

# 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.

A four-day Workshop Seminar in Animation Film Techniques, sponsored by Florman & Babb, Inc., New York, and Warren C. Portman Co., Mt. Vernon, N.Y., is scheduled for June 12 through 15. It will be held in the New York Trade Show Building, 500 Eighth Ave., New York 1. Specially priced accommodations for participants will be available at the Hotel New Yorker, across the street. The Seminar is free to anyone in the motion-picture industry, but early registration is urged by the sponsors as attendance is limited to 100. A complete program and a registration form may be obtained by writing Charles Lipow, Florman & Babb, Inc., 68 W. 45 St., New York 36.

Eight sessions will be held during the four days and will be conducted by Warren Portman, Charles Lipow and Arthur Florman. The first session will present a general outline of animation covering basic principles and terminology. Other topics of discussion will be multiple effects units, such as ripple glasses; and use of double ring compound, automatic focusing, live action zooms, and squeeze- and slide-motion techniques.

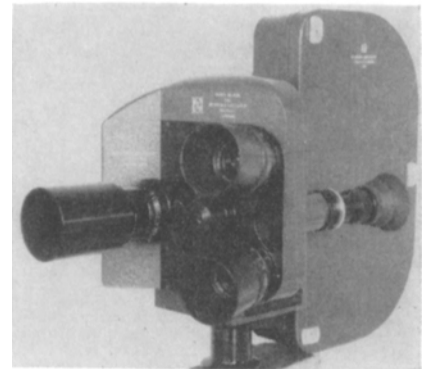
Among those from the animation field who will participate is Ernest M. Pittaro, production supervisor for TV films for Dancer-Fitzgerald-Sample, Inc., and author of *TV and Film Production Data Book*.

Pay-TV is in the news again following the successful unveiling of Telemeter toll-TV February 26 in Toronto, Can., installed by Trans Canada Telemeter, a division of Famous Players Canadian Corp., Ltd., West Toronto. ("Smash Hit" said the *New York Herald Tribune*.) About 1000 Canadian dollars dropped in the coin meters as *Journey to the Center of the Earth* came over the closed-circuit system, which has been set up to accommodate 13,000 subscribers.

The Canadian experiment seems to have revitalized the ghost of Pay-TV in the United States, somewhat laid to rest by stringent FCC restrictions. Last development of any real note was the Bartlesville, Okla., experiment (*Jour.*, 635-638, Oct. 1957). After that little was heard of Pay-TV, although a few companies continued to

develop equipment and, from time to time, hold up a finger to the wind. Jerrold Electronics Corp., of Philadelphia, which supplied equipment for the Bartlesville test, worked with Telemeter on the Canadian experiment.

Experimental Pay-TV systems fall mainly into one of two categories — closed-circuit and broadcast. Five of the main companies interested in Pay-TV, and the methods presently favored are: Blonder-Tongue Labs., "BiTran" system to substitute pay program for regular TV program by means of a telephone line key when so desired by the subscriber; International Telemeter Corp., a subsidiary of Paramount Pictures, Inc., coin-box mechanism to unscramble coded picture; Skiatron, punch card for decoding; TeleGlobe, clear video with audio over telephone lines; Zenith, decoding signal sent over the air to unscramble over-the-air programs.



The 35mm Newman Sinclair Kine Camera, Model P/400, is a portable electric camera designed to be as small and as light in weight as possible. It is a product of James A. Sinclair & Co. Ltd., 3 Whitehall, London, S.W.1. It weighs only 6½ lb, including tachometer. Dimensions are 7 by 7 by 9 in. The motor drive unit is built into the camera for battery or line current. A synchronous motor is available for outside attachment. The film gate is register pin clamping type and enables the film to be run in reverse if desired. The firm's friction-type gate is available if required. The turret front is strongly constructed and will accommodate a wide range of lenses from 18 mm to 60 in. and also zoom-type lenses.

The Nuvistor miniature electron tube (*Jour.*, p. 358, May 1959) will soon be in production, it was announced by Radio Corp. of America. TV receivers, cameras, and computing devices employing the thimble-size tube are now being built on an experimental basis.

Leasing of motion-picture equipments ranging from animation and special effects stands through zoom and telephoto lenses can be arranged under a new plan offered by S.O.S. Cinema Supply Corp., 602 W. 52 St., New York 19. The plan is said to have certain advantages over previous rental systems. An 8-page booklet, available from the firm, describes in detail the plan which, in effect, can be used as financing arrangement for major equipment.

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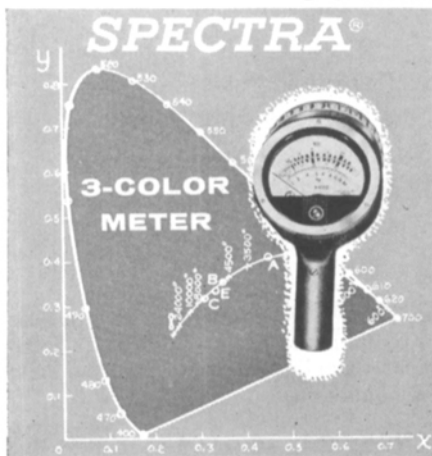


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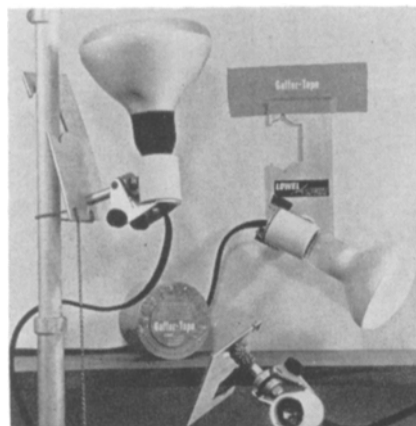
Write for descriptive literature and complete specifications.

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A 4½-in. image orthicon, the RCA-7389-A, has been announced by the Electron Tube Div., Radio Corp. of America, Harrison, N.J. It has been designed to provide superior black-and-white TV pictures within the framework of existing standards. The new tube is unilaterally interchangeable with the 7389. Despite the increased size of its image section, the 7389-A uses the same optics and the same optical-image size required for 3-in. tubes.

New target material has been employed by the Electron Tube Division of Westinghouse Electric Corp., Box 2278, Pittsburgh 30, in the development of an image orthicon with increased life expectancy. The new tube is said to be virtually immune to image retention and is warranted by the firm for a minimum life of 1000 hr. It is now in production at a suggested price of \$1470.00.



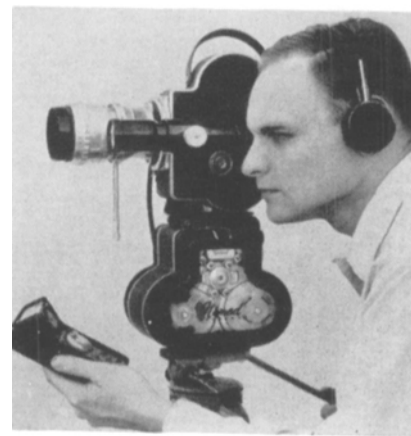
The Lowel-Light, a compact lighting unit that can be taped directly to walls, windows and flat surfaces with a special Gaffer-Tape is a product of Lowel-Light Photo Engineering, 421 W. 54 St., New York 19. A notch and chain device is used to lock the unit on stands, pipes, furniture, doors, etc. A swivel design, with heat-insulated finger grips provides directional control. The price of \$6.95 a unit includes a supply of the special tape.

A building block switching system designed to permit simultaneous multiple circuit switching, with a reduced investment in switching equipment has been announced by Telecontrol Corp., 1418 W. 166 St., Gardena, Calif. Key to the system is a remotely controlled multiple-circuit rotary stepping switch. Switching is accomplished within a one-inch radius, designed for video switching with extremely low capacitance. Three basic systems incorporating the switching design are presently available: program switching systems, distribution switching systems and special-effects input switching systems. The systems can be custom-assembled to any station's individual requirements.

A close-up adapter for the Super Universal Zoomar Lens produced by the Television Zoomar Co., 500 Fifth Ave., New York 36, is designed especially for television tape and live commercials. Another newly announced converter for the lens has a range of 12 in. through 72 in. and is used for news photography and sports events.

A versatile new zoom lens with a wide focal range (2 in. through 40 in.) has been announced by Taylor, Taylor & Hobson of Leicester, a Division of Rank Precision Industries Ltd. Designed specifically for television cameras, the lens is expected to have useful application to color television. Sole agent in the United States for this and other Taylor, Taylor & Hobson products is Albion Optical Co., 1410 N. Van Ness Ave., Los Angeles 28.

A lamp for television studios, designed for flexibility and versatility, has been announced by Mole-Richardson of England (a branch of Mole-Richardson, 941 N. Sycamore Ave., Hollywood 38.) The housing of the lamp, which has been named the Dualite, is a strong sphere made of glass fiber. It will accommodate either a 1-kw or a 2-kw bipost bulb. The 12-in. Fresnel lens can be interchanged with a diffuser so that the lamp can be used either as a spot or a flood. Optional accessories include devices for controlling tilt, pan, focus, switching and barndoor setting by means of a pole from the floor. The lamp weighs 29 lb. It was first installed at the ABC Studio, Teddington, England. The firm has also announced a new microphone boom that can swing through a 360° angle. It is built with a circular platform to enable the operator to move freely with it.



The Magnasync Nomad, a product of Magnasync Corp., 5546 Satsuma Ave., North Hollywood, is a portable (7-lb) recorder-reproducer sound system that can be attached to any camera or projector. The camera and recorder-reproducer are interlocked through a flexible cable with the camera driving the recorder. The record-play amplifier is transistorized with self-contained rechargeable batteries. For lengthy sequences a d-c motor can be attached to drive both recorder and camera through a flexible cable. The recorder uses split 16mm magnetic film and has a twin-track record head and playback head wide enough to scan both tracks. The unit includes a hand mixer which contains a VU meter, record and playback controls, film-direct monitor switch, battery test provision, microphone input and earphone output jack. For playback, the recorder-reproducer and projector are interlocked through a flexible cable. When a magnetic projector is used, a 1:1 transfer from recorder to a magnetically striped film can be made while both units are tack-shaft interlocked. The unit is priced at \$585.00.

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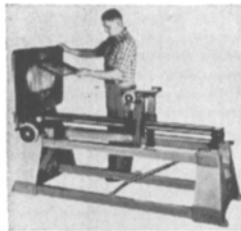
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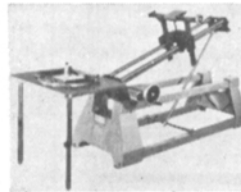
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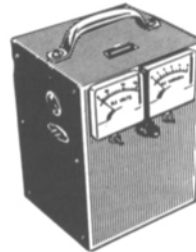
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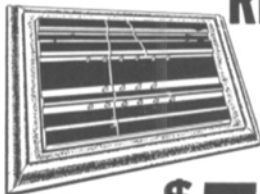
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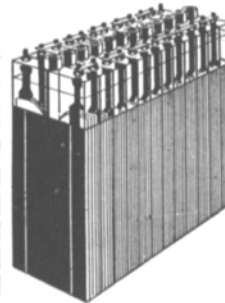
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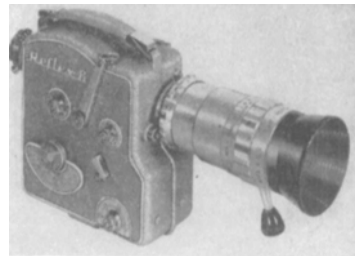
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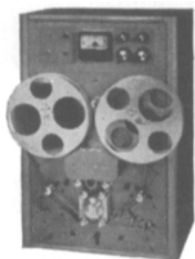
*Mole-Richardson Co.*

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The Camex Reflex 8, a single-lens reflex camera featuring continuous through-the-lens viewing and focusing while filming is described in detail in a folder available from Karl Heitz, Inc., 480 Lexington Ave., New York 17. The camera can be used with interchangeable lenses from 6.25mm up to 145mm super-telephoto (12X magnification) and with close-up attachments focusing down to one inch. The camera can also be used for microcinematography, macrocinematography and endoscopic cinematography when adapted with suitable attachments. The camera is equipped with a warning signal which indicates the beginning and the end of a usable 25-ft film run. A black zone on the footage counter indicates the unusable part of the film. Coupled to it is a black marker which appears in the lower half of the reflex image. It remains visible during the run of the film leader, then disappears automatically and appears again at the end of the usable film run. Prices range from \$179.00 through \$359.00, depending on type of lens and attachments. A charge of \$20.00 is added for synchronization for electric flash.

Announcing a remarkable new heavy duty magnetic film recording/dubbing system that makes all others obsolete by comparison. The automatic S-7 is an outstanding engineering feat introducing a new free wheeling clutch driven film One man can operate units. Threads over magnetic, below for sound. Automatic turn-off, rewind, etc. Transistorized electronics. Write to:



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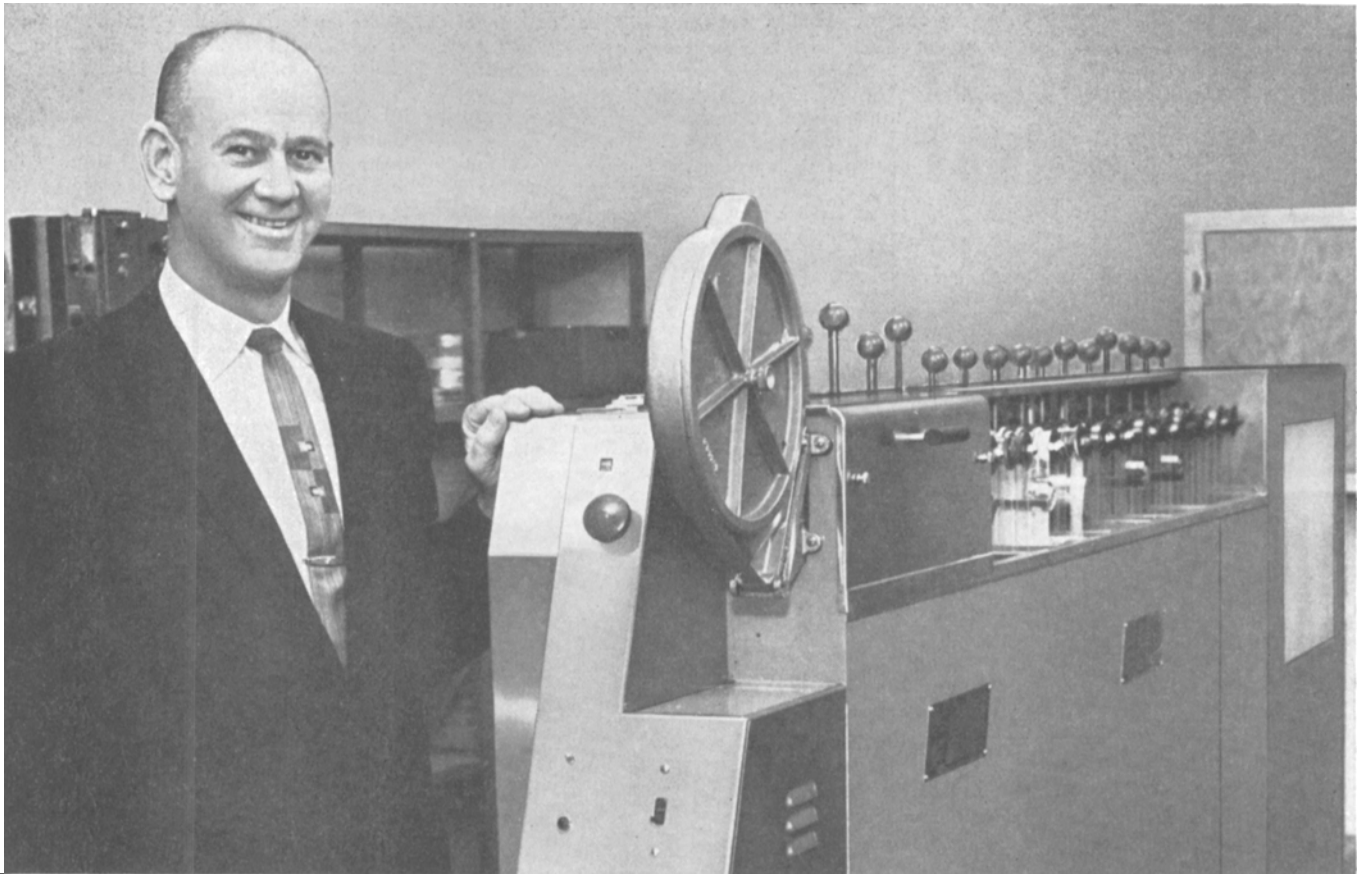
921 N. HIGHLAND AVE., HOLLYWOOD 38, CALIF. (EXPORT: FRAZAR & HANSEN LTD.)

See Cinemiracle (Los Angeles, Chicago, New York, London, Oslo, Munich) — 20th Century-Fox, Convail, RCA Photophone, Africana TV, Helsinki U., Crawley Films (Canada) and many others specify S-H equipment.

A solid state transistorized power supply has been developed by Autotronics Inc., Dept. 23, Box 208, Florissant, Mo., for use in its own laboratory, with commercial production being considered. Dimensions are 5 by 5 by 6 in. Electrical specifications include: input voltage, 95-v to 135-v a-c, rms 60-c single-phase; output voltage range, 0-50-v a-c, continuously variable; output current, 0 to ¼-amp d-c; regulation, 0.02% no load to full load; drift, after initial stabilization period of 15 sec, output voltage does not change more than 0.07 v about chosen setting; line regulation, 0.01% for a 35-v rms change in input voltage, the output voltage changes 0.002-v d-c.

A solid-state power supply, Model PS1, designed to operate from input voltage of 85-v to 250-v a-c, 50/60 c, has been announced by Stancil-Hoffman Corp., 921 N. Highland Ave., Hollywood 38. The unit supplies a regulated 117-v 400-c a-c and 28-v d-c held to  $\pm 2\%$  from no load to full load. Height of the unit is 21 in. and weight, about 150 lb. It is priced at \$2700.

Additions to the line of TapeStrobes, devices for measuring the speed of magnetic tape, have been announced by Scott Instrument Labs., Inc., 17 E. 48 St., New York 17. In addition to its standard 7½, 15, 30 ips Model A, the firm now offers a standard 3½, 7½, 15 ips Model B. A special step-down adapter (Model W) adds the additional speed of 3½ ips to Model A and 1½ ips to Model B.



*Travis Burton, President Educational Enterprises, Tyler, Texas*

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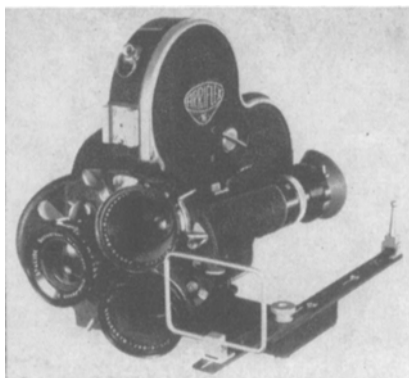
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An anamorphic lens designed to convert any 16mm projector for the showing of CinemaScope wide-screen motion pictures has been announced by Victor Animatograph Corp., Division of the Kalart Co., Plainville, Conn. The lens, called the Victorscope, is also designed for use as a supplementary camera lens for photographing in CinemaScope by means of a special adapter. The lens is attached to the projector by brackets. It is priced at \$169.00.

Portable hot splicers, formerly distributed by Bell & Howell Co. as Models 198A and 198B, are now exclusively distributed by Traid Corp., 17136 Ventura Blvd., Encino, Calif. The splicers are now designated Model 116 for 16mm and 8mm film and Model 135 for 35mm and 16mm. The splicers feature a built-in automatic scraper assembly.

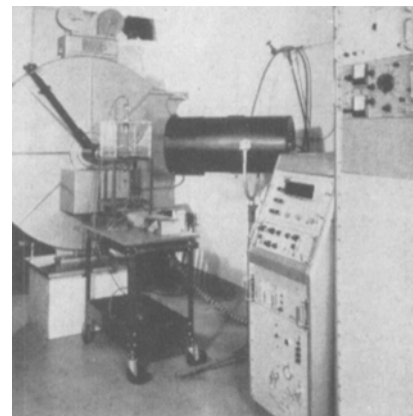


A dual-purpose, open-frame tracking finder for chase-plane use and sports reporting, designed for use with Arriflex cameras, has been announced by Birns & Sawyer Cine Equipment Co., 6424 Santa Monica Blvd., Hollywood 38. The device is a lightweight target sight adjustable for both 25mm and 50mm lenses. The assembly mounts to the camera by means of a pistol grip or other tripod stud. Both front frame outline and rear target sight collapse on a spring-loaded mount when not in use. It is priced at \$49.50.

A magnetic reproduce unit for Kodak Pageant Sound Projectors has been announced by Greg, Box 11, Eastside Station, Binghamton, N.Y. Described as a conversion unit to adapt optical sound projectors to reproduce magnetic soundtracks on 16mm film, it is designed for ready installation on the projector. The magnetic head scans at the standard point at 28 frames ahead of the picture. It has an impedance of 100 ohms, an inductance of 12 mh, and a gap of 0.0005 in.

A flexible 8mm projector system consisting of the Agfa Sonector-8 projector used with either of two attachments has been announced by Agfa, Inc., 516 W. 34 St., New York 1, N.Y. One attachment is called the Sonector-Phon and is used for playback from a magnetic soundtrack on the film, the other, the Synchronovox is used to synchronize sound with action in the motion picture. The projector with the sound-on-film attachment is priced at \$299.00. The synchronizing attachment, sold separately, is priced at \$58.00.

The Pantel series of professional telephoto lenses, manufactured exclusively for Traid Corp., 17136 Ventura Blvd., Encino, Calif., may be used with 16mm, 35mm and 70mm cameras. Focal lengths range from 4 in. through 24 in. Optical surfaces are coated with magnesium fluoride antireflection coating on metal surfaces are anodized. The lenses are equipped with precision mounts for a number of cameras with mounts for others available on special order. Prices range from \$139.00 through \$595.00.



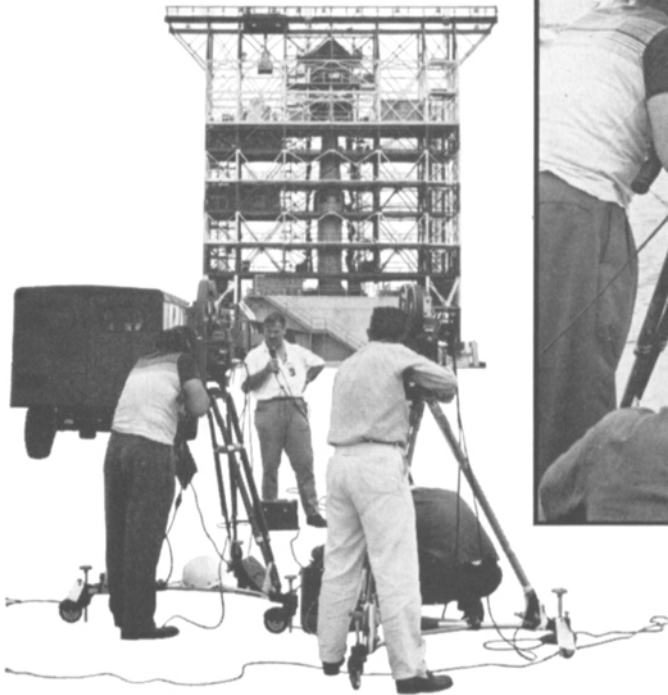
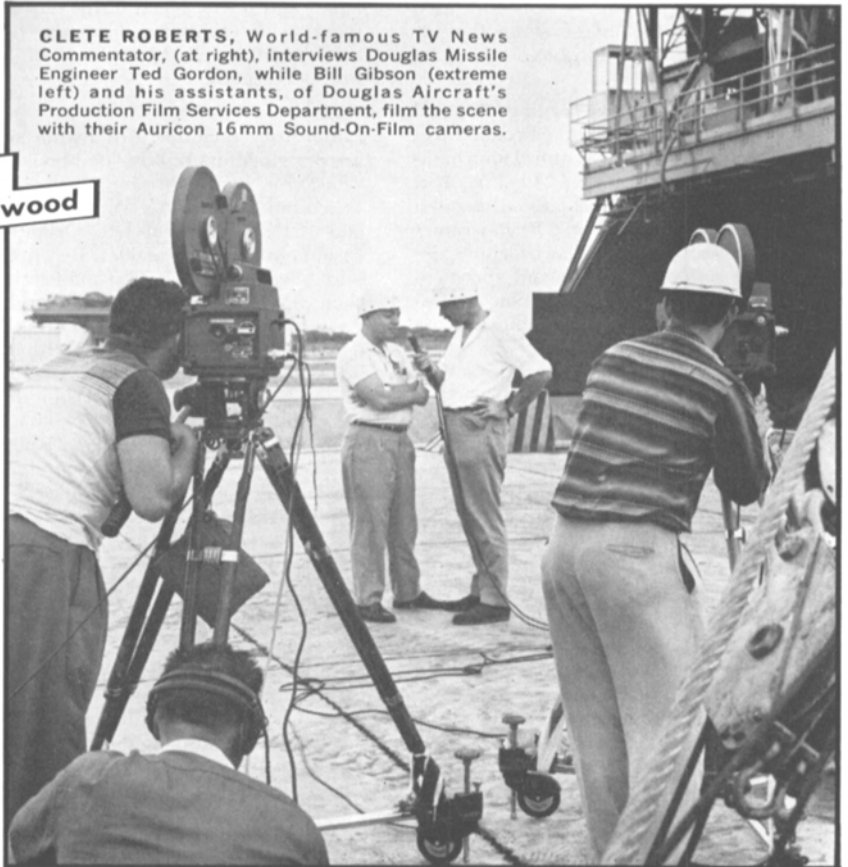
A stationary-film camera capable of a speed of more than 1½ million frames/sec is manufactured by the Benson-Lehner Corp., 1860 Franklin St., Santa Monica, Calif. Developed by Albert T. Ellis (*Jour.* p. 360, May 1959), the camera is known as the Ellis Ultra Speed Camera. Its speed is such that an event of one-second duration photographed by this camera would if projected at the standard projection rate of 16 frames/sec, seemingly have a duration of 28 hours. This speed makes possible many advanced scientific and industrial studies of such phenomena as explosions, combustion, vibration, impact, fatigue in metals, and events otherwise invisible.

The complete camera system consists of four units: camera, camera-control unit, light-control unit and flashlamp. The lighting is provided by a General Electric Type FT 623 flashlamp. The camera has a film box shaped like a large disc with feed and take-up magazines placed at the top. The objective and shutter assemblies are situated at the front end of the disc's center axis, and a high-speed air turbine and a revolving mirror are located at the rear end. A radial focusing periscope is attached immediately behind the tubular lens assembly. The Kerr cell shutter unit consists of two polarizing filters, one on either side of a 1¼-in.-diameter cell containing nitrobenzene and two nickel electrodes which produce a controlled electric field. The 1¼-in. Kerr cell produces an effective shutter aperture of ¼-in. When light rays pass through the Kerr cell shutter, two optical lenses transmit the image to a rotating mirror in the film box. The 35mm film lies, with emulsion side inwards, at the periphery of the circular film box. The rotating mirror is a wedge-shaped piece of nickel-plated aluminum attached to the shaft of a 100,000-rpm variable speed, compressed air turbine. Mounted at the center of the circle, with its face at a 45° angle to the axis of rotation, the mirror directs the



**Auricon  
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**CLETE ROBERTS**, World-famous TV News Commentator, (at right), interviews Douglas Missile Engineer Ted Gordon, while Bill Gibson (extreme left) and his assistants, of Douglas Aircraft's Production Film Services Department, film the scene with their Auricon 16mm Sound-On-Film cameras.



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**films "Quick-Look" Progress Reports**

**...with AURICON 16mm Sound-On-Film RELIABILITY!**

**AURICON SUPER-1200 SOUND-CAMERA FEATURES:**

- ★ Full-Frame Ground Glass Focusing Optical System. No camera weight shift when moving from focus to film shooting position.
- ★ Jewel-hard Sapphire Film Gate for frictionless operation and scratch-free pictures.
- ★ Auricon is the Quiet One — no "blimping" is required.
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- ★ Optional Optical or Filmagnetic Sound-On-Film.
- ★ ... and many other features!

During the critical count-down and through the thunderous and fiery launchings of the Air Force Thor Missile at Cape Canaveral, every detail of these space technology achievements is faithfully recorded with sound and color film. Auricon 16mm Cameras, operate by remote control within 200 feet of the searing blast of the rocket engines!

The reliability of Auricon Sound Cameras is a vital factor in providing Air Force officials and Douglas Top Management with "Quick-Look" Progress Reports of the very successful missile firings of the Thor IRBM. In less than 72 hours from "zero-time" at Cape Canaveral, Florida, the Filmed Progress Report is flown to California, processed, edited, titled, and made available for viewing and technical evaluation. Auricon missile-launching sound films are produced for as little as \$200 per film ... a tiny price for fast, comprehensive, and truly graphic reporting!

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**MANUFACTURERS OF SOUND-ON-FILM RECORDING EQUIPMENT SINCE 1931**

light rays to the stationary film and, as it revolves, carries the image along the circular periphery of the film box.

**The 8-ton ROTI (Recording Optical Tracking Instrument)** (George Economou et al., "Automatic-exposure control for a high-resolution camera," *Jour.*, 249-251, Apr. 1958) is described in a 12-page illustrated brochure available from Perkin-Elmer Corp., Norwalk, Conn. The brochure describes operational features and specifications and illustrates the resolution obtainable with the system. A mobile missile tracking system known as TPR (Telescopic Photographic Recorder) is also described.

**Schneider Lenses** is a 26-page illustrated catalog containing descriptions and specifications of various types of Schneider lenses and other equipment available from Burleigh Brooks Inc., 420 Grand Ave., Englewood, N.J. It is priced at 25 cents. General purpose lenses described in the catalog include Xenar Xenotar, and Symman. Wide-angle lenses include the Angulon and Super-Angulon. Telephoto lenses include the Tele-Xenar and Tele-Arton.

A new department, **Photographic and Industrial Optics Sales**, has been created by Bausch & Lomb Optical Co., Rochester 2, N.Y., to integrate within one department sales of all motion-picture equipment handled by the company: the Balcold reflector, CinemaScope and Cinephor projection lenses, Baltar lenses and specialized

lenses and filters. Head of the new department is E. F. Day, formerly head of the company's Photographic and Special Products section.

**Laboratory facilities and studio services** are described in an illustrated booklet published by Byron Motion Pictures, 1226 Wisconsin Ave. N.W., Washington, D.C., and 1220 E. Colonial Dr., Orlando, Fla. In announcing the booklet, Byron Roudabush, President, said that publication had been delayed five years to include descriptions of new developments and additional services, such as Arri color developing and printing process (Robert E. Johnson, "First U.S. installation of Arri color developing equipment," *Jour.*, 599-603, Nov. 1956); Westrex sound system (Robert W. Eberenz, "An integrated sound service studio for the 16mm producer," *Jour.*, 332-335, May 1959); and other services such as automation and electronic control system, 35mm facilities and high-speed negative spray processing.

**Rewind**, a monthly publication of General Film Laboratories, 106 W. 14 St., Kansas City, Mo., presents in its January 1960 issue an article on printing 35mm color. A special feature of this publication is a Flow Chart (two pages in color) of Optional Color Processing Procedures at General Film. The chart is an excerpt from General Film's illustrated brochure, *Color Motion Picture Services*, available from the company upon request.

**Recording Products, High Power and Nucleonics Department:** This is a new department created for the development of advanced types of recording devices for the broadcast industry, for business office data processing and other applications by Radio Corp. of America. Head of the new department is M. A. Trainer.

**A plant designed specifically for Teflon**—its machining, fabrication and application is described in *Plastips* published by Tri-Point Plastics, Inc., 175 I.U. Willets Rd., Albertson, L.I., N.Y. The leaflet offers information on industrial plastics. The February 1960 issue describes the step-by-step machining of components made of Teflon, a du Pont product. The firm is presently engaged in molding this plastic for engineering and research applications.

**A Navy contract** for an undisclosed number of photographic tracking systems to be used at the Pacific Missile Range has been awarded Gordon Enterprises, North Hollywood, Calif. The units, now under construction, will weigh approximately one ton. Designed for precision and mobility, each will support four high-speed tracking cameras with focal lengths up to 180 in. The operator will be seated on the camera mount and will move with the camera as it tracks the missile.

**Protect-a-Print**, a film base specifically designed to run through cameras, projectors, or readers for cleaning purposes, a product of Photographic Specialties, of Hollywood, is distributed exclusively by Flight Research, Inc., P.O. Box 1-F, Richmond 1, Va. The product is reported as tested both for cleaning effectiveness and safety, and as having a negligible factor of wear, even on glass aperture plates. It has been designed as a fast-cutting abrasive against relatively soft materials such as dirt and built-up film emulsion, using a special cleaning power which is incorporated in the material and is described as breaking into power much finer than jewelers' rouge when it comes in contact with hard surfaces. This product is supplied in units of individually packaged rolls with prices beginning at \$60.00 for a 16mm 500-ft roll.

**Ultrasonic cleaning** is used by Eastman Kodak Co. to clean the coil assembly of the exposure meter used in the Brownie Staromatic Camera and for other applications where chemical and mechanical cleaning methods cannot be used. Ultrasonic cleaners work by cavitation. Pressure pockets, formed by sound waves traveling at high frequency through the water in the cleaning tank, implode against any solid surface in the water, loosening the dirt. A detergent counteracts the acid chemical washed off the coils and the assemblies are rinsed in another tank. A typical ultrasonic unit consists of a tank filled with solution (usually water), a source of high-frequency electricity, and a transducer. The transducer is a ceramic slab, or a laminated combination of metals in a magnetic field, that vibrates when electricity is passed through it.

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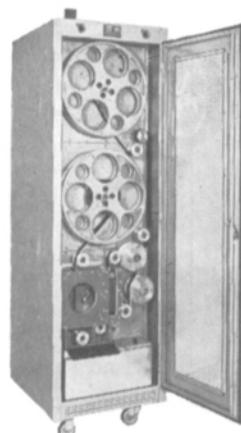
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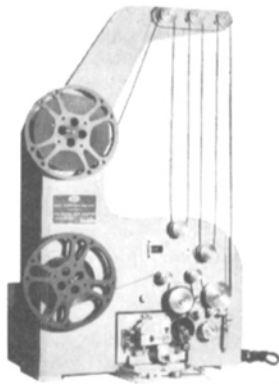
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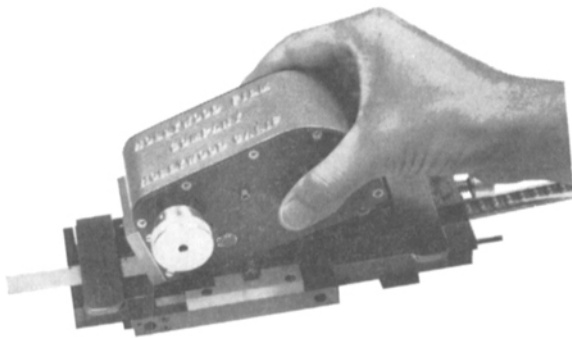


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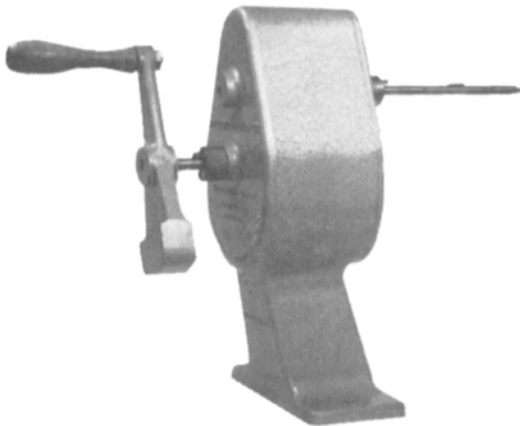
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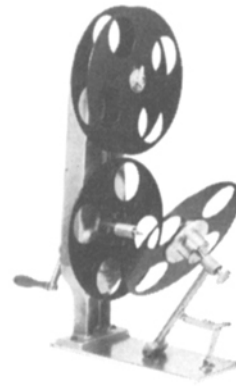
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NUMBERING  
MACHINES**



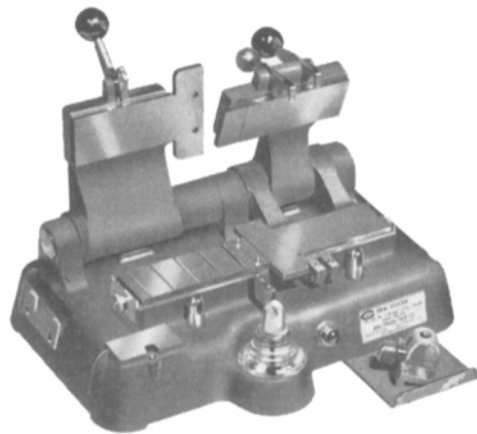
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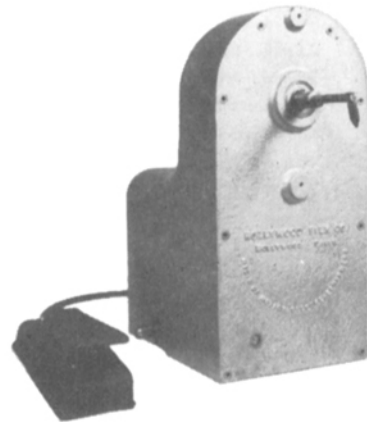
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