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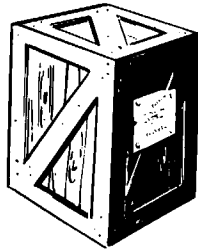
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new products (and developments)



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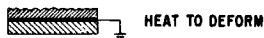
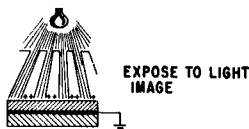
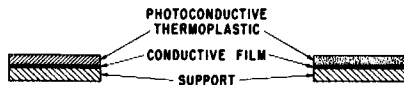


Photo-Plastic Recording, a new method for taking pictures and developing them instantly by flashing light onto an electrostatically charged film, has been announced by General Electric Co., Schenec-

tady, N.Y. The new process, invented by Joseph Gaynor, permits images to be developed in 1/10 to 1/100 sec. Developing is done with heat alone and everything needed to produce the image is contained within the film itself. The images are produced in a plastic film which can be either clear or opaque. It is possible to reuse the same film more than a dozen times without substantially impairing the quality of the image. The image to be recorded is produced on the film by a light beam striking an electrostatically charged photoconductive plastic film. After the film is softened by being heated, microscopic depressions are formed in it by the charges, which conform to the pattern of the image. The film is then recoiled so the tiny depressions, which make up the finished picture, will be sealed in. The heating and cooling, both accomplished in a fraction of a second, constitute the entire development process.

The photo-plastic material used in the film must melt and solidify repeatedly, be able to hold an electrostatic charge on its surface in the dark, be resistant to cracking, and remain free of tackiness after being heated; otherwise it could not be rolled up on tape form without one loop sticking to the next. The film must also be able to dissipate electrostatic charges whenever it is exposed to light.

Photo-Plastic Recording bears resemblance to Thermoplastic Recording, invented by W. E. Glenn (*Journal*, pp. 577-580, Sept. 1960, and pp. 670-675, Sept. 1962). The main difference is that Thermoplastic Recording records an electrical signal, while Photo-Plastic Recording can use ordinary light to record images in a normal atmosphere. Using Thermoplastic Recording, information is written at extremely high density by means of an electron beam on a film consisting of a low-melting thermoplastic material. This information can be projected as a full color image or can be converted to an electrical signal.

Photo-Plastic Recording equipment as used in the laboratory work consists, essentially, of a light source, optical lenses, and a "corona" device for placing electrostatic charges on the tape. Ordinary house

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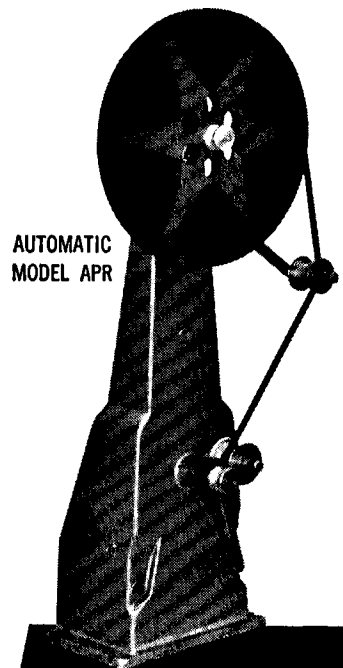
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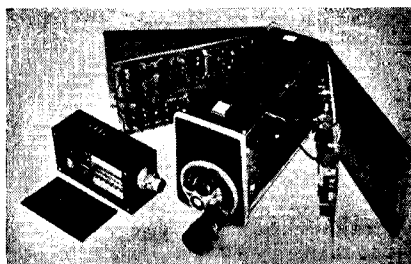
current is used to heat the film so that the latent image becomes visible.

The dry-processed pictures are grainless and can be erased by re-heating the film. As many as 144 pictures can be developed by this method in a space only 2 in. square, it was reported. The film can be made either sensitive or insensitive to nuclear radiation.



A high-speed camera, HS-35 Series, designed to record documentary and photo-instrumentation assignments on 35mm negative perforated film at speeds up to 300 pictures/sec, has been introduced by Cinerama Camera Corp., 11930 W.

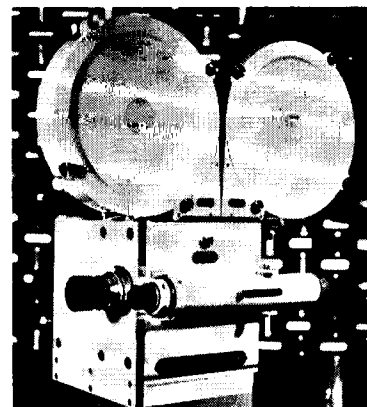
Olympic Blvd., Los Angeles 64, Calif. Constructed of cast magnesium, the modular-designed camera body contains the camera-control unit, lens housing, reflex viewing and focusing system, film transport and timing lights. Mechanical components are mounted on a removable stiffening web (mid-rib) to allow for ease of inspection and maintenance. The film transport is an intermittent, dynamically balanced linkage type with a four-perforation pulldown. Dual registration pins are employed to ensure that the film is registered to 0.0005-in. accuracy during exposure. Dimensions are 24 in. long, 11½ in. wide and 12 in. high (without magazine and lens). Weight with loaded magazine is 95 lb. The price is \$12,630, with 115-v single-phase motor; and \$13,030, with 208-v three-phase motor.



A self-contained "two-in-one" camera, the Sylvania 800, which requires only a receiver to provide a closed-circuit link, has been introduced by Sylvania Electric

Products Inc., 730 Third Ave., New York 17, a subsidiary of General Telephone and Electronics Corp. The camera has a miniature removable vidicon unit which acts as a slave camera for probing places inaccessible to larger cameras. A transmitter and a synchronizing unit are incorporated in the camera and a detachable control panel allows control of the camera up to a distance of 1,000 ft.

The camera has a three-position lens turret with an electrically controlled optical focus and turret changer. The slave unit can be used with wide-angle, telephoto or zoom lenses. When used separately, the slave acts as a remote image pickup, relays the picture to the master unit, which in turn transmits the picture to a TV receiver or monitor. This is accomplished either by cable or via a microwave link. Changing light conditions are compensated for by the camera's electronic self-adjustment, said to compensate for light increases of 4,000 to 1. The camera operates on normal house current, 120 v at 60 c, or it can be operated with a portable power pack. Packaged into the unit are more than 700 resistors, capacitors, transistors, and diodes. The camera, which contains four miniature voltage regulators and 20 preset controls, is 6 in. wide, 8½ in. high and 14 in. long. It weighs 18 lb, with the slave unit weighing 4½ lb. The unit is priced at about \$2,875.



The DBM 35, a high-speed range-instrumentation camera, capable of 250 pin-registered frames/sec, has been announced by D. B. Milliken Co., 131 N. 5th Ave., Arcadia, Calif. Designed specifically for such applications as missile tracking, launch surveillance and re-entry surveillance, it is suited to ground or airborne use. Features include a two-piece, 1,000-ft magazine that simplifies short runs by letting the operator remove the take-up section while the supply section is left on the camera, and an integral, crank-operated rackover system that permits the user to look through the taking lens after the camera is loaded. A specially designed dynamically balanced film-transport movement is incorporated to overcome the adverse effect of camera vibration on resolution, especially when lenses of long focal length are used. While the mechanism imparts a true intermittent motion to the film, with dual registration pins locking each frame, it describes a perfect circle in its operation. This rotary movement is for the purpose of eliminating the high inertial

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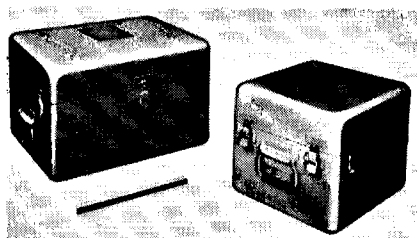
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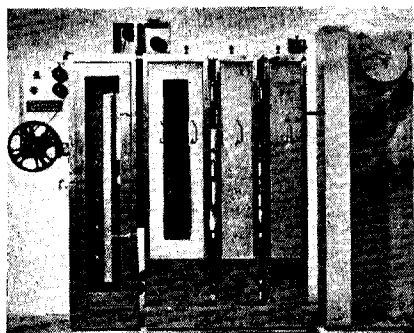
loads and vibration that normally accompany an intermittent mechanism. Other features include an electrically operated demand brake to permit start-stop operation at the top frame rate without danger of film breakage, and a 0° to 120° adjustable shutter with one-step adjustment, compact package and automatic cutoff switch. The camera provides eight speeds ranging from 24 to 250 frames/sec with a single motor.

Two improvements for the Auricon camera, introduced by S.O.S. Photo-Cine-Optics, Inc., 602 W. 52 St., New York 19, are balanced Cine-Voice Conversion and a Transist-O-Sound Amplifier with an exclusive built-in limiter. The Cine-Voice Conversion consists of cutting down the Cine-Voice Camera to the lowest practical point and mounting a machined anodized plate assembly to accept standard Mitchell 400-ft or 1,200-ft magazines. Installation includes an external silent torque take-up motor to handle loads from 400 to 1,200 ft. Also included is a footage counter. The conversion is priced at \$495.

The Actionline Double Arm Support Bracket for the Arriflex 35 is a new product for which Camera Service Center, Inc., 33 W. 52 St., New York 19, is exclusive distributor. The bracket is designed to support all long focal length lenses; zoom lenses, including the Angenieux 25mm to 250mm; zoom lens correlators; and auxiliary matte boxes for telephoto and wide-angle lenses. The bracket support with the matte box allows for the use of 3-in. and 4-in. square glass filters. Light deflectors and deflection hoods also may be attached to the support. It is priced at \$87.50.



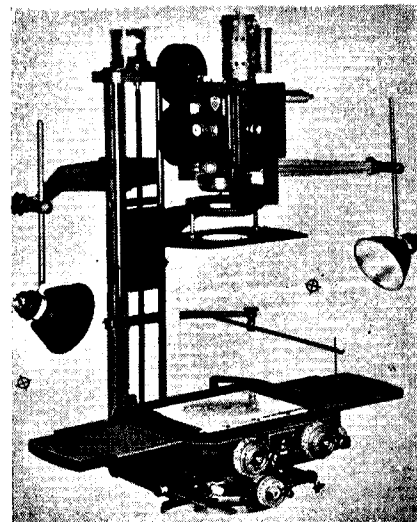
A six-second high-resolution Camera Processor Projector, Model 380, for electronic display systems, has been developed by OPTOmechanisms, Inc., Engineers Hill, Plainview, N.Y. The processor is used for the acquisition and display of data to provide a permanent, fully processed photographic record of the event under study within seconds after it has taken place. The equipment operates automatically, requiring no operator attendance beyond film and chemical loading. Time required to record and project a picture, including film processing, is 6 to 8 sec. The processor is said to be especially useful in recording track and target information from radar and sonar cathode-ray tube displays, instrument face dial reading, and time-stop sequence photography in biological and chemical experiments. The unit consists of a camera, patented processing head and a projector mounted together with film-feed mechanisms and other associated hardware. Dimensions are 19 by 14 by 8 in. Prices start at \$17,250.



A reversal film processor, the R-36, and a combination 16/35mm negative/positive spray processor, the S-60, have been announced by Filmline Corp., Milford, Conn. Designed for speed, the R-36 is said to develop 16mm film at a speed of 2,160 ft/hr; negative film at 720 ft/hr; and positive film at 1,440 ft/hr. The machine utilizes the Filmline Overdrive Transport System which is designed to prevent breaking or scratching the film, and to compensate automatically for elongation while tank footage remains constant. A variable speed drive permits regulation of development times from 1½ to 15 min.

The S-60, a friction-drive processor which also uses the overdrive transport system, develops negative film at 35 ft/min and positive film at 60 ft/min. Film can be stalled in the film chambers without altering footage, the announcement stated, and absolute control is maintained in each chamber to ensure sensitometric quality control and consistent development.

Lower film assemblies are adjustable and remain captive in the position in which they are placed, with monitoring and adjusting of the lower assemblies achieved by indicator rods at the top of each chamber.



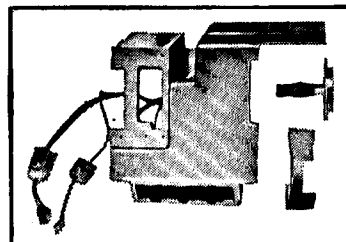
Tel-Animastand Model IIA, a portable table model animation stand of rugged construction, has been announced by S.O.S. Photo-Cine-Optics, Inc., 602 W. 52 St., New York 19. Features include an electrically operated self-adjusting platen, motor-driven vertical camera adjustment, direct reading handwheel with full camera and table rotation. A scale mounted adjacent to the vertical guide is calibrated in quarter

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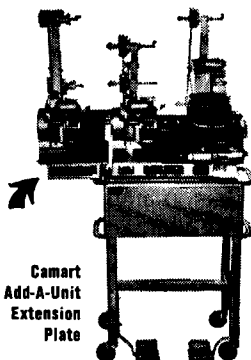
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fields from 3 to 12. The standard work table is 18 by 48 in., including removable end extension and moves 10 in. East/West or 4½ in. North/South. Two 70-in. flush fitting peg bars with engraved scale move 24 in. in either direction from the optical center. Peg bars are controlled by 4-in. handwheels calibrated in 100ths and 64ths. An electrically operated glass platen for standard 12-field or optional 16-field is self adjusting. The unit includes two fully adjustable 300-w 2,000-hr flood lamps and a single voltage control for front lighting. Argon back lighting is used to give a constant cold light for pencil tests and color transparencies. It is priced at \$4,500. A similar model, the IA, designed especially for film strip work, filmographs, titles, TV commercials, etc., is priced at \$3,250.

A Polaroid streak camera film cassette, curved to reduce nonlinearity of the record to under 0.3%, has been introduced by Beckman & Whitley, Inc., San Carlos, Calif. The new cassette, which uses standard 3½ by 4½ Polaroid roll film, makes it possible to get "instant" positive prints or transparencies of ultra-high-speed streak records. It is offered as standard equipment with the company's Model 200 Simultaneous Streak and Framing Camera.

A film slitting machine, Model SL-100, has been announced by Filmline Corp., Milford, Conn. Designed as a dual take-up machine to allow simultaneous slitting and

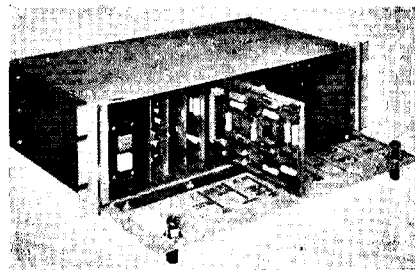
rewinding, the machine can slit double 8mm film and is said to be accurate to 1,000th of an inch. The slitting wheels are made so that they can be resharpened hundreds of times without altering the dimensional characteristics of the film after slitting. Component parts of the slitting mechanism are mounted in precision sealed ball bearings. Price of the unit is \$2,500.

The Stanco Mark V Automatic Hot Splicer has been announced by Camera Mart, Inc., 1845 Broadway, New York 23. A pushbutton-operated power-driven rotary scraper is used to assure uniform scraping. It is adjusted for correct scraping depth and the film emulsion is "buzzed off" automatically. The 16mm model has center placed registration pins to permit A & B cutting, with the sprockets in either direction, without twisting the film. Dual registration pins are provided for perfect alignment and a specially designed heating element is used to maintain the correct temperature directly at the point of the splice, thus permitting stronger and faster splices. The splicers are provided in all-die cast metal housings with hardened and ground polished platens and registration pins, as well as ball bearings in all high-speed components. The 8/16 model is priced at \$229.50, and the 35mm model is priced at \$329.50.

The TLG-111 Timing Light Generator is a miniature, lightweight timing light

generator, all solid state, announced by Traid Corp., 17136 Ventura Blvd., Encino, Calif. The device, built by Adtrol Electronics, Inc. of Philadelphia, is said to be highly accurate and stable, with visual frequency and operation indicator. It is designed to trigger ten or more neon glow lamps, to provide more accurate marks and to have greater driving power.

A variable parameter television system for testing and evaluating vidicon and image-orthicon tubes has been developed by American Microwave & Television Corp., 1369 Industrial Rd., San Carlos, Calif. The system is designed to make precise exposure and resolution measurements of the camera tubes under varying light-level conditions as well as at varying scan and frame rates and varying video bandwidths. The unit is rack cabinet mounted and includes power supply and synchronizing signal generator. A special blanking circuit makes it possible to scan a single frame at rates ranging from 30 times/sec to once every 60 sec. The vidicon system is priced at about \$20,000. The image-orthicon system is somewhat higher. A combination vidicon/image-orthicon system is priced at about \$30,000.



The Dropout Compensator for restoring signal dropouts in video-tape playback has been introduced by the Minicom Division, 3M Company, 2049 S. Barrington Ave., Los Angeles 25. Dropouts may be caused by dirt or balling effect of the oxide coating which interferes with the head-to-tape contact, and present themselves on the television screen as random white flashes. The Compensator replaces the dropout with information which is similar to that lost by substituting the same portion of the previous line which has been stored in a 63.5-μsec delay channel. As each successive line does not vary much from the preceding line, the "inlaid" information is not discernible from the original.

The Fairchild Auto-Ten Gain Shift System, an automatic attenuator used to change the level of a program signal in proportion to the surrounding noise level, has been installed in the 30-story Bankers Trust Building on Park Ave., New York, as part of the Bankers Trust Company's closed circuit communication system. Announcement was made by Fairchild Recording Equipment Corp., 10-40 45th Ave., Long Island City 1, N.Y. The device is said to be able to maintain higher-than-normal listening levels in each room served by the closed-circuit system, without any feedback. This advantage gives conference participants considerable freedom of location in the rooms, as far as about 18 ft from the microphones.

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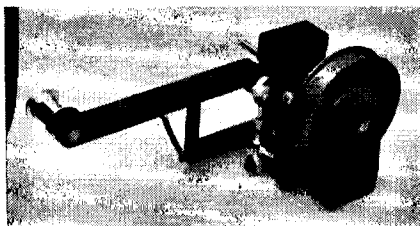
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A line of tension-compensating take-up clutches designed to handle large reels of film or tape at high speeds has been announced by Robar Cinema Engineering, 1514 Gardena St., Glendale 4, Calif. The clutches are of mechanical design, thus avoiding complications of electrical installation and maintenance. Features include high torque transmission, plus instantaneous tension control, to assure evenly wound reels of tape regardless of the size of the reel or operating speed. Film safety is provided for by the instantaneous control incorporated to prevent shock from being exerted on the film, thus avoiding film breaks, abrasions or cinch marks. Construction features include hardened and ground shafting, precision ball bearings and hard anodized casting. The clutches are priced at \$225 each or \$425 a pair.

A new tape series, including a low print mastering tape, a high output mastering tape, and a new duplicating tape, has been announced by Reeves Soundcraft Corp., Great Pasture Rd., Danbury, Conn. The low print and high output tapes are available in $\frac{1}{2}$ - and $\frac{3}{4}$ -in. widths and $1\frac{1}{2}$ -mil acetate and $1\frac{1}{2}$ -mil Mylar bases. The duplicating tape is $\frac{1}{2}$ -in. wide and available on $1\frac{1}{2}$ -mil and 1-mil acetate and 1-mil Mylar. Each tape undergoes a patented Soundcraft process called Micropolishing to remove surface irregularities and to assure consistent short-wavelength uniformity. The low print mastering tape is announced as offering 8 db greater high-frequency output. The oxide formulation and the base of the tape are chemically balanced to prevent cupping and curling. The high output mastering tape is announced as offering a minimum of 3 db more high-frequency output in combination with substantially lower print. The duplicating tape employs a special magnetically active oxide formulation and is said to offer 25% greater frequency high output and a signal-to-noise ratio improved by 7 db.

The Jet-Log Projection Slide Rule, specially designed for use with the 10 by 10-in. overhead projector, has been announced by the Audiovisual Division, Keuffel & Esser Co., Hoboken, N.J. The device has 21 scales, matching those of the firm's Decitrig slide rule. Both sides of the new rule are projected simultaneously on the screen. Numbers are red and black on a background of transparent plastic which is tinted green for eye ease and maximum visibility. The rule is priced at \$75.

A new method of bonding metals to thermoplastics with a single layer of molecules as an adhesive has been de-

veloped at Bell Telephone Laboratories. A bond so formed between aluminum and polyethylene is more permanent than any previously achieved and more resistant to tearing and pulling than the plastic itself. A report on this method, published in the *Journal of Polymer Science*, states that an aluminum-polyethylene-aluminum bond held up for months under 600 psi of tensile-shear stress at 100% relative humidity and temperatures ranging from 80 to 120 F. The materials were bonded together with a monolayer of stearic acid. It was demonstrated in the experiment that if certain long chain hydrocarbon acids are used as the monolayer, the acid end of the molecule will form a chemical bond with the metal, and the hydrocarbon part will form a physical bond with the thermoplastic. One end of the stearic formed aluminum stearate with the metal plate; the other end became immersed in the polyethylene. These reactions account for the permanence of the bond.

The LogEtrrol Color Controller, a product of LogEtrronics, Inc., Alexandria, Va., is designed to control automatically color balance and density of color enlargements of photographs during exposure. Priced under \$1,000, the device consists of three main elements, a light-integrating case, a color control panel, and filter flippers, consisting of three solenoids which flip the cyan, magenta and yellow filters into the optical path under the lens when they have been triggered by their respective control circuits.

The Bolex K-1, an 8mm camera designed mainly for amateur movie makers, has been introduced by Paillard Incorporated, 100 Sixth Ave., New York 13, and was exhibited at the SMPTE Convention in Atlantic City. Features of the new camera include automatic exposure control, governed by a photo resistor; a large reflex viewfinder which incorporates fine-grain ground glass critical focusing; and a zoom range from wide-angle to telephoto close-up. Also included is a single-frame device for tilting and trick effects; a geared precision footage counter, and a streamlined trigger handle which is an integral part of the camera.

Also announced was an addition to the firm's H-16REX line of movie-making equipment, called the Model H-16REX-2. Features include modifications to the reflex viewfinder and innovations in the variable shutter.

Agfa Splicers K-8 and N-8 are two cement-type splicers for 8mm film recently announced by Agfa Incorporated, Rockleigh, N.J. Designed for click-free projection with no loss of focus, the splicers are usable with either magnetic-stripped or unstripped film. The N-8 is designed to eliminate the need for reversing the film after scraping. Utilizing a built-in scraper, it automatically bevels both film ends simultaneously. Cutting blades are designed to provide wedged ends for thinner overlaps. It is priced at \$19.95. The smaller K-8 employs its own scraper and cutting blade, but requires the film to be reversed

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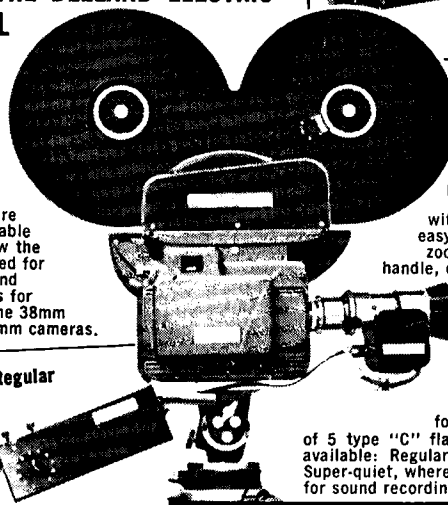
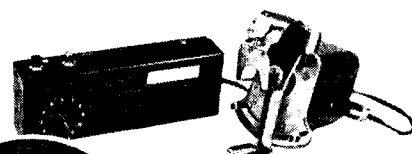
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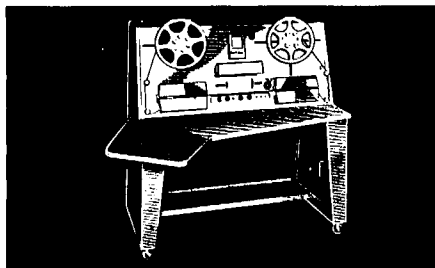
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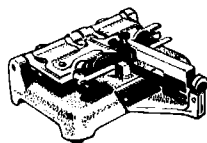
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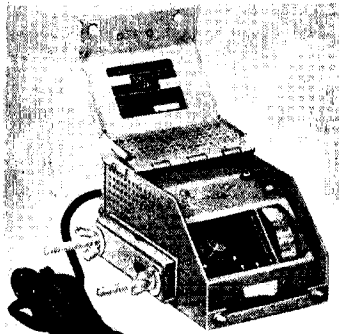
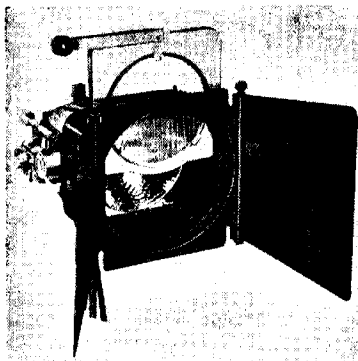
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and repositioned after scraping. It is priced at \$9.95.

The Leicina 8V, an 8mm camera with a 13-element, f/1.8 Variogon 8–48mm zoom lens, which focuses to 40 in., has been introduced by E. Leitz, Inc., 468 Park Ave. South, New York 16. The camera also features coaxial zooming and focusing controls and a two-speed (16 and 24 frames/sec) electric motor drive powered by either four "AA" dry cells or a rechargeable nickel-cadmium battery. The reflex viewing system of the 8V uses light diverted from the lens by a prism within the prime lens system. The prism is located in front of the lens diaphragm so that the viewing and focusing image may be formed at full lens aperture despite the diaphragm setting for prevailing light levels. The camera is priced at \$456.

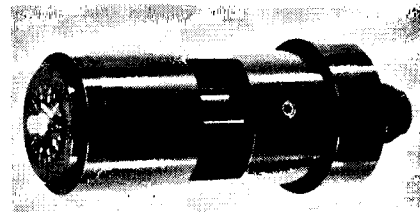


A compact lightweight lighting system consisting of a newly designed Sun Gun Photo Light and a solid-state electronic control for light output and color temperature has been introduced by Sylvania Electric Products Inc., 730 Third Ave., New York 17. The Sun Gun Photo Light is equipped with a 1000-w high-silicon halogen lamp with a built-in fuse. In its reflector, the lamp is reported to produce 65,000 center-beam candlepower with a color temperature of 3,400 K at 120 v. The light weighs only 3½ lb and can be held in the hand. The new electronic control, designated the Sylvac Control, Model SV-9, plugs into a standard 120-v a-c outlet and the photo light plugs directly into the control. The unit has a three-position switch (off, high, and low). In the high position, the control circuits are by-passed providing maximum brightness of the lamp. In the low position, a single knob controls light output and color temperature. At line voltage of 120 v or more a simple adjustment of the controls makes it possible to vary light output continuously from zero up to full brightness or to select color

temperatures up to 3,400 K. Other recently introduced equipments used with the lighting system include a Sylvac Control, Model SV-20, designed to accommodate two 1,000-w photo lights or any combination of lights up to 20 amp, and two new voltage boosters for use with the Sun Gun lighting equipment under low line-voltage conditions. A 9-amp voltage booster is available for use with the Sylvac Control, Model SV-9, and a 20-amp unit is available for Model SV-20. The system was exhibited for the first time at the SMPTE Convention in Atlantic City.

Filters and Proxar lenses for the Angenieux 25mm/250mm zoom lenses are manufactured by Camera Service Center, 333 W. 52 St., New York. These are custom designed to fit the special CSC sunshade for the Angenieux 10-1 lens. Rental and purchase package plans have been set up.

A manually operated r-f switch, Model TS-200, that may be used at frequencies to 1,500 mc, has been announced by Telonic Industries, Inc., 60 N. First Ave., Beech Grove, Ind. A single-pole, six-position type, the new switch comes equipped with either BNC or TNC connectors and is housed in a steel case complete with switching knob. Electrically, the switch is a 50-ohm unit with crosstalk rejection of at least 70 db, insertion loss of only 0.1 db and VSWR less than 1.1:1, all at 1,000 mc, the announcement stated. The switch is priced at \$95.



The Laser Q Spoiler, Model 402, designed to Q spoil laser beams up to ¼ in. in diameter, is a product of Beckman & Whitley, Inc., San Carlos, Calif. Described as a 1500-rps rotating prism Q spoiler that can produce pulse durations as short as 50 nanoseconds, with peak output power in the megawatt range, the device is 1.5 in. in diameter, 4½ in. long, and can be mounted and operated in any position. To obtain the shortest possible shuttering time and also eliminate critical alignment problems, a total internal reflection prism is rotated on an axis parallel to the prism hypotenuse and perpendicular to the roof edge. The prism is rotated by a compact turbine which will operate from either a small compressed air supply, or from nitrogen. The Model 402 is priced at \$1,500.

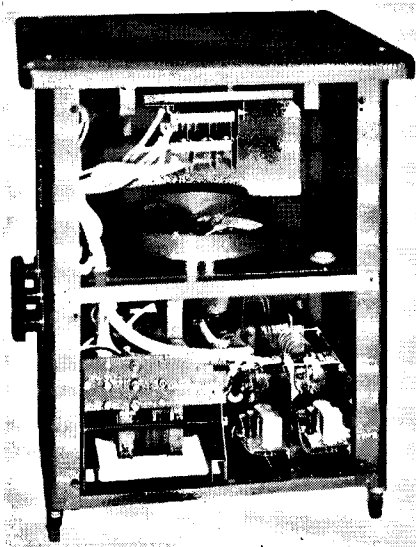
The Hammarlund TM500-A is a Secondary Frequency Standard for measuring transmitter frequencies, calibrating frequency and deviation meters, as well as for setting FM transmitter deviation with great precision, announced by Hammarlund Manufacturing Co., a Giannini scientific company, 53 W. 23 St., New York 23. The instrument is intended for use in laboratories and servicing mobile

and aircraft radio equipment. It is priced at \$675.

An experimental electron tube, developed by Radio Corp. of America under sponsorship of the Aeronautical Systems Div., Air Force Systems Command, Wright Patterson Air Force Base, Ohio, uses the interaction of a pulsating electron beam and ionized cesium gas, or plasma, to amplify radio signals that oscillate up to 23 billion times per second. The tube first produces a stream of electrons at a heated cathode. As these electrons move toward a collector, they pass through a coiled, spring-shaped structure called a helix, which carries the signal to be amplified. The characteristic variations in this signal modulate or segregate the stream of electrons into bunches (pulses) which move out of the helix into a cavity containing cesium plasma, i.e., cesium gas whose atoms have been broken down electrically into their constituent electrons and positive ions.

The electron bunches interact with the plasma electrons, causing them to resonate, or vibrate in sympathy, with the result that the number of electrons concentrated in the bunches is greatly increased. The electron bunches then pass through another helix where their variations induce a signal identical to, but much stronger than, the one that bunched them originally. Thus the signal itself is amplified.

An emergency lighting unit based on a maintenance-free sealed lead-acid battery has been announced by the Exide Industrial Marketing Division of the Electric Storage Battery Company of Philadelphia. Called the Exide Lightguard Model F, the unit's permanently sealed, 6-v lead acid battery, with 30 amp-hr capacity, requires no additional water during the entire life of the battery, the announcement stated. Battery life has been estimated at seven years.



The Bi-Powr, a silicon stack transformer for operation of two projection arc lamps off of a single power supply, has been announced by Strong Electric Corp., 532 City Park Ave., Toledo 1, Ohio. The transformer is designed for operation on

220-v 50/60-cycle, three-phase a-c. There are three dial switches, one for each of the three phases, for regulating the output of the rectifier.

The ColorTran Quartz-King "Dual" has been announced by ColorTran Industries, 630 Flower St., Burbank, Calif., as its latest addition to the Quartz-King line of lighting equipment. The "Dual" is available in 650-w and 1,000-w models. It incorporates, in the housing, a two-position mounting for the quartz-iodine. With the lamp mounted in the forward position, on the first pair of clip-on contact pins, the light pattern produced is a wide flood. When mounted in the rear position, further back in the housing, the light pattern produced is a medium flood. The unit operates directly from 110/120-v a-c or d-c, and no converter is required. The housings are priced at \$36.90 for the 650-w, and \$46.90 for the 1,000-w with universal yoke mount; and \$33.30 for the 650-w, and \$43.30 for the 1,000-w with screw base. The lamp is priced at \$14.95. The "Dual" was exhibited at the SMPTE Convention in Atlantic City.

A new system for automatic editing and animation on television tape has been introduced by Ampex Corp., 934 Charter St., Redwood City, Calif. The Editec time element control system combines with the Ampex Electronic Editor to permit push-button, frame-by-frame editing. With the Editec system, a program may be as-

sembled scene by scene into a first generation master edited tape. Scenes may be recorded in any sequence convenient to the scheduling of artists or equipment. The beginning and end of each scene are precisely located so that the scene may be lengthened or shortened by one or more frames with the turn of a dial. The Editec system is priced at \$9,500. The Electronic Editor, used in conjunction with Editec, is priced at \$3,850.

The Ampex VR-1100, a small, economical recorder planned especially for use by medium and small-market stations, has been introduced by Ampex Corp., 934 Charter St., Redwood City, Calif. The machine is equipped for operation at either 7½ in./sec or 15 in./sec with complete interchangeability of tapes with any broadcast television recorder at either speed. The recorder is self-contained in a single cabinet 60 by 24 by 42 in., and is of modular construction for ease of maintenance. The recorder is priced at \$34,500. A closed-circuit version is priced at \$30,550.

A safety film leader which requires no scraping has been announced by Starax Inc., 251 W. 42 St., New York 36, a newly formed company associated with the Joseph Davis Plastics Co. The film leader, available in a wide variety of colors, is made of non-flammable acetate for use on all standard splicing equipment. The film leader will be available in sizes ranging from 8mm to 90mm, the announcement stated.



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