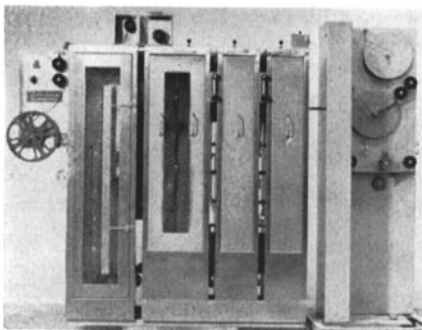


new products

(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 S-60, a combination 16/35mm negative/positive spray processor has been announced by Filmline Corp., Milford, Conn. It is reported to develop negative film at 35 ft/min and positive film at 60 ft/min. The machine is a friction-drive processor featuring an overdrive film transport system designed to prevent any scratching or breaking of the film. Film can be stalled in film chambers without altering the footage and control is maintained in each chamber for sensitometric quality control and consistent development. Lower film assemblies are adjustable with the position monitored and adjusted by means of indicator rods at the top of each chamber. Additional features include temperature controls with pilot lights, 316 stainless steel pumps for developing and hypo solution, water temperature regulator, replenishment flow meters, and manual and automatic brake for film supply. The processor is priced at about \$15,000.

The Levitan Film Computer, produced by Camera Equipment Corp., 315 W. 43 St., New York 36, is a pocket-size (5 1/4 in. in diameter) device arranged to show Time, Footage, Frames (35mm, 16mm, and 8mm), and Number of Words in any given time period. It also has diagrams and markings that list footage and soundtracks for 1-min., 20-sec and 10-sec commercials. The computer also shows a photography-projection ratio chart that lists both live action and animation shooting fields and safety projection areas for both motion pictures and television. The computer also has a standard wipe chart that lists 120 of the most frequently used wipes in their logical sequence. The computer is priced at \$1.00.

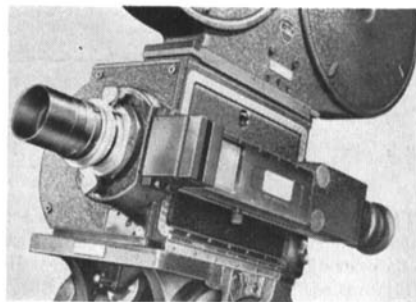
The Philip A. Hunt Company, Palisades Park, N.J., has available a new all-liquid system for preparing reversal processing solutions in one step. Four cine reversal solutions are supplied as concentrates in 5-gal polyethylene cubitainers. Diluted one-third, each cube makes 20 gal, eliminating all mixing of bulk chemicals from bottles, bags and drums.

Each set of Cine Liquids consists of five items: reversal first developer, reversal bleach solution, reversal clearing solution, reversal developer, and companion fixer concentrate. Use of this all-liquid system is said to give a cleaner operation of the reversal processor and provide greater capacity and stability compared with standard published formulas.

The Model 180 is the latest addition to the pH meter line manufactured by Photovolt Corp., 1115 Broadway, New York 10. This versatile meter offers a reading accuracy of better than 0.01 pH unit (or 1 mv). It can be used either for readings over the entire pH range from 0-14 or, for higher accuracy, in a range covering two pH units such as, for instance, 0-2, 2-4, etc.

Model 180 uses three standard radio-type batteries which have a life of 2000 hr, even in continuous daily operation. As in all Photovolt pH meters, Model 180 can be used with Photovolt electrodes as well as those made by other firms. For that purpose, simple adapters are available. An outlet for recorder is provided. Price of the Model 180 is \$375.00.

A portable telescope with an 8-in. aperture which can be adapted for use with 35mm or 16mm cameras has been announced by Tinsley Laboratories, Inc., 2448 Sixth St., Berkeley 10, Calif. Weighing 70 1/2 lb, the basic system includes a mount with base mounting plate, leveling screws, tube, tube aperture dust cover, zenith diagonal eyepiece, rack-and-pinion focusing, 10-power range finder, two observing eyepieces, electric sidereal drive, and 6-v battery with charger. The Cassegrain optical system has a primary mirror focal length of 32 in. with magnifications up to 256 power. The telescope is priced at \$995.



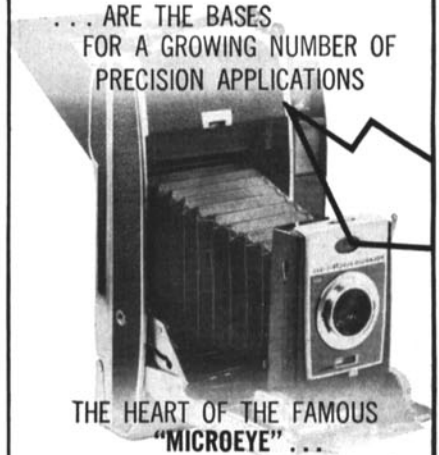
The redesigning of Mitchell and Bell & Howell professional cameras by Ceco Industries, Inc. for reflex through-the-lens focusing and viewing has been announced by Camera Equipment Co., 315 W. 43 St.,

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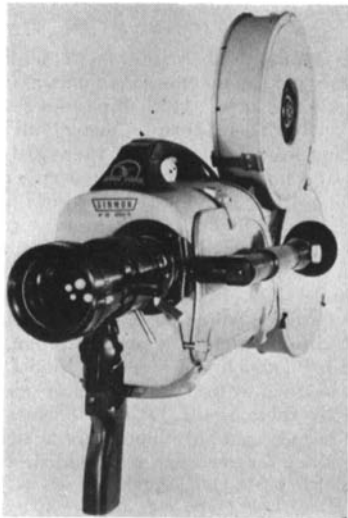
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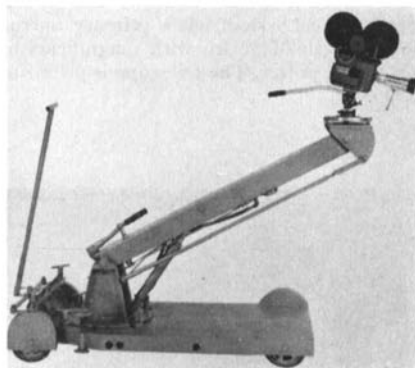
Red figures indicate film footage consumed for 35MM. Black figures indicate time consumed. 30 minute register, side slide for time out. 7 jewels. #810F—\$43.40. Free "Guide" to the correct selection of a Timer or Chronograph available on request.

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New York 36. The redesigned cameras now accommodate the Image Diverter System described as "optically perfect." The optical system is said to be free from aberrations, coma, color shift, image degradation, and other optical defects. The reflex modification eliminates the rack-over assembly from the Mitchell and Bell & Howell standard cameras. The diverted image, magnified approximately ten times through the viewer, appears on a full aperture ground glass, allowing the operator to focus and view continually even at minimal light levels. Exposure tests made with the reflex-converted cameras reportedly show no loss of resolution or contrast, no fall-off at the edge of the frame and no color shift or degradation when color film is exposed.



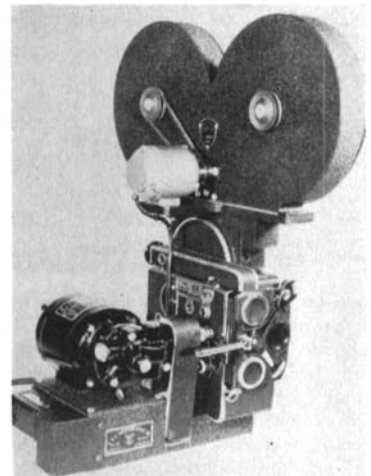
The Andre Debric Sinmor 16 camera is distributed in the United States by Andre Debric Mfg. Corp., 14-29 112 St., College Point 56, N.Y. The camera incorporates the Debric V-gate designed to eliminate the need for register pins, pressure plates, etc. The camera is equipped with an Angenieux 17 to 68mm zoom lens. The camera, which weighs 21 lb, is said to operate so quietly that a microphone may be brought within two feet. It is priced at \$3950.



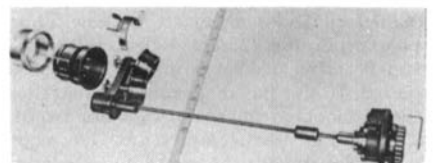
The Porta-dolly for 16mm production is designed to combine sturdiness with ease of operation. Designed and made by Thomas C. Countryman, Times Bldg., Minneapolis 1, Minn., the four-wheel dolly weighs 306 lb, is 53½ in. long, 27½ in. wide and has 8-in. hard rubber wheels with adjustable ball bearings. The boom turns 360° and raises from a low position of 12 in. from the floor to 60 in. There are two

floor jacks and a double lock for the steering post. The dolly employs an hydraulic raising mechanism said to be completely silent and an hydraulic accumulator which stores enough pressure (from an attached hand pump) to raise and lower the camera twice. The mounting plate for 16mm, 35mm and TV heads is of cast aluminum. The dolly is priced at \$1187.

A new zoom lens, the Angenieux Model 120 for the Arriflex-16, has been announced by Arriflex Corp. of America, 257 Park Ave. South, New York 10, N.Y. The new lens zooms from 12mm to 120mm. The zoom movement is operated by a geared drive controlled by a small hand crank. An additional lever provides direct operation for fast zooms. The lens is rated for $f/2.2$ to $f/22$ and focuses from 5 ft to infinity with field angles ranging from 56° to 6°. The extension from the turret is 5¼ in., largest diameter is less than 3 in. and the lens weighs 1 lb, 14 oz. It is priced at \$820.



A Tel-Amatic Bolex magazine conversion which permits Bolex cameras to be used with Mitchell type 400-ft and 1200-ft loads has been announced by S.O.S. Photo-Cine-Optics, Inc., 602 W. 52 St., New York 19. If desired, 100-ft or 200-ft daylight loading spools can be used in the external magazines. When a short run is required, or where light weight is needed for hard-to-reach locations, the magazine can be easily dismantled. The unit includes a 115-v synchronous motor maintaining 24 frames/sec for accurate recording when used with a tape recorder, projector or phonograph. The motor is mounted on a separate base with an on-off switch, reverse switch and 12-ft heavy-duty cable. The unit is priced at \$495 plus \$100 for footage counter.



Conversion Kit 4A320 for the Arriflex-16 blimp has been introduced by Arriflex Corp. of America, 257 Park Ave. South, New York 10. The conversion modifies the blimp in such a way that the 70mm Angenieux Varifocal lens may be mounted on the Arriflex-16 and focused and zoomed

from the outside. In the modification, the rear focusing knob on the blimp operates the focusing barrel of the 70mm Angenieux and the side focusing knob on the blimp operates the zoom movement of the lens. Follow-focus with regular lenses requires only the removal of the 70mm Angenieux from the camera. The converted rear focusing mechanism will focus the 70mm or standard lenses. The kit is priced at \$495.



The Kodak Electric 8 Automatic Camera featuring a battery-powered motor drive and a drop-in, user-loaded cassette for standard 8mm roll film, has been introduced by Eastman Kodak Co., Rochester 4, N.Y. The electric motor drive is powered by four AA-size batteries housed in a leak-proof battery cartridge and up to 10 rolls of film can be exposed with one set of manganese alkaline batteries. Film speed settings on the camera range from 10 to 40. There are also two new settings of 16A and 40A. At either of these settings the built-in Type A filter is automatically positioned in front of the lens and the meter is set for exposing Type A film out of doors. The camera (without batteries) is priced at under \$100.

A new **Voltabloc nickel-cadmium battery**, the 14V04-D, has been announced by Arriflex Corp. of America, 257 Park Ave. South, New York 10. The battery has a built-in switch to provide selectively 8.4 v at 8 amp/hr for the Arriflex-16, or 16.8 v at 4 amp/hr for the Arriflex-35. Each of the battery's 14 nickel-cadmium cells is in an hermetically sealed steel case. A built-in miniaturized charger is incorporated. The battery is priced at \$256.

The Super-60, a new housing for R-60 1000-w lamps, has been announced by ColorTran Industries, 630 S. Flower St., Burbank, Calif. Weighing only 7 lb, it is said to be extremely sturdy to withstand hard use. When used with an R-60 lamp it is reported to produce 490 ft-c, 7 ft in diameter, 10 ft from the lamp at 3450 K. It is priced at \$39.90.

A **lightweight, battery-powered light** called the Portable Cinema Light has been developed by the Photo Lamp Dept. of General Electric Company, Nela Park, Cleveland 12. The heart of the unit is a nickel-cadmium battery pack which is said to be capable of being recharged thousands of times. The battery recharges in about 60 minutes and each charge lasts a minimum of six minutes. The light is priced at \$125.

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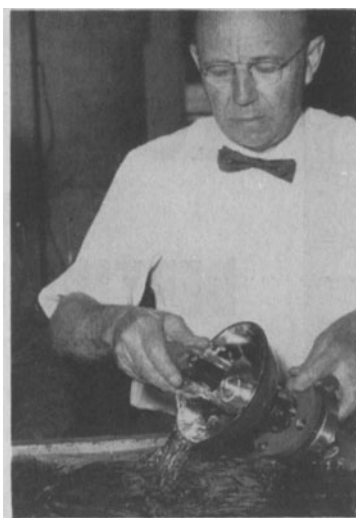
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The Kodak Automatic 8 Projector, Model 1, an 8mm projector with a completely automatic rewind system, has been announced by Eastman Kodak Co. Features include automatic threading, a sharp 19mm $f/1.6$ projector lens, quiet operation, and forward, still and reverse projection. Only three manual operations are required: placing a reel of film onto the supply spindle, switching the projector on, and inserting the film into a slot at the top of the gate. At the end of the reel, the projector turns off the projection lamp and turns on the room lights; automatically rewinds the film (about 200 ft in 20 sec); and turns off the projector motor. The automatic features of the projector are based on a specially designed gate and pulldown system. During projection the film is held in the gate by a contoured pressure plate. When the rewind cycle starts, the pressure plate springs open, allowing the film to travel free of the gate and pulldown on rapid rewind. The projector is priced at under \$110.

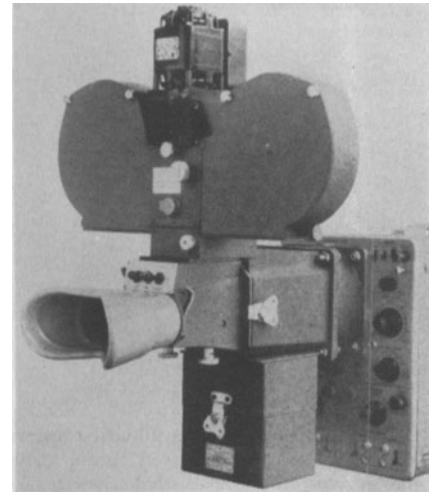
A new model of the **Kodak Chevron 8 Projector** with a zoom lens has been announced by Eastman Kodak Co., Rochester 4, N.Y. The projector, with the ultra-fast $f/1.2$ Ektanar 15mm-25mm zoom lens, fills a 50-in. screen at any distance from 13½ to 24 ft without moving projector or screen. The zoom lens also allows the operator to zoom in for a closer look at part of a scene. At a distance of 18 ft, for example, the lens can project pictures from 37 to 62 in. wide. The projector is priced at under \$175.



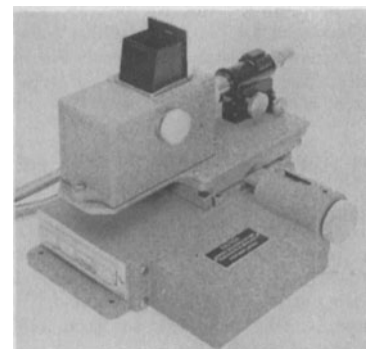
A 300-w deep-sea incandescent lamp has been developed by Edgerton, Germeshausen & Grier, Inc., for use in the U.S. Navy's Trieste Bathyscaphe. Four of the lamps have been installed to enable the Bathyscaphe's pilot to film what he sees in the ocean's murky depths as the vehicle dives. The lamp's heavy glass outer casing has been tested for 20,000 lb/sq in. This corresponds to a sea depth of 40,000 ft. The deepest known depth is 37,500 ft.

A condenser lens made from a special heat-absorbing glass has been announced by ColorTran Industries, 630 S. Flower St.,

Burbank, Calif. Available in sizes up to 2½ in. in diameter, suggested applications include photography of delicate plants and other subjects affected by heat as well as use in oscilloscope recording cameras and stop-motion projectors. The lens is reported to absorb 85 % of the infrared heat generated by any light source.

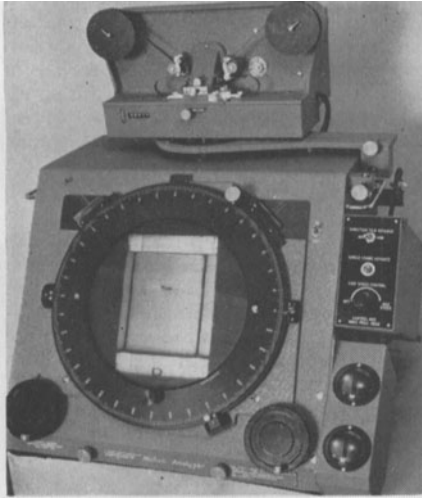


The **OC-1-70S 70mm oscilloscope recording camera** has been announced by the Photographic Instrumentation Development Co., 19458 Ventura Blvd., Tarzana, Calif. Designed as a high-speed strip film unit, the camera has variable speed capability available in any 10-to-1 speed range from 5 to 1000 in./sec. It is recommended by the manufacturers for photography of phenomena with very-high-speed transient peaks. The unit includes a companion variable-voltage film-speed control. The camera can be rotated 90° to record on either axis. Features include a 75mm $f/1.9$ 7-element Raptar lens; built-in bore sight; automatic shut-off; and a beam splitter which permits parallax-free viewing while recording. Film capacity of the magazine is 100 ft. It is priced at \$3,600, or \$3,750 with brake feature.



The **Anso Micro-Image Scanner** is a product of the Photo and Repro Division (Anso/Ozalid) of Anso, Binghamton, N.Y. The basic design of the instrument centers around a microscope mounted on a motorized platform and having a photoelectric tube for measuring light level in the image being studied. It has an open flat-bed mount so that it can be incorporated into complex optical systems. The 4A automatic recording model, consisting of

an optical assembly and an electronic amplifier-recorder assembly, is priced at \$12,250. A micro-image scanner assembly for use as an accessory to the firm's Model 4 microdensitometer optical assembly is priced at \$3,500.



The Motion Analyzer Model M-70/35/16, designed for readout of 16mm, 35mm, or 70mm film, interchangeably, is a product of Vanguard Instrument Corp., 20 W. Centennial Ave., Roosevelt, L.I., N.Y. The projection head features flow film design, forward or reverse with a wide range of speed control; choice of magnifications (2.5X, 4X, 8X, or 16X); adaptability to digitizer equipment; usability in a normally lighted room; and vertical or horizontal readout to 1/1000 in. In combination with a projection case the analyzer is suitable for such applications as study of ballistics, medical research, oscilloscope data reduction, explosive and flame studies, radar evaluation and similar applications. The projection head alone is priced at \$2,450.

The OC-8000S series 35mm Slow-Speed Strip Recorder has been announced by Photographic Instrumentation Development Co., 19458 Ventura Blvd., Tarzana, Calif. Developed for radio-telescope and ionospheric studies, the recorder is designed for fast, simple and accurate photographic evidence of electronic phenomena displayed on the face of the cathode-ray tube. Constant film advance at all speeds is assured through the use of a synchronous motor, and a specially designed transmission is incorporated for quick and positive speed change. A built-in counter indicates the number of feet remaining in the supply magazine.

A storage and cataloguing system for disc records has been announced by Neumade Products Corp. Storage cabinets of various sizes and prices are available. The Model RS-612, which holds 600 12-in. records is priced at \$285. The Model RS-100 holds 100 10-in. records and is priced at \$36. Each record is protected in a sleeve of 13-pt gray plate stock which pivots on a steel rod from upright storage to rest on the hinged flat shelf front. A visible record index file system is supplied with each cabinet.



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A new development to reduce the size and weight of TV picture tubes as well as make them less costly has been introduced by the Kimble Glass Co., a subsidiary of Owens-Illinois. The development called the Kimcode system (Kimble Method for Controlled Devacuation) uses a special arrangement of steel bands, Fiberglas, and a small amount of plastic adhesive to eliminate need for the glass or plastic implosion plate at the front of the viewing surface of the tube. This system is said to be applicable to all cathode-ray display or picture tubes used in home TV sets, radar receivers, computers, oscilloscopes, and like devices.

Two new gaseous optical masers, one using a mixture of neon and oxygen, the other a mixture of argon and oxygen, have been announced by Bell Telephone Laboratories. Both devices radiate in the near infrared at a wavelength of 8446 A. This technological advance, because of the underlying physical principle, suggests the advent of a whole new family of gaseous optical masers, while providing a new frequency for optical communications. Optical maser action in neon-oxygen and argon-oxygen is made possible by "dissociative excitation transfer." It is the first time that this excitation mechanism has been used in an optical maser.

A new line of large d-c capacitors for laser work and photoflash applications has been announced by General Electric Company's Capacitor Department in Hudson Falls, N.Y. The units range from 2000 v and 40 watt-seconds to 6000 v and 1250 watt-seconds. Various combinations of voltages and watt-second ratings for special applications are available up to the limits of flashtube capabilities.

Recent reports on British-made products include a description of a suspension system for electrical indicating instruments which is claimed to be superior to pivots and jewel bearings for accuracy, durability and resistance to shock. It is a product of Crompton Parkinson Ltd., Crompton House, Aldwych, London W.C.2.

A copper wire which is only 0.00012 in. in diameter has been developed by Glass Developments Ltd., Sudbourne Rd., London S.W.2. In making the wire, a piece of glass tubing containing a length of copper wire is passed through a radio-frequency induction heating coil. The molten metal can then be drawn out to an even finer diameter than the glass surrounding it and attached to a rapidly rotating drum. From the drum lengths of up to 1000 yd of the wire are wound onto spools.

A battery-operated insulation and continuity tester with an unusually wide voltage range is a product of Evershed and Vignoles Ltd., Acton Lane Works, Chiswick, London W.4. The sole U.S. agent is James G. Biddle Co., 1316 Arch St., Philadelphia 7.

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