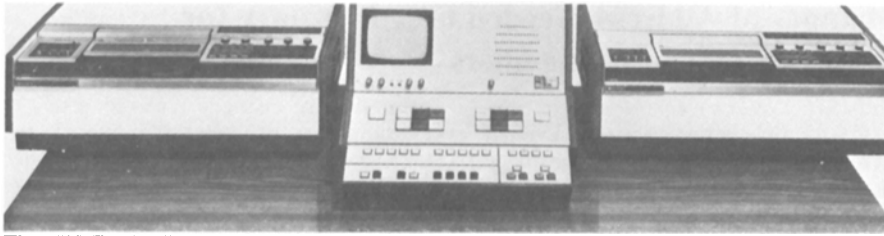
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The TRI EA-5 editing control system, a helical editing control system designed to interface the EA-5 editing system with the Sony VO 2850 3/4-in U-Matic cassette format, has been announced by Television Research International, Inc., 1003 Elwell Court, Palo Alto, CA 94303. The system enables editors to intermix Sony VO 2850's with any other helical VTR and is expected to have applications to Electronic Newsgathering. The new editing control system consists of the conventional EA-5 editing console plus an auxiliary console to accommodate and control the Sony inter-

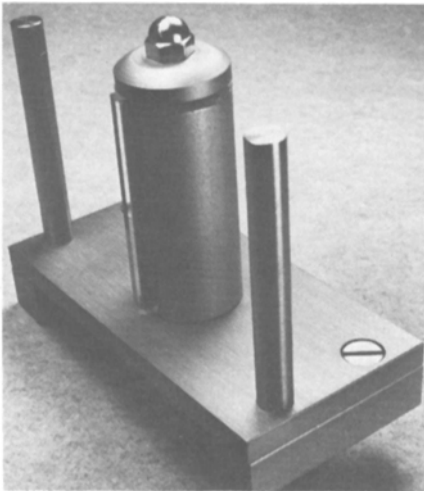
face. In addition to the standard editing features of the Sony VO 2850, the system features preview edits, accurate editing to video or audio cues, frame-accurate editing, search at up to five times play speed in either direction, VO 2850 interface with other helical VTRs, adjustable point after preview, edit decisions made with still-frame assistance, control of the insert point from the console and the ability to monitor audio and video at the console. The system without VTRs is priced under \$6000.

and a fade-to-black recognition signal. The price is \$3320.

The distribution amplifiers are pulse, video and subcarrier units. The pulse amplifier has four sections, each with one input and four outputs and can produce a generator-locked sync output if supplied with composite video. It accepts any commonly used United States or international TV pulse or composite video waveforms. The price is \$500.

The video amplifier has three sections, each with one input and four outputs. It has front panel gain and cable equalization adjustments, and test points. The price is \$500.

The subcarrier amplifier has a single section with one input and four outputs. Each output is independently phase-adjustable. Both the video and subcarrier amplifiers have high impedance, loop-through inputs. The subcarrier amplifier is priced at \$500.



The N.O.V.A. Block, a videotape cleaning device for all formats (1-, 2-, 3/4-in Umatic, 1/2- and 3/4-in formats), has been announced by N.O.V.A. Corp., Box 2121, Canoga Park, CA 91306. The device includes a four-edged sapphire blade precisely ground to remove debris without damage to the tape. It has a gentle surface treatment which does not aggravate edge damage. The N.O.V.A. is attachable to almost any videotape or audiotape recorder. The 2-in block (shown above) provides an alternate tape path eliminating wear on head stack, guides, etc. during cleaning passes ei-

ther forward or reverse. The price range is from \$100 for the smaller sizes to \$340 for the 2-in block.

A ball chart for testing video camera image geometry has been announced by Sierra Scientific Corp., 2189 Leghorn St., Mountain View, CA 94043. When an externally generated grip pattern is superimposed on the camera image of the chart, nonlinearity or geometric distortion of as little as 0.25% of the height of the frame can be detected easily. The chart can be used to check both horizon-

tal and vertical linearity and can be used with any scan and frame rate. The price is \$30 for either a positive or negative transparency in a glass-sandwich mount that fits an 8-by-10-in light box. The chart can also be supplied on opaque film for \$7.50.

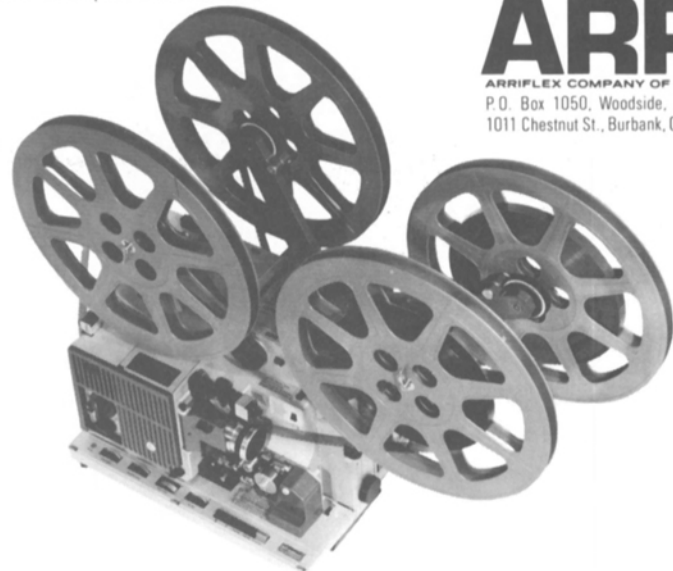


An NTSC vector monitor designed especially for industrial-grade TV studios has been announced by Ultra Audio Pixtec, Box 921, Beverly Hills, CA 90213. The monitor, measuring 8 X 6 X 13 in, is portable and rack-mountable. Designated the VM3, the new monitor matches the Ultra Audio Pixtec waveform monitor and is a companion to the R-series colorbar generators. Features include A-B source selection, test-circle, phase control and internal/external phase reference capabilities. The price is \$995.

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