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instruction going on in the United States and the rest of the world. The need for a more complete definition of photographic science and engineering and how it is interrelated with the four major engineering disciplines was stressed. He appealed for a joint effort of educators and photographic societies to help define the program, increase its appeal to students, and develop it to a point where it would have a professional accreditation.

Max Beard moderated an interesting discussion in which many diverse ideas and interests were discussed by the panelists and from the floor.

A premeeting dinner for the speakers was held at the Treadway Inn.—Robert O. Gale, *Secretary Treasurer*, Eastman Kodak Co., 343 State St., Rochester, N.Y.

SAN FRANCISCO, Jan. 17—Thirty-four persons attended the **San Francisco Section** meeting held at the Eastman Building. Burton Smith, Cine-Chrome Laboratory, gave a report on the Association of Cinema Laboratories Ektachrome Survey. Comparative Ektachrome test strips were shown and evaluated.

John Waner, Eastman Kodak Co., Hollywood, then described the work being done by the SMPTE Joint Color Committee on considerations in color film production for color TV. A film sample was shown.

The audience was extremely interested in both subjects and there was considerable discussion with the speakers which continued after the meeting was adjourned.—John Corso, *Secretary-Treasurer*, Palmer Films Inc., 611 Howard St., San Francisco, Calif. 94104.

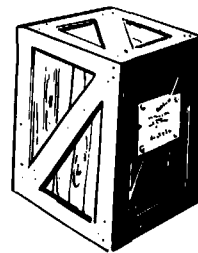
WASHINGTON, D.C., Jan. 17—Three Eastman Kodak scientists from Kodak's New York Office presented papers at the **Washington D.C. Section** meeting held at the National Academy of Sciences. Fifty persons attended this meeting.

Robert Woolman discussed the manufacturing techniques, general properties and the new quality standards of Eastman Kodak magnetic tape and film.

Edward Winkler described and showed film clips of the new Eastman Ektachrome R Print Film, Type 7388, designed to be handled in the ME-4 process. This film is intended for making prints from reversal color camera films with very nearly 1:1 reproduction of contrast. It is expected to be especially useful in making prints from Kodak Ektachrome EF Film, Type 7241 (daylight), Kodak Ektachrome EF Film, Type 7242 (tungsten), and Kodak Ektachrome MS Film, Type 7256.

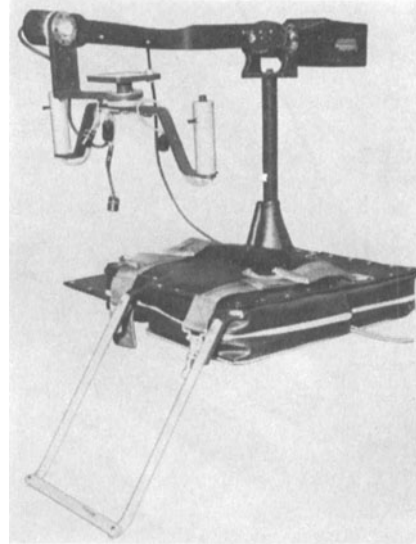
Donald Horton discussed the new Eastman Kodak High-Speed Black-and-White Reversal Film designated Kodak 4X Reversal Film, Type 7277. This film has excellent grain and sharpness characteristics and a normal exposure index of 400. It includes special provisions for antihalation protection. The process for this new film is the same as that from the Kodak Plus-X Reversal Film, Type 7276, and Kodak Tri-X Reversal Film, Type 7278.

There was a question-and-answer period following each paper. Refreshments were served compliments of the Eastman Kodak Co.—Wesley R. Sandel, *Program Chairman*, Kodak Processing Laboratories, Inc., 1350 Okie St., N.E., Washington, D.C.



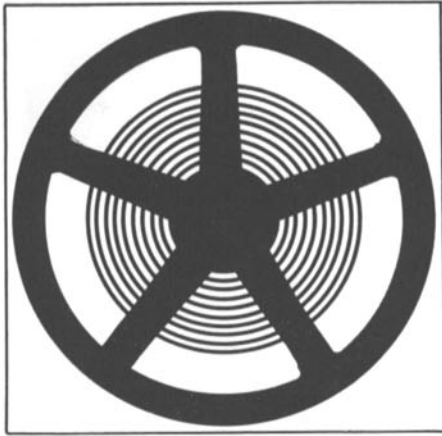
new products (and developments)

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



The Flyer is a helicopter mount for motion picture cameras developed by Gordon Enterprises, 5362 N. Cahuenga Blvd., North Hollywood, Calif. The mount is designed to accommodate larger cameras such as the Mitchell MK II and 70mm Panavision cameras. The unit incorporates a system of bearings, counterweights and dampening devices to eliminate the vertical vibration that is characteristic of helicopters, as well as lateral vibration and camera movement. Integral switches in each of the hand grips control the camera and the operator's communication system, allowing him to operate the camera and communicate with the pilot without removing his hands from the grips. The mount can be used with Bell "G" Hiller and similar helicopters.

A series of neutral density solid glass filters, Type ND-419, made of Schott Glass, designed for use with high energy lasers without bleaching or damaging effect when irradiated with 1 m/s pulses of 300 J/cm², has been announced by Fish-Schurman Corp., 70 Portman Rd., New Rochelle, N.Y. The filters can be supplied in densities of 0.1-1.0 in increments of 0.1, and also 2.0, 3.0 and 4.0 density adjusted to a mean wavelength at 694 mμ, but can be calibrated for other common laser wavelengths such as 1.06 μ. They are 2 in. square or round. Price for a set of 10 is \$150.

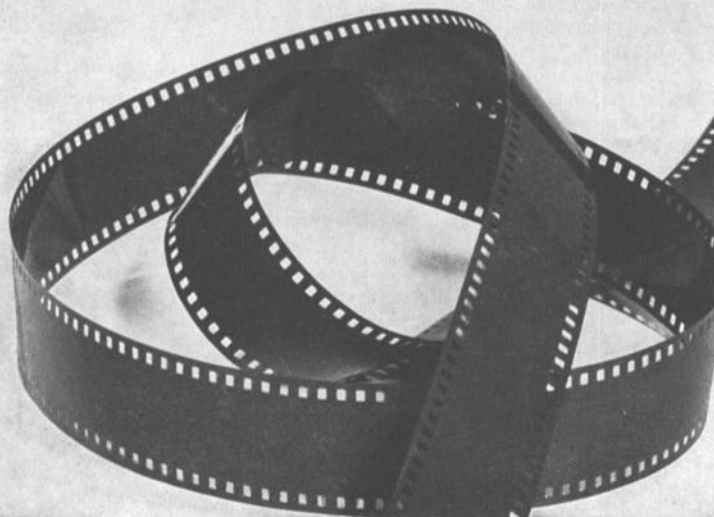


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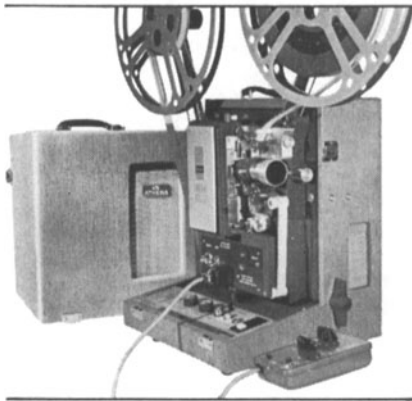
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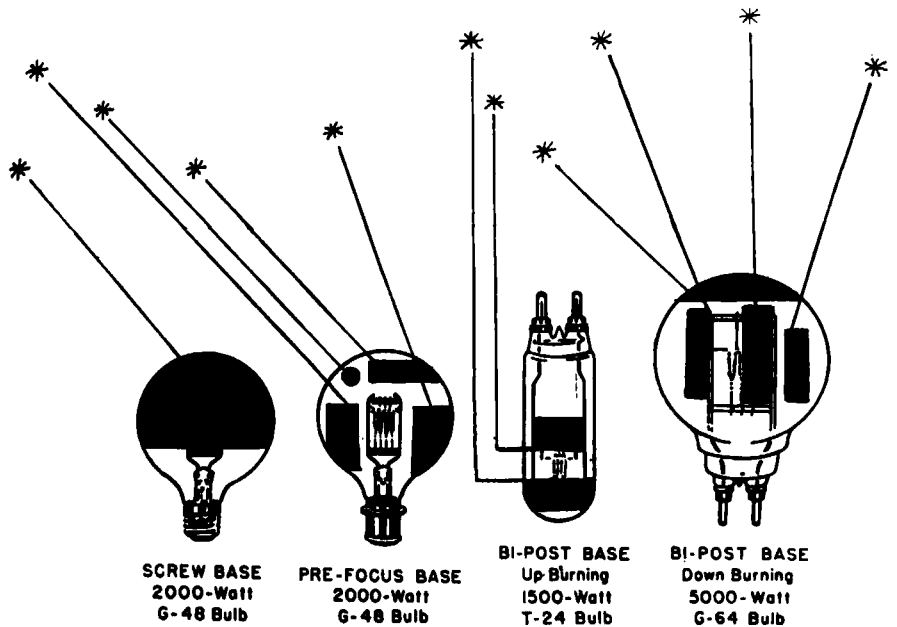
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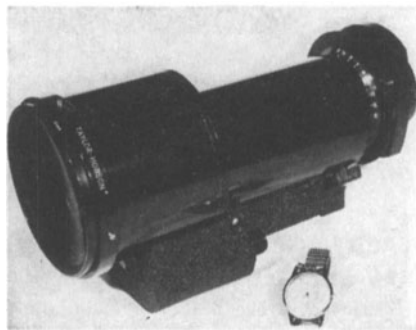
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* COLORAY-TINT

The Coloray Photographic Process, developed by Lee-muiron Rousseau, 580 Fifth Ave., New York, N.Y. 10021, uses colored light rays to change, modify or intensify colors of scenes, objects and faces. According to Mr. Rousseau, who has applied for a patent for this process, "... color of an entire face or body or sections thereof can be altered or modified, the color of make-up nullified or accented, ... colors in the

scene can be sharply delineated within their spectrum or replaced entirely. Scenics can be turned into night without the use of neutral density filters or a combination of filters." Coloray equipment can be directed to one object or another, heightening colors, which gradually change or become more vivid or less so at the discretion of the director.



The Varotal XX, a zoom lens for image-orthicon cameras, has been announced by Albion Optical Co., 260 North Route 303, P.O. Box 463, West Nyack, N.Y. 10994. The lens has a focal range of 40 to 400mm. To reduce size and weight of the lens, the maximum aperture is limited to $f/5.6$. Use of low absorption glasses and application of new antireflection coatings is said to result in a white light transmission of 81%. The lens is priced at \$4,400.

A new lightweight color TV camera expected to be commercially available by mid-1968 has been announced by Radio Corp. of America. Designed for on-the-spot coverage of news, sports and other events away from the studio, the camera, designated TK-44, weighs about 135 lb without the detachable viewfinder and lens. The camera has a separate luminance channel. It employs a 3-in. image orthicon for the luminance signal. The red, green and blue channels use electrostatic focus tubes of the vidicon type. The TK-44 features a simpli-

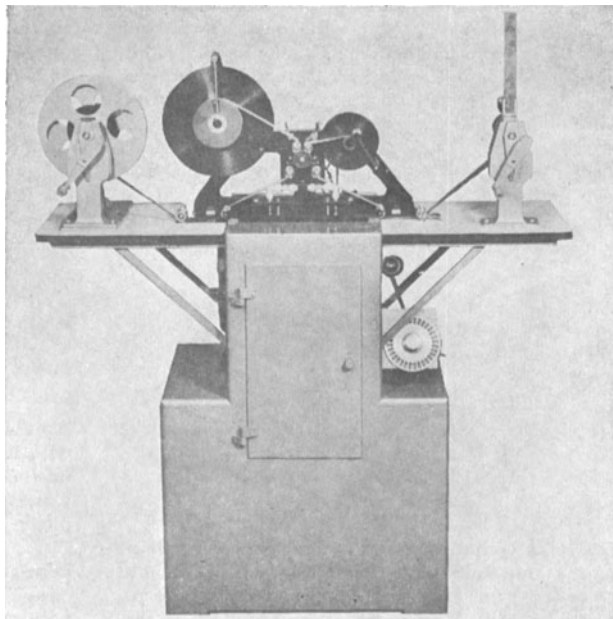
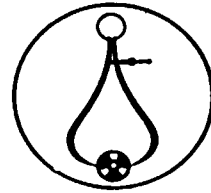
fied optical system with no field or relay lens in the luminance channel and can accommodate a variety of zoom lenses either manually or automatically controlled. It will be priced in the \$80,000 range.

The Colorizer, a device for telecasting spot color through existing black-and-white equipment, has been announced by Riker Video Industries, 100 Parkway Drive South, Hauppauge, N.Y. 11787. The unit, described as about the size of a carton of cigarettes, is not intended for broadcasting color programs, but for use with color commercials and other spot inserts. It is priced at about \$1,500.

The Spectra Optoliner, a high-resolution electronic tester for all types of television cameras, including closed-circuit and other special applications, is a product of Photo Research, 837 N. Cahuenga Blvd., Hollywood, Calif. 90038. The device, which weighs about $4\frac{1}{2}$ lb and is less than 14 in. long, threads directly into the lens mount of the camera. Standard test pattern slides are inserted into the Optoliner and are illuminated by a built-in lighting system. An external meter monitors the foot-candles and color temperature of the illumination at the test pattern image plane.

The Samcine Depth of Field Calculator and Film Conversion Chart is a product of Samuelson Film Service, Ltd., London, England. Exclusive distributor in the United States and Canada is ColorTran Industries, Inc. (a Berkey Photo company),

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1. The exposure of the negative being tested is always precisely controlled. This is accomplished by use of the Xenon flashtube whose light output is directly proportional to the electrical energy supplied to it.
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6. Each frame of the exposure gate is provided with guides so that proper filter combinations can be inserted without difficulty.
7. The basic color pack which has to be adjusted for emulsion changes, is easily accessible through an opening at the front of the machine.
8. To meet conditions of developer modifications and emulsion changes, the overall light output is adjusted by a 30 point switch. This switch controls the energy supplied to the lamp by changing the amount of capacitance across the lamp, this direct control of energy input to the lamp, by discrete amounts of capacitance, with the voltage held constant, provides excellent, simple, control procedure.
9. The power supply has been conservatively designed so that when the unit is connected to a regulated A.C. supply, the light output at a given capacitance setting is accurately reproduced.
10. A characteristic of the Xenon flashtube is that the color quality of the light is not changed during the life of the tube.
11. The basic Xenon flashtube with its electrical circuitry is inherently simple and dependable.
12. The power supply has been designed to allow rapid charging of the capacitor bank so that no time is lost between successive exposure of strips.
13. The negative film is guided over the flat exposure gates on rails which are spring loaded to float above the engraved glass in the exposure gate, thus eliminating possible negative scratches. Firm negative/positive contact at time of exposure is accomplished by the spring loaded platen.
14. In this tester there are no meters, no shutters, no optics, no motors and no moving parts between the light source and the negative positive plane.

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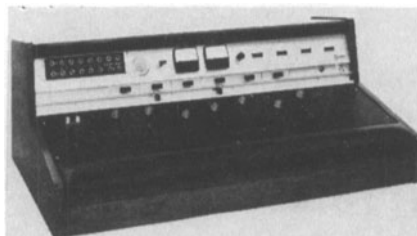
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1015 Chestnut St., Burbank, Calif. 91502. The calculator has straight-line scales that cover a full range of fixed focal length lenses most commonly used. The reverse side has a new type of display to make it possible to read the depth of field of a 10:1 to a 20:1 zoom lens set on any focal length at any distance and at any aperture. The conversion chart contains standard film conversions plus other types of information. The calculator and the conversion chart are available in 16mm and 35mm versions, scaled either in feet or meters. They are available together in a pocket size plastic case at a price of \$4.95.

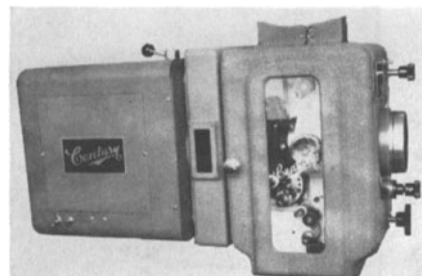


"focused gap field," which is a beamed RF bias. Because of modular design, the G-12 can be matched for any combination of up to 20 duplicating slave recorders and can be patched in or out of the common bus without system readjustment. Two, four or eight magnetic heads may be plugged in to handle various program formats. Several configurations are available from 2 to 8-track $\frac{1}{2}$ -in. and the new 0.150 in. tapes. The G12B master reproducer, 4-track, $\frac{1}{2}$ -in.-tape is priced at \$8,750. The 8-track, $\frac{1}{2}$ -in.-tape version is priced at \$9,100 and the 8-track, 1-in.-tape version is priced at \$9,300.



A 6-channel studio mixer console with an unusual table top design to permit portable use has been announced by Amega Corp., 11817 Wicks St., Sun Valley, Calif. Designated Model E-4, the console has slide wire attenuators for six channels, three microphones and three bridge inputs with master gain control. The firm's interchangeable modules are used for microphone channels, equalizer boosters, and for no-loss boost amplifier and in-line

output amplifier. Slide attenuators can be grouped according to the operator's preference. The console is 36 ft wide, 22 ft deep and 18 in. high. It weighs 38 lb. The slide wire type is priced at \$4,025. The console is also available with round knob attenuators (shown above) at a price of \$3,500.



A new arc lamp, developed in cooperation with Kneisley Electric Co. of Toledo, Ohio, has been announced by Century Projector Corp., a Div. of United Industrial Syndicate, Inc., 729 Seventh Ave., New York, N.Y. 10019. The lamphouse is fastened permanently to the projector mechanism to ensure alignment of the projector optics with the optics of the lamphouse, thus making it unnecessary to adjust the focus. The light operates at 500 W. with a current of about 28 A. According to the announcement, tests have shown a light output of about 18,000 lm. Since no mechanical support is needed beneath the lamp, there is no need for an arc lamp carriage. A

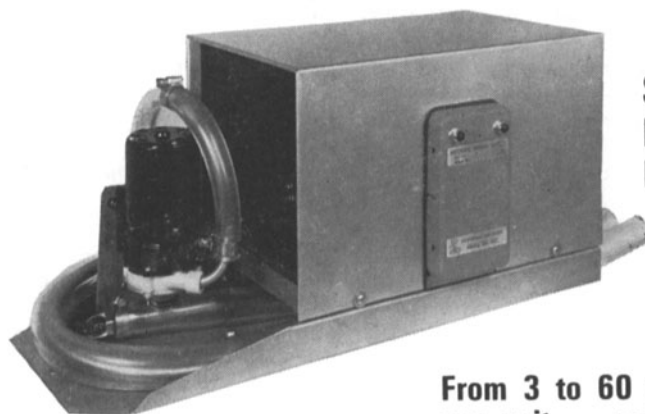
A new series of recorders designated the Ampex AG-440 series has been announced by Ampex Corp., 401 Broadway, Redwood City, Calif. 94063. Described as an advanced version of the company's 350 and 351 series, the new recorders can be instantaneously converted to $\frac{1}{4}$ -in. and $\frac{1}{2}$ -in. tape operation. Other new features include plug-in solid state modular electronics, plug-in head assemblies, three-way editing capability and scrape flutter idlers. The AG-440 is available in console, portable and unmounted versions. Prices range from \$1,970 for a full track unmounted unit to \$4,540 for a four-track console version.

Model MM-1, described as an "instantaneous sync" recorder, has been announced by Amega Corp., 11817 Wicks St., Sun Valley, Calif. The unit features a fast forward/fast reverse through sprocket and instant start/stop with remote-control operation. Basic functions include special record-reproduce combination head, erase head and secondary reproduce head. Features include ability to run loop through for instantaneous sync to loops of picture, or the recorder can run interlocked to the projector with forward/reverse operation. It is available in 16mm, 17 $\frac{1}{2}$ mm and 35mm versions. Prices begin at \$4,800.

The Model G-12 Ultra High Speed Duplication System announced by Gauss Electrophysics, Inc., 1653 Twelfth St., Santa Monica, Calif. 90404, is said to have duplication ratios of 32:1 and 16:1 with recording and duplicating speeds of 120 and 240 in./s. Features include all solid-state construction with plug-in modules and a magnetic recording technique called

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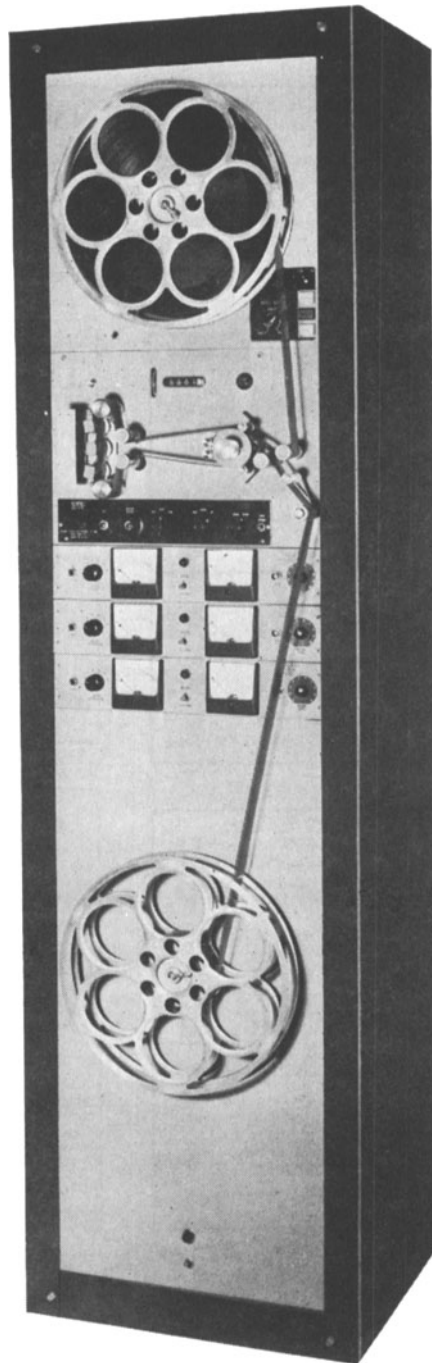
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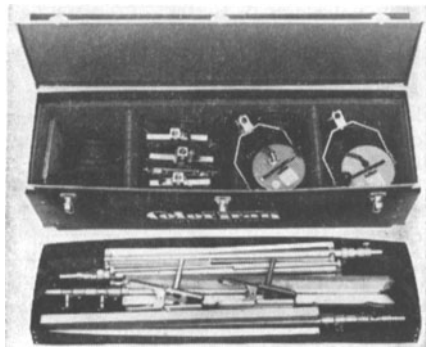
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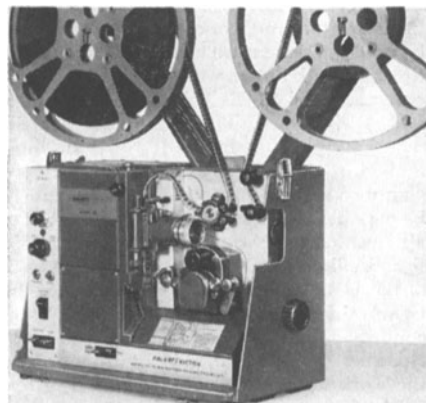
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mounting plate on the front of the lamp contains the negative collimating lens located at the optical center of the system. The bulb has a minimum life of 1,000 hr and a "probable" life of 1,300 to 1,500 hr. A knob protruding from the back of the lamp holds the bulb assembly.

The door of the lamphouse is held in place by four screws. The door need not be opened except to change bulbs. When the door is opened a switch arrangement cuts off all power from the power supply. An on-off switch at the operating side door controls the power supply through the interconnecting cable. A second switch is used to start the arc. A dowsing handle at the top of the lamp operates a dowsing blade in front of the arc bulb. The power supply can be placed on the floor in back of the projection pedestal or on the arc lamp carriage in back of the lamp.



Three new lightweight and compact quartz lighting kits have been announced by ColorTran Industries, Inc., 1015 Chestnut St., Burbank, Calif. 91502. Each kit contains tungsten-halogen quartz light fixtures with related accessories. The carrying cases are foam lined to protect against shock. The 19-piece Flight Kit weighs 36 lb and is priced at \$480.30. The 25-piece Location Lighting Kit weighs 54 lb and is priced at \$480.30. The 26-piece Cameraman's Lighting Kit weighs 32 lb and is priced at \$527.55.



The Series 75 16mm sound motion-picture projectors produced by The Victor Animatograph Corp., Dept. 9, Plainville, Conn. 06062, have been designed for quick and easy set-up. Features include snap-out reel arms and film trips to stop the projector if the film is damaged. Other features include a single drive sprocket to provide for constant speed and uniform tension; top-mounted reels to simplify threading and rewinding; and an offset loop to save

wear and tear on film edges. The projectors are available with 5 by 7-in. door-mounted speakers or with a separately cased 12-in. speaker. They are also available with either a 15-W or 25-W amplifier. Models are also available for rear-screen projection and for magnetic playback. Prices begin at \$620.

Eastman Color Negative Film, Type 7251, designed for wide exposure latitude and good color reproduction, has been announced by Motion Picture and Education Markets Div., Eastman Kodak Co., Rochester, N.Y. 14650. The film is a medium-speed, multilayer film consisting of three light-sensitive emulsions, each sensitized differently, and coated on a safety support. It has a built-in color mask for automatic color correction. Normal exposure speeds are E.I. 50 with tungsten and E.I. 32 for daylight, with a Kodak Wratten Filter No. 85.

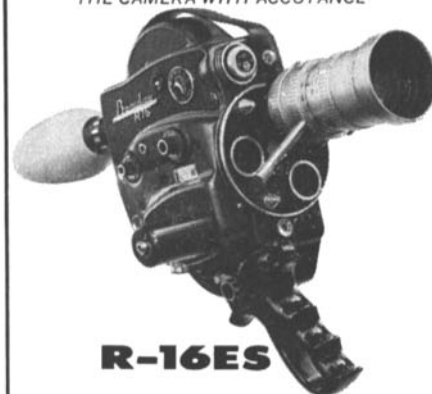


A super 8 sound motion-picture projector capable of playing both optical and magnetic tracks has been announced by the Audio Visual Div. of DuKane Corp., St. Charles, Ill. 60174. The super 8 optical sound reproduction has been made possible largely by the development of an extremely diminutive blue-sensitive silicon solar cell—a tiny wafer several hundred times smaller than the conventional photoelectric tube commonly used in 16mm projectors. The projector also incorporates a specially developed sound pickup mechanism, coupled with dual electric circuitry, which converts the projector from magnetic to optical at the turn of a switch. Designed for ease of operation and portability, the projector employs a completely transistorized high-fidelity sound system, automatic threading, projection speeds of 24 and 18 frames/s for sound or silent films, stop action and reverse control. Lighting is provided by a newly designed 150-W quartz-iodine lamp. Other features include a solid-state recording amplifier with an automatic volume control circuit. The projector is priced at \$550.

A rotary prism recording camera with speeds ranging from 300 to 3,000 frames/s has been announced by Photo-Sonics, Inc., 820 S. Mariposa St., Burbank, Calif. Called the 16mm-1D, the camera is designed for stop-start operation as well as full-capacity run. A rotary disc shutter is used in conjunction with the rotary prism for more even exposure, higher resolution and greater shutter efficiency. Features include a reflex viewer which permits viewing while the camera is loaded and provides a right-side-up and corrects from

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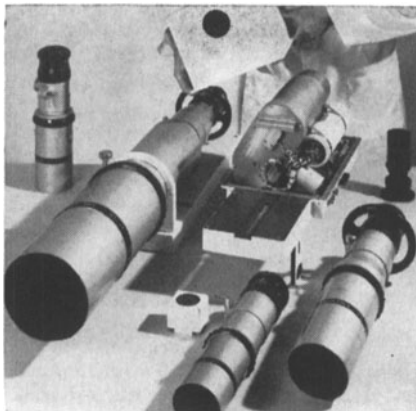
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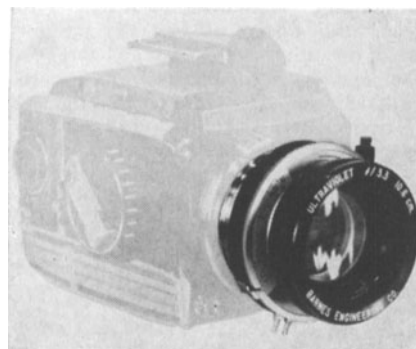
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left to right image. The camera uses a 400-ft magazine with an optional 1,200-ft magazine available. It is priced at \$7,900.



Six automatic phototracking devices which use Omnitar Telephoto Lenses developed by Birns & Sawyer Cine Equipment Co., 6424 Santa Monica Blvd., Hollywood, Calif. 90038, as heart of the optical system, have been delivered to Vandenberg Air Force Base, Calif., by Nortronics Div. of Northrop Corp. The Tracking Error Detectors are to provide jitter-free, hands-off photographic coverage of missile launches and stage separations. The system, designed for use with ground-based tracking mounts, uses television to locate and follow the missile and is an outgrowth of Nortronics' Airborne Lightweight Optics Tracking System (ALOTS). When the mount operator acquires the target on a small TV screen the system follows missiles automatically. The 525-line vidicon is aligned with Omnitar Telephoto optics so that the operator sees what the camera is photographing. The TV camera in the system senses the contrast of the target's leading edge. It then generates tracking error signals which automatically command the phototracking mount. The mount operator continues to monitor his TV screen throughout the tracking procedure. If necessary, he can regain manual control instantly.



A new series of ultraviolet camera lenses has been developed by Barnes Engineering Co., 30 Commerce Rd., Stamford, Conn. 06902. Each lens consists of six elements arranged in a refractive system. Lens materials are lithium fluoride and fused silica. Achromatic correction of axial and wide field images is provided by the special shaping of each lens element. The lenses are corrected over the wavelength region 2,000 Å to 5,200 Å and provide flat field imaging and uniform illumination over the

entire image area. Photographic resolution is 40 lines/mm AWAR (Area Weighted Average Resolution). Focusing range is from 15 ft to infinity. The lenses are capable of operating in a complete vacuum. They were initially designed for use on the Project Gemini orbital missions. The lenses are available in three basic focal lengths, 75mm, 105mm and 150mm. Both the 75mm and the 105mm models have an *f*-stop of 3.3 and a 38° field of view. The 150mm lens has an *f*-stop of 4.0 and a 28° field of view.

A 35mm cinefluorographic magazine with 400-ft film capacity has been announced by Photomechanisms, Inc., 15 Stepar Place, Huntington Station, N.Y. 11746. Called Model 1539, the magazine affords continuous running times up to 107 s at 30 pictures/s and correspondingly long runs at other rates. The 400-ft model is interchangeable with the firm's standard 200-ft model.

A new argon gas laser said to provide at least 1,000 hr of operation under normal operating conditions has been developed by Radio Corp. of America. The laser is contained in a cylinder about 10 in. in diameter. The device consists of a sealed quartz tube resembling a common fluorescent light. The tube is filled with argon gas. Within the tube are many graphite discs having a small center hole. During operation the argon gas is ionized by an electric current which passes through the tube. The excited ions emit light as they change from one energy state to another. The blue-green light is amplified and emitted as a pencil-thin laser beam through an arrangement of special optical windows and mirrors. The new laser is available in two sizes. A 1-W unit (RCA-LD2101) is priced at \$19,500, and a 100 mW version (RCA-LD2100) is priced at \$9,850.

A laminar flow clean work station, Model 62-2, has been announced by Agnew-Higgins, Inc., 7532 Anthony Ave., Garden Grove, Calif. 92641. The unit is designed for use with large work pieces and can also be used to create ultra clean working conditions around bulky work fixtures or machines. Model 62-2 is 77 in. wide, 87 in. high and 47 in. deep. The work chamber dimensions are 70½ in. wide, 46½ in. high and 24 in. deep. The back wall of the work chamber is formed of HEPA filters said to be capable of removing 99.97% or more of all dust particles down to 0.3 microns in size. Prefilters for the unit are located in back of the HEPA filters and can be cleaned by vacuuming in place. The lighting system contained in the canopy above the work chamber delivers 100 fc of illumination to the work surface below. The unit is priced at \$1,850.

A molded plastic case designated Model P-60 has been added to the line of Adapt-A-Cases manufactured by Fiberbilt Div. of Ikelheimer-Ernst, Inc., 601 W. 26 St., New York, N.Y. 10001. The cases, used for carrying cameras and instruments, have a foam-padded interior and movable partitions. The case measures 16 by 11 by 5 in. and has four partitions. It is priced at \$22.50.