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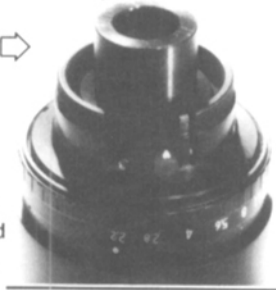
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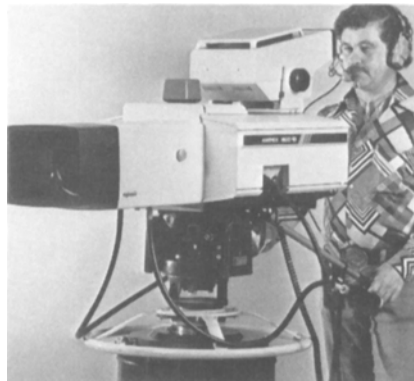
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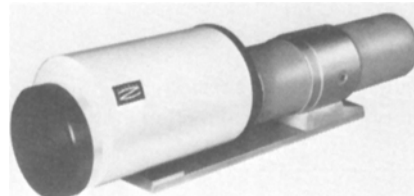
Further information about these items can be obtained direct from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items' does not constitute endorsement of the products or services.



The BCC-10, a new broadcast color camera, has been announced by Ampex Corp., 401 Broadway, Redwood City, CA 94063. The camera features automatics with digital memory and intelligent digital controls. Through a full diagnostic interface with the camera automatics the operator is informed when a command cannot be completed and why. The BCC-10's multiplex system also permits the use of a 12.7mm ultra-small cable.

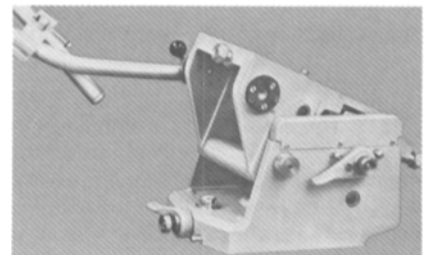
Features include "on demand" ACT (Anti Comet Tail) for extended tube life. With the ACT system off, BCC-10 tubes perform like non-ACTs. With ACT on, special circuitry activates the ACT system only when excess scene highlights are present. If ACT tubes are not desired, the BCC-10 accepts standard tubes. The system also accepts over 25 different lenses.

Other features include an advanced preamplifier plus a special video processing technique to produce a full 54 dB or better in luminance SNR. Audio performance is enhanced by a 10 kHz bandwidth FM intercom system. Prices for the BCC-10 range from \$67,100 to \$80,000.



Two multi-range remote-controlled lenses have been announced by Zoomar, Inc., Glen Cove, NY 11542. Model 15-450 TW has a range of 15-150mm or 45-450mm. Model 30-600 DW has a range of 30-300mm or 60-600mm. The change in zoom range is accomplished by a simple command at the remote control unit. Designed for use with all vidicon cameras, the various functions are activated by 12-V dc me-

ters. The lenses are enclosed in weatherproof housings with thermostatically-controlled heaters. Applications include television surveillance and instrumentation. Price of each model is \$6820. Available accessories include an automatic iris and attenuator ND 3.0 with micro switches and diodes if requested; a potentiometer for focal length readout; a reticle projector; variable illumination; and crosshair pattern with 2-mil open center.



The Vinten Petrel Pan and Tilt Head, Model 777, has been announced by Listec Television Equipment Corp., 39 Cain Dr., Plainview, NY 11803. Designed to support cameras weighing up to 100 lb, the Petrel has been built to full broadcasting standards. The pan and tilt head uses no cams or springs. Instead the counter-balanced tilt movement operates on similar lines to a pantograph, one pivot moving parallel with another giving a tilting angle of 40° either way from the horizontal. The unit weighs 15 lb. The price is \$675. Also available is the Vinten Lightweight Combination (tripod, dolly and elevation unit) with a capacity of 110 lb and a height range of 36 to 72 in. It is priced at \$975.



A new hydraulic tripod head, the Hydrokopf 16, has been announced by Sachtler GmbH, Osterwaldstrasse 10, 8000 Munchen 40, Federal Republic of Germany. Weighing, 2.2 kg, the unit

has a counter-balance spring to enable adjustment of the center of gravity. The hydraulic action has eight selectable steps. Step 7 counter-balances the force exerted by the cameraman by a rotational moment intended specifically for the longest focal length lenses. The camera support platen has two openings for inserting bars for holding lens supports, masks, matte boxes, filters, flags, etc. The Hydrokopf 16 is priced at DM 2500.

A special version for ENG cameras is available. In this version, the camera support platen is reversed and the two openings take the control bars of the video camera. Another version with only four adjustable hydraulic steps is priced at DM 2000; and the basic version (fluid and free) at DM 1500. The ENG variant having no zero position is priced at DM 1400. The price includes two guide bars.

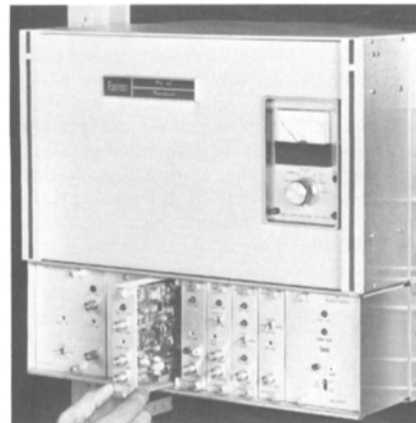
A new line of electronic still processors has been announced by ADDA Corp., 1671 Dell Ave., Campbell CA 95008. The digital, computer-controlled, NTSC frame storage/retrieval system provides on-line storage varying from 200 to 3000 frames and also provides full editing capability. The new system can store images such as 35mm slides on a computer disc drive. The television producer or director can punch a button to recall the picture in one-half second for display or broadcast. In addition, the system is a production source for still images. It can take a moving image from videotape, live input or 16mm film and freeze it long enough for the microcomputer to transmit it to the disc memory for storage where it can be stored — error free — forever. It can also store still inputs from 35mm slides or graphic cards.

Three models are currently available. The ESP-100 provides maximum frame storage of 100 frames per disc pack and maximum on-line frame storage of 400 frames with two dual disc drive modules. The price is \$63,800. Available accessories include the RM-100 remote module, \$2300; the DM-100 drive module, \$20,000; and the AC-100 acoustic cabinet, \$1700.

The ESP-200 provides maximum frame storage of 200 frames per disc pack and maximum on-line frame storage of 800 frames with two dual disc drive modules. The price is \$82,000. Accessories include the RM-200 remote module, \$2300; the IM-200 drive module, \$32,700; and the AC-200 acoustic cabinet, \$1700.

The ESP-750 provides maximum frame storage of 3000 frames with four disc drives. The price is \$120,000. Accessories include the RM-750 remote module, \$2700, and the DM-750 disc drive, \$28,628.

An Earth station receiver system for 3.7-4.2 GHz video satellite reception has been announced by Farinon Electric, 1691 Bayport Ave., San Carlos, CA 94070. Designated the FV4ESR, the system includes a dual-conversion IF heterodyne receiver and a versatile transmission shelf providing a wide variety of baseband treatment options. Output options of the system include combined video and aural subcarrier for RF channel modulation or baseband microwave; 70-MHz output for IF heterodyne microwave, or video and audio outputs for baseband microwave and cable distribution systems. Optional plug-in equipment includes AM and FM program transmission channels, clammers, remote control and monitoring equipment, FM cuing and 4.5/5.5-MHz aural carrier generators. The



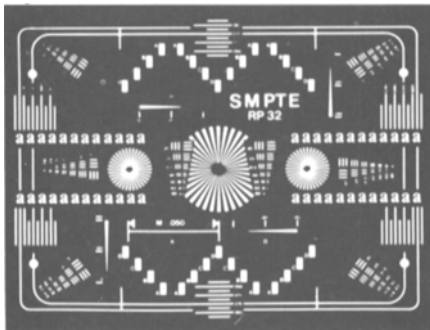
system is fully compatible with 525/625-line NTSC, PAL, PAL-M and SECAM system requirements. Prices begin at \$18,500.



The CVS-517 PAL/SECAM Digital Time-Base Corrector has been announced by Consolidated Video Systems, 1255 E. Arques Ave., Sunnyvale, CA 94086. The instrument accepts monochrome and color video signals from PAL or SECAM helical videotape recorders. For PAL the output is time-base corrected composite video; for SECAM it is stable, synchronized RGB outputs

Does Your Super 8 Equipment Run Properly? Find Out With An SMPTE Test Film.

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There are two basic types of test film. The first, for projection performance — picture only, is the **SMPTE 8mm Registration Test Film** (50 or 100 ft). This film has no sound track. Its purpose is to measure and help you adjust the optical and mechanical performance of your projection equipment. The patterns are designed to measure and adjust aperture size and position, jump, weave, travel ghost, lens focus, and film buckling.

The second type is for Super 8 Magnetic Sound. There are four all together, each of which was recorded on full-coat magnetic stock with a Super 8mm .1667-in pitch, and contains a 24-mil record in the edge track position.

The four films now available are:
1. Azimuth Alignment Test Film (50 ft) which is used to align the azimuth position of the recording and reproducing heads on magnetic sound equipment.
2. Flutter Test Film (50 ft) to measure flutter introduced by sound reproducers, contains an original recording with extremely low flutter content.
3. Signal Level Test Film (50 ft) helps measure and balance the power level output from motion picture sound reproducers. The recorded level does not in itself indicate a program level, but provides a reproducible reference from which a recommended program level can be determined.
4. Multifrequency Test Film (100 ft) is used for testing and adjusting motion picture sound reproducers and projectors. It is calibrated, and correction factors are supplied with each film.

SMPTE Test Films provide simple equipment performance checks without the use of expensive, complicated test equipment. The films can be used when adjusting the equipment to determine

when the equipment is again within specifications, and with the sound films, you can tell when the projector and sound system are operating properly.

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Important News! Now SMPTE Super 8 Test Films are available in both 24 frames/sec. and 18 frames/sec.

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that can be routed to an RGB switching system. A composite video signal output can also be produced by feeding RGB to an external customer-supplied SECAM encoder. A plug-in SECAM option provides bidirectional PAL/SECAM standards conversion making it possible for video output to be switched to either a composite PAL signal or to SECAM stable, synchronous RGB outputs. It makes no difference whether the incoming signal is PAL or SECAM, thus programs can be easily interchanged between these standards.

Features include a one-cable gen lock sync generator with outputs; correct color dropout compensation; line-by-line velocity compensation, digital color averaging, a video processing amplifier and a two-line correction window. The CVS-517 is 8.9 cm high, 48.3 cm wide and 48.3 cm deep. It weighs 11.4 kg. The price is \$12,000.

The SECAM plug-in option is priced at \$1000. A number of accessories are also available.

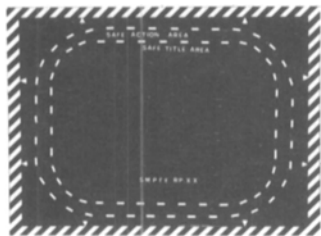


A television character generator with four times the memory capacity but the same price as its predecessor has been announced by 3M Company, P.O. Box 33600 3M Center, St. Paul, MN 55133. The new Model D-3016 character generator has a 16-page memory capacity. Like the model it replaces, the D-3000, which had a 4-

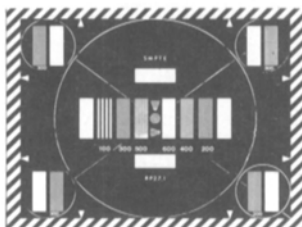
page memory, the new system is designed for professional television systems that require tilting/captioning capability. Three font styles are available with the D-3016 Video Gothic, Piper Roman and Helvetica Semi-Bold. All are available in upper-case style with matching lower-case characters. The D-3016 can accommodate at one time either two different upper-case font styles or a matching upper and lower case font. Like the D-3000 the new unit can display up to 22 characters in a row and 10 rows per page. It also features 3-speed vertical roll and horizontal crawl movements and automatic centering. A title mode allows maximum use of the internal memory by permitting storage of up to 160 single-row titles. Character edging for increased visibility is also a standard feature. Price of the D-3016 character generator is \$6900.

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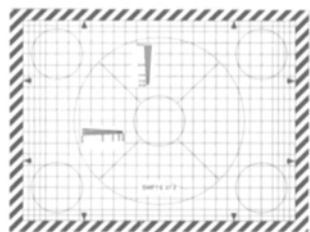
Television Test Films & Slides



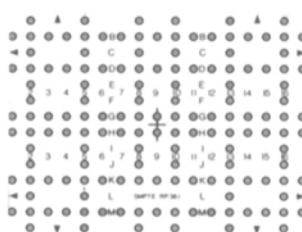
Safe Action and Safe Title



Alignment and Resolution



Operational Registration



Deflection Linearity

SMPTE's TV test films and slides are used for setting up and checking television studio cameras and telecine systems. These are manufactured under carefully controlled conditions to insure constant dimensions and densities.

Available in 35mm and 16mm film and in 2 X 2 slides

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- Alignment and Resolution Test Pattern
- Operational Registration Test Pattern*
- Safe Action and Safe Title Test Pattern
- Mid-Frequency Response Test Pattern*
- Television Deflection Linearity Test Pattern*
- Color Television Subjective Reference Films and Slides.

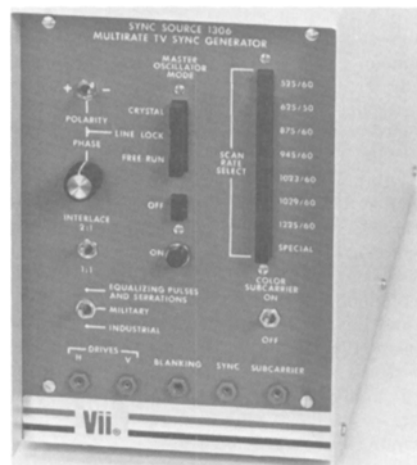
*Also available in 8 X 10 transparency.

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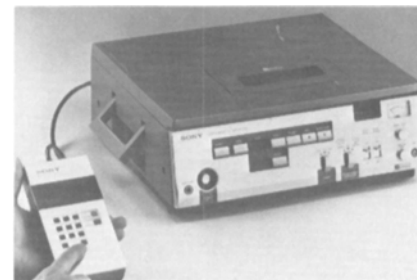


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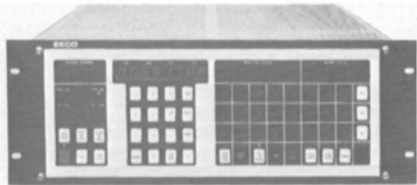


New television synchronizing generators have been announced by Visual Information Institute, Inc., P.O. Box 33, Xenia, OH 45385. The new series has new operating features and has been designed for greater operational flexibility. Models are available for single scan rate, dual scan rate or multiple scan rate applications. Provision is offered for selection of up to eight different television scan rates with broadcast, military or industrial format. Enclosures are available for rack mount or bench use. Prices range from \$600 to \$2200.



The Betamax 300 series for industrial and educational video applications has been announced by Sony Corp. of America, 9 W. 57 St., New York, NY 10019. The series is intended to provide greater flexibility for programmed material as well as greater tape economy. With the new series the Betamax industrial line now has five units. Augmenting the current SLP-100 Videocassette Player and the SLO-260 Recorder/Player are the new SLP-300/RM-300 Portable Player with Auto Search Control, the SLO-320 Recorder/Player (shown above with the RM-300 Auto Search Control); and the SLO-340 portable field production unit. The new units use

the Betamax K-series videocassettes which provide 30 or 60 min of tape capacity and are interchangeable with existing Betamax units. The RM 300 Auto Search Controller permits instant access to a material stored on a Betamax cassette. Using a pushbutton selection system similar to a touch-tone phone a user can select and view any desired part of the recorded video material. A number of individual programs can be placed on one videocassette, making full use of the tape's length and thus reducing duplication and tape costs. The SLP-300/RM-300 is priced at about \$1600. The SLO-320 is priced at about \$1445.



A new audio/video tape synchronizer has been announced by EECO, 1441 East Chestnut, Santa Ana, CA 92701. Microprocessor-based, the MQS-100 series synchronizing system can cue and synchronize any three magnetic tape transports including video, audio and magnetic film simultaneously. The SMPTE/EBU Edit Code used for indexing the tapes need not be identical and tapes with drop-frame and non-drop-frame formats can be intermixed.

System modes include high-speed search and cue; follow the leader, or "chase mode"; synchronized playback; fast and slow resynchronization; and rollback with automatic resynchronization. One button actuates all transports to roll back, start forward and synchronize automatically. Time code readings for all tapes can be captured "on the fly" individually or simultaneously. A plus or minus offset of any selected time increment can be preset for each slave transport. The "chase feature" of the MQS directs the slave transports to follow all master transport actions permitting the operator to control cueing and synchronizing at the front panel of the master transport.

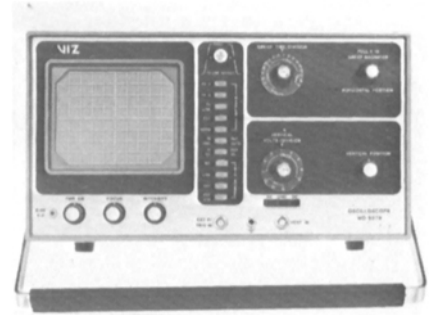
The MQS is 7 in high with standard 19-in wide Retma mounting. The price is \$12,750 for the two-transport control and \$14,900 for the three-transport control.



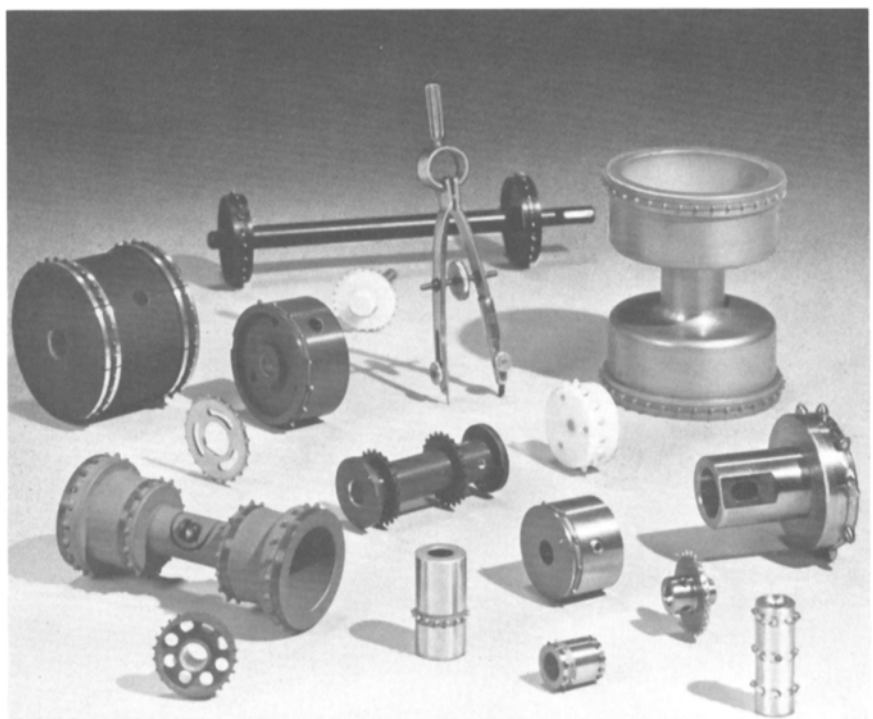
A portable oscilloscope, designated the V-059B, has been announced by Hitachi Denshi America Ltd., 58-25 Brooklyn-Queens Expwy., Woodside, NY 11377. Weighing less than 6½ lb, the V-059B is a 7 MHz oscilloscope designed for use in the field as a troubleshooting tool and as a television waveform monitor. The television sync separator provides automatic lockup at horizontal and vertical rates and a 2H-2V switch for correct TV WFM presentation. Other features

that may be powered from an ac line, 12-V dc or rechargeable battery with built-in charger include keyed dc restoration, external trigger input and external horizontal inputs. Other features include direct or 10X probe input, vertical deflection sensitivity of 10 mV/div and sweep rates from 20 ms/div to 10 µs/div plus a 10X magnifier. Price of the V-059B including battery and charger is \$1200.

A high-caliber triggered oscilloscope, Model WO-527A, has been announced by VIZ Test Instruments Group, VIZ Mfg. Co., 335 E. Price St., Philadelphia, PA 19144. It is a 5-in oscilloscope with vertical-amplifier frequency response to 15 MHz; the bandwidth of the horizontal amplifier is from dc to 1 MHz. Features include front-panel pushbutton switches and a trigger-level adjustment system using LEDs to indicate trigger polarity. A special television line selector function permits line-by-line display of video frames. The triggered sweep system provides



calibrated time bases from 0.5 µs/cm to 0.5 s/cm. A 10X sweep magnifier provides sweep speeds up to 50 ns for trace expansion. In addition to the calibrated sweep settings, continuous-adjustment controls provide sweep speeds between calibrated settings. Other features include preset television vertical and horizontal sweep settings for stable, automatic television waveform lockin; a 0.4-V peak-to-peak square



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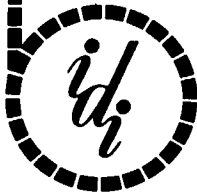


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wave calibrating signal for convenient voltage measurement and probe compensation at a front-panel terminal; and choice of ac or dc vertical amplifier coupling. The instrument measures 13.5 × 7.5 × 7.5 in and weighs 21 lb. The price is \$479.

The Color Monitor Gray Scale Reference Unit, a Porta-Pattern product designed for precise adjustment of picture white and gray scale tracking, has been announced by Telecommunications Industries Ltd., 6335 Homewood Ave., Suite 204, Los Angeles, CA 90028. Packaged in a 4 × 19 × 13-in case for portability, the unit contains a 10-step gray scale transparency manufactured on special film stock to match precisely the output of a standard 10-step signal generator. The illuminating source is a lamp calibrated at 6500 K (illuminant D). Maximum brightness is mechanically adjustable from 5 to 35 fL without affecting color temperature. Both 115 and 230 V ac models are available. Price of the unit (either 115 or 230 V ac) is \$995. Field replaceable color calibrated lamps are priced at \$30.

The MK II television projection lens has been announced by TeleVue Optics, 15 Green Hill Lane, Spring Valley, NY 10977. It is an $f/2.6$, $T/2.7$ high-index glass lens with a focal length of 13.5 in. The three-element high-index glass design was computed to match television and projection screen curvature. All lens surfaces are coated with hard antireflection material for maximum picture contrast, light transmission and durability. The anodized aluminum barrel is 5 1/8 in long with a diameter of about 5 3/4 in. The tapered barrel edge faces the projection screen. The lens can be used with television screens measuring from 9 to 17 in diagonal. Any size projection screen can be used. Price of the MK II television projection lens is \$180. The price for each lens becomes less if larger quantities are ordered. The price of each lens in lots of 1000 is \$118.



A professional VHF Hi Band FM wireless microphone system with dual selectable RF power levels and adjustable nonclipping compressor has been announced by HM Electronics, Inc., 6151 Fairmount Ave., San Diego, CA 92120. Designated the HME System 22, it is designed for professional sound reproduction. The system consists of a pocket-size transmitter, Model WM 225, and a receiver, Model WM 125. The transmitter is about the size of a cigarette pack and features a non-clipping compressor circuit capable of 50 dB dynamic range with an adjustable compressor which soft-limits the first 20 dB, virtually eliminating the compressor action, resulting in more natural sound characteristics during limiting. The system is compatible with any electret or dynamic type microphone and requires only one standard 9-V alkaline battery. The price of \$1490 includes a carrying case.

The S6-2 sound mixer, applicable to both tele-



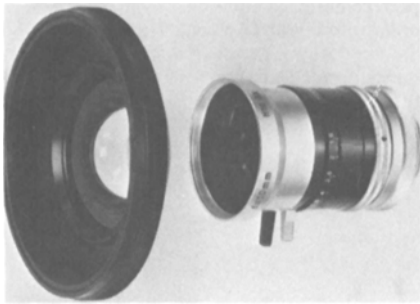
vision and film production, has been announced by Audio Marketing Ltd., 142 Hamilton Ave., Stamford, CT 06902. The mixer is manufactured by the British firm of Allen & Heath. It utilizes linear faders throughout and provides automatic start and fade. The console measures 17 3/8 × 15 3/8 × 3 1/2 in. Features include two stereo RIAA inputs; two stereo tape inputs; two microphone inputs; equalization on all inputs; broadcast cue; and stereo output plus stereo monitor output. It has also a digital switching system for start/stop control of turntables or tape machines. The price of the S6-2 is \$1095.



Three new super-8 cameras with macro lenses for both normal and close-up filming have been announced by GAF Corp., Consumer Photo Products, 140 W. 51 St., New York, NY 10020.

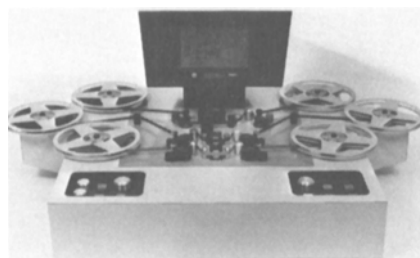
The 505 XLM (shown above) and the 805 M sound cameras are capable of filling the screen with a 2 × 3 in image. The 505 XLM has an $f/1.2$ power zoom macro lens providing a choice of focal lengths from 8mm to 40 mm (5:1 zoom). The 805 M has an $f/1.7$ macro lens with variable speed power zoom from 7.5mm wide angle to 60mm telephoto. In the macro position the lens can focus down to one inch in front of the lens. Both of these single-system sound cameras are designed for use with super-8 sound or silent film, ASA 25-160, and operate at 18 frames/s. The 505 XLM is priced at \$485.50 and the 805 M is priced at \$465.

The 415 XLM, a silent camera, is an "available-light" model with an $f/1.2$ lens that provides two basic operating positions — normal and macro. In normal position, the lens can focus from 5 ft to infinity at any zoom setting from 8.5 wide angle to 34mm telephoto. With the lens in macro the screen can also be filled with a subject only 2 × 3 in. In addition to an 18 frames/s speed the camera can provide single frame operation for the creation of animation, time-lapse and other special effects. It is priced at \$219.95.

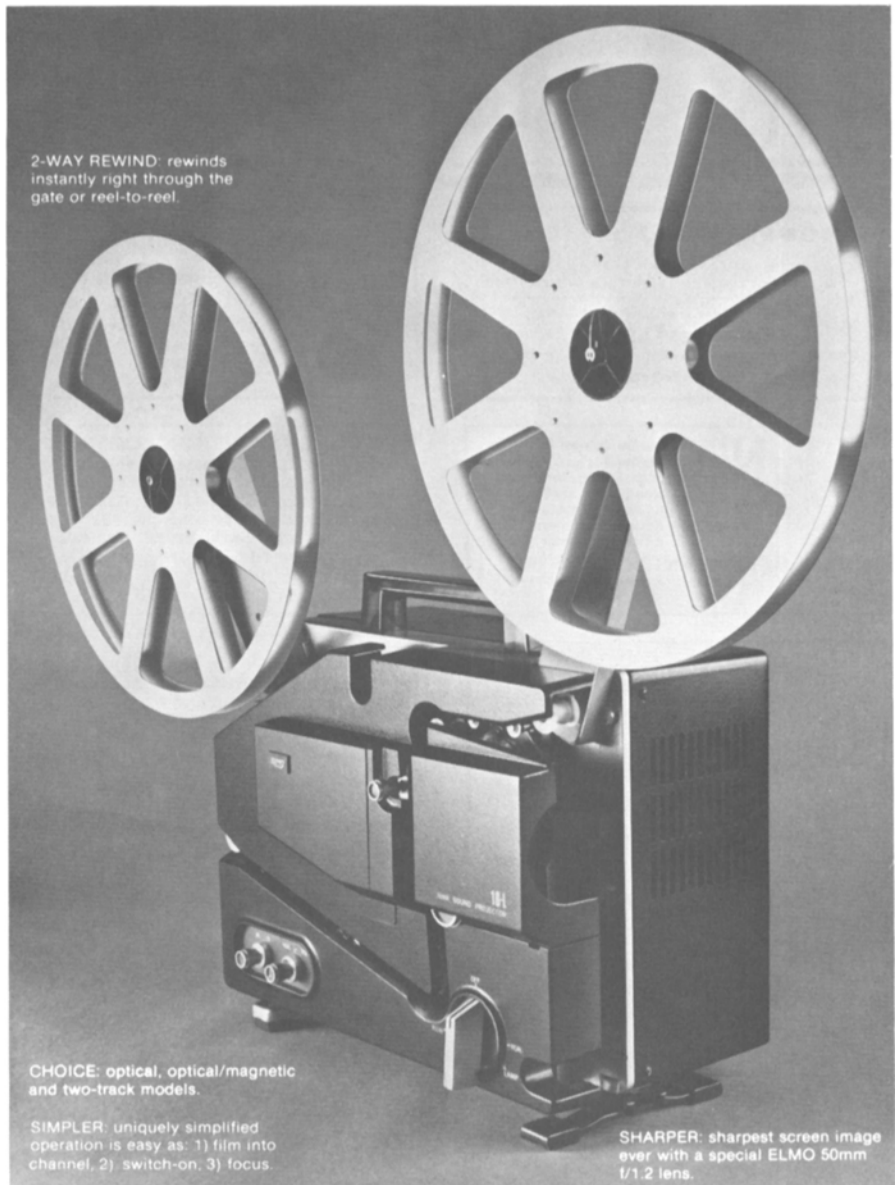


The Bolex Aspheron Wide Angle Adapter for use on the H16 16mm Bolex movie camera has been announced by Ehrenreich Photo-Optical Industries, Inc., 101 Crossways Park West, Woodbury, NY 11797. The camera has a 10mm Kern $f/1.6$ Switar RX lens; use of the Aspheron adapter converts the lens from wide angle to ultra-wide-angle. The resulting focal length is 5.5mm with a 95° diagonal angle of view. Threading the Aspheron lens to the Kern Switar lens mount permits easy focusing of the image on the reflex finder ground glass. Price of the Aspheron is \$437.50.

A strobe light designed for use in film productions has been announced by Unilux, Inc., 290 Lodi St., Hackensack, NJ 07601. Designated the Unilux 700, the light can be operated at a rate of one to 200 flashes per second continuously with virtually no heat being given off. The light illuminates more than 1000 ft^2 at 175 fc. In applications such as television commercials, when the strobe is synchronized with the camera shutter, extreme sharpness is obtained with film under strobe light showing clearly water sprays, pouring wet or dry products and permitting other special effects. The Unilux 700 consists of a flash head with a flash lamp mounted on a pedestal and a power console. The price is \$14,800. It is also available on a rental basis.



A 4-plate horizontal editing table with one super-8 picture and one super-8 full coat soundtrack, Model AD11, has been announced by P.G.P. Consultants Ltd., 325 Grande Caroline, Rougemonts, Que., Canada JOL 1MO. The unit permits straight-forward editing since picture and sound correspond frame for frame and in length. The table has four independent winding motors and an inching knob for manual operation is also provided. The film head is equipped with an eight-sided prism and the picture is rear projected onto a daylight ground glass. The sound is reproduced through a built-in speaker. Jacks for earphones or a remote speaker are provided. The film and soundtracks can be uncoupled and moved independently. Forward and reverse speed is continuously adjustable from zero to approximately 62 frames/s. Features include a bright picture display area of 4×6 in.; 750-ft reel capacity; and a 150-W/21-V halogen lamp with dichroic reflector. The light



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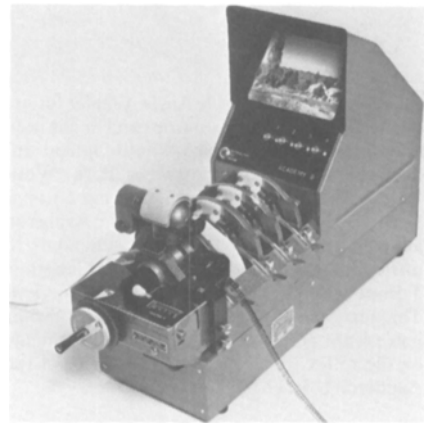
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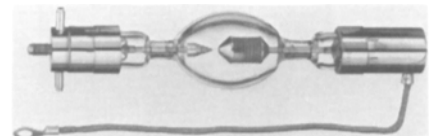
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path contains an additional dichroic mirror in order to keep the film cool. The lamp and film are air cooled. A synchronous motor is push-button controlled for accurate speed of 24 frames/s or 18 frames/s. Price of the AD11 is \$1870. A 6-plate model is available at a price of \$2610.



A new editing machine for super-8 film designated the Academy 8 has been announced by Acmade International, Oaksdale, Oxford Rd., Uxbridge, Middlesex, England. The unit is compact and portable. Features include a large clear screen, a quiet motorized drive with "stop-on-a-frame," reversing facilities and hand drive. The machine is available in two formats, a four-way which allows three soundtracks to be run through with the film and a three-way which has provisions for the picture and two soundtracks. Each track is fitted with a full-width magnetic head which allows either center or edge track reading. The four-way Academic 8 is priced at £ 789 plus VAT (\$1750) and the three-way at £ 750 plus VAT (\$1650).



Two new OSRAM theater xenon bulbs for ORC lamp houses have been announced by Macbeth Sales Corp., R.D. # 3, Jeanne Dr., Newburgh, NY 12550. The lamps, XBO 1600W/HSC and XBO 1000W/HSC, rated at 1600 and 1000 W respectively, have a built-in braided copper anode cable to reduce the risk of premature failure due to overheating on the anode base pin. The connection is at the igniter rather than at the end of the bulb to assure a better connection and to help eliminate problems of heat leakage down the base of the bulb if a bad connection should occur. Features include a pure tungsten anode and cathode for increased light and brightness. With an adaptor from Macbeth the bulbs can also be used in Strong and Xetron lamphouses. Price of the XBO 1000 is \$395. The XBO 1600 is priced at \$470.

A tape splicer for splicing film or sprocketed magnetic tape has been announced by Magnasync/Moviola Corp., Motion Picture Div., 5539 Riverton Ave., North Hollywood, CA 91601. Designed to allow the film editor to splice sequences together on a frame-to-frame basis without losing continuity, the film or tape is butt-spliced with Mylar-perforated splicing tape.

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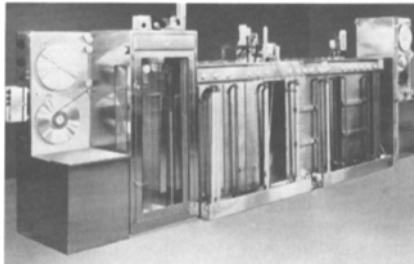


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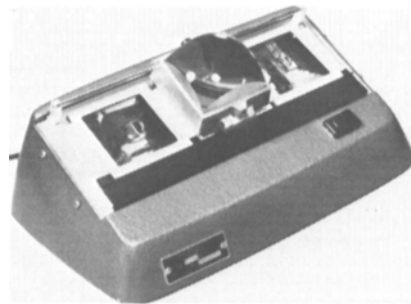
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The Ultima line of film processors consisting of six different models for processing Ektachrome, color negative or positive and black-and-white film has been announced by The Allen Products Co., 180 Wampus Lane, Milford, CT 06460. The processors can operate at speeds up to 200 ft/min and can handle 16mm or 35mm film interchangeably. All the Ultima models are available with either angle gears or chain drive according to the user's choice. Both the angle gears and chain drive are coupled to the Allen ATA film transport system designed to adjust film tension automatically. A removable single unit or component rack design and a digital set variable drive control are also offered. Prices begin at about \$40,000.

Earlier, Allen Products announced the Criterion line of film processors consisting of five different models operating at speeds up to 100 ft/min. Features include a solution conservation system and chemical support system built into the machines. Lighted digital readouts which monitor film processing speeds and temperatures of all solutions incorporated in all Allen processors. Prices begin at \$12,500 for a basic black-and-white model in the Criterion line.



The Multiscope table viewer for 2¼ x 2¼ and 35mm slides or filmstrips has been announced by Karl Heitz, 979 Third Ave., New York, NY 10022. The unit has a 4X magnifier. The image appears on an inclined angle providing a natural viewing position for inspection and comparisons in daylight, artificial light or darkrooms. The unit measures 11 x 6 x 4½ in and weighs 4½ oz. The price is \$99.95.

The HT-4 Backsaver, a folding hand-truck designed for transporting heavy video and other audiovisual equipment, has been announced by Comprehensive Video Supply Corp., Northvale, NJ 07647. The hand-truck has all-welded frame construction and solid rubber ball-bearing wheels. Weighing 18 lb, it can carry loads up to 200 lb. Features include steel channel stair guides to ease loads down stairs or curbs. The HT-4 is priced at \$54.95.

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