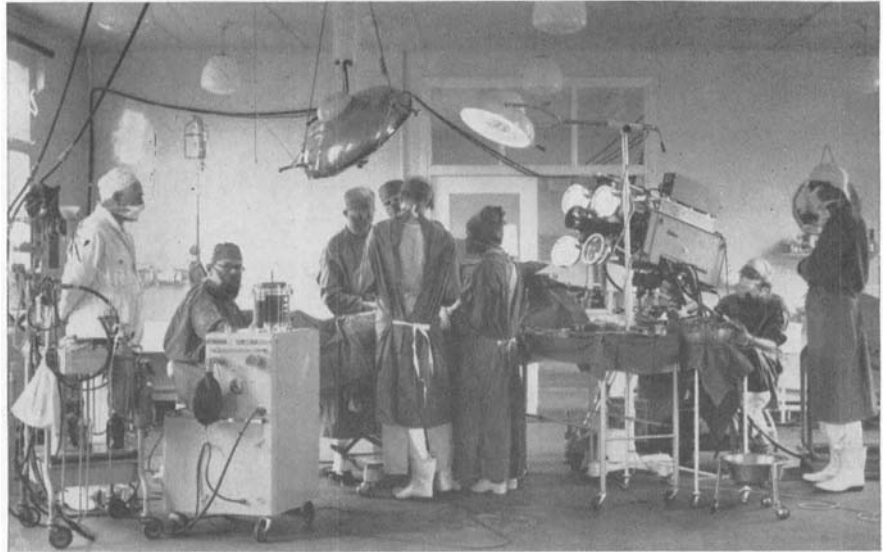


# new products

(and developments)

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



A solid state, miniature vidicon television camera channel, specifically designed for specialized requirements in aircraft and industry, has been announced by Marconi's Wireless Telegraph Co., Chelmsford, Essex, England. Called the 321 Series, it has completely automatic operation, the only control being an ON/OFF switch. Automatic sensitivity circuits in the camera enable it to accept rapid changes in scene illumination; black level, also, is controlled automatically over the channel's wide environmental range. It can be powered by line or lightweight battery and all conventional scanning standards can be supplied.

A vidicon color camera designed by Marconi's Wireless Telegraph Co., Chelmsford, Essex, England, especially for instructional use in medicine and surgery, has been demonstrated to an international group of medical specialists at St. Johns Hospital in Chelmsford. In reporting on the demonstration, the firm describes it as compact and light in weight and fully controllable from a remote position. It can be suspended over the operating table and focused through a mirror or fitted with a normal viewfinder and mounted on a stand and focused through a mirror suspended from overhead lights. The camera can

be made airtight and slightly pressurized as a precaution against the ingress of explosive anesthetics. The lens turret provides a choice of four lenses; also, a zoom lens and a variety of devices including microscopes and endoscopes may be used.

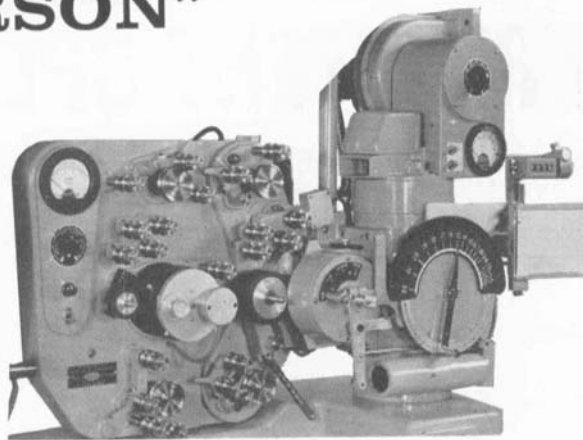
An experimental four-tube color TV camera which produces crisper and deeper hued TV pictures from color motion-picture film was shown by the Radio Corp. of America at the National Association of Broadcasters meeting in March in Chicago. The fourth tube is used to produce a separate monochrome channel for a more sharply defined color picture. The camera uses solid state components throughout and employs a 1½-in. vidicon for its monochrome or "luminance" channel, which is entirely separate from the "chrominance" or color signals delivered by the red, green and blue 1-in. vidicon tubes. The experimental camera makes use of a beam-splitting prism which divides the light between the camera's luminance and chrominance sections. In the chrominance section, the light is again split to provide the red, green, and blue components of the color image.

The Allison Model 540 1/3 Octave Spectrum Analyzer is a product of Allison Laboratories, Inc., P.O. Box 515, La Habra, Calif. Flexibility of filter selection over a range of 2.5 cps to 200 kcps makes it suitable for standard or special purpose tests. A repetitive 0.1-sec display of the spectrum allows high-speed testing of product or immediate evaluation of design changes. The input signal is fed to a bank of 1/3 octave passive network bandpass filters. The individual filter output is rectified and stored in a capacitor. Each capacitor is sampled consecutively 10 times/sec by a motor-driven commutator switch. The switch output is amplified logarithmically and the output is displayed on the calibrated oscilloscope screen. Simultaneously calibration signals are displayed to show instrument accuracy during the test. It is priced at \$7,250.

The LSI TV camera used on the Gordon Cooper Space Shot was designed and manufactured by the Electronics Instrumentation Div., Anaheim, Calif., of Lear Siegler, Inc., 3171 S. Bundy Dr., Santa Monica, Calif. Designed as the smallest

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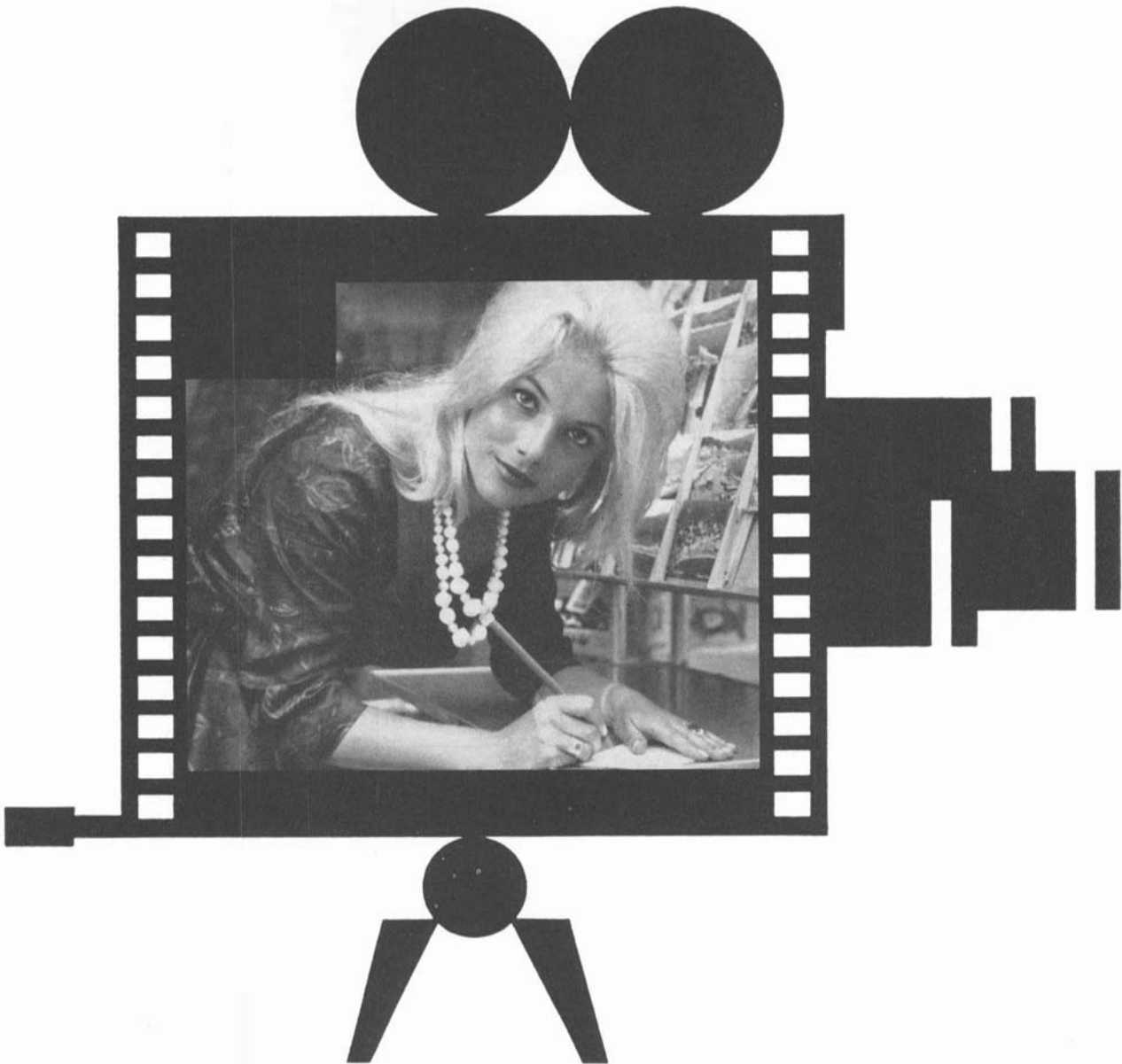
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TV camera for airborne use, it weighs with its control unit included 7.2 lb; and the entire system, including transmitter and lens, weighs less than 15 lb. The camera (Model 0594) operates at one frame per two seconds. Use of slow scan allows reduction of bandwidth and resulting reduction of transmission power requirement. The transmitter has a 4-w output and a bandwidth of 250 kc. It is equipped with a right-angle lens system and three quick-connect lenses, ½-in., 1-in. and 6-in. in focal length. The system operates on 28-v d-c with 20 w used by the camera and 50 w by the transmitter.

Other equipment carried on the flight included a Traid Automax 35mm data camera, according to information from Traid Corp., 17136 Ventura Blvd., Encino, Calif. The Automax was pulsed at the rate of one frame every two seconds, each frame recording a complete scan. In the spacecraft itself, a Traid Model 638 Fotoperiscope relay lens was trained on the astronaut. By bending the optical path 90°, the lens facilitated installation of the TV camera in the spacecraft.



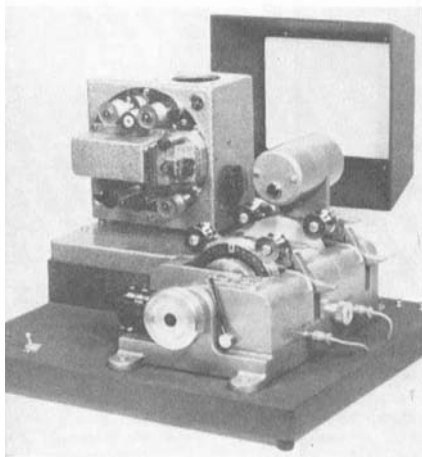
The Spectra Ground-Glass (GG) Photoreader Accessory for the Spectra Combi-500 Exposure Meter, announced by Photo Research Corp., 837 N. Cahuenga Blvd., Hollywood 38, enables correct exposure readings directly from the camera ground glass even in difficult exposure situations, such as copies, photomicrography, extreme telephotos, and photomicrography. The attachment is designed to eliminate the arithmetical calculations previously necessary for such exposures. Using the Combi-500's battery-driven CdS cell, the GG Photoreader collimates the light of the camera ground-glass image and, by means of a predetermined reference mark on the meter's calculator dial, directly indicates the correct exposure. It is priced at \$14.95.

The Monitor Series 16mm high-speed camera has been introduced by Cinerama Camera Corp., 11930 W. Olympic Blvd., Los Angeles 64. The camera features advanced techniques in design of high-speed, intermittent film transport, which includes dual registration pins for film stability during exposure. Modular design permits easy removal of the movement from the camera body for ease of maintenance and interchangeability among cameras. Intermittent pulldown is accomplished by a 4-bar linkage having an eccentric shaft as its driving member. A special bearing assembly provides maximum claw rigidity and mechanical assembly life. Double registration pins position the film both horizontally and vertically. The timing is such that the register pins enter the film before the pulldown claw has left the film. After the frame is exposed, the register pin re-

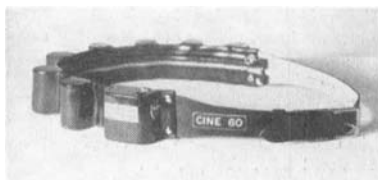
mains in the film until the claw has entered the film again.

A tandem sprocket which compensates for the lateral displacement of the coaxial film spools permits the film to enter the movement in the same plane as the aperture. This, in conjunction with the two register pins, eliminates side weave of the film to permit precise registration. Selection of frame rates (6 to 500 frames/sec) is accomplished from outside the camera by a positively locked adjustment knob.

The shutter is the balanced rotary-disc type with continuous adjustment from 6° to 130°. Shutter adjustment is accomplished from outside the camera while the camera is at a standstill. Timing of the shutter is not affected by changing the shutter angle.



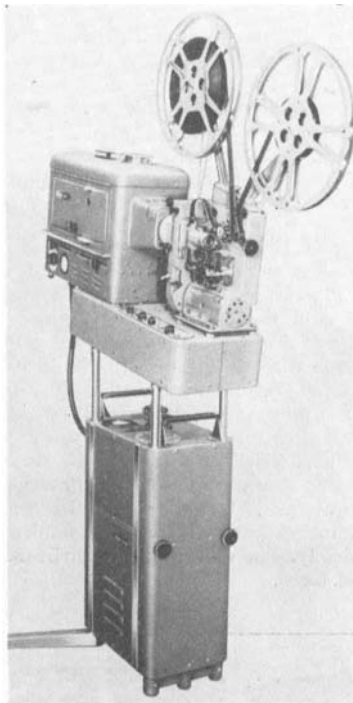
**The Precision Film Editor**, designated Model S616-2SP, introduced by Precision Laboratories, Division of Precision Cine Equipment Corp., 928-930 East 51 St., Brooklyn 3, N.Y., is described as a unitized synchronizer with combination optical-magnetic heads and model GB-16 decoupling gear assembly 1:1. A 16mm projection viewer interlocks with a base and synchronizer for exact lip-sync matching of picture to track. The unit includes a counter measuring in seconds, minutes and hours. It is priced at \$303.



**Nickad Nickel Cadmium Batteries** have been built into a power belt for Arri 16 and 35 cameras. The Cine 60 power belt, produced by Cine 60 Motion Picture Equipment, Film Center Bldg., 630 Ninth Ave., New York 36, is designed for mobility. The battery is D cell size, rechargeable and completely sealed. The power belt for the Arri 16 (8.7 v, 4 amp/hr) is \$148; the power belt for the Arri 35 (16.2 v, 4 amp hr) is \$245.

**"Superior" 3 negative film**, a panchromatic motion-picture film for indoor use, announced by E. I. du Pont de Nemours & Co., Wilmington, Del., is a high-speed,

fine-grain negative film with an ASA speed rating of 250 daylight and 200 tungsten. It is designed for general motion-picture and television studio production work to permit recording of fine-grain images under low set illumination levels or, with smaller lens openings, to increase the depth of field. It is provided in 16mm, daylight loading rolls of 100, 200 and 400 ft and in a 100-ft daylight loading roll in 35mm. There are also bulk loads.

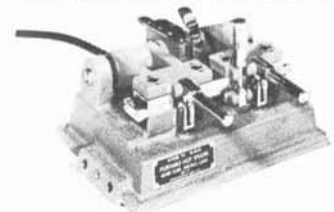


**The Victor 70-1600 16mm carbon arc projector** has replaced the Victor 1600 arc in the Kalart/Victor Series 70 line of projectors, according to an announcement from Victor Animatograph Corp., a Division of Kalart Co., Plainville, Conn. The portable three-piece unit incorporates the Series 70 optical system shutter and film drive mechanism which, along with a carbon arc lamp and selenium rectifier, delivers 1,800 lumens to the screen. The 25-w amplifier has the projector head permanently attached. Amplifier controls including a microphone jack are top-mounted. A selector switch provides 4-8-16 ohm, 70 v, 500 ohm speaker line output to balance with input impedance of theater sound systems. Features include quieter and more efficient cooling system; improved lens mount and pressure plate to allow use of "green film"; a special heat filter system for black-and-white film and still picture projection. The rectifier, which also serves as a base, operates on 105-125 v, 50-60 cycle a-c. It is blower cooled and has a selenium stack for current rectification. The unit is priced at \$2,347; without the speaker, the price is \$2,175.

**Electro-Pac "B" Sine Wave Inverters** are produced by Electro-Seal Corp., 938 North Ave., Des Plaines, Ill. From d-c input of 24, 48 or 110 v, the inverters, using all solid state components, are reported to supply 120-a-c regulated  $\pm 7\%$  over the entire input and load range with less than

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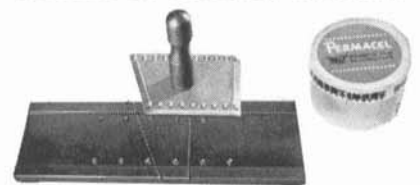
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**The Altec Model 351B**, an all-transistor power amplifier, is a product of Altec Lansing Corp., a subsidiary of Ling-Temco-Vought, Inc., 1515 S. Manchester Ave., Anaheim, Calif. Features include an integral protective trouble-indicator circuit designated "Flashguard." The amplifier uses four power transistors in the output stage, each with its emitter connected to a signal lamp at the rear of the chassis. During normal operation the light is not visible but should too high a current be drawn by any one of the transistors, even in the case of a serious speaker mismatch, the excess load is carried by the lamp, protecting the transistor from thermal runaway. At the same time the user is given an indication of trouble by an increase in the light intensity of the lamp. The amplifier is priced at \$252.00.

**Availability of the Angenieux 35mm, f/3.2 zoom lens** with a focal length range of 25mm-250mm has been announced by Zoomar International, Inc., Glen Cove, L.I., N.Y., exclusively representing Ets. Pierre Angenieux in the United States. Designated the Zoom 10 X 25, the newly developed 1:10 zoom lens is 10½ in. long with a maximum diameter of 4½ in. It weighs 5 lb 1 oz. With its long back focal

length of 2.35 in., the lens is adaptable to all 35mm motion-picture and instrumentation cameras, including reflex types.

**A low-level, quick response photometer**, Model 356, reported to be capable of measuring illumination levels of the sky within  $10^{-1}$  to  $10^{-8}$  ft-L has been announced by OPTOmechanisms, Inc., Engineers Hill, Plainview, N.Y. It is a system designed for automatic integrated and recorded readout for unattended periods up to one month in duration. Assemblies making up the system consist of a photometric detector containing the collecting optics and photomultiplier housing, with associated preamplifier; integrating computer and control assembly; a recorder, including an automatic printing device that prints the range level on paper for possible future reference; and a tripod, adjustable in height, elevation, and azimuth.

**An optical line-up film** has been devised by Producers Service Co., 1145 N. McCadden Pl., Hollywood 38, Calif., as an added service to their customers. The firm has engineered and photographed a chart that outlines the full aperture (0.720 X 0.980) and the academy aperture (0.631 X 0.868), showing the centerlines for each in their proper relation to the full-size register pin hole. The filmstrips can be used for optically lining up the camera and viewer with the projector on an optical printer at unit magnification, both horizontally and vertically. The same filmstrip can be used to check focus.

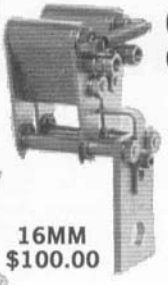
**An electronic instrument** used by the Carl Zeiss optical works at Oberkochen, Germany, for production-run testing of photographic lenses is described in the May 1963 issue of *Camera News of West Germany*, 17 East 45 St., New York 17. The instrument, in use for two years, but said to be described for the first time in this periodical, is based on the theory of contrast transfer (elsewhere called frequency-response function). The instrument uses electronics to perform the three steps in the test procedure: (1) focusing automatically by locating the maximum degree of contrast — the plane of optimum image quality; (2) indicating the plane; and (3) measuring the contrast transfer as the lens is rotated on its axis. Green and red signals on an illuminated panel of the testing instrument indicate whether the particular lens meets the prescribed quality standards.



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