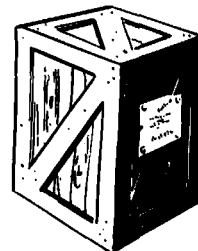


being choice of key words. Successful classifications ran from some 80 to 97%, which seems very good.

The third report covers a study of listing systems for optimum retrieval. An army illustration for a given group would be listing by rank (general to private), by age, by specialty (infantry signal corps, medical corps, tank corps, etc.), and so on. Multiple file listing possibilities, and various combinations of them, are examined. The problem is complicated because, unlike in the army example, for documents the component specifications of a given listing cannot usually be mutually exclusive. The results are disappointingly

inconclusive for the general problem, though some advice appears for specific conditions.

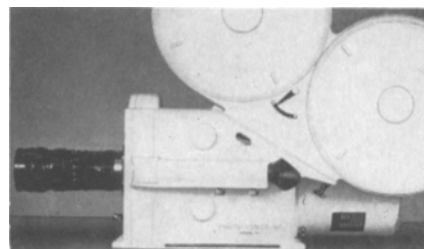
One can only wonder at what will be the outcome of all this work. The general feeling, after analysis, always seems to be that automatic indexing, and especially abstracting, are inferior to the human efforts. But obviously something will have to be done to keep track of all the outpouring of recorded information, which is fast becoming unmanageable. Let us hope that soon a practical solution can appear that may be put to general use.—*Pierre Mertz*, Consultant, Lido Beach, L.I., N.Y. 11561.



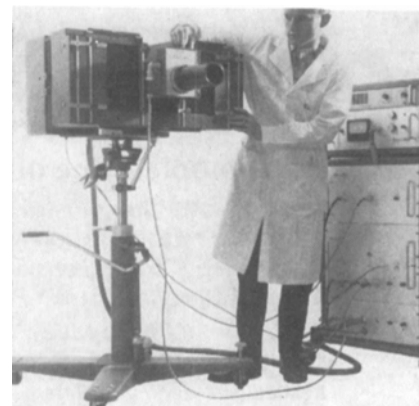
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Further information about these items can be obtained direct from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement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

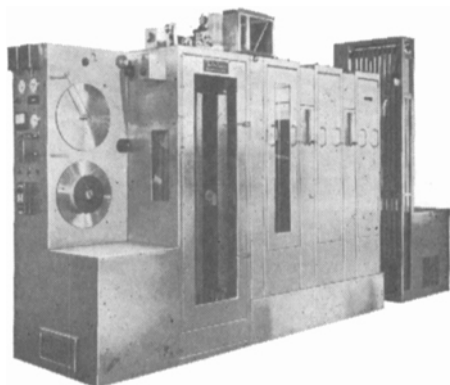


The 35-mm-4E, a high-speed 35mm instrumentation camera featuring pin registration and speeds from 24 to 360 frames/s, has been announced by Photo-Sonics, Inc., 820 S. Mariposa St., Burbank, Calif. 91506. Three motor drive systems are available: 208-V, 3-phase, 115-V single-phase with SCR variable-speed controls, and 208-V 3-phase synchronous motor with integral gearbox. The camera can be supplied with 400-ft or 1,000-ft film magazines. Other features include an integral 5-digit footage counter, reflex viewing and focusing, timing lights, illuminated fiducial markers with intensity control, and rotary shutter adjustable from 5° to 120° opening. Prices range from \$13,000 depending on drive systems and accessories.



A continuous writing camera designed to record a sequence of 48 pictures at rates up to 4.5 million pictures/s has been announced by Beckman & Whitley, 441 Whisman Rd., Mountain View, Calif. 94040. Called the Model 300, the camera is used to photograph unpredictable events that occur in microseconds, such as hyper-velocity impacts, nuclear reactions, laser

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316DS	Neg/Pos.	B&W	16mm	60-100FPM
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NP36	Neg/Pos.	B&W	16mm	90FPM
S-90	Neg/Pos.	B&W Spray	16/35	90FPM
S-120	Neg/Pos.	B&W Spray	16mm	135FPM
S-150	Neg/Pos.	B&W Spray	16/35	160FPM
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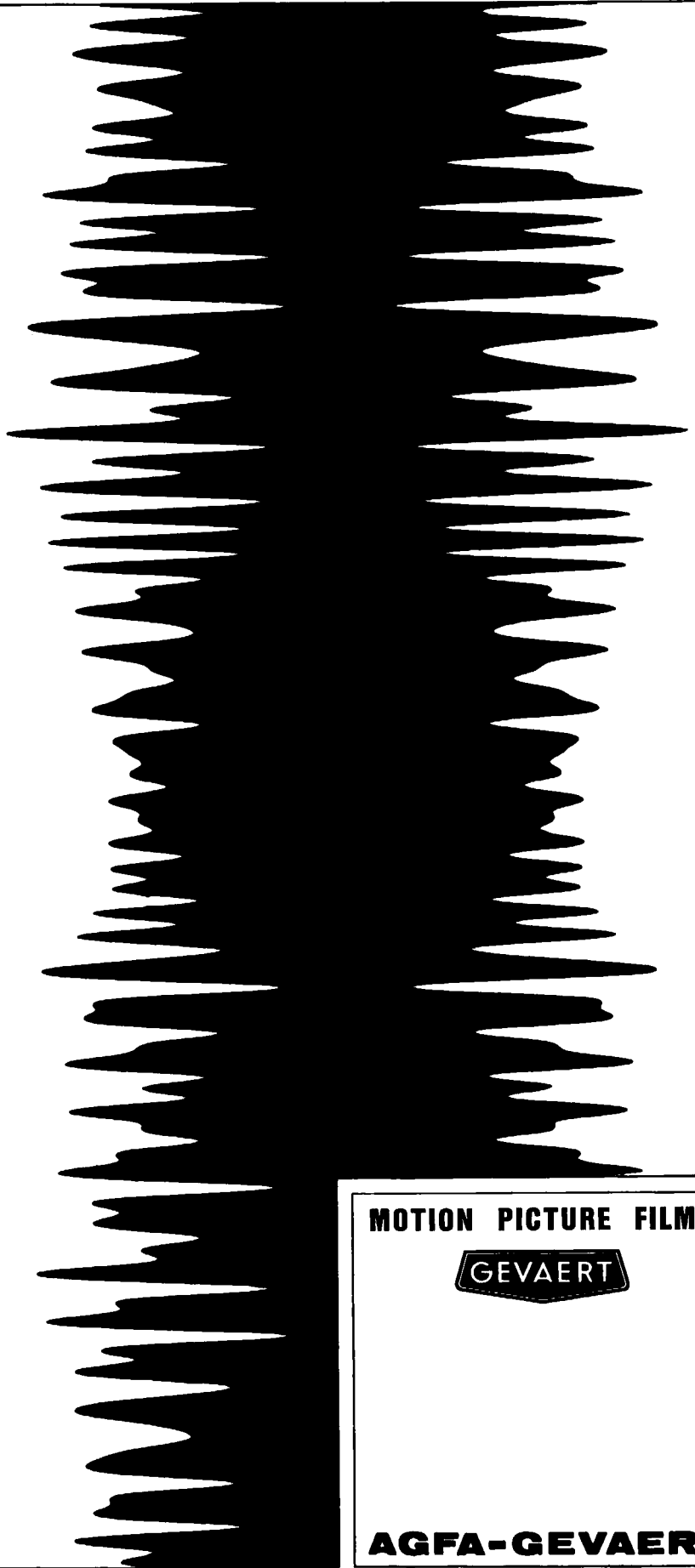
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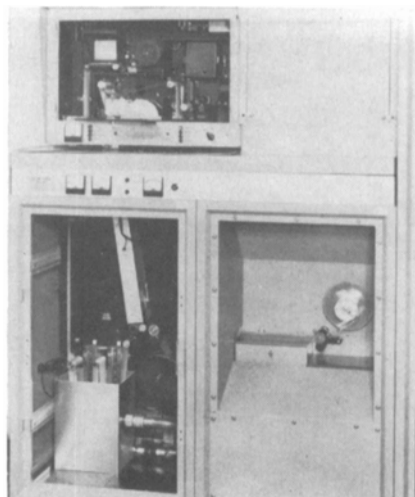
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discharges, plasmas, and many types of shock and vibrations. A rotating mirror camera, Model 300 is available with either pneumatic or electric drive. With the pneumatic drive the 9-sided mirror rotates at speeds from 800 to 10,400 r/s, obtaining framing rates from 346,000 to 4.5 million pictures/s. With electric drive, the mirror rotates at from 350 to 3,500 r/s, obtaining framing rates from 150,000 to 1.5 million pictures/s. The camera records on either Polaroid or standard cut film. At maximum recording speed, exposure time for each frame is 45 ns. One of the main features of the camera is its ability to stay continuously "alert," ready to photograph the event whenever it happens.

A framing camera that records a sequence of seven pictures at rates from 30,000 to 1 million pictures/s has been introduced by Beckman & Whitley, Inc., 441 Whisman Rd., Mountainview, Calif. 94040. Called Model 201, the camera is designed to photorecord ultra-fast events, such as arc discharges, detonations, plasmas, shocks, dynamic stress, nucleation, cavitation, mechanical motion, ballistics and exploding wires. When recording at 1 million frames/s, the exposure time for each frame is 0.426 μ s. Precise measurement of photographed data is said to be possible since all exposure times in the sequence are known and identical. The system, including camera, framing module, objective lens and controls, is priced at \$11,950.



A fluidless processor built for the Goddard Space Flight Center by Photomechanisms, Inc., 15 Stepar Place, Huntington Station, N.Y. 11746, is part of the ground station equipment for NASA's Nimbus weather satellite. Called the Model 1380, the processor uses Kodak Bimat to give a fully developed and fixed hard copy in about 3 min from a TV-type display of telemetered data photographed by a monitor camera. The Model 1380 is said to be one of the first uses of the Bimat process in a continuous on-line application. Bimat diffusion transfer developing of the exposed film takes place within the machine. Exposed film is continuously laminated with

Bimat and the two materials are held in contact for the developing time of 90 s at a temperature of 120 F during passage through a 30-in. long, straight-path oven. After delamination, the Bimat film, which becomes a positive, is protected by a cover sheet, moved across a light table for immediate viewing and spooled. The negative is washed, dried, presented for viewing, and then spooled for archival storage or subsequent printing.

Kodak Bimat, a rapid film processing system for aerial reconnaissance photography, has been developed by Eastman Kodak Co., 343 State St., Rochester, N.Y. 14650, for the Air Force Avionics Laboratory at Wright Patterson AFB, Ohio. The portable experimental processor is 6 ft long and 1 ft square to achieve flexibility and mobility. In the Bimat process, a film-like material is brought into contact or laminated with an exposed negative material. When peeled apart after a brief interval, both the positive print and negative are available. A special processing film is used which consists of a polyester film base carrying a gelatin layer containing physical development nuclei. Before the film is used it is soaked with an imbibant containing chemicals which develop and fix the negative and transfer the positive image to the Bimat film. No further processing steps are required. The Air Force program uses a commercial "peel off" technique which makes the positive available in 30 s. Current efforts are being made to adapt the

Reviewed by the SMPTE Advisory Committee on Special Effects in Motion Pictures: Herbert Meyer, Chairman, Russell Brown, Thomas G. Fisher, Jack Froehlich, Max Hankins, Ub Iwerks, Ivan Martin, Bob Matthey, Frederic L. Ponedel, John Roche, J. Edward Stenbridge, Edward Stones, Virgil Summers.

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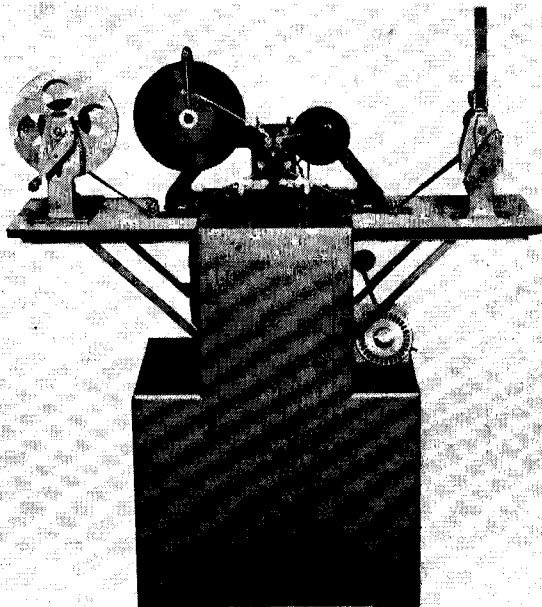
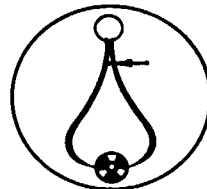
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technique to higher sensitivity films and to decrease the processing time to substantially less than the present 30 s.

Mitchell BNC Cameras converted to reflex by means of a mirrored shutter are available from General Camera Corp., 321 W. 44 St., New York, N.Y. 10036, and from the firm's Florida branch at 2945 N.E. 2nd. Ave., Miami, according to a recent announcement. The new cameras use the full range of Super Baltar lenses in the original MK II R-35 mounts. In addition, all zoom lenses with MK II R-35 mounts can be used. The mirror shutter is said to allow true reflex viewing without loss of resolution or light to the filmed image.

A **split-image viewfinder** that attaches to any Arriflex 16mm camera has been introduced by Behrend's Inc., 161 E. Grand Ave., Chicago, Ill. 60611. A split-image bulls-eye is set in the center of a special "pebble" ground glass. When the scene is in focus only the circle and hairline TV guide are visible. Out of focus the center area splits and the "pebble" texture appears. The device closes to indicate added depth of field and opens when the depth of field is short. The viewfinder is priced at \$100, including installation and alignment.

A **magnetic tape recorder** for airborne installation has been announced by Kineloc Corp., 29 South Pasadena Ave., Pasadena, Calif. The recorder, called

Model H, employs peripheral drive of the tape reels to achieve improved reliability by reduction in the number of tape transport components. The design makes it possible to eliminate motors, clutches and other components and thus reduce size and weight. The machine contains less than 635 in.³ and stores up to 2,250 ft of 1.1-mil tape for recording analog data from dc to 120 kHz or digital data up to 120 kbps. The recorder utilizes the Kineloc Iso-Elastic Drive system, a peripheral drive system utilizing a polyester belt which rides directly in contact with the tape as it is wound onto flangeless reels. The flangeless reels permit a significant reduction in the length of the tape transport.

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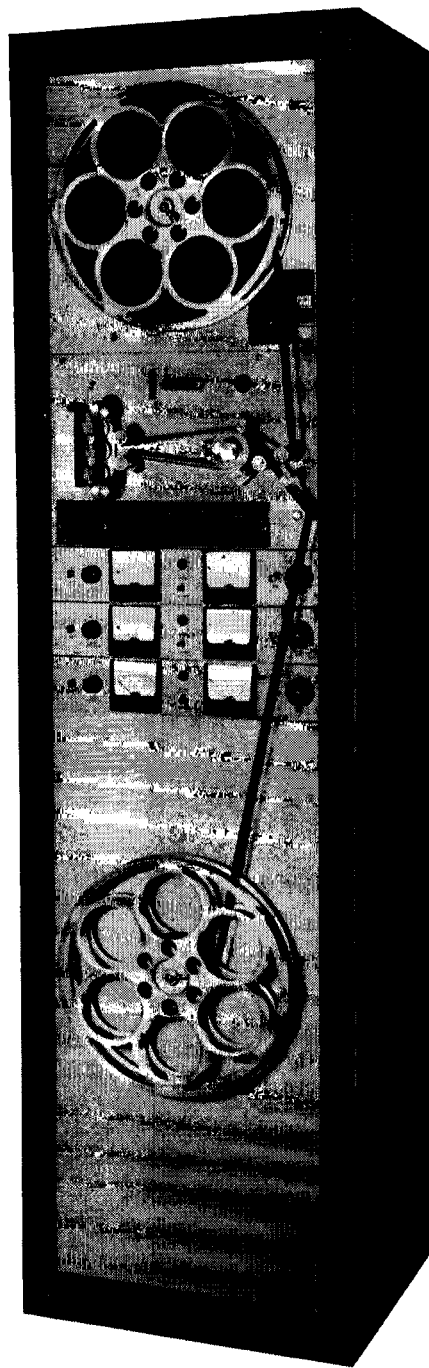
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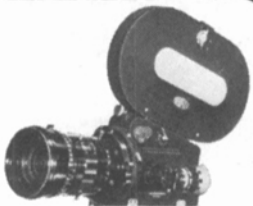
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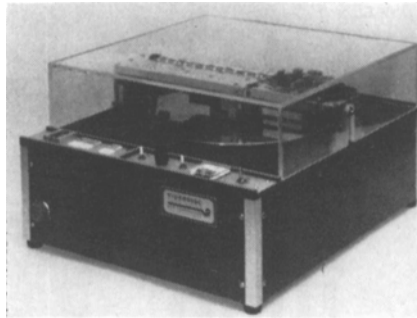
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The Videodisc, a portable magnetic disc recorder manufactured by MVR Corp., 470 San Antonio Rd., Palo Alto, Calif., has been adapted for a wide variety of non-broadcast applications, it was recently announced. The recorder incorporates a spinning magnetic disc on which real-time video or other wideband signal input is recorded in a continuous spiral, and sequential stop-action pictures or 33-ms wideband signals are recorded as discrete closed loops. The unit is designed for push-button operation by nontechnical personnel.

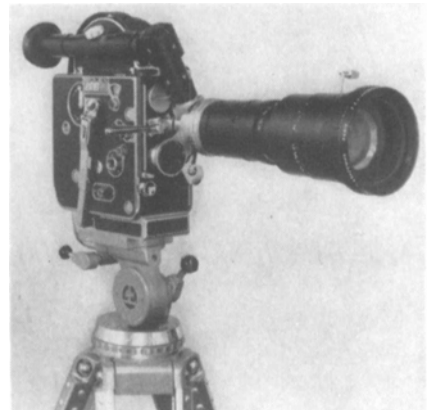
In its broadcast configuration, the recorder stores up to 20 s of real-time signals from a live TV camera or other video source on the top surface of a 12-in. aluminum disc coated with a nickel cobalt recording medium. The recording can be immediately played back as a continuous real-time sequence, as a series of stop-action pictures, or in any combination of action and stop-action. The recorder is used in closed-circuit systems to monitor manufacturing processes, vehicular traffic flow, surgical operations and the like.

In one of the newly-developed non-broadcast configurations, the device is used as a sequential wideband recorder, utilizing one or both sides of a 14-in. disc to store up to 1,600 stop-action pictures or other 33-ms wideband signals, each separately recorded either automatically at a predetermined time interval or by manual control at irregular intervals.



The 3M Brand Professional Recorder (*Jour.*, p. 608, July 1964) has been redesigned to make it more flexible and compatible with existing systems, according

to an announcement from 3M Company, Revere-Mincom Div., 2501 Hudson Rd., St. Paul, Minn. 55119. All electronic components have been redesigned to incorporate quick-change, plug-in modules. The SNR is reported to have been improved to better than 80 dB. The recorder's patented Isoloop transport system has been designed to reduce flutter to as low as 0.04% rms. 3M Dynatrack or standard NAB electronics or both are available in various portable, rack-mounted or console models of the recorder. The unit can accommodate tape widths from 1/2 in. to 1 in., depending on the model. A vernier editing feature has been incorporated to eliminate marking the tape with felt pens or other instruments. Other features include solid-state circuitry, a range of recording speeds from 3 1/2 in./s to 120 in./s, and a tape handling system designed to eliminate tape spillage, stretching or breakage. The recorder is available as an unmounted transport, a portable unit with electronics or as a studio console. Prices begin at \$2,750 for the tape transport.

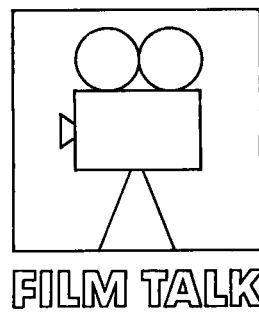


An Angenieux zoom lens specifically designed for 16mm Bolex cameras has been introduced by Paillard Inc., 1900 Lower Rd., Linden, N.J. 07036. The new lens is designed for extreme wide-angle capability (covering a field of view of 68°) and a zoom ratio of 10:1. Features of the 9.5-95mm, f/2.2 lens include close focusing distance (29 ft from subject to film plane) and substantial depth of field even at full aperture. The lens is available in two versions. Without the viewfinder, for H-16 Rex cameras, the lens is priced at \$1,165. With the viewfinder for H-16 S or H-16 M cameras, it is priced at about \$1,375. Both versions are equipped with a standard zoom crank.

A new remote-control assembly for use with the Mark VI-AR Special Effects Generator (*Jour.*, p. 645, July 1965) has been developed by Ball Brothers Research Corp., Boulder Industrial Park, Boulder, Colo. The new remote control features lighted pushbutton selection of wipe, key and matting operation and a fader-type control for positioning the split screen presentations for the three wipe patterns. Tally light contacts are provided to indicate which video sources are being used and lights on the control panel warn the operator when more than one video is being used in the effects generator. The remote-control unit has a 6-ft control

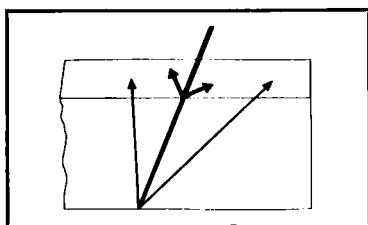
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How Eastman encourages you with improved, anti-halation TRI-X Reversal Film.



It's our feeling that halos should be worn only by those who earn them. Street lights and headlights don't seem particularly deserving of halos. Neither do illuminated scoreboards or store fronts. But glaring halos, hot-spots, background ghosts and angling streaks have shared the spotlight with cinematographers ever since night and existing-light shooting became possible. Now Eastman scientists have gone and done something about this problem that has plagued news, sports and documentary photographers.

Improved KODAK TRI-X Reversal Film, Type 7278, is the answer to halation and flare. It replaces the previous 16mm TRI-X Reversal Film that, with the best of films, had no defense against certain kinds of bright, unshielded light sources. In a night football game, for instance, your footage might typically have been degraded by brilliant lights ringing the field. Here's a cross-section diagram showing where such flare comes from.

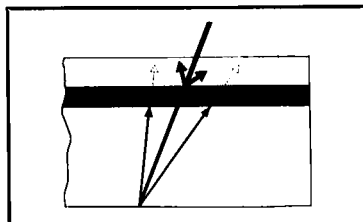


Conventional reversal films

A strong beam of light coming from the subject area goes through the lens and the emulsion. Some light is reflected from the surface between the emulsion and the film base and scatters to spread the image. Much of this light, however, goes right on through the base and is reflected from the back of the film base, bouncing back to the emulsion again, spreading the halo still further.

Most reversal black-and-white films have a dye in the film base to absorb this unwanted light. There's enough to prevent serious halation in normal brightness ranges, but not enough to avoid halation around light source images, or around bright highlights on shiny surfaces.

New TRI-X Reversal Film is now engineered to yield sharp images with extremely low halation even under the most harsh lighting situations. What we've done is diagrammed here.



Improved TRI-X Reversal Film

A special black dye layer between emulsion and base absorbs a large part of the light that gets through the emulsion. The same kind of gray base as before still takes care of most of the unwanted light going through the base and reflecting from the back. The new black layer is there to absorb the little that may still make its way back toward the emulsion. Prestol Bright lights no longer steal the show! If you're concerned with processing, you'll be glad to know that this new black layer disappears completely with processing—no special treatment required. One advantage of the improved TRI-X Reversal Film is that it requires no changes in present processing methods or equipment. You may be especially pleased with how beautifully the film holds up at 95° processing, which brings the processing time, dry to dry, down from eleven minutes to about four.

Here's another advantage. When we eliminate these obvious halos around bright light sources, we're also eliminating the more subtle halation around light areas in the normal brightness range. The result is improved acutance, or image sharpness.

TRI-X Reversal is a universal film. That is, it can be processed as a negative film in the conventional way, and as a negative film, it retains the anti-halation advantages. However, as a negative it has less speed than when it is used as a reversal film: E.I. 125 instead of 200 for Daylight, 100 instead of 160 for Tungsten.

Allow us to coin an old saying: Build a better light trap (i.e. film) and cinematographers will beat a pathway to your door. It has certainly been borne out with your response to new KODAK TRI-X Reversal Film. Demand for the product (pre-stripped and non-stripped alike) proves that the film solves a major problem for you, and we're pleased you're catching on to it so fast.



Shot on previous TRI-X Reversal Film



Shot on improved TRI-X Reversal Film

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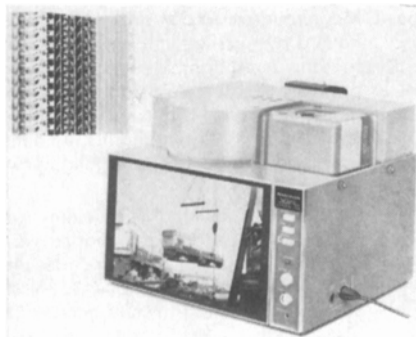
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cable attached and a 50-ft control cable extension for flexibility. The control voltages are all dc and video is used only in the Mark VI-AR chassis. The unit is priced at less than \$2,000.

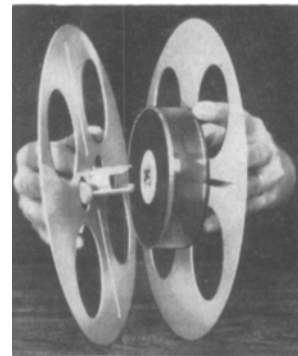
An automatic degausser designed to erase either $\frac{1}{4}$ -in. tapes or Cue-Mat magnetic mats has been announced by Ampex Corp., 401 Broadway, Redwood City, Calif. The degausser, called Model AE-100, is said to erase mats and $\frac{1}{4}$ -in. tape of all reel sizes from 5 in. to 12 in. After being erased, tapes and mats can be used again with no loss of quality, the announcement stated. The device is said to erase a full 12 in. reel of tape or up to 100 Cue-Mat mats in 50 s and to shut off automatically after completing the degaussing cycle. The unit weighs 27 lb, is 7 in. high, 15 in. wide and $11\frac{3}{4}$ in. deep. It is priced at \$185.



The Panacolor Magazine Motion Picture Projector, which utilizes a compact ($6\frac{1}{2} \times 6\frac{1}{2} \times 6\frac{1}{2}$ in.) magazine holding up to 120 min of film in black-and-white or color with optical sound, has been introduced by Panacolor Inc., 100 E. 42 St., New York, N.Y. 10017. The magazine holds 70mm film upon which 12 rows of motion pictures and 12 rows of optical sound are printed. This unusual method of storing, printing and projecting is economical in terms of cost and space, the announcement stated. The projector, designated Model XP120, displays the film upon an internal viewing screen of 95 in.², or, by flipping a lever, the film can be shown by the same machine on any external screen for larger audiences. The magazines can be used for single concept films, or for longer running subjects of up to two hours. The drop-in, self-threading magazine is designed to be dustproof and to reduce damage to film caused by use or neglect. Other features of the XP120 include a new quartz-iodine bulb said to provide full-intensity light throughout its life. The machine is portable, utilizes 110-V ac and operates at 24 frames/s. It incorporates a high-fidelity optical sound system and a solid state 4-W amplifier, loudspeaker and personal phone jack.

The Technicolor Deluxe 810, a cartridge-loading portable projector designed for super 8 film, has been announced by Commercial and Educational Div., Technicolor Corp., Box 517, Costa Mesa, Calif. 92627. The cartridge accommodates 56 ft of super 8 film for a running time of about 4 min. Features include a stop-frame control that automatically positions a heat filter to protect the film no matter how long the

motion is stopped. The stop-frame button can be slipped into a locked position when lengthy display is required. The projector uses a low-voltage diacoloric lamp. The lamp voltage delivers 21.5 V in the "high" position and 18 V where a lower level of illumination will suffice. The lamp filament design is said to deliver about 40% greater illumination than previous 8mm projectors. The projector is $9\frac{1}{4}$ in. wide, 8 in. deep and $5\frac{1}{2}$ in. high and weighs 11 lb. It is priced at \$137.50.



Mastereel flanges and split reels in 16mm and 35mm sizes are available from Mastereel Industries, Inc., 25 Home St., White Plains, N.Y. 10606, according to a recent announcement. The flanges and split reels are part of the film handling system described by Robert Gross in "A New Film-Handling System," *Jour.*, Sept. 1965, pp. 788-789. Scales in minutes and feet on each flange show the length and running time of the film. At present these are available in up to 35 min in the 16mm size and up to 15 min in the 35 mm size. Two of the flanges can be pressed together to make a split reel. The flanges and reels have heat-tempered aluminum discs 0.090 in. thick, are $11\frac{3}{4}$ in. in diameter and are anodized in silver for 35mm and gold for 16mm for easy identification. The system is designed to handle film "any way it comes" the announcement stated, and to provide savings in labor, time, weight and space.

Ultrabright, an optical/cooling system designed for SL series Selectroslide projectors and speed dissolve systems, is a product of Spindler & Sauppe Inc., 1329 Grand Central Ave., Glendale, Calif. 91201. Said to be capable of projecting 3,000 lm onto a screen, the system employs a 1,200-W incandescent projector lamp operating at 120 V. The light output is achieved with a "superslide" (38×38 mm) format using a 5-in. $f/2.5$ projection lens. Designated Model 766, the system consists of a specially designed optical unit and a blower said to be capable of keeping even glass-mounted slides cool. The system, installed in SL or SLR projectors is priced at \$295. In the SLD, SLT, SLS, and SLX projectors the price is \$260. The SL and SLR modifications include an electrically operated shutter.

The Supersound film strip, a device for adding a laminated stripe to 8mm film, has been announced by Superior Bulk Film Co., 442 N. Wells St., Chicago, Ill. 60610. The device is manufactured in Great Britain. Laminated striping is used to

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eliminate ragged edges and oxide in the sprocket holes. The 3½-lb splicer is priced at \$59, including a 400-ft spool of 30-mil superstripe, film cleaner (1 oz), and 1-oz special adhesive and 5-ft white leader. The price also includes a carrying case.

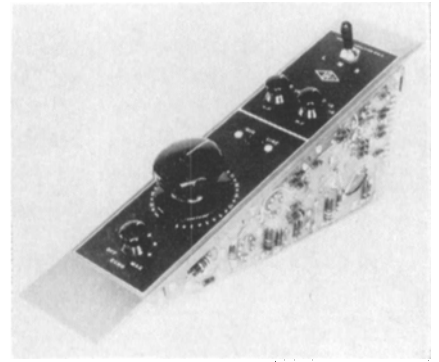
A noise reduction system for professional sound recording applications has been announced by Dolby Laboratories, 590 Wandsworth Rd., London, S.W. 8, England. The system, called the S/N Stretcher, is designed for use in any situation in which the signal is available for processing at both the input and output of the audio chain. The signal emerges in unaltered form while the noise reduction action attenuates the usual types of noises. The most noticeable feature of the system is said to be its ability to reduce hiss but it also reduces print-through and, to a lesser degree, effects a reduction in high-frequency modulation noise and scrape flutter, the announcement stated. In operation the incoming signal is fed into the recording processor prior to being subjected to the main noise-contributing element of the chain. The modified signal from the recording processor is fed into the recorder and played back normally. The playback signal is treated in a complementary way by the playback processor to produce an output signal having substantially less than the usual tape recording noise. The system is priced at £700.

A new series of sound-attenuating doors with a 300 in.² maximum of glass area has been announced by Overly Manufacturing Co., Door & Frame Div., 574 Otterman St., Greensburg, Pa. 15602. The new door design is 1½ in. thick and has automatic door bottoms and standard hardware. Glazing is laminated acoustical glass.

The Laminar Downflow Blower-Filter Module, Model 28, designed to surround existing work stations with clean air, has been announced by Agnew-Higgins, Inc., 7532 Anthony Ave., Garden Grove, Calif. 92641. The filter cabinet is 8 ft. 4 in. long, 25 in. deep and 24 in. high. The motor blower section is mounted on top of the filter cabinet and the lower face of the cabinet contains high-efficiency filters. When the unit is hung from the ceiling, clean air is projected downward. When benches are in center aisles the flow of air divides to flow into the aisle on opposite sides to provide clean air on both sides of the work bench. If the unit is mounted against a side wall, the flow of air makes a right angle turn at the bench top and flows outward into the aisle area to pick up particles shed by the workers and wash the particles backwards out of the working area.

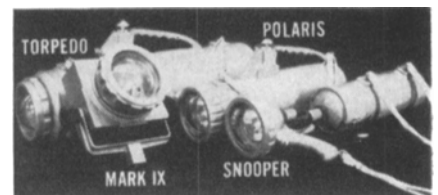
The Universal Audio T-1108, an audio amplifier which incorporates a field-effect transistor to achieve a low noise figure (equivalent to an input of -124 DEM), has been announced by Universal Audio Products, 11922 Valerio St., North Hollywood, Calif. 91605. Designed primarily as a microphone preamplifier, it can also be used as a booster or line amplifier. The all-solid-state design of the amplifier results in low power drain, compact circuitry and reliability. Other transistors in the amplifier

are of the silicon-planar type, allowing the amplifier to operate at temperatures up to 195 F. The T-1108 is 1½ in. wide, 3 in. high and 9½ in. deep. It is priced at \$128.50.



The Universal Audio 610 amplifier module, announced by Universal Audio Div., Studio Electronics Corp., 11922 Valerio St., North Hollywood, Calif., has a triangular shape to allow it to be installed on the sloped front of audio mixing consoles, or vertically in a rack. The module contains controls for high and low level input channels. An input selector switch allows the operator to connect the input circuit to either a microphone or a line-level bridging circuit. An echo-send output, which is isolated from the program output and has its own front-panel gain control, is simultaneously switched to one of three echo channels. The amplifier gain control is of the interstage type. Maximum microphone-input gain is reported at 63 dB; maximum high-level-input gain at 25 dB. Equalizer switches on the front panel enable the operator to select -6 dB or +6 dB equalization at 70 Hz, or -6 dB, +3 dB or +6dB equalization at 7 kHz. It is priced at \$215.

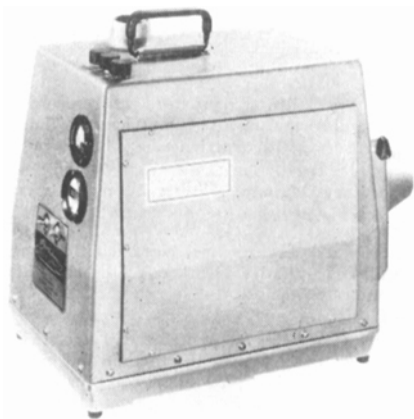
The Universal Audio Digital Metronome, an instrument designed to provide 320 different tempo beats for use in producing live music scores for motion pictures, has been announced by Universal Audio Products, 11922 Valerio St., North Hollywood, Calif. The tempo beats correspond to various multiplies of motion-picture frames, based on the standard speed of 24 frames/s. Computer-type integrated circuits and discrete component circuits are employed for accuracy, reliability and long life. Three thumbwheel switches are used to select the tempo which may be set from 1 frame per beat to 40 frames per beat in ¼ frame steps. A control switch is provided to adjust output volume. Earphones may be driven directly, or through an external amplifier. The output produces sharp, uniform audio "clicks" without distracting background noise. The instrument is priced at \$749.



New quartz-iodine lights for underwater photography have been announced by Birns & Sawyer Cine Equipment Co., 6424

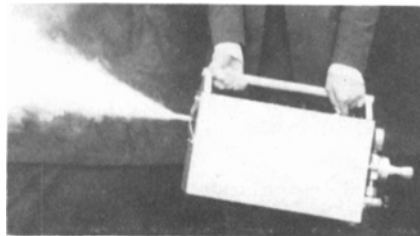
Santa Monica Blvd., Los Angeles, Calif. 90038. The Mark IX is a rugged all-purpose work and photographic light designed for use at depths down to 9,000 ft. The lamp also has a built-in safety factor of 50%. The Model XI has been designed for an operational depth of 11,000 ft with a limit of 16,500 ft. Both the Mark IX and the Mark XI can operate on either 115-V or 230-V ac/dc. In addition to the mains-operated equipment, the firm also announced three new portable underwater lights called Snooper, Torpedo and Polaris. Snooper is a handheld 30-V light with a separate battery case which straps to the diver's air tanks. The self-contained Polaris may be shoulder-slung or handheld. Both lights use nickel cadmium batteries with a 22-min capacity at an output of 34 K and have a rating of 250 W. The Torpedo is a heavy-duty unit with a 45-min photo capacity from oversize batteries delivering 28,000 candle power at 3400 K. It can be shoulder-slung or handheld.

A new model in the ColorTran Soft-Lite series, designed to produce virtually shadowless illumination for fill, key and general lighting has been announced by Berkey Technical Corp., 1015 Chestnut St., Burbank, Calif. Called the Model LQBS-20, the light is intended to replace the large conventional cone light used to provide soft overall fill and base lighting in motion-picture photography. A new reflector design directs the rays from the lamp so that light from every part of the reflector is of the same intensity. The unit consists of two quartz-iodine lamps operating at 120-V or 230-V, ac or dc. Two 1,000-W ColorTran B5-32 quartz-iodine lamps are used to provide 390 fc at 5 ft with an angle coverage 63° wide and 61° high. The light is 48 in. long, 15 in. high and 8 in. deep and weighs 44 lb. It is priced at \$189.



The Mighty Mite, a new xenon arc projection lamp for use with 16mm projectors, has been announced by Strong Electric Corp., 456 City Park Ave., Toledo, Ohio 43601. The lamp can be used with all 16mm projectors presently using carbon arcs and with some equipped with incandescent light source. It is easy to mount and is said to maintain steady color uniformity and high light intensity. The bulb is a quartz envelope containing two tungsten electrodes in a pressurized xenon gas atmosphere. It produces daylight

white light and has a life expectancy of over 2,000 hr. Available in three wattages, 450, 900 or 1,600, the Mighty Mite system includes lamphouse, silicon transformer-rectifier power supply and bulb. With the 1,600-W bulb and 3-phase rectifier, the price is \$2,400. With a single-phase rectifier, the price is \$2,100.



The Nebulizer, a portable machine that sprays up to 915,000 in.³ of fine mist or simulated smoke per minute is manufactured by G. L. Loos and Co.'s Fabrieken N.V. of Amsterdam, The Netherlands. Announcement was made by The Netherlands Consulate General, Commercial Division, 10 Rockefeller Plaza, New York, N.Y. 10020. Operating on the principle of atomization of paraffin oil, the machine incorporates a small carbonic acid cylinder (1,400 cm³ capacity), a 230 cm³ steel pressure vessel, a small electric oven, a pneumatic switch and a reducer. The pressure vessel holds the paraffin oil. It is connected to the acid cylinder by a pneumatic press switch which controls the nebulization. As the carbonic acid is

released it goes into the pressure vessel through a line secured to the switch. After the paraffin oil has been atomized, it is passed through the electric oven and is finally expelled in the form of a diffuse spray through a nozzle attached to the outside of the machine. The oven operates on 220 V. After a temperature of about 280 C is reached the cord can be pulled from the socket and the nebulizer is effective for a considerable time. The device weighs 30.9 lb. The price is f.o.b. Amsterdam \$280.



The AG Stabilizer, a processing machine announced by Oscar Fisher Co., is based on a new process by which only the emulsion is wet and the paper or film is dry when emerging from the machine. Paper or film can be processed within four seconds, the announcement stated. The unit is constructed of stainless steel and is positive-gear-driven to eliminate streaks and chatter. The system is self-draining and the replenishment system is automatic. The machine is available in three models,



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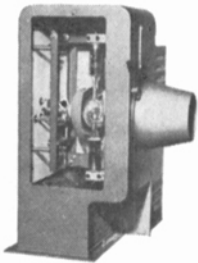
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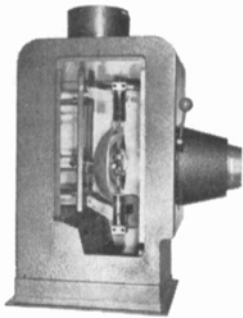
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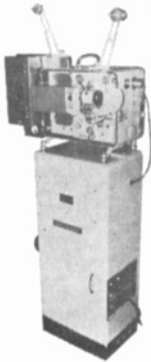
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all 7 in. wide and 5 in. high, but varying in length from 19 in. to 53 in. to accommodate 11-in., 20-in. or 42-in.-wide material. The machine is adaptable to a number of uses including seismograph and oscilloscope prints, phototypesetting, positives for silk screen and deep etch engravings, continuous tone film transparencies and film intermediates for engineering reproduction, according to the announcement. Applicability to motion-picture use is mainly for rapid delivery of 8- X 10-in. prints (or larger) to exhibitors, it was indicated. The three models are priced at \$350; \$676; and \$1,250, according to size.

An all-in-one maintenance-aid cabinet containing audio-visual supplies has been announced by FilMagic/The Distributor's Group, Inc., 204 14th St., N.W., Atlanta, Ga. 30318. The cabinet contains 22 often-needed items such as a bulk tape eraser and head demagnetizer, a 7-piece tool kit, a 12-piece connector adapter kit, 125 perforated Mylar filmstrip splices, a filmstrip splicing block, a tape splicer and other useful items. The cabinet is priced at \$137.45.

A new range of packaged transistorized oscillators has been announced by Marconi

Company Ltd., Chelmsford, Essex, England. The oscillators are housed in a single plug-in unit. The units can be provided for any frequency in a range of 1 kHz/s to 100 MHz/s. For frequencies above 115 kHz/s they are mounted on a B7G base. This more compact unit (Type F3171) has the added feature that it can be placed in a standard Marconi F3006 Crystal Oven to provide increased temperature stability. The larger Octal based unit (Type F3170) which covers the range 1 to 115 kHz/s is contained in a single anodized aluminum tubular case 1.125 in. in diameter. The oscillators require only a 6-V low-current power supply, the announcement stated.

A new 16-A silicon amplifier, Model SR-36-16, has been announced by Wilkinson Electronics, Inc., 1937 MacDade Blvd., Woodlyn, Pa. 19094. The new unit complements the firm's line of direct replacement silicon rectifier stacks and replaces tube type 857B. Specifications include PRV repetitive 36 kV; PRV transient 42 kV; rms current 16 A; surge current 160 A; forward voltage drop 25 V; and ambient temperature range of -65 C to +70 C. It is priced at \$475.



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Field Sales-Service Representative. To handle accounts for expanding color m-p and still film lab. Expd. man only. Write or phone Norman Lars Bebell, Bebell & Bebell Color Labs., Inc., 108 W. 24 St., N.Y. 10011, (212) 924-8573.

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