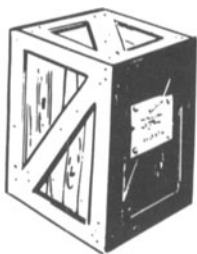


new products (and developments)



.....
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 Arriflex 16SR 16mm camera has been announced by Arriflex Company of America,

25-20 Brooklyn-Queens Expwy. West, Woodside, NY 11377. The new camera has been made perfectly symmetrical so that the viewfinder and/or the handgrip system can be positioned to the right or the left side of the camera. Designed for adaptability to filming situations and personal preferences, the camera can be used with left or right eye viewing, left or right shoulder positioning and left or right hand support. Other features include new, quiet, multijointed, compensating link film pull-down and registration pin system; new, instant-change magazines with fixed space-gate film channel; new, all-purpose, brushless dc motor, built-in and combined with crystal-regulated electronics and automatic shutter control for uninterrupted viewing. An accessory plug-in external control can run the camera at variable speeds from 5 to 75 frames/s. Standard equipment includes the APEC system (Arri Precision Exposure Control) with options that include either completely automatic, or match needle, semi-automatic control of exposure. Part of the system is a mechanism to keep the lens iris open when the camera is at standstill for prefocusing and then to close down automatically to a pre-selected stop when the camera is running.

The 16SR viewfinder has a new fiber optic screen instead of the traditional ground glass. The new screen is marked to show TV safe action. Also included in the camera is a new behind-the-lens gel filter slot; 60 Hz pilotone output; automatic start marker, footage counter and other features.

The price of about \$15,000 includes the basic camera, a 10 to 100 mm Zeiss Vario Sonnar lens and on-board power supply.



The Bolex H 16 EL, a new camera featuring a newly designed light meter, has been announced by Paillard Inc., 1900 Lower Rd., Linden, NJ 07036. The light metering system of the new camera is reported to be almost impervious to shocks and high light levels. Light is measured from behind the lens by a silicon sensor cell that pops up in front of the aperture at the touch of a button. In the viewfinder two light emitting diodes light up. As the diaphragm is adjusted, the brightness levels change. When the two are equally illuminated the exposure is correct to within 1/4 of an f/stop. Filming speeds are coupled automatically to the light meter and a selector knob programs the meter for exposure ratings from 10 to 630 ASA. Because the H 16 EL reads light from behind the lens and in front of the aperture, it can be used with special optical components such as microscopes or endoscopes or special lenses. It can adjust automatically for filter factors or exposure increases for close-up filming.

Other features include an especially strong bayonet mount and a motor that can start and stop instantly stopping invariably in the shut-



J-4 "Joy Stick" ZOOM control



J-4 Zoom Control (zoom motor, compact zoom speed control box with built-in rechargeable nickel cadmium battery, battery trickle charger and "Joy Stick" control)

For the *ultimate* in precision zoom control — Cinema Products' Academy Award winning J-4! Its thumb-activated "Joy Stick" zoom control fits comfortably into the palm of your hand. With the J-4 "Joy Stick" you always know in which direction you're zooming, regardless of your hand position. A true servo feedback system provides constant speed through full zoom over a wide speed range, from 1½ seconds through 4½ minutes duration! The exclusive "Joy Stick" control also provides *gradual* start/stop from zero to the preset maximum desired speed. Exceptionally smooth and silent in operation, the J-4 zoom control is ideal for all studio and location filming.

J-4 Zoom Control brackets and gears are available to fit all zoom lenses and all 35mm and 16mm cameras.

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J-4 Zoom Control shown in use with XR35 Studio Camera, Canon K-35 Macrozoom 25-120mm Lens, and 150XR Fluid Head.

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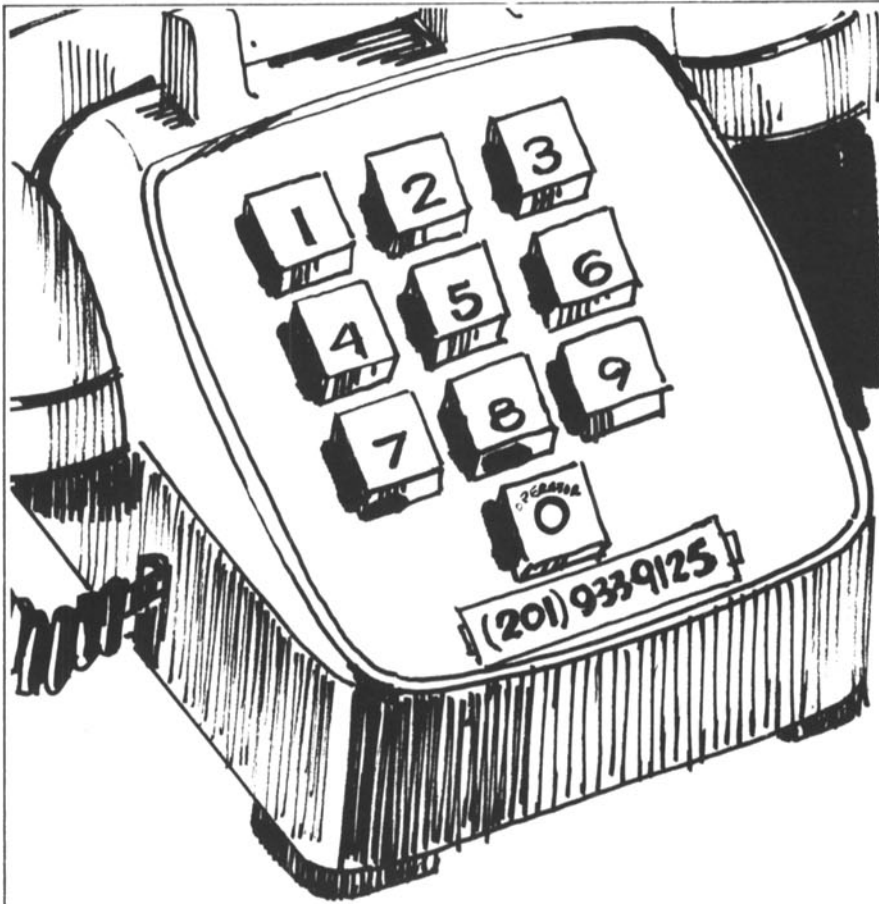
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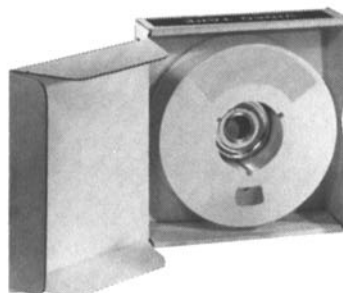
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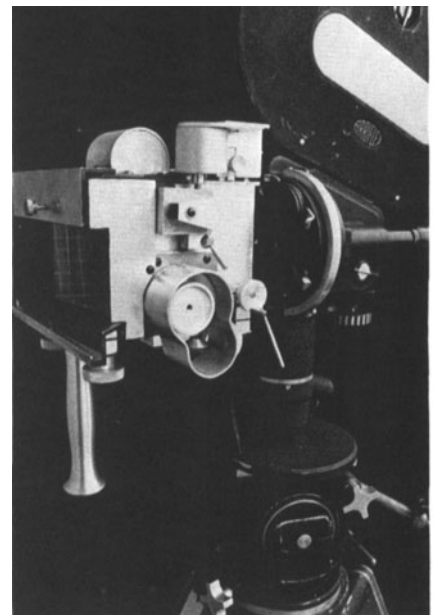
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ter closed position. The camera can be used for single-frame filming and can run in reverse for rewinding the film when producing double or multiple exposures, split screen scenes, superimposed titles in the camera or for rewinding partially exposed film. Although not a blimped camera the H 16 EL is reported to be much more quiet than any previous Bolex camera and it can be used for double system sound filming in most locations. An accessory barney is available. Sync sound filming is possible with the Bolex sync pulse generator or with a crystal control unit.

A crystal-controlled timelapse camera, Model 2100, driven by a laser-tuned quartz crystal oscillator and low-drain CMOS logic, has been announced by Timelapse, Inc., 250 Polaris Ave., Mountain View, CA 94040. The camera is self-contained and takes pictures at selected intervals of 0.5 s through 64 s. The system, including cell battery, recharger and cord, is housed in a weather-resistant structure. Synchronizing outputs are provided for remote control as well as an external battery for very long runs. Model 2100 is priced at \$2070 to \$2900 depending on options.



Devices for 3-D motion pictures produced by Marks Polarized Corp., 153-16 Tenth Ave., Whitestone, NY 11357, include the Depix® camera, Polarator projection attachments and Polalite 3-D viewers. The Depix camera system consists of a special device containing optical elements in a compact unit installed on a reflex camera, such as the Arriflex. The only alteration to the camera consists of a special gate. The device has no moving mechanical parts other than the adjustments of its optical elements. Dimensions of the Depix device (without the camera) are: length, 20 cm (7.8 in); width, 25 cm (9.8 in); and height, 15 cm (5.9 in). It weighs 6.6 kg (15 lb). The interocular distance is fixed at the same distance as between the average person's eyes — 67 mm (2 5/8 in). The focal lengths of the lenses used with the camera are 50mm, 70mm or more. The convergence and the focus are adjustable and the scenes are photographed onto a single filmstrip in a one-over-the-other Dark-Bar™ format. The right and left adjacent images can be seen simultaneously in the viewfinder as they will appear on the film. Films photo-

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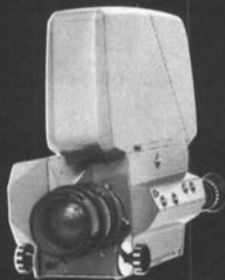
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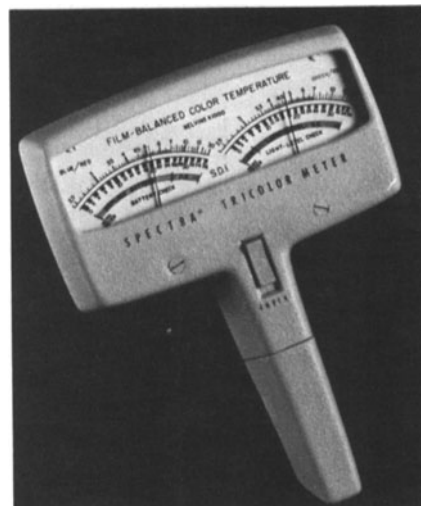
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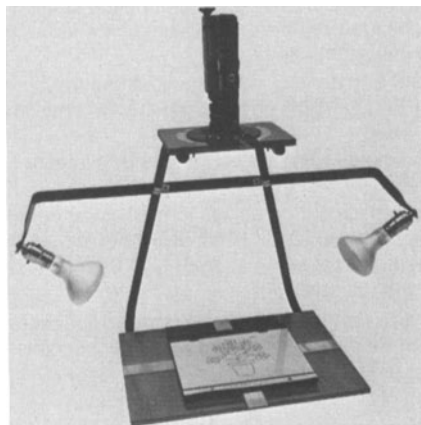
graphed with the Depix camera can be printed directly using standard motion-picture techniques. No optical adjustments are required in the printing.

The Polarator™ optical device can be attached directly to the projection lens to enable the polarized stereo images to be accurately overlapped on the screen.

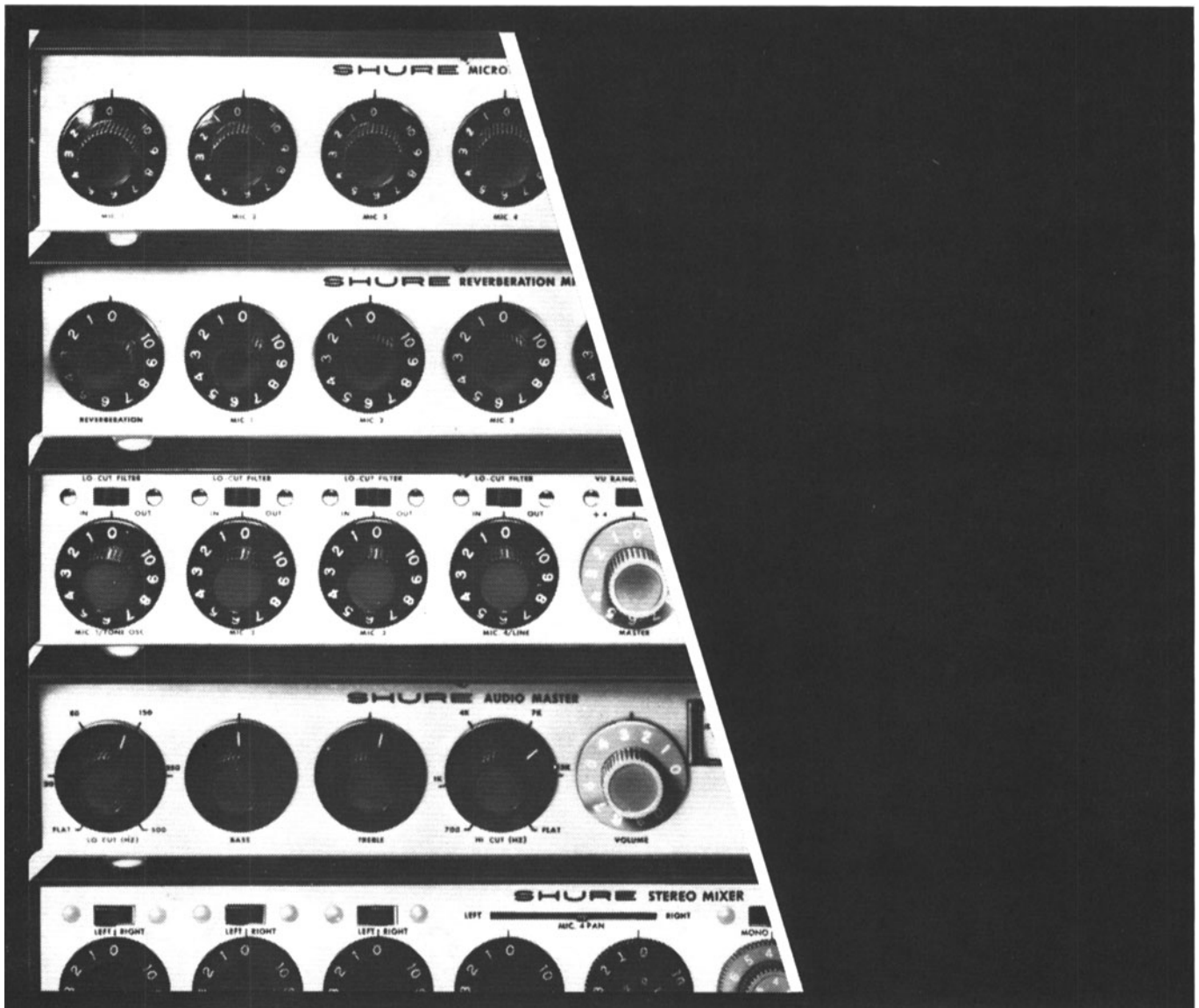
Polalite™ 3-D viewers are worn by members of the audience.



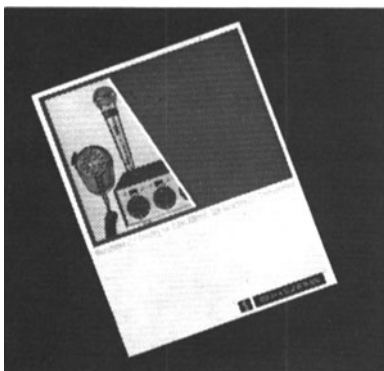
The new Spectra® TriColor™ meter designed especially for filmmakers who cannot control fluorescent and mixed-ambient and fill lighting in various locations — stadiums, sports arenas, and the like — has been announced by Photo Research Div. of Kollmorgen Corp., 3000 North Hollywood Way, Burbank, CA 91505. In use the meter is pointed with one hand and the trigger pulled making it possible for the operator to read the color temperature while simultaneously two separate meters read Blue/Red and Green/Red values through computer-matched color filters, "seeing" the full range of color in the light source as the color film "sees" it. When the trigger is released the meters "remember" the readings and a simple, single-dial computer tells which color filters to use to correct the color balance of the scene. The Spectra TriColor meter is priced at about \$595.



The Supermax 8 Stand, Model 74.5, a table-top animation stand designed for use with most super-8 cameras having zoom and single-frame capability, has been announced by OX Products, Inc., 180 East Prospect Ave., Mamaroneck, NY 10543. The com-



Panel full of miracles.



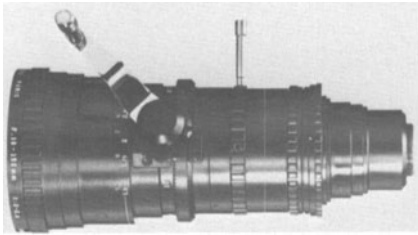
Shure mixers, audio level controllers, and feedback controllers are all designed to deliver more audio control, more features, and more performance dollar for dollar than any other components with similar audio features. Their compact size and modular "stackable" design mean they can be easily combined in various configurations in even the smallest spaces. And they're versatile—their input-output flexibility equips them for an extremely wide range of audio applications, giving you control you never thought possible without bulky, expensive installations. You can easily put together a system that's exactly right for your precise needs without putting extra dollars into built-in features you really don't need. For the details on our entire line of miracle workers, write:

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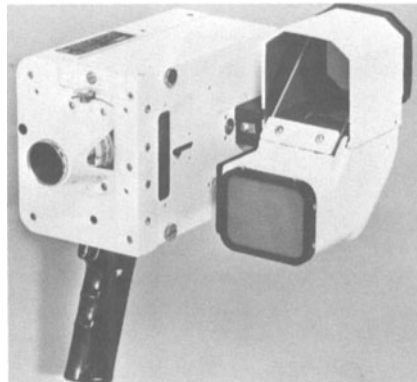
pound has a hinged platen glass and bottom registration pegs for artwork. The north-south and east-west movements have calibrated scales to facilitate pan movements. A rotary camera mount is supplied with a 360° scale to assist in angle shots and spins. The stand is priced at \$98.50.



The new Angenieux 15 × 10, 10-150mm, T2.3-T3.2 zoom lens for 16mm has been announced by Angenieux Corp. of America, Islip Airport, Box 340, Ronkonkoma, 11779. About 7mm shorter than the Angenieux 12-120, the 15 × 10 provides a wide angle at a minimum focal length of 10mm with a 15X zoom range to provide a maximum focal length of 150mm. The lens can focus down to 32 in (81 cm) from the image plane while retaining zoom capability. The lens makes it possible for a cameraman to zoom down to cover a field size as small as 1 by 1 3/8 in (25 by 35 mm) while leaving a working distance of 24 in (61 cm) between the front lens and the object for proper lighting and camera manipulation.

In order to minimize the size and weight of the lens, three compromises were made, the

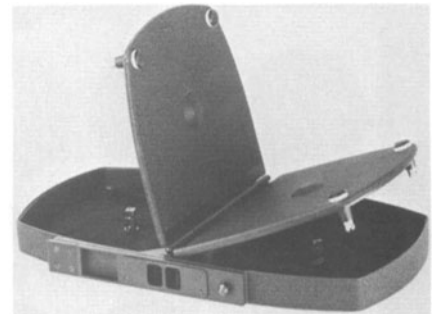
announcement stated: (1) when utilizing the additional focusing range between 32 in (81 cm) and 5 ft (1.52 mm), all focal lengths between 40mm and 150mm can be utilized; however, at the wider angles vignetting takes place, which becomes portholing at 10mm; (2) because depth of focus depends upon focal length, magnification and aperture, the lens should be stopped down to T8 when zoomed to the extreme focal length position of 150mm; (3) the third compromise results in the maximum aperture reducing as the focal length increases. At 10mm it is T2.3 while at the 150mm focal length it becomes T3.2. The aperture remains constant throughout the entire zoom range at T3.2 or smaller iris openings. The iris is calibrated in T stops only. Price of the new lens is about \$2,850.



A Tracking Finder for 16mm and 35mm cameras used for photographing small, fast, ellus-

ive or evasive objects has been announced by Instrumentation Marketing Corp., 820 South Mariposa St., Burbank, CA 91506. The instrument provides for the anticipation area. The reticle is illuminated by ambient light and has interchangeable reticles for 16mm and 35mm use as well as a large viewing port for ease in tracking. It enables the photographer to see the object as it approaches camera range and to track properly. A universal dovetail mount is supplied to allow removal and realignment of the Tracking Finder to the camera. The price is \$422.

Photoperiscope Optical Relay Lenses for use on 16mm cameras for applications in data reduction and high-speed photography where camera mounting options are limited has been announced by Instrumentation Marketing Corp., 820 South Mariposa St., Burbank, CA 91506. Two basic configurations are available — a straight-through optical system and a right-angle 360° rotating system intended for use when cameras must be mounted in tight places. Both models accept 16mm "C" mount of Photo-Sonics Flange mount or any combination thereof. The lenses superimpose a crosshair fiducial marking on the film to help in data and to relay the image 1:1. Prices of the Photoperiscope lenses range from \$1,125 to \$1,385.



A new type of 400-ft (122-m) magazine for 16mm cameras presently utilizing the Mitchell-type magazine has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. Designated the PLC-4, the magazine is made of high-impact, glass-filled Lexan® (an extremely rugged material used in the manufacture of hard hats and football helmets). It is used to eliminate the problem of film spotting caused by particles of magnesium adhering to the film emulsion and then reacting in the developing bath. The new magazine is compartment type permitting the use of either 200- or 400-ft dark-room cores or daylight load spools. It is compatible with either conventional screw-down fastening methods or with Cinema Products snap-latch technique. The PLC-4 is priced at \$160.

The XETROL III Incandescent Lighting Control has been announced by the Xetron Div. of Carbons Inc., 10 Saddle Rd., Cedar Knolls, NJ 07927. Used in theaters, auditoriums and other areas where variable light level control is desired, the wall-mounted device is designed to carry electrical loads ranging from 0 to 3000 W, 120 V ac. For installations requiring over 3000 W the units may be ganged for service and simultaneously activated from a single low-voltage remote control. Single or ganged, the device, called informally the "digital dimmer" because of its fingertip control, can be operated from any number of remote control stations. The price per unit is \$450.

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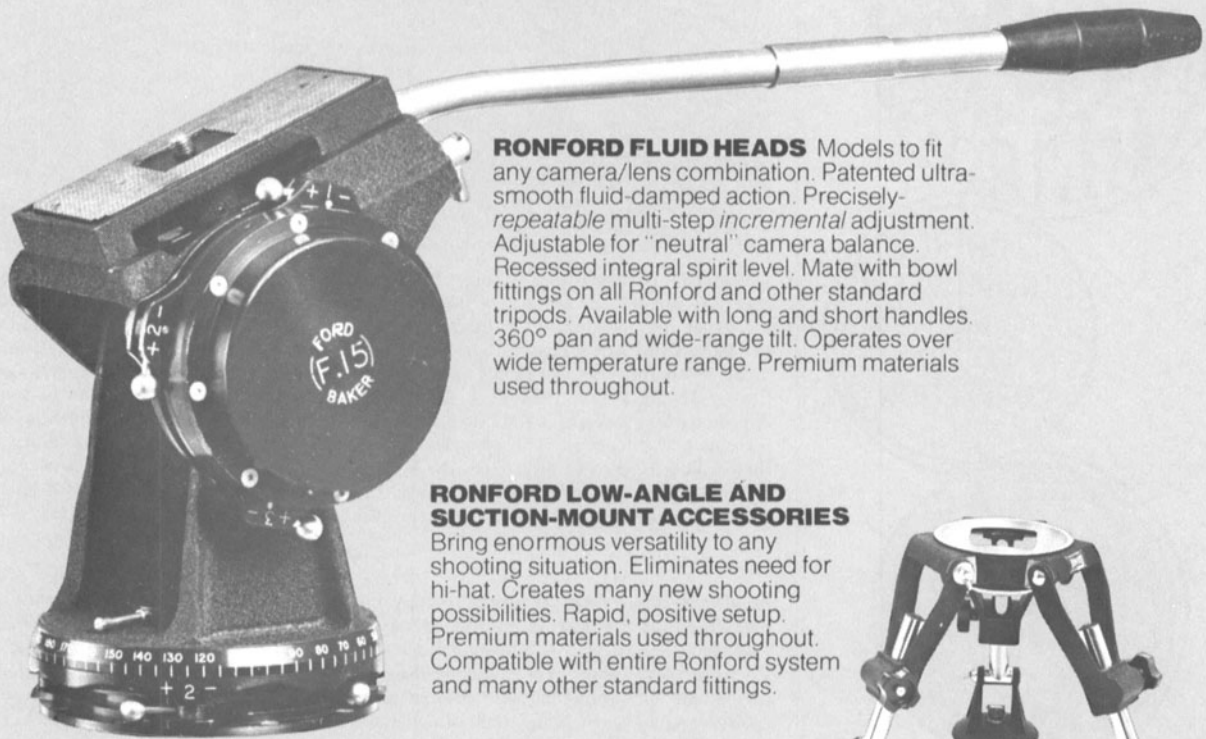
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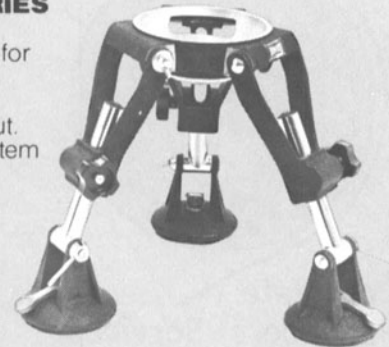
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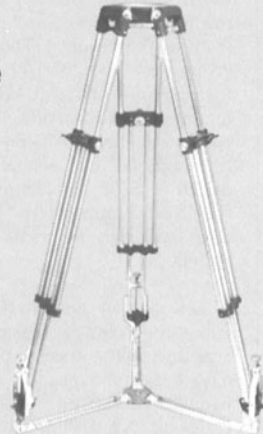
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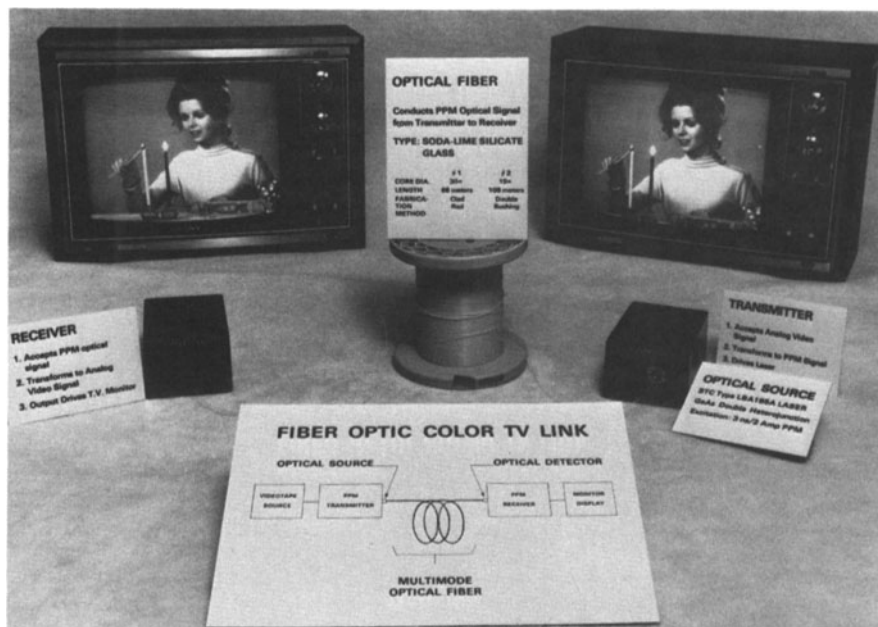
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A method of transmitting a color TV signal over an optical fiber (thin as a human hair) has been developed at ITT Electro-Optical Products Div., Roanoke, Va. The announcement was made from the firm's executive offices at 320 Park Ave., New York, NY 10022. An electrical TV signal is fed into a transmitter where it is converted to electrical pulses that drive a laser. The light from the laser is injected into a glass fiber which carries the optical signal to the receiver. At the receiver

the optical pulses are converted again to electrical pulses, amplified and then decoded back into the original TV signal and displayed on the monitor. Transmission distances are now up to two miles, the announcement stated, noting that the *Bible* can be sent in $\frac{3}{10}$ of a second and the *Encyclopedia Britannica* in three seconds. The advantages of the glass fiber are reported as light weight, small cross section, low susceptibility to interference, and high information capacity.

An all-glass color filter set for microscopy and photomicrography has been announced by Fish-Schurman Corp., 70 Portman Rd., New Rochelle, NY 10802. The set comprises 17 permanent non-laminated solid colored glass filters most of them being replacements for Wratten gelatin filters. The glass replacement filters are designated by the same numbers as the gelatin filters but have a "G" added in front of the number. The set contains several groups or types of filters — neutral density for exposure control, color contrast, color temperature conversion, light balancing, stain correction, heat blocking and infrared color film effects. The set of 17 glass filters is priced at \$135 for 32mm filters and at \$175 for 45 or 50mm filters. The filters are available separately at prices ranging from \$8.00 to \$60.

A new line of optical filters for black-and-white and color photography and new optical accessories for special purpose photography have been announced by Miida Photo, Marubeni America Corp., 14 Henderson Dr., West Caldwell, NJ 07006. The filters are designed so that the optical surfaces are parallel to the optical alignment of the camera lens. Color absorptive powers remain constant throughout the life of the filter. Screw-in threading in the front of the ring permits attachment of additional optical accessories or sunshades to the filter. Some 15 filters in nine different sizes are available in the new line. The special-purpose accessories are front lens attachments used to provide various dramatic effects. Price of the filters ranges from \$7.00 to \$22.50. Price of the special-purpose optical accessories ranges from \$9.00 to \$49.

A silicon diode black-and-white vidicon camera designated the TMC-1100 has been announced by TeleMation, Inc., P.O. Box 15068, Salt Lake City, UT 84115. Designed mainly for industrial surveillance applications the camera features daylight to full moon operation with 0.003 fc faceplate sensitivity with 600 TV lines horizontal resolution. The camera uses a 1-in industrial grade silicon diode tube. Other features include 150,000:1 automatic brightness control range; automatic black level; automatic drive switching; two internal RS-170 sync options for self-contained or "series" operation, plug-in modular construction; multiplexed audio pickup capability; and multiple lens options. The price for the fixed focal length lens version is \$1,665.

A new backpack color TV camera designated the CEI-290 has been announced by CEU, 880 Maude Ave., Mountain View, CA 94043. Designed for mobile video taping and live TV broadcast applications, the system includes four units — (1) the camera head with 10:1 Angenieux f/2.8 lens; (2) backpack electronics; (3) detachable viewfinder and hip-pack mounting adapters; and (4) camera control unit with NTSC encoder and operating control panel. The control unit is interchangeable with the CEI-280 broadcast studio camera. The system weighs 40 lb and can operate up to 600 ft from the control unit. The camera head can be operated up to 30 ft from the backpack electronics unit. For studio use it has a tripod mounting and a "quick-connect" 7-in viewfinder. Prices start at \$43,000.

A large-screen monochrome television projec-

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Troubled by emulsion

pile-up in your camera gate?

Troubled by distracting camera

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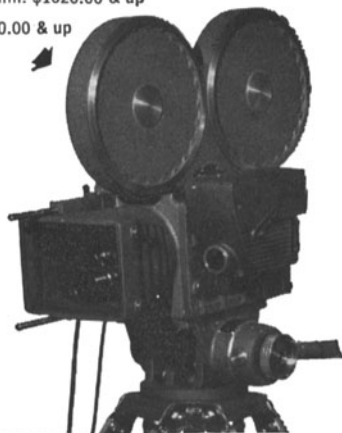


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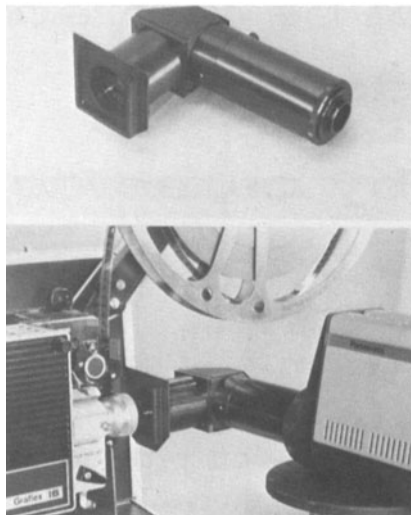
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tor, Model 270A, has been announced by Projection Systems, Inc., 517 Van Houten Ave., Passaic, NJ 07055. Features include high resolution (up to 1000 lines) and high brightness; automatic sync circuitry that can lock up to any vertical or horizontal scan system without controls; and variable image enhancement for crisper pictures and improved computer displays. Other features include remote control operation with a convenient, miniature control box; modular, solid-state construction and vertical interlace maintained by digital logic circuitry. The brightness capability reduces the ambient light restrictions on medium size screens or allows the use of screens up to 20 ft wide. Model 270A is priced at \$11,000.



The C Mount Uniplexer, designed to allow the use of a C mount video camera to televise the output of either a 16mm TV projector, a 35mm slide projector or a super-8 TV projector, has been announced by Buhl Optical Co., 1009 Beech Ave., Pittsburgh, PA 15233. The Uniplexer is threaded into the camera instead of the objective lens. The projector can be placed on any convenient table with the camera on a standard camera support stand or a tripod. For semi-permanent installations, a series of customized support bases for both the camera and the projector are available. A filter holder built into the Uniplexer permits balancing the light output of the projector to the requirements of the video camera. The image presented to the video camera is correctly oriented and there is no need to reverse sweeps or otherwise to modify the camera. Two models of the C Mount Uniplexer are available, one for cameras with a 1-in vidicon and the other for cameras with a 2/3-in vidicon. Price of each model is \$285.

A new line of video switchers with from four to 20 inputs and up to eight output busses has been announced by RCA Government and Commercial Systems, Moorestown, NJ 08057. The new line, called the TS-75 series, includes 14 standard systems with varying capabilities. One to three mix/effects amplifiers can be connected to the output circuitry to provide a high degree of flexibility. Most of the switchers include a pattern generator which produces up to 30 transitional effects in such shapes as stars, diamonds and squares. Patterns can be modulated with signals of varying frequency and amplitude. Other features include the ability to generate soft or colored edges, color backgrounds and black

signals. Options include chroma key, chroma key input switching, quad split generator and nonadditive mixing. The switchers range in price from \$6,050 to \$33,000.

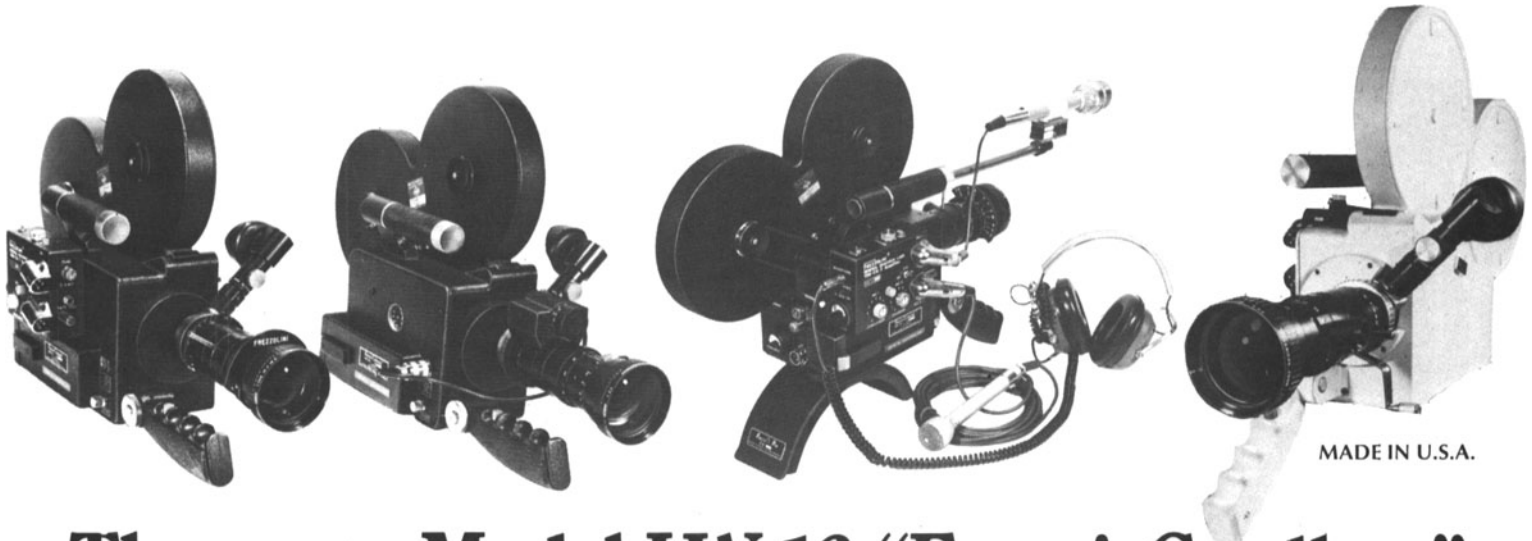
A new viewfinder mixer for mixed pictures in PAL, NTSC and SECAM systems, produced by Matthey Printed Products Ltd., has been announced by Television Equipment Associates, Box 1391, Bayville, NY 11709. A 19-in rack unit, it is designed to provide a fast method of mixing any one of 18 picture inputs with up to five main TV camera outputs giving a mixed picture in the main camera viewfinder. An 18-position switch enables the studio controller to select rapidly the required picture feeds; an integral brightness controller allows the brightness of the mixed-in picture to be altered without affecting the brightness of the primary picture. If preferred the control switch may be fitted to the camera for operation by the camera operator. Suitable for both monochrome and color studios the instrument can handle up to five mixed pictures simultaneously. The unit is priced at \$3,000.

The TVR-1700 Videocassette Time-Lapse Recorder/Player has been announced by TeleMation, Inc., P.O. Box 15068, Salt Lake City, UT 84115. The unit accepts 3/4-in U-format cassettes and offers five time modes of operation including one-hour (realtime), 9-h, 18-h and 72-h recording segments. The machine can operate with FIA or 2:1 interlace video. Features include better than 30 lines resolution; automatic adjustment of "record" level; full audio capability in the realtime and 9-h modes; audio dubbing track; external "alarm" provision to switch to realtime recording mode; and ability to record in time-lapse for quick-motion or still-frame playback. Designed mainly for surveillance applications, the TVR-1700 is priced at \$2,495.

Telecommunications E 15 teaching equipment designed to provide a full introductory course in telecommunications has been announced by Tecquipment Inc., P.O. Box 1074, Acton, MA 01720. The equipment, which consists of a series of self-contained experiments, is manufactured by Tecquipment Ltd., Hooton St., Carlton Rd., Nottingham, NG3 2NJ, England. The experiments can be used at most levels of mathematical analogy, the only ancillaries required being signal generators and oscilloscopes. Three experiments are available initially — waveform analysis, amplitude modulation and frequency modulation. Others planned for the series will be concerned with aerials, transmission lines, sampling and time division multiplex, pulse code modulation, delta modulation, error probability and pulse regeneration, and filters. The waveform analysis experiment gives a good understanding of Fourier analysis, the required waveform being generated simply by "drawing" it with 16 slide controls positioned to create the shape that will result. Multiplication of the waveform by a variable frequency cosine and subsequent integration produces the Fourier series of the waveform.

The amplitude modulation experiment includes balanced modulation of an internally generated radio frequency signal by an external oscillator, subsequent diode detection or local oscillator detection for double sideband, suppressed carrier and sideband analysis using a high Q tuned filter.

In the frequency modulation experiment, a frequency modulator is used in conjunction



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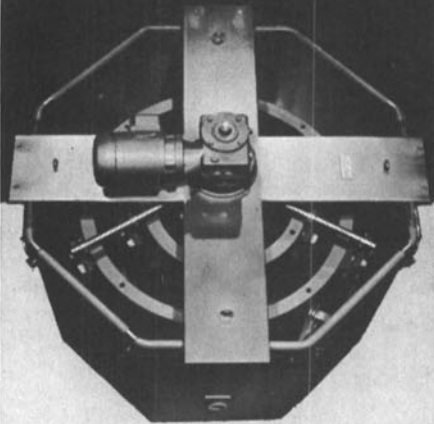
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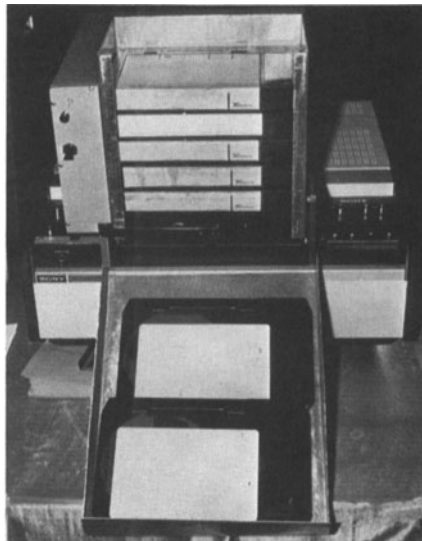
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with an external oscillator and high Q filter to show sidebands and Bessel functions. Foster-Seely and Ratio type discriminators with pre- and de-emphasis circuits are included.

Each experiment has its own built-in power supply and interlocks one on top of another for ease of storage. Prices range from \$625 to \$870.

An heterodyne accessory to the TBC-800 time base corrector (*Journal*, p. 336, April 1974) has been announced by Ampex Corp., 401 Broadway, Redwood City, CA 94063. The TBC-800 permits either direct color or heterodyne color recovery from helical scan videotape recorders. The new heterodyne accessory is reported to introduce no measurable signal degradation to capstan servoed helical scan recorders and to offer superior velocity and dropout compensation. The accessory kit is priced at \$1,995.



The VCAP Automatic Video Cassette Changer, designed to sequence the U-Matic video player or recorder to (1) stop mode, (2) eject the videocassette in the player or recorder, (3) insert a new videocassette and (4) place the player or recorder in play record mode, has been announced by VCAP, Inc., 275 Madison Ave., Suite 2110, New York, NY 10016. The device changes and plays automatically as many videocassettes as can be placed into the changer. Cue tones on tape provide signals for changing the cassettes. The Changer can be added to any Sony or 3M videocassette player or recorder by using existing mounting holes. Applications include use in origination equipment for cable TV; on duplicating machines to provide automatic insertion of blank videocassettes; or in areas where uninterrupted entertainment is desired. The unit is priced at \$1,495.

The Automatic Cartridge Tape Bulk Eraser, a device for erasing videotape recordings in the cartridge format, has been announced by RCA Photophone Sound Recording, Burbank, Calif. The system can erase up to four cartridges simultaneously and can handle either the RCA or Ampex type cartridge. The new eraser is priced at \$2,500.

The VHS-675 A/D converter, a high-speed analog-to-digital converter capable of six-bit resolution at a random or periodic word rate from dc through 75 MHz, has been an-

nounced by Computer Labs, 1109 South Chapman St., Greensboro, NC 27403. Track-and-hold circuits, power supplies and internal test circuits are included in the unit, which is completely self-contained. The time between the leading edges (50% points) of Encode Command pulse and Data Ready pulse is 63 ± 2 ns. The time between the leading edge (50% point) of Encode Command pulse and trailing edge (50% point) of Data Ready pulse is 69 ± 3 ns. The training edge of Data Ready is suitable for strobing output data into external circuits. A light emitting diode display on the front panel represents conversion value in binary form. There are 12 indicators, one for true and complement value of each bit. Height of the instrument is 7 in (178 mm), the width (main body) is $16\frac{3}{4}$ in (425 mm); front panel, 19 in (483 mm). It is 16 in (405 mm) deep and weighs 36 lb (16.8 kg). The price is \$14,000.



The Model 6390 Frame Count Cuer has been announced by Bell & Howell's Professional Equipment Div., 7100 McCormick Rd., Chicago, IL 60645. The system is compatible with all existing Model "C" printers and accommodates super-8, 16mm, 35/32 or 35mm film. It can operate in addition to existing notch or RF patch cuing systems installed on printers. Existing Bell & Howell tape punches and checker duplicator are compatible with the new Frame Count Cuer. The printer will not operate if the color tapes or cue tapes are accidentally interchanged. The system accommodates loop and bi-directional printing. Features include integrated circuits. Models are available for most Bell & Howell printers equipped with either high-speed or standard readers.

The Frame Count Cuer provides cue signals for automatic light changes, fades and dissolves at the appropriate frame without notching or patching negatives. A pre-programmed eight-channel punched tape, in combination with an electronic counting device and memory, releases cue pulses at the correct frame location during the printing process. The scene length record in the cuing tape can be in feet and frames as measured either from the start of the film to each successive cue or from one cue to the next. Price of Model 6390 is \$3,900.

A dual-8 version of the Mark S-807 super-8 automatic sound projector has been announced by Eumig (U.S.A.) Inc., Lake Success Business Park, 225 Community Dr., Great Neck, NY 11020. The new projector, designated the Mark S-807D, is designed for either 8mm or super-8/single-8 operation. Except for the added capability of 8mm operation, the 807D is identical to the 807. The light source is a pre-heated 12-V, 75-W dichroic reflector tungsten-halogen bulb. The projection lens is an f/1.6 17-30mm Vario Eu-

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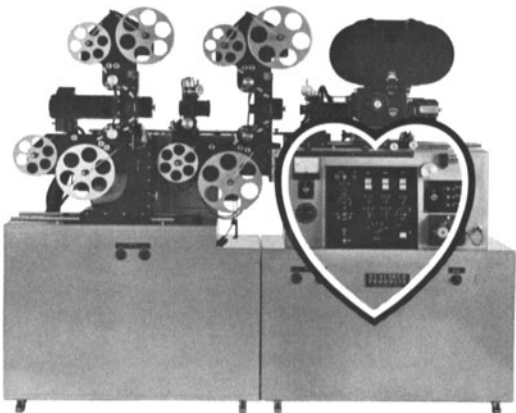
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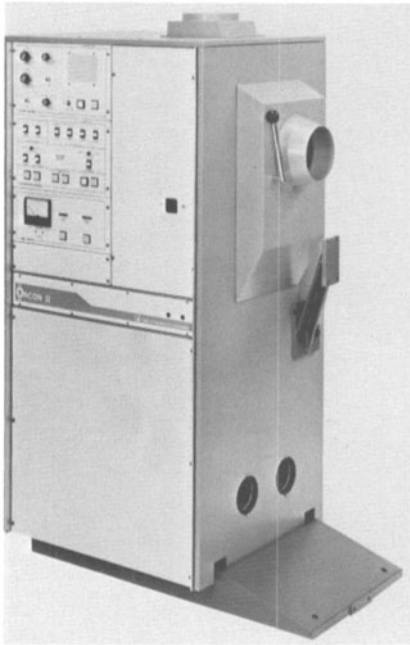


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pronet. Film threading is automatic onto a 600-ft take-up reel. The new projector is 12½ in long, 5¾ in wide and 8½ in high. It weighs 18 lb. Price of the 807D is \$439.95.

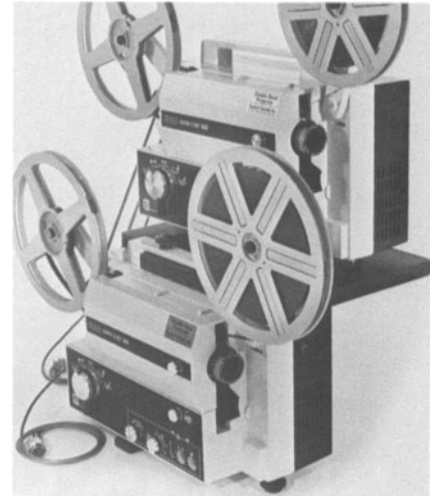


The Orcon II, a new theater console projection system integrating a lamphouse, power supply, dual sound system, automation system and circuit-breaker panel into a single cabinet, has been announced by Optical Radiation

Corp., 6352 N. Irwindale Ave., Azusa, CA 91702. Designed to combine the efficiency and light output of horizontally mounted xenon bulbs with the extended bulb life of vertically mounted systems, the bulb operates in vertical configuration with the light projected up to a 45° mirror where it is reflected horizontally to the film plane of the projector. The optics in the console are basically the same as those in earlier Orcon lamphouses including a computer-designed electro-formed mirror which nearly surrounds the bulb for maximum light collection and output.

The console is available as a single system with the lamphouse and power supply completely integrated and pre-wired or with dual sound system, automation system and circuit-breaker panel options which can be added on at any time. The sound system is a self-contained unit with dual solid-state plug-in amplifier modules. One module provides sound to the theater while the other powers a monitor speaker built into the console. A Normal/Auxiliary switch allows switching theater amplifier power from one module to the other in case of a malfunction. The automation system controls both film projection and auditorium functions. The circuit-breaker panel is designed to control all of the theater functions from a single panel on the console. Circuit breakers are included for the xenon power supply, automation, sound system, projector motor, lamphouse and a convenience outlet. The console is available in four basic configurations — a 1000-W version for screens up to 32 ft wide; 1600-W for screens 32 to 40 ft wide; 2500-W for screens 40 to 55 ft wide and a 4500-W system operating from 80 to 150 A

for drive-ins or hard-top theaters with screens more than 55 ft wide. Prices for the basic systems begin at \$3,395. Price for the sound system is \$1,495 and the circuit-breaker panel is priced at \$165. The price of the automation system will be announced later.



The Super8 Sound Double-Band Projector designed to allow interlocked screening of super-8 fullcoat magnetic film and super-8 picture film with sync rollback has been announced by Super8 Sound, Inc., 95 Harvey St., Cambridge, MA 02140. The Double-Band Projector consists of two mechanically connected Eumig S807 projectors which can run forward, backward or stop in frame-for-frame synchronous interlock. A supporting table for one projector holds it above the other making recording and transport controls accessible from one side of the unit. The two projectors can be separated and used independently. Each projector has an inching knob to facilitate the setting of start marks in the gate. When running in sync either projector can be in the playback or record mode permitting sound transfers from fullcoat magnetic film to magnetic edge stripe or from stripe to fullcoat. The inching knob on one of the projectors also serves as a clutch allowing the projectors to run independently.

Each projector is equipped with a once-per frame sync contact switch permitting sync operation with the Super8 Sound Recorder, a synchronous super-8 magnetic film recorder. Price of the Double-Band Projector is \$900.



The Model MD-3 Footage Counter, designed for use with sprocketed sound film recorders and dubbers to count footage or time for 35mm, 16mm and 8mm film, has been announced by Multi-Track Magnetics, Inc., One Ruckman Rd., Closter, NJ 07624. An internal memory allows presetting and counting in any mode and lighted pushbutton switches enable the user to display the equivalent footage for the other film mediums while film is running or stopped. By pushing a button marked "Time" the counter can display the elapsed time in minutes and seconds for the indicated footage running at sound speed. A feature of the device is the flashing of the least significant digit at the ½-ft interval. The counter in-

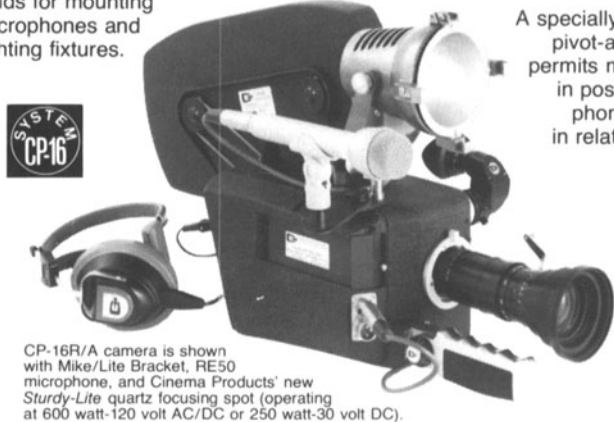
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The Roto-Bin film organizer, a device to provide film editors with a faster and more accurate means of handling film, has been announced by The Communicators, Inc., Pomfret Center, CT 06259. The device, which can be used for 35mm, 16mm or 8mm film, holds

film clips on an illuminated drum or carousel that revolves behind a stationary magnifying glass, thus simplifying the search of trims. Three differently colored bags separate categories and help prevent film tangling. The carousel has 32 specially designed numbered nonmagnetic clamps to hold one or more film clips. Film can be removed without disturbing other clips on the same clamp. The Roto-Bin can be adjusted for either sit-down or stand-up working heights. It is priced at \$465.

A **surface acoustic wave (SAW)** bandpass filter, Model BP 69-6, has been announced by Anderson Laboratories, Inc., 1280 Blue Hills Ave., Bloomfield, CT 06002. The filters are available in the 10-3000 MHz frequency range. Features include compact size and zero maintenance, the announcement stated. The unit price is \$545 for quantities of 1 to 9.

CLASSIFIED ADVERTISING
First 3 lines \$10.00
Each Additional line \$2.00
per inch \$26.00

Equipment For Sale

For Sale: Almost new 16mm Arriflex M Camera, complete with lenses and Time Lapse equipment; DeBrie 16: 4 X 8S optical reduction printer, 16mm DeBrie Step Contact Printer, 16mm B & H Model J, 16mm Oxberry Animation Stand (can accommodate 35 mm filmstrip camera), all at pre-inflation, pre-dollar devaluation prices. Visual Education, Inc., P.O. Box 6039, Santa Barbara, CA 93111.

Equipment Wanted

Wanted: Reduction printer DePew 35/16mm. Will consider machines in any condition. Supply photo, complete technical description and price for immediate reply. Alan Gordon Enterprises, Inc., Attn: Bert Carlson, 1430 N. Cahuenga Blvd., Hollywood, CA 90028. (213) 466-3561.

**employment
service**



These notices are published for the service of the membership and the field. They are inserted three months, at no charge to the member. The Society's address cannot be used for replies.

Positions Wanted

Applications Engineer. BSEE, 10 years experience on senior Engineering and Project Management level of all aspects of Audio, Video and Projection Systems. First phone. PE pending. Resume on request. Eldon Blust, 9121 Dohna Dean Dr., Springfield, VA 22153.

Audio-Visual Projection/Technician: Experienced in all multi-media, industrial shows, business meetings, and related projection display work. Seeks assignments on free-lance basis. Resume and business references available upon request. Call or write Richard W. Turel, 18163 Patton, Detroit, MI 48219 (313) 538-9033.

Job in Film. Requested by intelligent electronic technician with graduate degree in film. Builds state-of-the-art gear. Night student in electrical engineering. Excellent all-around talent, with emphasis on color photography. Straight. Please reply to P.O. Box 54, Village Station, New York, NY 10014.

Female First Phone. Radio experience: newscaster, engineer, production engineer, continuity writer, commercials and disk jockey. Television experience: engineer, sound engineer, stage manager, video operator, and news writer. College degree and loves to work. Write to Rhona Leigh, Box 733, Oxnard, CA 93032 or call (805) 486-6820.

Media Specialist. Seeking employment in the video, film, or still photography fields. Three years experience in an educational media center. A graduate from Rochester Institute of Technology with a BS degree in photographic arts. Will relocate. Write: Thomas Stillman, 32 Blue Cliff Terr., Apt. 262, New Haven, CT 06513. Call evenings, (203) 865-4712.

Positions Available

Maintenance Supervisor/Foreman. Motion-picture laboratory experience necessary. Excellent opportunity for the right person to supervise the maintenance functions in one of the leading full service labs in the country. Please write Greg Thomas, WRS, Inc., 210 Semple St., Pittsburgh, PA 15213

Engineers of Indian Origin. For its expansion program, India's leading manufacturer of sound, projection and audio-visual equipment has vacancies in various categories and offers excellent opportunities to motion picture equipment engineers of Indian origin presently resident overseas, who may be desirous of returning to India. Only engineers with experience in one or more fields such as product design and development, manufacturing, service, acoustics, marketing, etc. will be considered. Please apply by air-mail with complete bio-data and salary history to the Executive Director, Photophone Ltd., Sandhurst Bridge, 532 Sardar Vallabhbhai Patel Road, Bombay 400 007, India. Applications must include a passport size photograph, present nationality of applicant, indicate marital status (if married, to Indian or foreigner), ages of children and names of two references in India and/or overseas. Only Indians considering permanent return to India need apply.