

# 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 method of producing television programs on tape that permits electronic editing (or mixing) of taped scenes and sounds has been announced jointly by Reeves Sound Studios, 304 E. 44 St., New York, and Radio Corp. of America. The new method involves the use of pre-recorded tapes bearing picture information from any number of cameras, along with the soundtracks.

Major elements of the system are eight RCA television tape recorders, two of which are equipped for color; one color and two monochrome live cameras; one monochrome and one color film chain with 16mm and 35mm projectors and slide projector; three electronic editing (mixing) rooms; and a master control room. The tape machines can be used as playback machines to provide picture sources, as well as recording machines to record the finished product. The live and film cameras are for additional picture and sound sources that may be integrated with taped material.

Each mixing room contains a newly designed transistorized switching system reported to switch from picture to picture in one-millionth of a second. Dissolve and effects amplifiers are associated with the switchers for picture mixing. The tape machines, live and film camera chains, and picture sources from outside of the building will be connected as the input picture to each of the switchers in the editing room, while director and editors view the picture inputs and final picture on monitors in the mixing rooms. The outputs of the mixing rooms are then connected to the tape machines to record the edited pictures. The master control will be a switching and monitoring point to interconnect major elements of the system such as mixing rooms to tape recorder inputs, outside lines to mixing rooms, etc. The master control will also monitor technical quality and control video operation of live and film camera chains.

The equipment, supplied by RCA, will be assembled in a rental studio, scheduled to be opened in the Fall, which will supply service facilities comparable to the Reeves Sound Studios' facilities for motion-picture and record firms.

A merger of Orr Industries, Inc., formerly Orradio Industries, Inc., manufac-

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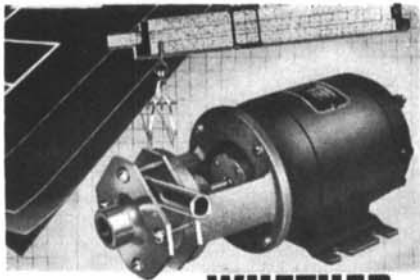
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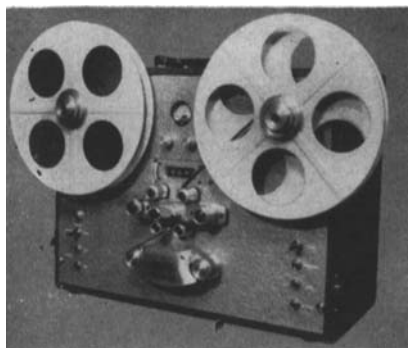
**OSCAR  
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turers of magnetic tape for audio, computer and video uses, and Ampex Corp. was approved at the annual meeting of Ampex stockholders. Terms of the merger provide that shareholders of Orr Industries will receive one share of Ampex common stock for each 2.2 shares of Orr Industries stock. During the last two years, Ampex has acquired about 25% of Orr Industries shares and during the last year has supplied management assistance to the Orr plant in Opelika, Ala.

**Price of the Red Lake 35mm Stop Motion Projector** (*Jour.*, p. 444, June 1959) is \$1495.00. The price was erroneously published as \$149.00. The *Journal* regrets the error.

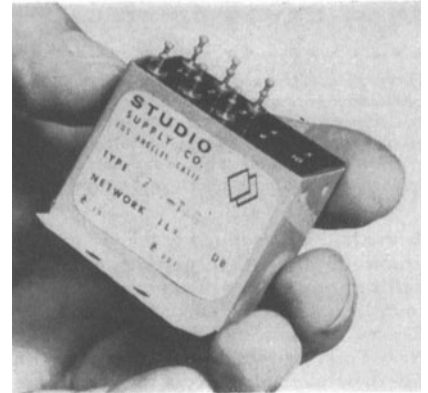


**The Norelco Continental "400"** (Model EL 3536), 4-track stereo record and playback tape recorder has been announced by the High Fidelity Products Div. of the North American Philips Co., Hicksville, L.I., N.Y. Engineered and manufactured by Philips of the Netherlands, the recorder features 4-track stereo and monaural record and playback for tape economy. The recorder will also play back 2-track stereo tapes. The recorder has three speeds, 7½, 3½ and 1½ in./sec and piano-key controls. It is compatible with conventional pre-recorded tapes.

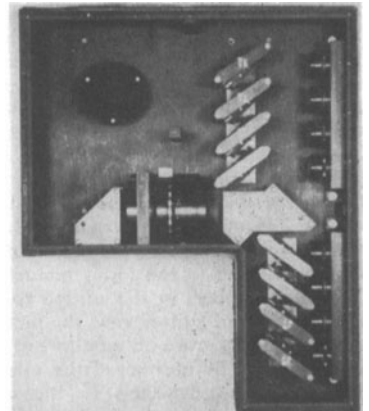


**A portable magnetic film recording system** for studio and location work has been announced by Wide Range Recording Corp., 527 No. Grand Blvd., St. Louis 3, Mo. The unit, Model 1017-BC is designed to record and reproduce on either 16mm or 17.5mm film. A two-channel head is incorporated to make possible the recording and reproducing of center and edge tracks on 16mm film without changing parts. The desired track is selected by turning a switch. The speed control relay for the drive motor is designed for versatility so that when the proper switch is set for the desired film speed, the film will run at either 36 ft/min

or 12 ft/min for 16mm film, and 45 ft/min or 90 ft/min for 17.5mm film. The unit incorporates a bias oscillator of the L-C tuner-grid type, operating at 60 kc and employing one 12AU7 tube operating in push-pull. The total distortion appearing at the oscillator output terminals is said to be less than 0.10%. All functions of the recorder are relay-actuated through interlock pushbutton circuits. Prices on the firm's 16mm-17½mm equipment range from \$2800.

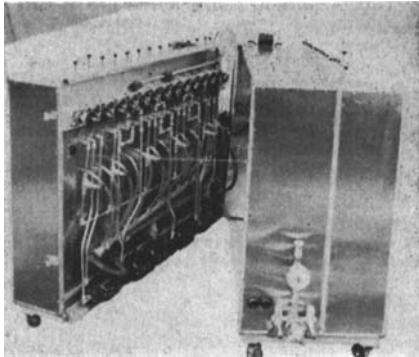


**A new type of "split-out"** for feeding a single source to two or more fully isolated loads has been announced by Studio Supply Co., a division of Studio Electronics Corp., 711 S. Victory Blvd., Burbank, Calif. The device is designed to combine networks for such uses as complete recordings of two or more independent sources, such as making monophonic recordings simultaneously with 2- and 3-channel systems without disturbing the independent stereo channels.

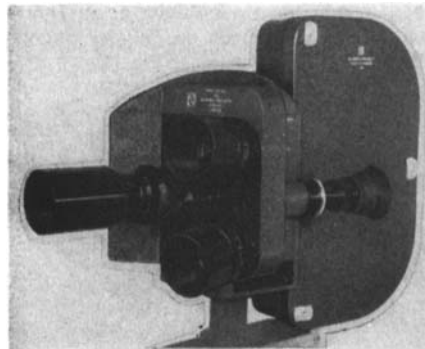


**The FS Multiple Reduction Optical System** for black-and-white reduction printing has been announced by Fish-Schurman Corp., 70 Portman Rd., New Rochelle, N.Y. The system is designed to produce eight 16mm images from a single 35mm negative. Essentially it consists of a long focal length lens which produces a virtual image of the 35mm negative at an infinite distance. This parallel beam system is split into two sections of equal illumination by means of a beam-splitting cube. Each one of these sections is then split into four equally illuminated parts by three beam splitters and a first-surface mirror for each section. The eight equally illuminated parts are then passed through eight short focal length lenses, and each lens provides a

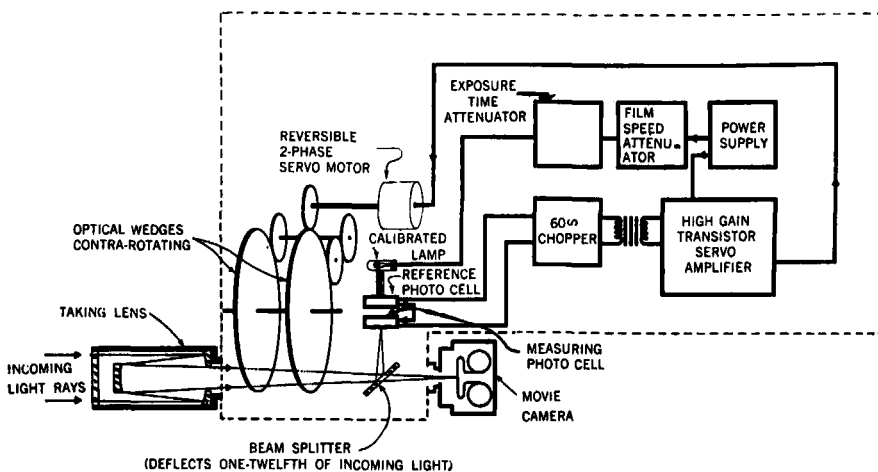
reduced image of the 35mm negative. All of these images are formed in line on a single plane, which simplifies the design of the eight 16mm micromechanisms. The 35mm negative is illuminated by a special lamphouse consisting of a four-element condenser system, a two-element relay lens and a single-element field lens. An infrared transmitting, visible light reflector is provided to remove infrared radiation from the light beam. The lamphouse also contains five neutral filters, each operated by a solenoid for 32-step light control.



The portable electric 35mm Newman Sinclair Kine Camera has been announced by James A. Sinclair & Co. Ltd., 3, Whitehall, London S.W.1. It is distributed in the United States by Paul Ivano, 8469 Hillside Ave., Hollywood. Overall dimensions of the camera, designed to be as small and light as possible, are height, 7 in.; width, 7 in.; length, 9 in. It weighs 6½ lb, including the tachometer and footage indicator. The camera can be supplied with standard friction or double register pin clamping type of film gate which enables the film to be run in reverse if desired by simply changing polarity of the battery leads. Film magazines, available for 200 ft or 400 ft of film, are attached to the camera by a simple push-on movement.

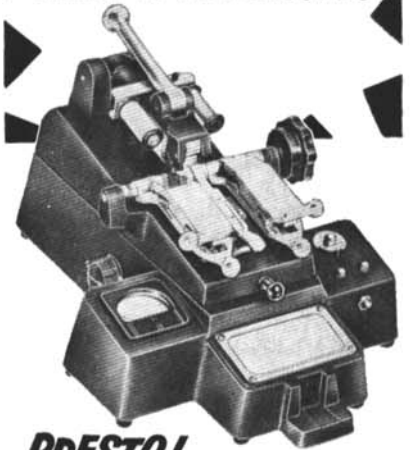


A compact, portable versatile processor for Kodachrome, Anscochrome, Kodacolor, Ektachrome and black-and-white has been developed by the Time Automated Mfg. Co., 69-03 Woodside Ave., Woodside 77, N.Y. Called the Process Master, the processor is about 7 ft long, 3 ft wide and 4 ft high and weighs approximately 950 lb. For easy portability the machine is mounted on neoprene tread casters and by the removal of a single hinge pin can be separated in two parts for convenient handling. When separated into two parts the left half with the drybox remains operational and can be used for the less complicated process. This design also permits ease of maintenance with ready access to all pumps, electric fixtures and plumbing. The tanks are all of 316 type stainless steel. While the fittings are plastic. Teflon bushings are used on all rollers and on all moving parts submerged in the photo-chemicals. Air-knife squeegees are installed before each of the printing heads and the drybox. Temperature controls are maintained to  $\pm \frac{1}{4}^\circ$  by thermostatic controls. Speed of processing is from 0 to 100 ft/min depending on the film processed. 16mm Kodachrome is processed at 15 to 17 ft/min. Other 16, 35 and 16/35mm machines are planned.



The Zoomar-Trulex, a device for automatic exposure control through the camera lens, is a product of Zoomar, Inc., Glen Cove, L.I., N.Y. The transmission compensation is achieved by two counter-rotating optical wedge discs. A beam splitter, absorbing 8% of the main light flux, works in conjunction with a computer and a built-in transistor amplifier for exposure control. The instrument, which weighs 7 lb,

has a brightness range of 7 stops and a power requirement of 110-v a-c 25 w. The minimum operable focal length lens is 6 in., and no limit has been placed on the maximum operable focal length lens. It is designed for use with phototheodolites, tracking cameras, tracking telescopes, etc. It is priced at \$3600 and can be delivered as an integral part of any Zoomar Reflector Assembly.



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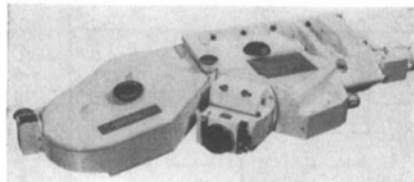
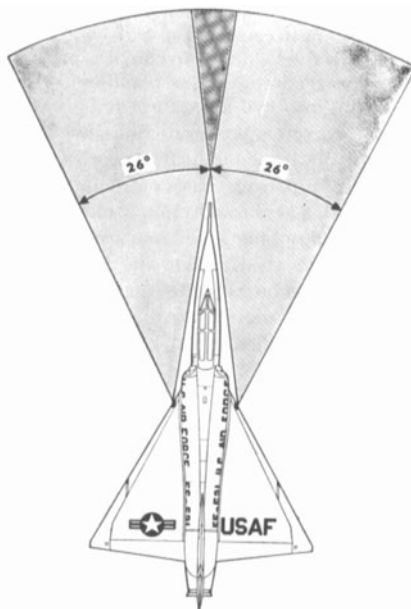
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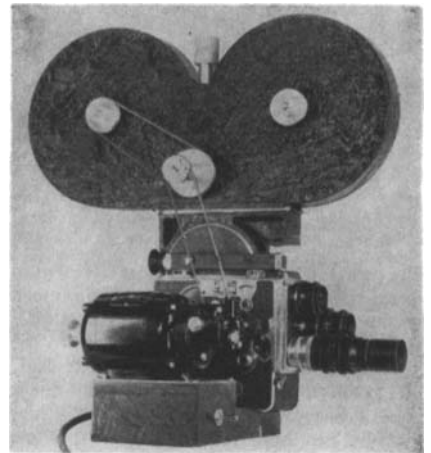
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A three-element lens made with three glasses chosen from a graph based on an optical formula devised by Max Herzberger of Kodak Research Laboratories is reported to be corrected for light from the ultraviolet to the infrared, or from 365 to 1010 m $\mu$ . The lens, called "superchromat" has been incorporated in telescope objectives; and work leading to its use for corrected camera lens and infrared optical systems is being carried on. The new optical formula differs from usual dispersion formulae in that it is linear. The dispersion formula depends upon four data for a given kind of glass. Given these constants, refractive indices for any wavelength of light can be computed. Two of these data, plotted against each other, give the curve from which the glasses for a "superchromat" are chosen. If optical characteristics of any three glasses fall in a straight line on this graph they will form a "superchromat" when correctly combined in a lens.



A special wide-frame strike camera for fire-control evaluation on the Convair F-106 delta-wing jet interceptor is produced by Benson-Lehner Corp., 11930 W. Olympic Blvd., Los Angeles 64. Announced as the first of a series, the camera is a 35mm, 400-ft capacity unit with a 1- by 3-in. format and a 6-in. lens. It is equipped with the necessary correlation systems, timing lamps and fiducial marks to give accurate metric information. Left- and righthand versions are designed to fit into the cambered leading edges of the Convair plane so that their angles of view overlap slightly. The two cameras make a simultaneous record during the fire-control period and give a combined panoramic view of about 52°. It is possible to have both a missile and target in camera view from launch to strike even though ranges may be from 10,000 to 20,000 ft.

A Kodak film called Linagraph Shellburst is used at the University of California to record tracks of high-energy atomic particles, such as pi mesons, in a "bubble chamber" which contains 150 gal of liquid hydrogen. The particles, emerging from the University's 6-billion-volt Bevatron, are piped to the bubble chamber. As they pass through the hydrogen they leave streaks of bubbles similar to jet vapor trails. The streaks are then photographed through the chamber's 5-in.-thick optical glass cover. Photographs made recently indicate the presence of strange particles of antimatter called antilambdas. One of these photographs has been shown at an International Conference on High Energy Physics in Kiev, Russia.



The TCE (Toledo Cine Engineering) line of Bolex 400-ft magazines and accessories is now manufactured and distributed by S.O.S. Cinema Supply Corp., 602 W. 52 St., New York 19. The 400-ft magazine unit uses a saddle block permanently mounted to the Bolex camera with a light-tight cap when the magazine is not in use; 115 v synchronous motor for 24 frames/sec sound speed; recessed rollers for film protection; footage counter; gearbox with safety disconnect; motor/camera mount and On-Off reverse switch.

A new Elwood Foto-Meter, Model 92, similar to, but in a lower price range than the earlier Model Z-4 (*Journal*, p. 364, May 1958) has been announced by Foto-matic Corp., 2603 Kessler Blvd., N. Drive, Indianapolis 22, Ind. The new exposure meter is calibrated for ASA Film Indexes from 1.0 to 16,000; for lens stops from  $f/1$  to  $f/45$ ; lens speeds from 30 sec to 1/2000 sec; for motion-picture cameras at 8, 16, 24, 32, 48, and 64 frames/sec; for LVS (or EV) system, and for Polaroid. The scale in the meter view is marked off in increments of 1 through 13, each number being equivalent to one lens stop change on the camera. It is priced at \$47.50.

The Stereo Edition of *Understanding High Fidelity*, a handbook published by Bogen-Presto, a division of The Siegler Corp., Box 500, Paramus, N.J., describes in detail the components required for a complete high-fidelity system. The booklet distinguishes between stereophonic and monophonic systems in relation to the results which may be expected from each. The 64-page booklet includes a 4-page

glossary of technical terms and is illustrated by photographs and diagrams. It is available from dealers or directly from the firm at 25 cents a copy.

**Marconi's Wireless Telegraph Co., Ltd.,** and **English Electric Valve Co., Ltd.** have announced appointment of **Ampex Corp.** of Redwood City, Calif., as authorized distributor in the United States of their sound and vision equipment and TV camera tubes. The agreement includes sale of the new Marconi MK.IV TV camera, which uses either 3-in. or 4½-in. image orthicons.

**A new mount for the Angenieux 18.5mm f/2.2 wide-angle lens** has been designed by **Gordon Enterprises, 5362 Cahuenga**

**Bldv., North Hollywood, specifically for use on Arriflex 35mm cameras.** The 7-element lens provides extreme depth of field with a minimum of distortion. Optical surfaces are coated, and the diaphragm supplied with click stops. A resolution test film is supplied with all lenses.

**A device to produce short-focus projector lenses for 35/70mm motion-picture installations** is a product of **Vicom Inc., 70 Aberthaw Rd., Rochester 10, N.Y.** Called the Short Focus Adapter, it was designed primarily to function jointly with lenses in focal lengths from 3.5 in. to 6 in., reducing these focal lengths by one-half. It has been corrected for aberrations, including distortion and color. It will be priced at approximately \$600 per lens.

**Representative.** Wanted: to represent equipment manufacturer or other in capacity of public relations and trouble shooter, calling on industrial, TV producers etc. 35 yrs experience camera work, projection and reinstating alienated clients. Centrally located in Syracuse for travel in East. **R. Rees Lumley, 339 South Warren St., Syracuse 2, N.Y.**

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**Engineers, Mechanical & Electronic.** Experienced in design, production, manufacture of photographic consumer and/or military products and instrumentation. Must be familiar with motion-picture camera and projector design; capable of creative simple design solutions for economical production manufacture; knowledge of dimensioning for parts interchangeability. Opportunity to join reputable engineering staff of progressive, rapidly growing organization. **Foto Development Corp., 123 Eileen Way, Syosset, L.I., N.Y.**

**Designer.** Expanding manufacturer needs designer with experience in motion-picture laboratory equipment. Write or call **Forway Corp., 245 West 55 St., New York 19. CO 5-0372.**

**Cinematographer-Editor.** Small organization in Chicago area requires capable industrial cameraman for work in 16mm color, combining editing and some still work for sound slidefilms. Man selected must have good college background, married, under 35. Recent grads with good college background in motion picture-TV or cinematography will also be considered. Good income with excellent opportunities for advancement. Please furnish references, salary requirement and qualifications. Address **P.O. Box 244, Park Ridge, Ill.**

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Position requires familiarity with all phases of movie making, including filming, lighting, power and equipment requirements, film editing, animation techniques, sound recording and editing, color processes and their combination.

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**Motion Picture Cameraman.** Active member SMPTE now employed at local film studio. Formerly with Telenews and CBS-Newsfilm. Just completed study in film production in the States with M.S. degree. Owner of 16mm Bell & Howell and 35mm Arriflex cameras. Desire film assignments in Formosa and neighboring countries—16/35, color/B&W, news, documentary, educational and production work. Write: **Dennis K. Chin, P. O. Box 222, Taipei, Taiwan.**

**Chemist.** Over 6 yrs experience with major laboratory in color and black-and-white developing, quality control, troubleshooting and processing equipment. Write: **Marvin Leff, 2109 76th St., Brooklyn 14, N. Y.**

**Cameraman—Motion, Still, Aerial.** 7 yrs experience, Navy and civilian school graduate. Experienced in aerial, still, data gathering and motion-picture production photography and equipment. Employed by major aircraft corporation and Cape Canaveral Missile Test Range. Past membership in American Society of Photogrammetry, Active Member of SMPTE. Single, age 27, will relocate. Prefer position as photog. coordinator or motion-picture cameraman with large corporation. **1808 Tower Rd., Glen Burnie, Md.**