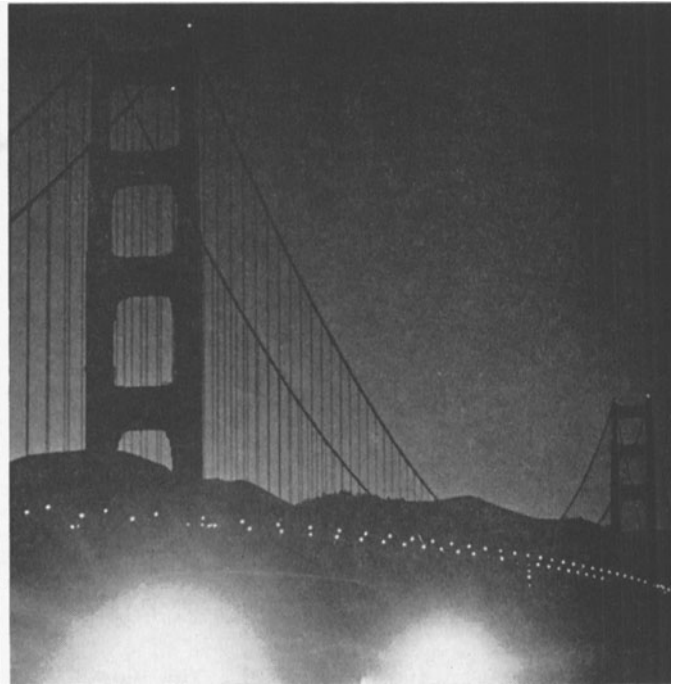




Single layer MgF₂ coated optics



Multilayer HEA coated optics

Contrast improvement with OCLI HEA coatings

OCLI's High Efficiency Antireflection (HEA[®]) coatings can greatly increase image brightness over MgF₂ coating, depending on the number of elements in the optical system.

But very often the most striking difference is the marked improvement in contrast.

These scenes of the Golden Gate Bridge were photographed under identical conditions with a Honeywell Pentax camera using a 15 element zoom lens. For the photograph on the left, the zoom lens was coated with a single layer MgF₂ antireflection coating. For the photograph on the right the zoom lens was HEA-coated. These photographs were taken at night, and all exposures were made at f/4.5 on Kodak Tri-X film. Car headlights produced the glare source near the bottom of the field of view, contributing to the intensity and number of stray images.

The reduction of stray light and improved contrast shown in the HEA photograph is obvious. Contrast can be improved even further than shown here depending on the lighting conditions and the particular type and number of elements coated.

HEA coatings can be applied to a variety of optical materials, and are ideally suited for optical systems designed for field, flight or space applications.

For an analysis of the improved performance to be expected by using HEA coatings on your optical system, call or write:

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MODEL NO.			PRICES:
FGU-12	16mm	Straight Cut	\$145.
FGU-11	16mm	Straight & Diagonal Cut	\$155.
FGU-14	35mm	Straight Cut	\$155.
FGU-13	35mm	Straight & Diagonal Cut	\$180.
FGU-10	8mm	Straight-Professional	\$200.

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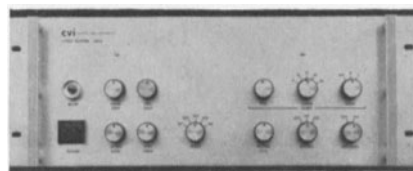
DEALER INQUIRERS

Intercinema corporation 311 West 43 Street New York, N. Y. 10036	Parliament Equipment Co. 351 West 52nd Street New York, N. Y. 10019
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5½ in high. It weighs about 18½ lb. Solid-state circuitry is used throughout the system. The camera produces a usable picture (100-line resolution) at 2×10^{-8} fc faceplate illumination. The camera normally uses a 1-in SEC vidicon. The STV/-606 is priced at \$10,500.

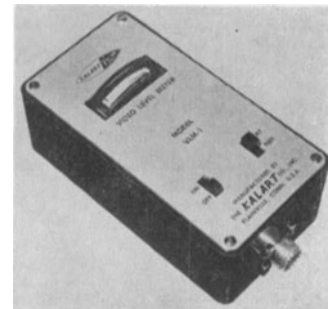
An image intensifier equipped with a 40-mm fiber optic input and a 25-mm fiber optic output has been announced by Westinghouse Electronic Tube Division, Elmira, NY 14902. The tube can be fiber-optically coupled to camera tubes with suitable input plates. The image intensifier, designated the WX-30677, is a single-stage, electrostatically focused device. An image projected on the input causes the emission of electrons which are accelerated and focused onto an output phosphor by about 15 kV. The tube uses an S-20 photocathode deposited on an unclassified fiber optic faceplate and a P-20 output on a similar type plate. The WX-30677 is priced at \$5,000.

The Vid-Au-Mac, an automated control system developed by RCA, is being produced for automating the control room of WRIK-TV in San Juan, PR. The system can handle four hours of continuous TV programming by "memorizing" the switching operations of up to 80 continuous program sequences. The core memory of the system stores instructions which select program sources — film or TV tape playback equipment — in a predetermined sequence and turns the machines on and off on schedule. The core memory can be loaded by means of punched paper tape, punched cards or computer. The system also permits manual switching when desired. By interlocking video and audio switching and machine control fewer pushbuttons are needed to "punch up" a program event for the manual mode. The memory can also be programmed for special effects.



The CVI Model 401A Video Plotter has been announced by Colorado Video, Inc., Box 928, Boulder, CO 80302. The instrument has been designed to convert a wide variety of data inputs into video format and to provide continuous storage of the data by means of a rotating disc memory. Stored data can be erased completely or selectively, or may be retained indefinitely. Output is in the form of a conventional TV signal and can be displayed on any standard TV monitor. Color displays are possible through the use of an R,G,B monitor. Heart of the unit is a 12-in magnetic disc memory driven by a synchronous motor at a rate of 1800 r/min and which is capable of recording and reproducing information at video bandwidths. An internal pulse position modulator translates x-y and z input signals into a form acceptable by the disc memory and a variety of recording and erasure modes can be used. Model 410A is priced at \$4,000.

The Vertical Aperture Equalizer Model (VAE), a device designed to correct for the loss of fine detail caused by charge bleeding in the image tube and the finite size of the scanning spot, has been announced by Dynasciences Corp., Township Line Road, Blue Bell, PA 19422. In the VAE the horizontal line being transmitted is compared with the horizontal line preceding it and the horizontal line following it. Any changes between the three lines are emphasized which results in a sharper picture. The color subcarrier is unmodified and the signal is clipped of black and white overshoots which could otherwise cause overload of the following equipment or synchronization jitter. The clippers are designed to prevent clipping the subcarrier, operating only on the luminance information. Model 468 is priced at \$3,000.



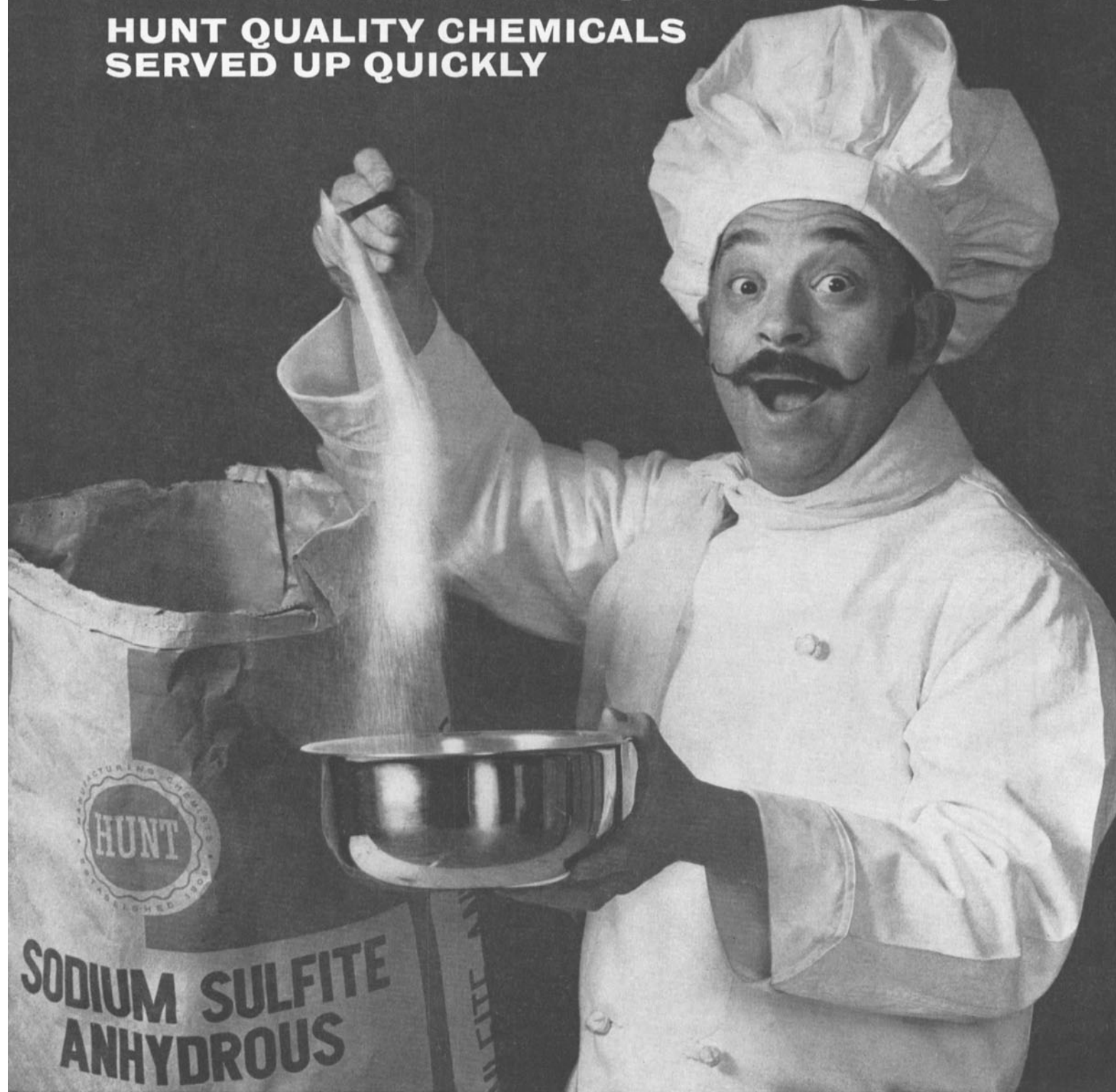
A new battery-powered video level meter has been announced by Kalart Company, Inc., Plainville, CT 06062. Designed for use by ETV system operators, technicians and engineers, the palm-sized unit connects into any video line during operation and indicates the TV camera's video output level. The device has a simplified meter face and can be used to set up and adjust the TV camera for proper lens setting and to determine whether the subject illumination is adequate. It is priced at \$60.

A new series of subminiature bandpass filters with center frequencies ranging from 400 to 2300 MHz has been announced by Telonic Engineering Co., Division of Telonic Industries, Inc., P.O. Box 277, Laguna Beach, CA 92652. Designated Series TBS, the filters are tubular types of the 0.05-dB Chebyshev design in a miniaturized version. The filters are ¼ in in diameter, vary in length from 1½ to 5 in and weigh less than 1 oz. Price of each filter is \$95.

A subminiature filter of 0.01 dB Chebyshev design, with center frequencies from 200 to 600 MHz, is a product of Telonic Engineering Co., P.O. Box 277, Laguna Beach, CA 92652. Designated Model TSA, the filter is of magnetically coupled resonator design and may be specified with two to eight sections, depending on bandwidth and other desired characteristics. In cross-section, the filter measured ¼ by 1/8 in and is 2 to 3½ in long depending on the number of sections. The filter is designed to function in a wide range of ambients and extremes of shock and vibration. Price range is from \$150 to \$300.

For Cine Film Gourmets

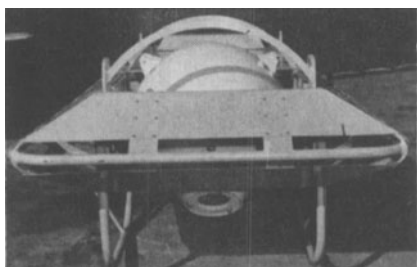
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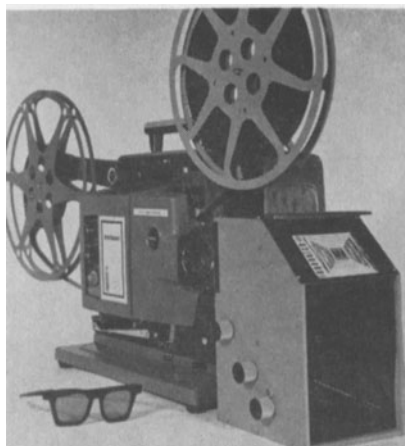




An underwater lighting system designated the DMPS-3 has been announced by Sylvania Electric Products Inc., 730 Third Ave., New York, NY 10017. The high-intensity light required for underwater filming is provided by two 250-W lamps manufactured by Sylvania's Photolamp and Special Products Div. The lamps are housed in fixtures produced by the Geodine Division of EG&G International, Inc., and the system is mounted on an aluminum sea sled. The DXM lamp has a high silica clear glass bulb and a single contact recessed base. It has an initial illumination level of 8,000 lm with a 6-h average rated life. The system was designed mainly to record the net-evading techniques of deep-sea life, including the elusive Royal Red Shrimp common to the waters off the Gulf Coast states.

The Bauer P6 Automatic 16mm Optical/Magnetic Sound Projector can take 4000-ft film reels on standard 2000-ft reel arms by means of extension arms, it was an-

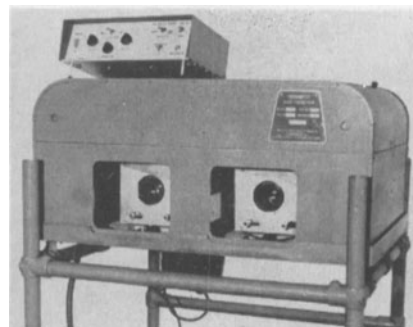
nounced by Allied Impex Corp., a division of AIC Photo, Inc., 168 Glen Cove Rd., Carle Place, NY 11514. With the 4000-ft reel projectionists can show 2 h 26 min of continuous footage at 18 frames/s or 1 h, 50 min at 24 frames/s. Price of the extension arms is \$180.



InVision, a new projection system designed to show any 16mm film in three dimensions (3-D) has been announced by Ingenuics, Inc., 425 N. Frederick Ave., Gaithersburg, Md. 20760. The system, designated Model IN552, consists of a 16mm self-threading sound projector, an image adaptor, a special projection screen and viewing spectacles. Model IN552 uses a modified version of the Bell & Howell Specialist Autoload Filmosound 16mm pro-

jector that permits two adjacent frames of any conventional film to be projected simultaneously. The image adaptor, external to the projector, differentially polarizes and restores vertical registration of the two images at the screen. The screen surface is metallized to prevent depolarization, and masked for the lens and projection distance employed. The viewing spectacles are differentially polarized so that each eye sees only one of the projected images. The mental process then translates the resulting binocular presentation into a realistic preception of depth. The system is priced at \$1,969.

The New Litewate Brute Molarc, Type 4601, has been introduced by Mole-Richardson Co., 937 North Sycamore Ave., Hollywood, CA 90038. The new light is rated at 225 A, 115- to 120-V dc and weighs 137 lb. The new light features a tilt-out carbon feed mechanism, opening from the rear. The housing is all-aluminum construction with hinged clean-out panels on the bottom trough. A light-trap louvered vent is provided in the top for ventilation. Controls are mounted on the rear and no carbon position adjustments are required to re-strike the arc. A newly designed quick-break switch with male pin plugs is provided. The focusing crank adjusts beam divergence from 12° to 48°. Control knobs are provided for manual positioning of the positive and negative carbons. Type 4601 is priced at \$2,925 without the pedestal.



A dual-head 3½ × 4-in slide projector for front or rear projection has been announced by Genarco, Inc., subsidiary of Robins Industries Corp., 15-58 127th St., College Point (Flushing), NY 11356. The projectors are designed for color or black-and-white TV studios, theatrical staging and as a visual aid for teachers and lecturers. Image size depends on the lens and projection distance; for example, an image 20 ft wide is possible from a distance of 22 ft. The controls are all-solid-state with integrated circuits. Available in two models, Model 8000 has two 3,000-W incandescent lamps and Model 8001 uses 2,000-W tungsten-halogen lamps. The dual-head projector has only one housing and operates from a single slide tray. Projection shifts automatically from one optical train to the other. Other features of the projectors include variable-speed dissolve and individual dimming controls. The system is remote-controlled up to 150 ft. Except for the remote control the slide projectors are self-contained measuring 35 in wide, 17 in high and 26½ in deep. Each model is priced at \$6,950.

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from America's leading manufacturer of 35mm carbon arc and Xenon bulb projection lamphouses. The Mighty Mite provides theatre quality projection of 16mm film and can also be mounted on 35mm projectors.

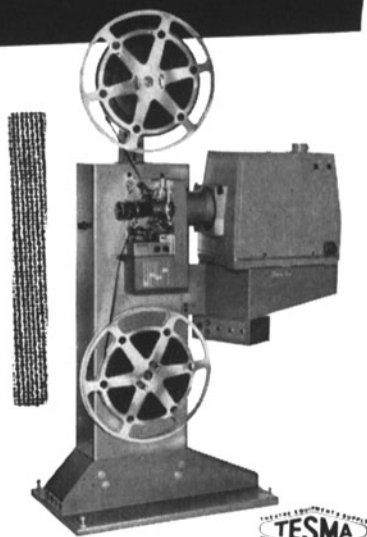
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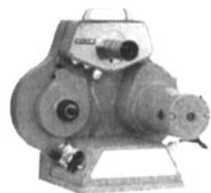
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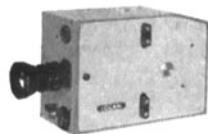
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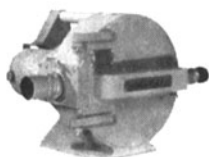
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... is a high performance 16-mm aerospace camera produced in 200- and 400-foot film capacity models with rates up to 500-pps. Reliable, versatile operation results from a double-register pin and double-pulldown intermittent movement that assures the film being captive at all times. Precise speed control is maintained by the use of solid state electronic circuitry.

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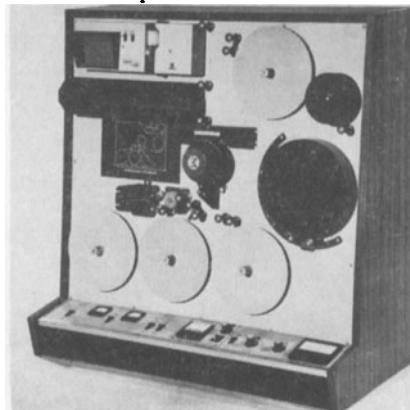
For details, request Data File 804912F.

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The Kodak Ektalite Projection Screen, a new high-brightness screen designed to enhance the display of any projected photographic image under normal daylight or room-light conditions, has been announced by Eastman Kodak Co. The screen is constructed of specially treated aluminum foil and mounted in a 40- by 40-in spherically curved Styrofoam case. The spherical curvature eliminates the "hot spot" effect sometimes seen on flat-surfaced screens. The specially grained aluminum-foil surface enables it to reflect back uniformly most of the light from the projector into the audience space within very distinct spread angles of about 60° horizontally and 30° vertically. When the screen is properly positioned its specially grained surface causes any light originating outside the spread angles to be reflected away from the audience. The new screen is intended especially for audio-visual use in education and industry as well as for amateur and professional photographers. Specialized uses for the screen, such as in projection television where a maximum amount of light is needed, are also possible. The screen is priced at \$65.



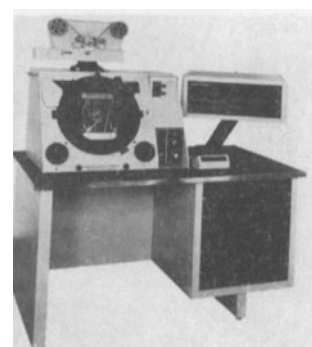
The improved Model 135/16 Printer-Processor and three new accessories were exhibited by Metro/Kalvar Inc., 745 Post Rd., Darien, CT 06820, in a joint presentation with two of its European distributors, N. V. Kinotechniek, Amsterdam; and Videotronics Svenska AB, Stockholm. The accessories are: (1) Film Cleaner/Contrast control — Both the negative and raw stock are threaded through this accessory where static electricity is eliminated by replaceable polonium strips and dust particles are dislodged by air and removed by vacuum. It is priced at \$695. (2) Metro/Kalvar

Exposure Control — This accessory employs a method of light sensing through the pre-print material to permit scene-to-scene timing. A density meter, range adjustment and cut counter are incorporated into the main control panel. (3) Magnasync/Moviola 16mm Inspection Viewer — This accessory is installed before the print take-up to permit the operator to inspect quality while printing, thus eliminating a separate quality control check. An image about 4 by 6 in is readable under ordinary daylight conditions.

The Model 135/16 Printer-Processor uses the Metro/Kalvar dry film process to produce black-and-white 35mm, 16mm or double standard 8mm positive prints at 100 ft/min. The price without accessories is \$7,950.

The Lomax Cat's-Eye lens for low-light level applications has been announced by Lomax, Inc., 485 South Robertson Blvd., Beverly Hills, CA 90211. The lens is the first in a series of special optics being developed by the firm for the television and motion-picture industries. The Cat's-Eye has a very wide aperture ($f/0.95$) and will fit any standard vidicon camera or 16mm motion-picture camera. It is priced at \$125.

The Zolomatics 280 MP zoom lens, first in a series of zoom lenses designed for the 35mm motion-picture field, has been announced by Zolomatics Corp., 941 N. Highland Ave., Hollywood, CA 90038. The lens has a focal range of 28 to 280mm, maximum aperture of $f/3.5$ and minimum focusing distance of 5 ft. The lens is available in two models. With a reflex viewfinder for Mitchell NC and BNC cameras (shown above), the price is \$3,100. Without the viewfinder, the lens is supplied with mounts to fit specified 35mm cameras at a price of \$2,300.



Vanguard Motion Analyzers, available as automatic printout systems to IBM card punches, paper tape perforators and x-y plotters have been announced by Instrumentation Marketing Corp., 820 South Mariposa St., Burbank, CA 91506. The analyzers are designed for use with both digital and nondigital systems, systems with either absolute or incremental pulse encoders which may be zero set, or systems with precision potentiometers. Prices start at \$10,000.

Continuous processing of EK 2448 MS Ektachrome film to the color negative stage has been announced by the Industrial Products Division of Data Corp., 7500 Old Xenia Pike, Dayton, OH 45432. "Aero/Neg" film up to 9½ in wide can be processed

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in any length on a continuous basis using a Kodak Color Versmat and a process developed by Data Corp. Ektachrome reversal film is also processed on a continuous basis. The resulting product is said to be uniform from end-to-end and free of density banding and other irregularities. The processor is believed to be the only one of its type available for commercial use in the United States.

Fiber-glass filter cartridges for use in photographic processing are produced by Johns-Manville, Celite Division, Box CPOD-8, 22 E. 40 St., New York, NY 10016. The cartridges are designed to handle the solutions used in color and black-and-white processing to include bleach solutions, prehardeners, developers and stabilizing solutions. The fiber-glass cartridges are said to have greater dirt holding capacity and to offer better temperature resistance and solubility properties than conventional cartridge materials, such as wool, cotton or cellulose. The method of construction permits increasing density from the outside to the inside of the cartridge which improves the flow rate to clarity ratio of the unit. Price range is from 60 cents to \$1.40 per cartridge depending on size and quantity.



A new model of the Theatre speaker system has been developed from research conducted by Western Research Center of LTV under the direction of John K. Hilliard, it was announced by Altec Lansing, 1515 South Manchester Ave., Anaheim, CA 92803. The new system has been developed in anticipation of improved frequency range in the release of future motion pictures. The new system is smaller than the earlier Voice of the Theatre system, but it features wider angular distribution of sound, a smoother response curve, and a frequency response extending an additional full octave at each end of the spectrum. The system incorporates a sectoral horn in combination with a newly-designed high-frequency driver and a new diaphragm as well as bass speakers which feature low-frequency response, high efficiency and the ability to reproduce the lowest audio frequencies at unusually high power levels.

The Martin Audio Stereo Sonomix 602 has been announced by Martin Audio Corp., 320 W. 46 St., New York, NY 10036. Features include echo mixing facilities. It has six inputs instantly switchable between line and microphone sources in any combination. Designed for use in

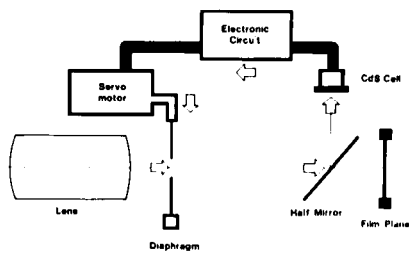
the field, the components have been selected to withstand extremes of temperature, humidity and vibration. Of modular construction, the unit is contained in a package measuring 20 by 8 by 10 in. Prices begin at \$795.

The AK G-D-900E, a dynamic shotgun microphone with a narrow pickup pattern and long distance "reach," has been announced by North American Philips Co., 100 E. 42 St., New York, NY 10017. The microphone's directivity characteristic is the result of a combination of the gradient and interference principles. The unit incorporates a two-position bass roll-off switch (-7 and -20 dB at 50 Hz) which permits use of the microphone in acoustically unfavorable environments. The microphone is 26½ in long, 1¼ in in diameter and has a frequency range of 40 to 13,000 Hz, -3 dB. Impedance is 200 Ω. It is priced at \$149.

A solid-state limiter amplifier designated Model 9473A has been announced by Altec Lansing, 1515 South Manchester Ave., Anaheim, CA 92803. Design of the new unit is based on spectral separation to eliminate problems of envelope distortion caused by too short a release time and loss of program following a high-energy peak when too long a release time is used. Through the use of an internal crossover network, the incoming program is separated into two bands. Each band is controlled by a separate limiter circuit whose release time is determined by the distortion figure allowable at the lowest frequency of that band. The band from 250 Hz up has a release time of 0.4 s. The band below 250 Hz has a release time of 3.6 s. In the dual band release position, the limiter operates on each band separately and limiting in one band does not affect the other. In the single-band release position, the control voltages of the two limiters are slaved together with the largest signal controlling both sides. The limiter element is an insulated gate FET. Model 9473A is priced at \$150.

A new power amplifier designed for professional recording applications has been announced by Altec Lansing, a Division of LTV Ling Altec, Inc., 1515 South Manchester Ave., Anaheim, CA 92803. Designated 9477A, the amplifier is rack-mounted and operates from either an ac (120- or 240-V) or a dc (28-V) source. It is capable of delivering 100 W from 20 Hz to 20,000 Hz and provides outputs for 4, 8 and 16 Ω loads ungrounded. The amplifier occupies 7 in of rack space and has a hinged front panel to allow access to the components without removing it from the rack. It is priced at \$360.

A new 2-in magnetic video recording tape designed to eliminate the problems of windowing and cinching, scratching, capstan slippage and dust-generated dropouts has been announced by 3M Company, 3M Center, St. Paul, MN 55101. The new tape will be called "Scotch" brand 400. The announcement of the new tape noted that it was possible to ship 7,200-ft lengths without fear of windows, creases or cinching, thus making it possible to place a 90-min program on a single roll.



A new 8mm movie camera called the Fujica Z-600 has been introduced by the Fuji Photo Film Co. of Japan. It is distributed in the United States by Ehrenreich Photo-Optical Industries, Inc., Garden City, NY 11530. Features include an electrically-powered $f/1.8$ reflex zoom lens (11 components, 14 elements) with a $6\times$ range from 8 to 48mm. The CdS cell of the electric eye circuit is built into the reflex optical system behind the diaphragm. A servo-motor opens or closes the diaphragm blades in inverse proportion to the amount of light reaching the film. The footage counter is calibrated in both meters and feet and the counter registers the number of frames exposed by means of a large needle that rotates during shooting. The camera is $8\frac{1}{2}$ in high, $7\frac{1}{4}$ in deep and $2\frac{3}{8}$ in thick. It weighs 2 lb, 15 oz. The price is \$329.50.



employment service

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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

Motion-Picture Producer/Director: Varied and wide-based directorial and managerial experience gained as Air Force MoPic Production Officer. Seeking similar position, films, references and further information available. Will travel and have ability to organize to achieve results. UCLA Fine Arts and graduate work in Bus. Admin. Available 1 May, '69. Don Nokes, 757 Cherokee Dr., Elgin AFB, Fla. 32542, Phone (904) 885-4351.

Producer, Director, Cameraman: 7 years experience in all aspects of documentary-educational film production, from treatments and pre-production planning to direction, photography, final scripting and post-production supervision. 29, single, degree from U. of Rochester. Naval officer will terminate June, 1969. Last three years as director/photographer/writer with special Navy documentary film unit producing films for television. Can offer creative and working contribution to documentary film unit. Available June, 1969, resume on request. Manual J. Perez, 1255 New Hampshire Ave. N.W., Apt. 807, Washington, D.C. 20036.

Instructional Media Technical Advisor-I.A. City Schools, desires work July & August. L.A. area only. Experienced in CCTV, Audio-Visual, Photography & Instrumentation. Andrew J. Mott, 20316 Acre Street, Canoga Park, CA. 91306 (213) 341-2218.

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DIRECTOR OF ENGINEERING

PROJECTOR & FILM PROCESSING FIELD ENGINEERING

THE COMPANY

An established multi-million dollar public corporation involved in providing film entertainment in a mobile environment. Headquartered in New York area with operating units on the West Coast.

THE POSITION

Directs all field engineering functions of the company and assists in research and development programs. Includes projector design, assembly, installation, maintenance and repair as well as film editing and quality control.

THE IDEAL CANDIDATE

Requires an individual with a technical degree and the ability to organize, administer and direct the technical efforts of service technicians, bench repair, assembly and maintenance, quality control and film editing operations. Should have professional background in projectors, film processing and editing optics, electronic, and audio components.

Compensation is in the \$25,000 to \$30,000 area plus executive fringe benefits.

Our client is an equal opportunity employer.

Send resume giving full details and salary history to: Box 5JV, 62 West 45th Street, New York, New York 10036.