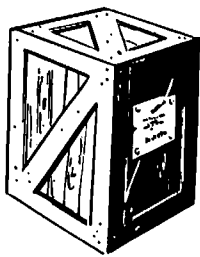


new products

(and developments)



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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.

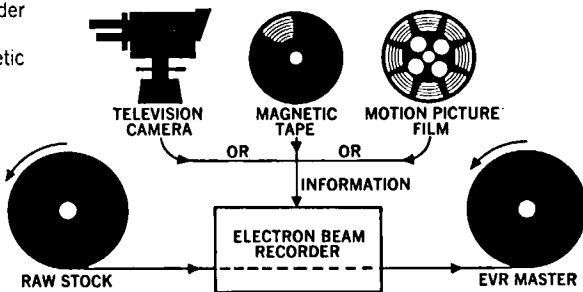
Electronic Video Recording (EVR), a technological development expected to have a substantial impact in the field of education, has been introduced by Columbia Broadcasting System, 51 W. 52 St., New York, N.Y. 10019. Essentially, what the

device does is to play back on conventional television sets prerecorded programming from motion-picture film and video tape.

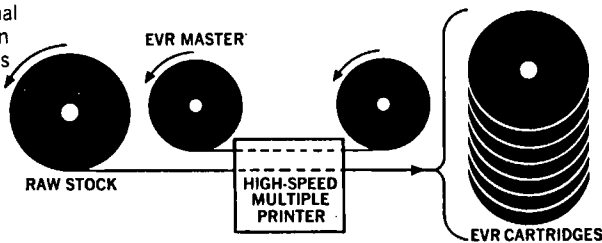
There are three main stages in the system: (1) *Prerecording* — a sophisticated electronic process transfers film or videotaped programming to a special 8.75-mm unperforated thin film; (2) *Cartridge* — the film is then stored in a cartridge 7 in. in diameter and about 1/4 in. thick; and (3) *Reproduction* — the cartridge is inserted into a player attached to the antenna terminals of the television receiver and automatically "played" on the television screen. Applications of the device are expected to include home entertainment as well as education because of ease of operation and low cost.

EVR does not provide for recording off the air or for electronic home movies. It is not a video-tape recorder and the film cartridges it plays can be made only in processing facilities specifically designed for that purpose. The cartridges are capable of carrying up to one hour of black-and-white programming or one half-hour of color programming. An unusual characteristic of EVR technology is that color programming is recorded as black-and-white,

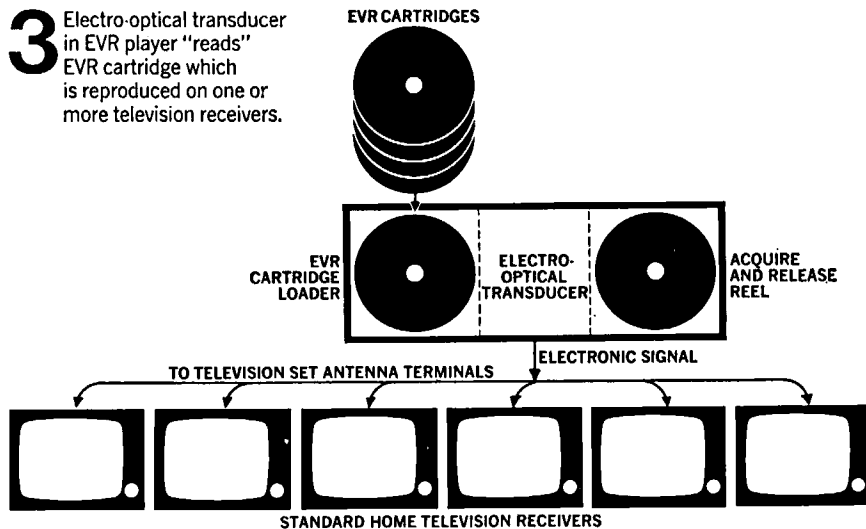
1 EVR electron beam recorder takes program from television camera, magnetic tape, or motion picture film to generate an EVR master in color or black and white.



2 One 20 minute educational program can be printed in approximately 30 seconds by EVR high speed multiple printer, which generates multiple EVR film cartridges from EVR master.



3 Electro-optical transducer in EVR player "reads" EVR cartridge which is reproduced on one or more television receivers.



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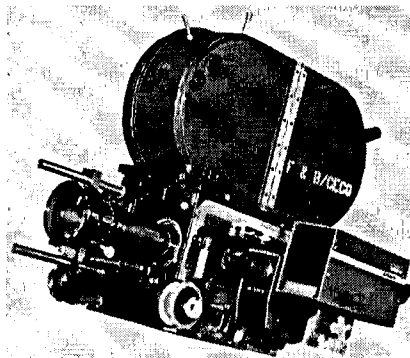
yet it reproduces in color on color television sets. The player (about the size of a bread box) can be attached externally either to a single television set or a number of sets simultaneously. The film moves at a speed of 5 in./s.

A major advantage of EVR, especially for educational purposes, is that the film can be stopped anywhere and a still frame displayed. Thus, an event could take place on the screen, and then the motion-picture stopped while an explanation of the experiment or action appeared on the screen. Also, the contents of a 24-volume encyclopaedia, for example, or a comparable amount of other printed material could be recorded on a cartridge, with an index lever enabling the viewer to pick out the particular reference material he required. The device can be stopped so that a viewer can read a page from the book on his home screen.

EVR will be manufactured in Great Britain. Marketing procedures will be handled through a partnership of CBS, Imperial Chemical Industries Ltd. (ICI) (England) and CIBA Ltd. (Switzerland). Ilford Ltd., a jointly owned subsidiary of ICI and CIBA has been collaborating with CBS on the development of specialized film required for the system. The pre-recorded cartridges will be made in a plant to be erected in one of Ilford's works in the United Kingdom. Prototype production players will be manufactured by Thorn Electrical Industries, Ltd.

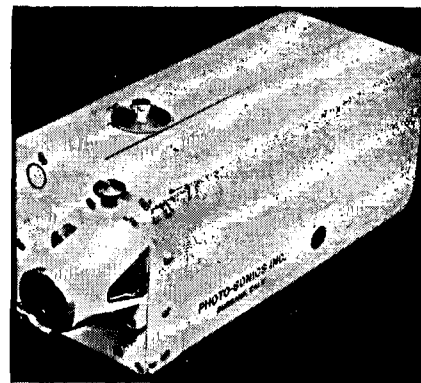
A 2-lb television camera (about the size

of a home movie camera) has been developed by RCA for potential use in space exploration missions. The camera (with lens) measures $6\frac{1}{2} \times 3 \times 1\frac{1}{2}$ in. and is the smallest TV camera built at the RCA Astro-Electronics Div. at Princeton, N.J. Key features that make possible the camera's compact size and reduced weight are extensive use of integrated circuits and RCA-developed improvements in design of the deflection and focus coil, the announcement stated. Other design features include discrete components and a $\frac{1}{2}$ -in. vidicon. The camera has 600-line resolution and operates on the slow-scan principle.



A video-tape camera system for the Mitchell BNC Reflex conversions has been announced as available by rental from F&B/Ceco, Inc., 315 W. 43 St., New York, N.Y. 10036. The system is designed to permit recording on video tape and also instant TV monitoring of the through-the-

lens image as it is being filmed. The system utilizes a Sony Video Camera, a 4-in. swivel-mounted monitor on the BNC, a 9-in. monitor by the video-tape recorder and a 23-in. auxiliary monitor for both the shooting and playback viewing. The system features full lens interchangeability from 20mm and up Super Baltars, plus the Angenieux 25-250mm Zoom Lens. The BNC Reflex employs a beam-splitter rather than a mirror shutter. The BNC Reflex has been converted for Techniscope.



A new 16mm camera designed for airborne use in combat documentation, strike and gun photography and gun-sight recording as well as other instrumentation applications, has been announced by Photo-Sonics, Inc., 820 South Mariposa St., Burbank, Calif. 91506. Designated the 16mm-1M, the camera features an automatic exposure control system with ASA film speed settings from 16 to 500 which detects and corrects for frame rates. A sensor behind the lens scans the aperture area without obstructing the optical path during exposure. Frame rates, ranging from 16 to 200 frames/s can be automatically programmed and electronically controlled locally and/or remotely. The 13-lb camera accepts 100-, 200- and 400-ft magazines. Power requirement is 28 V at less than 3 A.

A dual crystal modulator to give electronically controlled Q-switching at high repetitive frequencies has been announced by Westinghouse Electric Corp., Box 2278, Pittsburgh, Pa. 15230. Called Pockel's Cell it is designed for use as a Q-switch, optical modulator or shutter. Features include low driving voltage and a high-frequency response. Modulator performance is independent of temperature due to two electrooptical crystals mounted in temperature-insensitive crystal holders. The modulator can be used with red, green or blue lasers. The unit weighs about 2 lb and is available in two models, the LPC-100 with an aperture of $\frac{1}{4}$ in. and a switching voltage of less than 500 V. Voltage ratings are given at helium-neon wavelengths. Both models are 3 in. in diameter and 4 in. long with a constant ratio of 200:1 and optical transmission of 90%. The LPC-100 can be modified for use at infrared frequencies. The modulator (both models) is priced at \$2,700 in single lot quantities.

A portable color TV recorder called IVC Model 800 has been introduced by International Video Corp., 67 East Evelyn Ave., Mountain View, Calif. 94040. The machine is a 5-MHz full NTSC color

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video tape recorder measuring $19 \times 12\frac{1}{2} \times 9\frac{1}{2}$ in. and weighing 52 lb. Features include remote control, a timer reading in minutes and tenths and fast forward and rewind times of less than 90 s. Sixty minutes of recorded time requires only 2,150 ft of video tape. The recorder is priced at less than \$4,500.



A new display storage tube designated WX-31016 has been announced by Westinghouse Electronic Tube Division, Elmira, N.Y. Designed for high-contrast operation, the background brightness is made independent of erase duty cycle and persistence. The tube has a minimum erase time of 7 ms and is capable of displaying nine shades of gray. The tube can be used in applications requiring TV displays as well as radar displays. Two electrostatic focused and deflected writing guns permit a wide range of operating modes. The tube is priced at about \$2,500.

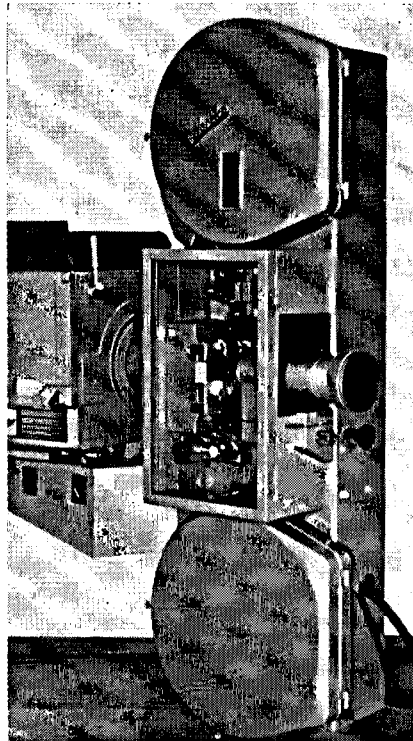


A long-integration SEC TV camera tube able to integrate small light signals linearly over a long period of time, converting them to usable electronic signals for TV line display, has been announced by Westinghouse Electronic Tube Division, Elmira, N.Y. 14902. The tube, designated WX-5419B, was originally designed for astronomical purposes. It is said to be the only SEC tube responding to visible light that can amplify and integrate small signals over a long period of time (15 min). The light image is focused onto the tube cathode from which electrons are emitted and accelerated to an SEC target, thus producing an electronic image in the form of the original image. The image is then read by the scanning readout beam. The main feature of the tube is the SEC target which amplifies ($\times 100$) and integrates the image. By coating the image section with a highly resistive material, field emission is overcome. The tube is 3.3 in. in diameter and 17.5 in. long.

Westinghouse Electronic Tube Division also announced the WX-30813 SEC television camera tube designed to produce high resolution (1000 TV maximum) and good uniformity with an electrostatically focused zoom image section. An image focused on the 40-mm-diameter fiberoptic faceplate causes the emission of electrons which are accelerated and focused on the target. The target a thin membrane about $10 \mu\text{m}$

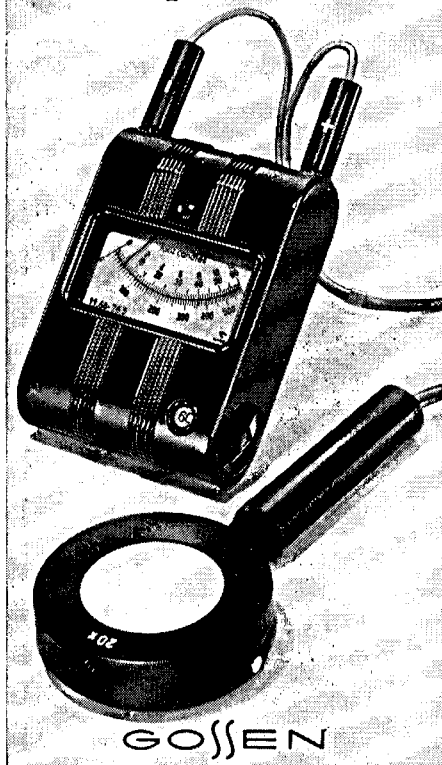
thick, amplifies and stores the charge image which is then read out by a conventional direct-beam scanning section.

A 16mm TV projector for use in a TV film chain with optical multiplexor or as a regular 16mm projector has been announced by Kalart Company, Inc., Plainville, Conn. 06062. Called Model STV-TB, features include complete solid-state circuitry, lamp brightness controls, optical sound pick-up with provisions for adding magnetic sound, an audio output of 600- Ω impedance, a built-in monitor speaker with volume control and a 2,000-ft reel film capacity. The basic model is priced at \$1,250.



The Norelco Universal DP-75 projector, developed as a successor to the Norelco AAI model, has been announced by North American Philips Co., Motion Picture Equipment, 100 E. 42 St., New York, N.Y. 10017. Features include anti-buckle film gate construction with a runner plate and pressure skates to push the film edges into one plane of the aperture. Solid column construction provides picture steadiness. Gear wheels are kept to a minimum and the entire drive mechanism is encased in a relatively small oil-filled housing. Delrin (a synthetic to which emulsion residues do not adhere) running surfaces are used to permit both old and new prints to be projected without special precautions being necessary. Fast conversion from 70mm to 35mm is provided for. The film gate features a one-piece triple aperture sliding plate for 1.37:1, widescreen and CinemaScope. Guide rollers and sprockets (except the intermittent sprocket) have flanges for both 35mm and 70mm films so that even badly damaged prints can be guided safely through the projector. The new projector also incorporates advances in sound reproduction. The optical soundhead features a solar cell mounted inside the sound drum to provide greater sensitivity as well as better frequency response and low noise level.

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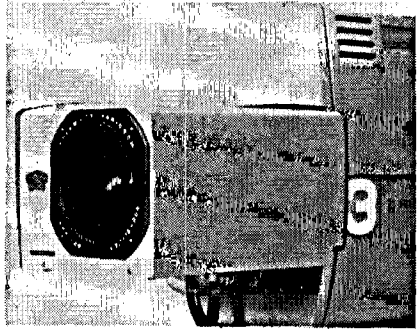
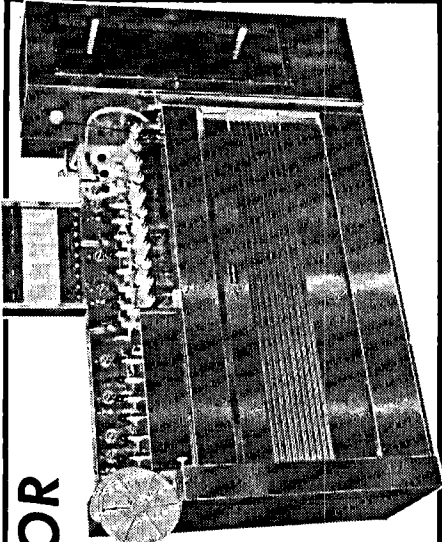
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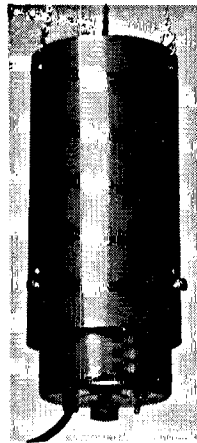
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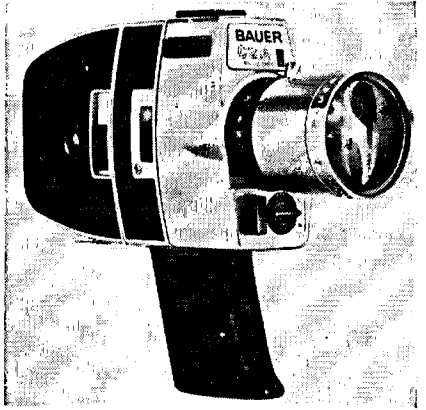


The TV-1 Color-Television Variogon lens for Plumbicon cameras has been announced by Tele-Cine Inc., 294 E. Shore Dr., Massapequa, L.I., N.Y. 11758, sole distributors in the United States for Schneider television lenses. Features of the new lenses include extended zoom range (11.1 to 1; 18 to 200mm); a near-focusing distance of 70mm; quick-change range extenders, each with individual back-focus adjustments and bed-mounted for manual or servo operation, plus linear focus compensation for varying object distances. The lens has a diascope attachment which enables projection of 35mm 2 X 2 slides through the lens for testing, camera setup or program use.

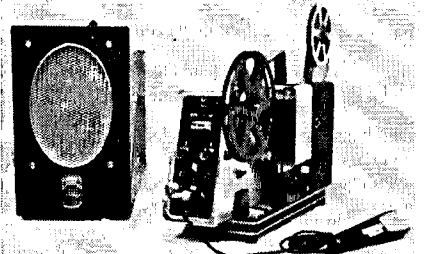


The Berkey/ColorTran Spectroluxe Dark-room Safelight designed to produce a high-intensity monochromatic light beam in a wavelength region of the visible spectrum where many color films and print stocks are insensitive has been announced by ColorTran Industries, Inc., 1015 Chestnut St., Burbank, Calif. 91502. Called Model LS-1, the Safelight utilizes a PAR 38, 75-W long-life (2,000-hr) spot bulb operating directly from 120-V ac or dc. A built-in intensity control (rheostat) is included as standard equipment. The unit is 17 in. long and 7 in. in diameter. It weighs 7 lb. Price, including lamp, is \$380.

The Special Effects Generator/Switcher/Fader Model 360, designed for closed-circuit TV installations with random interlace cameras, has been announced by Shintron Company, 144 Rogers St., Cambridge, Mass. 02142. Model 360 is designed to perform such functions as corner insert in any of the four corners, horizontal wipe, vertical wipe, switch and fade. The model also features image reversal capability to obtain negative pictures. The unit is priced at \$595.



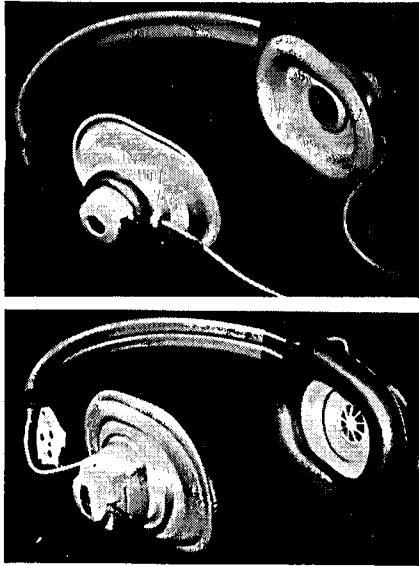
The Bauer C2A super 8 movie camera has been announced by Allied Impex, Inc., 300 Park Ave. South, New York, N.Y. 10010. Similar in appearance to the earlier C1 and C2 cameras, the C2A has additional features, including an aerial-type through-the-lens viewfinder, a CdS exposure meter, three filming speeds and an exposure indicator and battery check continuously visible in the viewfinder. The camera has a zoom lens with an 8:1 ratio and a focal length of 7.5mm to 60mm. Batteries are located in the camera's pistol grip and a tripod socket is located toward the rear of the camera in back of the pistol grip. The camera is priced at about \$329.95.



The Carena 888 convertible sound projector (*Jour.*, p. 444, Apr. 1966) has had added a number of new features, according to an announcement from Karl Heitz Inc., 979 Third Ave., New York, N.Y. 10022. The projector, manufactured in Liechtenstein, converts from super 8 to standard 8 by means of a lever which changes claw, film gate and soundheads to the desired mode. New features include a switch with control lamp on the sound and mixing panel to permit subsequent recordings on either super 8 or standard 8 magnetic tracks without erasing; a Bright-Normal switch for rapid changing of light intensity, in addition to the adjustable transformer 110-240-V ac; and a constant voltage regulator to supply constant operating voltage. The improved projector also has a public address system to permit live commentaries and music before, during and after presentation of films. Another improvement is the echo adapter to produce echo effects and a 7-W amplifier/speaker built into the lid of the carrying case. The projector is priced at \$599, including a Zeiss 20mm f/1.2 lens.

A new monitor designed specifically for use with the PAL color system has been announced by Conrac Corp., 600 North Rimsdale Ave., Covina, Calif. 91722. Called the CYE the monitor features solid-state circuitry with a minimum use of

vacuum tubes. A decoder is used to allow elimination of all operating controls except Contrast and Brightness, while a calibrated chroma control is used for Preset. A front panel switch allows selection of either Deluxe or Simple modes of PAL operation. A delay-line aperture corrector provides up to 10 dB of high-frequency boost with linear phase characteristic. The monitor is available in 17-in. or 21-in. models.



Two new stereophonic headphones manufactured by AKG of Vienna have been announced by North American Philips Co., 100 E. 42 St., New York, N.Y. 10017. The headphones, weighing 11 oz, are designed in accordance with the findings of research into the physiology of the human ear and the mechanics of hearing. The research involved a physical and mathematical analysis of the damping, resonant frequency, and impedance characteristics of the ear. These factors were reconstructed in electroacoustical terms and programed into an analog computer which supplied the product development data. Designated K-20 (top) and K-60 (bot.), the headphones are designed to generate sound pressures at the entrance to the ear equal to a loudspeaker system in free space.

A strobe control unit that can be triggered by sound, light or voltage has been announced by Impulsphysik GmbH, 2000 Hamburg 56, Sülldorfer Landstrasse 400, Germany. Optical signals from a transient event pass through a lens system onto a built-in phototransistor. The phototransistor output is amplified in the all-solid-state device to provide a strong positive 80-V output with a steep rise time. The output pulse is triggered by a 60-Ω cable. The phototransistor sensitivity reaches into the infrared, permitting sensing of high-velocity projectiles and plasma jets. Acoustic signals are sensed by a built-in crystal microphone with variable attenuation. The unit can function also as a pulse former and amplifier of very weak electric signals. Manual triggering is possible. A nickel-cadmium battery is used to avoid electrical ground and interference problems.

The Molequartz Molepar, Type 2271, is a new lamp announced by Mole-Richardson Co., 937 North Sycamore Ave., Hollywood, Calif. 90038. Type 2271 accepts any one of eight 1000-W oval beam, quartz tungsten-halogen PAR-64 globes. The lamp is designed so that the globe can be rotated 360° for beam orientation while diffuser clips remain stationary to hold such accessories as light shields, filters, reflectors, etc. Two intensifiers (specular and diffuse) are used to increase light concentration. With the intensifier the Molepar is said to produce up to 39,000 fc at 3 ft. Type 2271 is priced at \$66.00.



The Molequartz Mighty-Mole, Type 4091, has been announced by Mole-Richardson Co., 937 North Sycamore Ave., Hollywood, Calif. 90038. The lamp uses 3200 K and 3350 K quartz tungsten-halogen globes in 2000, 1500 or 1000-W ratings. Spot to flood control of the variable beam is accomplished by turning a control knob at the rear of the housing to move the reflector. The globes are in stationary rugged sockets. At 10 ft, using the 2000-W, 3200-K, 500-hr globe, the light intensity may be varied from 2400 to 280 fc. The Type 4091 head is priced at \$95.50. The pedestal, Type 2541, described as compact and lightweight, is priced at \$42.25.

A 2500-W xenon arc lamp for applications in solar simulation, scientific instrumentation, projection systems, etc., has been announced by PEK, Inc., 825 East Evelyn Ave., Sunnyvale, Calif. Designated Model X-2500A, the new lamp features ruggedized ribbon seal construction to provide greater protection from damage by vibration and heat. The lamp is dc operated and provides continuous, modulated and pulsed operation capabilities. The X-2500A delivers a rated average brightness of 62,000 cd/cm². Life at the rated 2500-W is 1500 hr. The lamp is priced at \$425.

Mini-Brute high-intensity fill lights have been announced by Berkey-ColorTran, Inc., 1015 Chestnut St., Burbank, Calif. 91502. The lights are designed to supplement daylight on outdoor locations and also for color work in motion-picture and television studios. Operating directly from 120-V, ac or dc, Mini-Brutes accept 650-W, tungsten-halogen quartz (5000-K), PAR 36 lamps with dichroic coated lenses. The lights are available in 5-, 6- and 9-in. heights. Various models are available with different lamp-switch arrangements to provide for various levels of intensity without changing color

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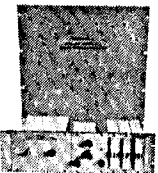
The use of reverb in broadcasting and sound re-enforcement is becoming equally more popular for the same reasons: A more pleasing commercial sound and production of a signal that is apparently louder for the same signal level.

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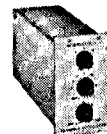
MODEL 658A

The 658A is a complete solid state reverberation system with electronically controlled reverb time adjustments up to 5 seconds; mixing control for adjustment of reverberated to non-reverberated signal ratios; reverb equalization at 2, 3 and 5 KHZ. Size: 24½ x 19"



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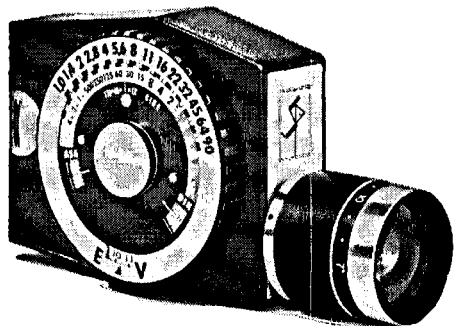
You can't beat a zoom lens for speed and convenience in selecting picture angle and image size. Same holds true for selecting specific areas on which to base your exposure.

The new Spotron Pentaview Zoom lets you adjust the acceptance angle from 7° to 14°. At a distance of 15 feet, for example, you can zero in, and measure brightness of an area only 22" in diameter, or as large as 3'8".

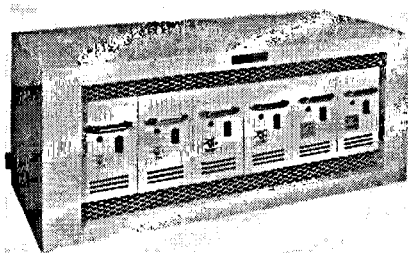
The prism finder shows the targeted area upright and unreversed. You turn the control dial until the finder needle centers, and take your reading right off the dial. It shows film ratings ASA 3 to 6400; exposure values 3 to 18 EV; apertures f1.0 to f90; shutter speeds 15 sec. to 1/4000th and movie speeds 12 to 128 fps.

The slim Pentaview Zoom fits easily into your shirt pocket. Price, including case, neck strap and incident light attachment, is under \$60. Also see the standard Spotron Pentaview, without zoom, at under \$50. Or write: Spotron div/Ehrenreich Photo-Optical Industries, Inc., Garden City N.Y. 11533 (In Canada: Anglophoto Ltd., P.Q.)

SPOTRON PENTAVIEW ZOOM



temperature. The 6- and 9-in. lights have movable (vertical) lamp banks that permit varied beam coverage. The units are lightweight, compact and portable. Price range is from \$139 to \$198.

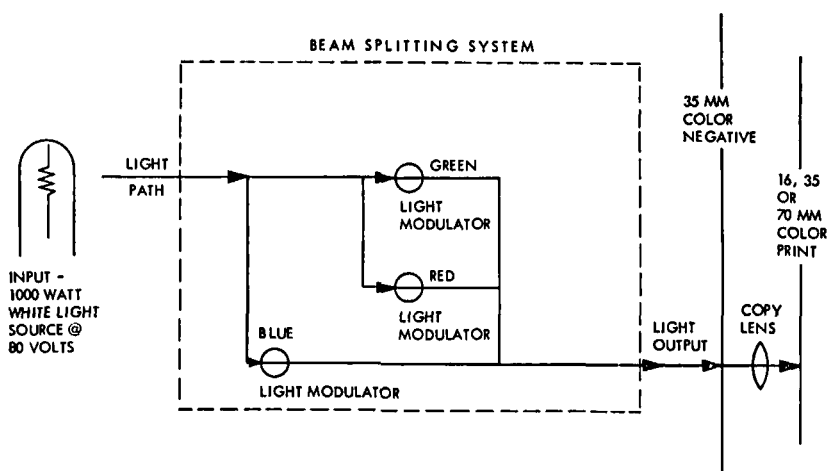


A new line of packaged dimmer systems has been introduced by Skirpan Electronics, Inc., 41-43 24th St., Long Island City, N.Y. 11101. The dimmer systems include a variety of remote control stations and dimmer power racks. The control stations are available in a single manual, two-preset or six-preset configuration, and feature plug-in, rear-illuminated controllers. The dimmer power rack can be provided with either six 2,000-W dimmers or six 6,000-W dimmers. The dimmers all have plug-in design, square law transfer characteristics and integral filtering to prevent lamp sing and RF interference. The dimmer racks are available with a wide selection of output receptacles and include a remotely operated main dis-

connect. Prices for the systems range from \$1,677 to \$3,530.



A tungsten halogen lighting unit for super 8 and standard movie cameras has been announced by Sylvania Electric Products Inc., 730 Third Ave., New York, N.Y. 10017. Called the Sun Gun 8, the unit is 3 in. square and 4 in. deep and features an adjustable focusing beam. The light source is a 650-W single-ended, two-pin base lamp. Color balanced for super 8 film, the lamp (type DVY) has a color temperature of 3,400 K and is said to maintain its color temperature and light output throughout its life. It is priced at about \$14.95.

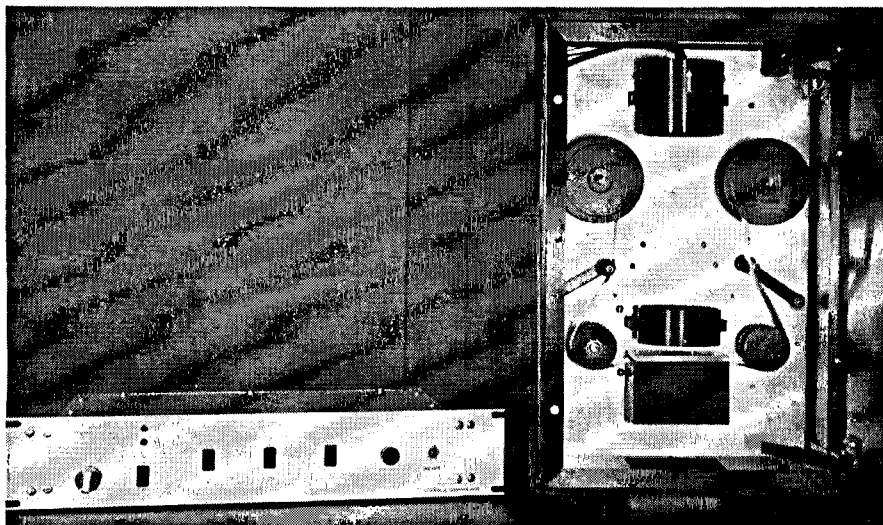


A new lamphouse optics conversion system designed to update existing additive color printers has been introduced by Wheeler Optical Systems, 729 North Seward St., Hollywood, Calif. 90038. The optics system, called MK IV System, has three sets of color (red, green and blue) dichroic mirrors with associated optics.

It employs existing light valves to control color intensity and integrating lenses through which the programed color is transmitted for scene-to-scene color correction. The system is designed for easy conversion for left-to-right and right-to-left printers. Speeds of up to 150 ft/min are possible, depending on the printer.

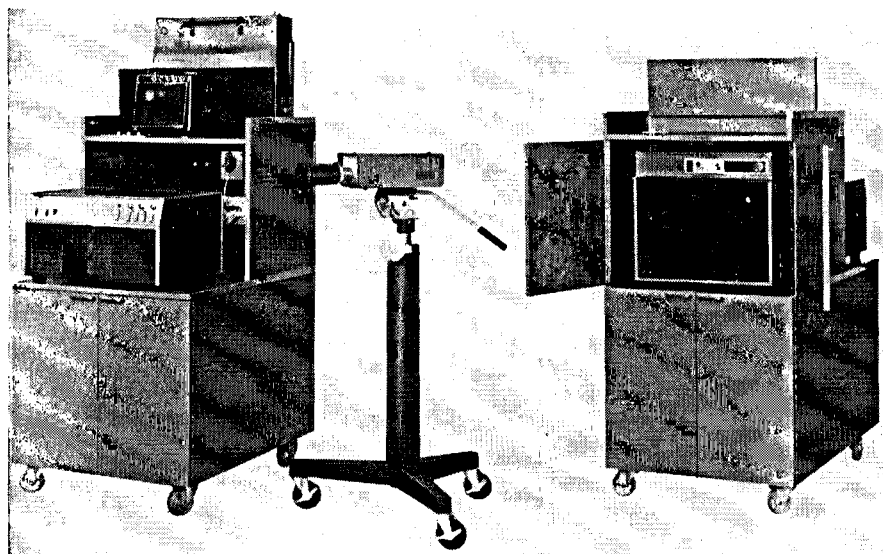
A solid state sweep generator for use in the VHF-TV RF and infrared bands has been announced by Telonic Instruments, 60 N. First Ave., Beech Grove, Ind. 46107. Called Model 1010, the instrument features automatic frequency selection of TV channels. It is 8½ in. wide, 6½ in. high and 12 in. deep and covers a frequency range of 18 to 240 MHz with a sweep width of 5 to 15 MHz.

Designed mainly for use in alignment of TV tuners and receivers in production testing, it has a 13-position channel selector with an illuminated dial for setting channels 2 through 12, plus an infrared channel. Other controls include sweep width, a channel centering vernier, and an 0-10 dB output level vernier. The basic unit is priced at \$550.



A computer-controlled film transport, Model 332, is a versatile input/output device for image-processing computers produced by Shintron Company, 144 Rogers St., Cambridge, Mass. 02142. The unit is designed to provide convenient photographic film data storage and readout. It consists of a light-tight cabinet housing, film drive mechanism, condenser optics with PMT mount, and a separate control unit.

The film transport moves data film (35mm standard size, others available) 1 mm when a command pulse is applied. The film can be driven in either direction by a digital command pulse. The control unit includes a decoder for digital signals, a pulse generator for moving film without command pulses and a system power supply. The 35mm system is priced at \$2,900.



An audio/video recording and playback system called WAVE/Trainer has been announced by Westinghouse Electric Corp., Commercial-Institutional Products Div., Route 27, Metuchen, N.J. 08840. The system has been designed for use in industrial and sales training and office-to-

field communications. Components include a solid-state monochrome vidicon camera; Westinghouse Audio-Visual Recorder; 19-in. receiver for group viewing and a 9-in. Demod monitor for simultaneous viewing while taping or for off-air or camera playback.

A differential, dc-operated power amplifier (Model 440) has been announced by Opamp Labs, 172 S. Alta Vista Blvd., Los Angeles, Calif. 90036. The amplifier is intended for use as a servo motor or dc through audio power amplifier. In audio applications it may be used with either a single polarity or bipolar power supply. It consists of an Opamp 4009 motor driving a dual class AB power amplifier. It has an output capability of 60-W rms. The price is \$60 for a single unit.

A machine which uses a dry process to generate characters and record them automatically on already processed film has been designed and constructed by Xerox Corp., Midtown Tower, Rochester, N.Y. 14603. The device uses xerography; and title information is automatically placed along the edges of developed film for later identification, correlation and computer evaluation. Title information is added to developed film at a rate of 15 ft/min. The machine consists of a character generator

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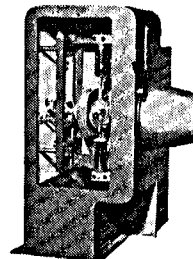
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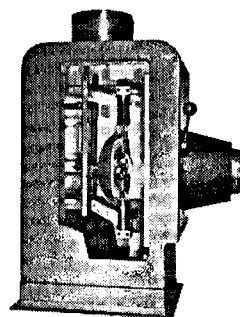
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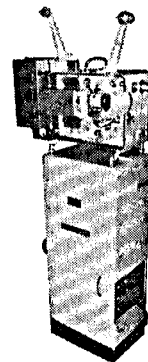
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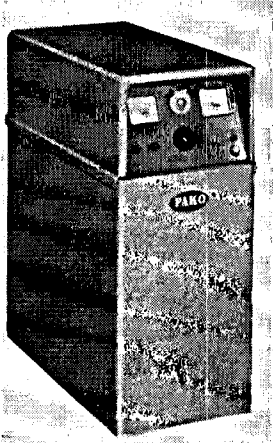
Literature on request. Dealerships available.

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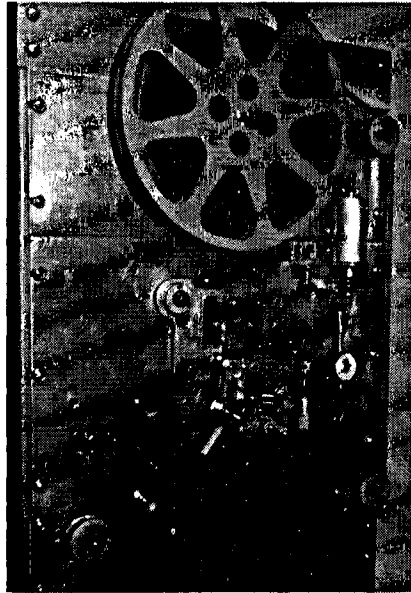
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to create the numbers to be printed, a film transport system to maintain synchronization between the moving film and the moving elements of the titling machine and a xerographic processing unit that prints 5-digit numbers in a space 2 mm high and 6 mm long along the film edge. The titler can handle full-frame or half-frame formats.



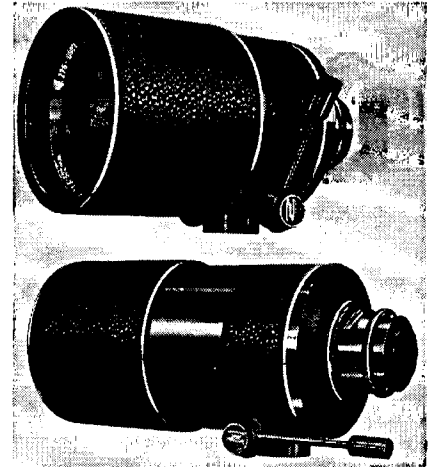
The Ropak Silver Recovery Unit is a small silver recovery unit said to have a high recovery rate. Announced by Pako Corp., 6300 Olson Memorial Hwy., Minneapolis, Minn. 55440, the unit is designed to permit high current density to achieve fast recovery of nearly pure silver. The Ropak occupies 12 by 27 in. of floor space and is 32 in. high. It can be installed

by plugging into a standard 110-V outlet and connection of input and output tubing. Collected silver can be removed by flexing the stainless-steel discs on the cathode. The unit is priced at about \$1,100.



Magnetic sound stripping of processed prints by means of equipment specially designed to remove emulsion from 16mm film by channeling is a service available from Aerco, Box 171, Pennsauken, N.J., at a price of 3 cents per ft. (Regular striping is available at 2 cents per ft.) The channeling

equipment, designed by Aerco, is intended to allow magnetic striping of processed prints that will have the quality of base-side magnetic striping. The equipment is designed to detect all types of splices and to lift the channeling cutter automatically over the splices. No balance stripe is required, the announcement stated, since the depth of the channeling is controlled and the placing of the 100-mil sound stripe in the channel brings the sound striping even with the surface of the film.



The Sport Zoomar Reflector "500," a new version of the 20-in. Zoomar Reflector Lens, has been announced by Zoomar, Inc., 55 Sea Cliff Ave., Glen Cove, N.Y. 11542. A new feature of the lens is a quick-focus lever that can be attached to either the right or left side of the lens. The lens also features a built-in disc with equivalent *f*/stop markings for *f*/5.6, *f*/8, *f*/11 and *f*/16. The built-in tripod mount has both $\frac{1}{4}$ -in. and $\frac{3}{8}$ -in. The new lens is said to have increased resolving power, color correction and brilliance. With the Zoomar-Kilar Adapter System, it can be adapted to a variety of motion-picture and television cameras. It is priced at about \$550.

The Funkenzeitlupe, a multiple high-speed spark camera which works on the Cranz-Schardin principle, has been announced by Impulsphysik GmbH, 2000 Hamburg 56, Sülldorfer Landstrasse 400, Germany. The camera is designed to take a series of high-speed photographs at rates up to 1 million frames/s. The equipment consists of a modified Linhof 9 × 12 Cardan-Color pickup camera with eight adjustable deviation prisms positioned directly in front of the lens; a sparkhead with eight adjustable air spark gaps and the electronic control unit. The sparkhead may be positioned beside the camera lens or opposite and facing it. In order to minimize parallax the spark gaps are close together, with the distance between two gaps, only 9mm. The flashing frequency is continuously adjustable from 1 Hz to 10⁶ Hz. The flash series may be triggered with an accuracy better than 100 ns.

A low-noise mastering audio tape featuring a new oxide binder formula has been announced by Ampex Corp., 401 Broadway, Redwood City, Calif. 94063. Called Series 404, the new tape is said to provide higher frequency response and greater undistorted dynamic range. It is available in $\frac{1}{4}$ -, $\frac{1}{2}$ - and 1-in. widths on both polyester and acetate base materials.

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