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Stechly, Michael, Sales Mgr., McCurdy Radio Ind. Mail: 1063 Haig Blvd., Port Credit, Ont., Can. (M)
Storr, William J., Free-Lance Cinematog., 89-10 63rd Ave., Rego Park 74, N. Y. (M)
Subandi, Raden, Camera & Lab. Maint., Perusahaan Film Negara, Bidara Tjina 125, Djakarta, Indonesia. (A)
Sullivan, Jack M., Mot.-Pic. Projectionist-Cameraman, Texan Theatre, Box 1, Greenville, Tex. (A)
Sullivan, John B., Mot.-Pic. Prod., Sullivan-Bruce Productions Inc., 707 S. Brand, Glendale 4, Calif. (A)

Thornton, Fred, Mot.-Pic. Photo., Cornell Aeronautical Lab., 4455 Genesee St., Buffalo, N. Y. (A)

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Warren, Eugene D., Develop. Eng., Columbia Broadcasting System. Mail: 205 Old Wilmet Rd., Scarsdale, N. Y. (A)

Weber, Herbert M., Eng., Unicorn Engineering Corp., 817 Mills Bldg., Washington 6, D. C. (M)

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Welch, John A., Manager, National Theatre Supply Co. of Asia. Mail: 20 The Drive, Bardon W4, Queensland, Australia. (A)

Wenzel, Kurt W., Prod., Cameraman, U.S. Information Agency, Foreign Prod. Dept., IMS. Mail: 117-26 239th St., Elmont, N. Y. (M)

Wiegman, David, Jr., TV Network Newsreel Film Cameraman, National Broadcasting Co. Mail: 1801 Glen Park Dr., Silver Spring, Md. (A)

Wing, John P., Free-Lance Asst. Cameraman, 90 Elizabeth St., New York 13. (A)

Witherell, William R., Jr., Producer, Video Films. Mail: 528 Rivard Blvd., Grosse Pointe 30, Mich. (A)

Young, P. C., Projection Eng., Loews, Inc. Mail: 8961 Kramerwood Pl., Los Angeles 34. (M)

Zinaman, Joe, Owner, Animation Studio, 2700 Shadow Lane, Nashville, Tenn. (M)

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Lawrence, Paul R., Production Mgr., TV, Radio & Film Comm., Methodist Church, 1525 McGavock St., Nashville, Tenn. (A)

Magargle, Hal, Mixer & Transmission Eng., Cinerama, Inc. Mail: 38 Bluebird Dr., Syosset, N. Y. (A)

Miller, Charles H., Photo., Timer, USAF. Mail: 4780 Burkhardt Ave., Dayton 3, O. (A)

Rideout, Edward H., Jr., Sr. Engineering Photo., Avco Research & Advanced Develop., 750 Commonwealth Ave., Boston. (M)

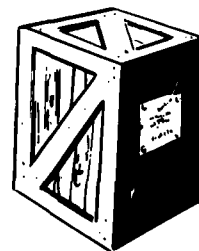
Young, Marty, Independent Prod., Business & Industrial Films, 3024 Fort Worth Ave., Dallas, Tex. (M)

SMPTE Test Films

Test films planned by the Society's technical committees and produced under the Society's exact supervision are available from the headquarters office at 55 West 42 St., New York 36. Catalogs containing brief descriptions of each film are obtainable on request.

Films are available in the following categories:

- Television—Picture Only, Color or Black-and-White
- CinemaScope
- Visual 35mm—Picture Only
- Magnetic — 16mm Sound Only
- Picture and Sound — 16mm
- Picture Only — 16mm
- Glass Slide — 16mm



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 high-speed, rotating-prism, 16mm camera produced by Eastman-Kodak Co. has been acquired by Beckman & Whitley Inc., San Carlos, Calif. The camera's main application is in the study and analysis of rapid mechanical motion. It is capable of taking pictures at rates from 1000 to 3200 frames/sec. Manufacture, distribution and servicing will be carried out by the California firm.

The Dynafax Camera is a lightweight, portable, high-speed, motion-analysis camera. It is designed for simple, fast film processing and uses standard 35mm film. A product of Beckman & Whitley, 973 E. San Carlos Ave., San Carlos, Calif., it is designed to photograph at an upper rate of 25,000 frames/sec. Other design features include a stable framing rate during the operating cycle, continually indicated on a built-in meter; absence of synchronizing requirements; exposure times adjustable between 1 and 5 μ sec at the maximum rated framing speed of the camera; total writing time of 9 msec at 25,000 frames/sec, and adaptability to the use of any 16mm cine lens in a "C" mount. Dimensions are 12 in. in diameter, 10 in. in length, with a weight of 28 lb. It is priced at \$4950.00.

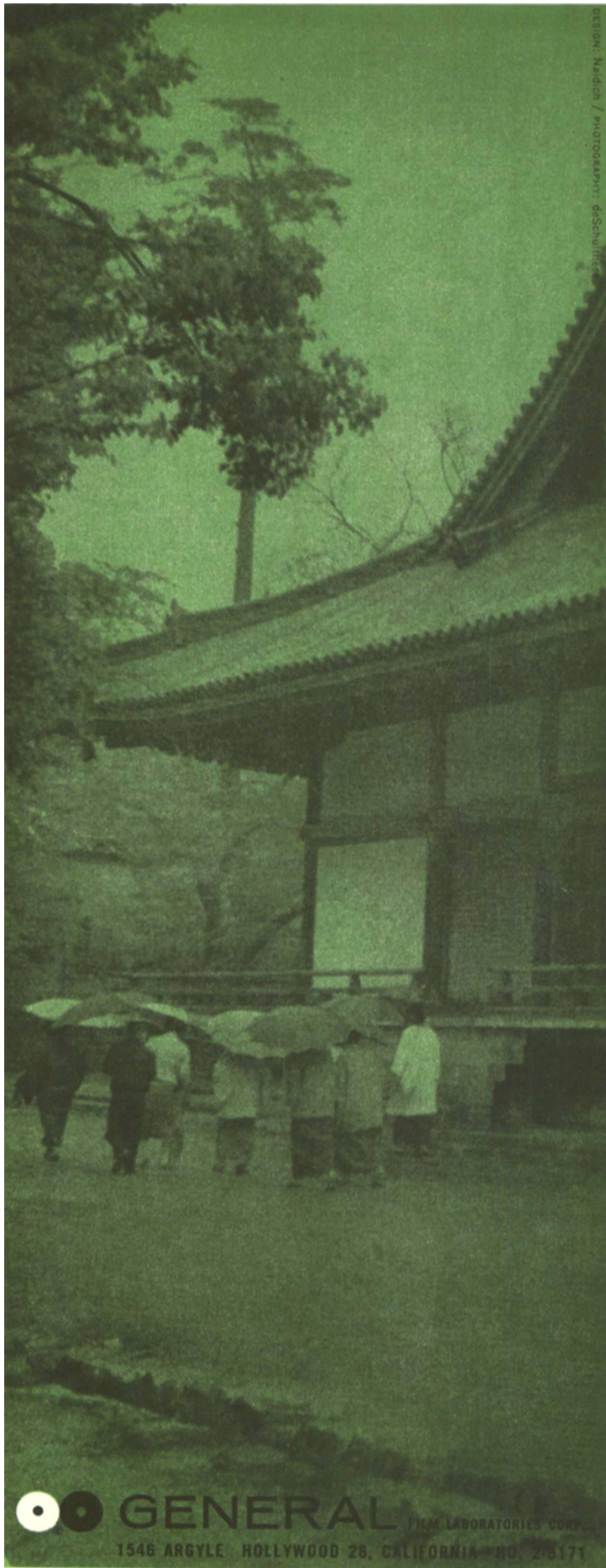
A new Avco Kerr Cell Shutter is described in a 4-page brochure. The cell is designed for photography at exposures down to 0.01 μ sec (*Journal*, July 1958, p. 507) and is available from Avco Research and Advanced Development Div., 201 Lowell St., Wilmington, Mass. The brochure is illustrated with charts, drawings and photographs.

Purchase of Hi-C Products Co., of Pasadena, Calif., has been announced by Photo Research Corp., 837 N. Cahuenga Blvd., Hollywood. In making the announcement, Karl Freund, President of the Hollywood firm, said that plans were underway for a greatly accelerated program for marketing the firm's line of magnifying monocular viewfinders for Mitchell, Auricon, Wall and other cameras, as well as focusers and bore-sights which will bear the Photo Research Corp. Spectra label.

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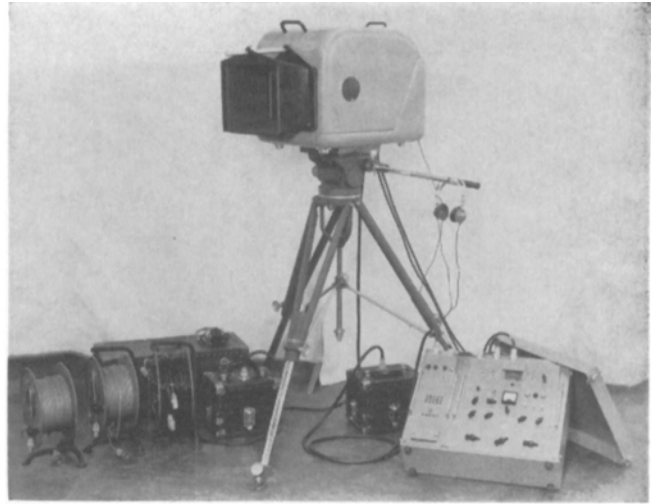
Television coverage of the U.S. Air Force World-Wide Weapons Meet (William Tell) at Tyndall Air Force Base, Fla., dramatized new applications of television to missile programs. During the Meet, Dage airborne transistorized cameras were placed in an F-102 and a TF-102 jet aircraft to transmit views to TV receivers located throughout the base area of interceptor action taking place at points as far distant as 150 miles from the receivers.

The firing of drones, approach of interceptor aircraft, scoring on drones and other action in the air were televised to a special mobile TV unit and a TV control unit on the flight line. Information received at the control center was then relayed to a Philco transmitter for broadcast over Channel 4 to standard receivers.

The Dage Model 320 broadcast camera

was used to cover the scoreboard and action on the flightline ramp. Another 320 camera, mounted on top of the control tower, monitored movements, takeoffs and landings of interceptor aircraft. A third broadcast camera was used in the control center for on-the-ground viewing. In-the-air activity was also covered from the GCI radar control center and showed aircraft movements on radar. TV recordings were made of the telecasts on 16mm film for the Air Force. The inset in the illustration shows a Falcon missile fired from the F-102 "Delta Dagger" interceptor.

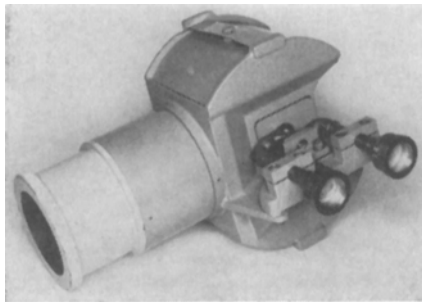
Among other equipments used at the Meet is the Traid T-560 Fotomatic high-speed camera which was the only optical scoring recorder used in drone-scoring operations.



The Camerette Double-System Sound Camera has been announced by Houston Fearless Corp., 11827 West Olympia Blvd., Los Angeles 64. The camera will use either 16mm or 35mm photographic film as well as 16mm or 35mm fully coated magnetic sound film and can be instantly converted for either use. The unit is contained in a glass fiber blimp. The recorder and camera are driven by a 24-v synchronous d-c motor with a special governor for speed stability. The amplifier unit is contained in a separate case and operates from a 24-v battery. Two microphone input channels are provided, each with input amplifier, gain control and high and low frequency tone controls. Film capacity is 400 ft. The recorder can be operated independently for nonsynchronized soundtracks. A selector switch in a separate playback amplifier enables the operator to hear either direct signal or playback.

A special telescope arrangement is provided on the camera, a 16/35mm Eclair Camerette (Patents Coutant-Mathot), which carries the eye piece to the back of the blimp to adjust for either 16mm or 35mm frame size. Follow-focus control is provided on the blimp. The unit weighs about 100 lb. It is 24 in. long, 15 in. wide and 17 in. high. The price, including camera, recorder and blimp is about \$15,000.00.

A ruggedized closed-circuit TV camera has been developed by Allen B. Du Mont Laboratories Inc., 750 Bloomfield Ave., Clifton, N.J., to withstand extremely high acoustic noise, shock, vibration or even an explosion. Available either as a transistor-type or with subminiature tubes, dimensions of both types are 3½ in. by 3½ in. by 10½ in. For remote operation, the camera, focus, turret and iris motors are mounted in a small housing measuring 5 in. by 7 in. by 12 in. All remote accessories and the housing are available in the standard product line of the firm's industrial TV equipment, making it possible to use the standard three-lens remote drive turret for the new cameras. The transistorized camera (Du Mont TC-200-RT) is priced at \$1000.00 and the subminiature tube camera (Du Mont TC-200-RS) is \$900.00.



Two laboratory research instruments, rotating-mirror and rotating-drum cameras, have been developed for sale by the Research and Advanced Development Div., Avco Manufacturing Corp., 201 Lowell St., Wilmington, Mass. The cameras are used in studies of radiation, explosive compound development, solid fuel ignition, propulsion, ballistics combustion, chemical recombination, plasma tunnels, magnetohydrodynamics, spark gap discharges, high-speed electromechanical units such as relays, and other transient events which emit or reflect light.

The rotating-mirror camera which records position vs. time relationships is designed about a hexagonal, first surface mirror, rotating at 3000 rps, which provides writing speed of 4 mm/μsec for a total writing time of 50 μsec. It has a cast aluminum main housing, standard f/2.5

lens, two curved film holders and air turbine drive.

The rotating drum camera, in addition to making position-time film records, also may be used with a densitometer to produce accurate data of hypervelocity phenomena. In conjunction with a schlieren system it will produce μsec-order photographic frames for graphical analysis. A dynamically balanced drum, rotating at 600 rps for writing speed of 0.18 mm/μsec, distinguishes this second instrument. The fast emulsion film is fixed to the inner periphery of the drum. Both cameras operate on compressed air driven through shaped nozzles at turbines integral with either the rotating mirror or drum units.

The Mark IV television camera channel has been announced by Marconi Wireless Company Ltd., Chelmsford, Essex, Eng. The design is based on the company's Mark III camera channel which incorporates the 4½-in. image orthicon. The new camera weighs less than 100 lb and uses only 12 valves which include seven Mullard Type E88CC. Among other new features are an image orbiting device designed to prevent "sticking" on static pictures and a new picture and waveform monitor with 14-in. picture and 5-in. waveform tubes. Units are being installed in Canada and Australia.



A lightweight high-resolution aerial panoramic camera developed by Perkin-Elmer Corp., Norwalk, Conn., enables meteorologists to analyze the structure of storms and to predict their movement. The camera, which weighs 50 lb fully loaded, employs a rotating prism to "wipe" the image on film. On each exposure, it covers 180° horizon-to-horizon perpendicular to the plane's flight path and 42° with the flight path. Measuring only 38 in. by 19 in. by 8 in., it is adaptable for use in small places. It was first used by the Weather Service of the Air Force last November to photograph the 30-mile-wide "eye" of Typhoon "Kit." Other applications include military operations, geological survey work, soil conservation studies and other fields requiring extremely wide-angle continuous aerial photographic coverage of terrain. A clock and bubble-level for roll and pitch determinations are superimposed on each exposure for accurate time and point references needed in indexing.

The MTS-4 System, a transistorized, ruggedized TV system which makes possible the use of closed-circuit TV within military aircraft, ships and vehicles to transmit visual data to one or more monitors has been announced by Dage Television Div., Thompson Ramo Wooldridge Inc., Michigan City, Ind. Weighing 55 lb, it consists of three components, camera, control and monitor. All three units are transistorized. The system is designed to require minimum adjustment of controls.

A paper on TV Broadcast Repeaters presented at the 12th Annual NAB Broadcast Engineering Conference, Los Angeles, by Byron W. St. Clair is available in the form of a 6-page illustrated brochure from Adler Electronics Inc., 1 LeFevre Lane, New Rochelle, N.Y. Also available is a transcript of a statement by Benjamin Adler before a Senate Committee conducting hearings on S. 2119, a bill containing provisions for governmental support of educational TV.

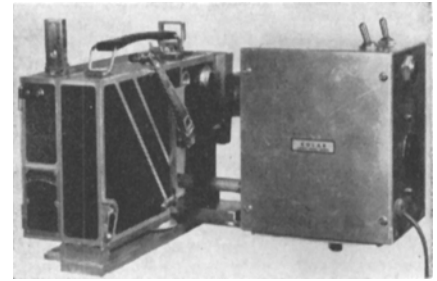
A mobile color TV studio has been designed in a 35-ft, 18-ton aluminum trailer for use by the Army Signal Corps for on-the-spot coverage of training and operational activities. The studio-on-wheels was designed and developed for the Army Pictorial Center, Long Island City, New York, by General Electric Technical Products Dept., Electronics Park, Syracuse, N.Y. About eight tons of color equipment which

ordinarily would require four or five times more space have been fitted into the trailer. In addition to studio control equipment, the trailer has special compartments for three color cameras and audio equipment for recording, taping and transcribing.

Type G-801 Program Equalizer has been announced by Magnasync Mfg. Co., Ltd., 5546 Satsuma Ave., North Hollywood. Weighing 6½ lb, the instrument measures 19 in. by 3½ in. by 3½ in. It has standard Western Electric hole spacing and high and low frequency controls. The impedance is 500-600 ohms; insertion loss, 14 db; input level, minimum -70 dbm; maximum +20 dbm. It is priced at \$159.00.

New developments described at the Annual Convention of the Society of Photographic Scientists and Engineers held in October in Rochester, N.Y., included a low-intensity ultraviolet sensitometer and a special camera designed for photography of shipboard radar screens. The sensitometer, designed by Raymond F. Newell of Eastman Kodak Co.'s film testing division, exposes film to ultraviolet radiation in a series of calibrated steps. The instrument is used for testing large volumes of film and plates produced for spectrographic work in such fields as chemical analysis and metallurgy. The source of energy is a germicidal lamp. A sector wheel, turning at 1700 revolutions per minute provides exposure of the film to ultraviolet radiation in the required series for ease in testing film sensitivity.

A camera, described by Devlin A. Chubb, Abrams Instrument Corp., is used for radar picture records containing time of sighting and radar range. Such information would be valuable for legal reference in cases of aircraft accident or maritime collision.



A single-frame camera motor to operate any type of 16mm or 35mm camera with single-frame crank has been announced by Rolab Photo-Science Laboratories, Sandy Hook, Conn. The motor with gear train and magnetic clutch brake is enclosed in an aluminum box with the driveshaft extending from one side. A standard tripod thread on the bottom of the box permits easy mounting of the unit near the camera so that the driveshaft and the crank fitting on the camera can be connected by a short (approximately 2-in.) rubber or plastic tubing. Upon contact (by pushbutton, foot switch or intervalometer) the driveshaft makes a full turn and stops automatically.

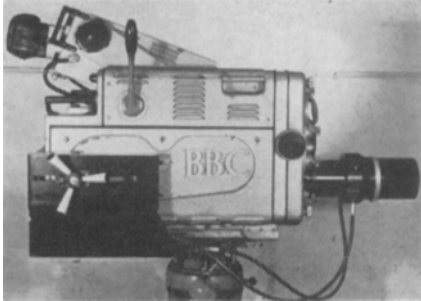
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The cycle takes two seconds during which the light circuit is "ON" in synchronism with the open sector of the camera shutter. A switch on top of the unit permits the motor to be run continuously for faster operation. Another switch turns the light circuit "ON" permanently for setting up the camera or for focusing. An inlet is provided for the connection of the remote pushbutton or foot switch for single-frame work for animation or film strip production. For time-lapse cinematography an intervalometer takes the place of the switch. The unit is priced at \$69.50.



A new studio zoom lens developed by Taylor, Taylor & Hobson Ltd., a Division of Rank Precision Industries, 37-41 Mortimer St., London, W1, in cooperation with the British Broadcasting Co., has been announced. The lens, called the Studio Varotal, was described in a paper at the SMPTE Fall Convention in Detroit by Gordon Henry Cook. Interchangeable rear

units are provided so the lens can be used with both image-orthicon and vidicon cameras. The focal length range is 2½ to 8 in. on image-orthicon cameras and 2¼ to 8 cm on vidicon cameras. The maximum relative aperture for image-orthicon and vidicon is $f/4.5$ and $f/1.8$, respectively, and image diagonal covered is 40 mm for image orthicon and 16mm for vidicon. Correction of lens aberrations matches the spectral sensitivity of the tube and aberrational compensation has been provided for the errors introduced by the face of the tube. The lens is designed to fit existing camera turrets with a minimum of adaptation. The three controls — focus, zoom and iris — are in the form of worm gears mounted toward the rear of the lens to facilitate the fitting of either manual or servo drives.

A system of automatic electronic focusing called Optical Automatic Ranging (OAR) has been announced by Comapco Inc., a company organized to develop and license applications of this system. Five features incorporated in the system, as outlined in the announcement, are: (1) a suitable focusing device — either a refractive lens or a reflective mirror system — which has a magnification of less than unity and forms a "real optical image" of any illuminated object placed in front of it; (2) within the focal area of such optical image an oscillating "sensor." This is a sensitive photoelectric cell system in continuous motion back and forth along the optical axis within a predetermined range. The sensor's varying

output of electrical energy corresponds to the varying intensity of radiant energy which it encounters at each point of its constant back-and-forth travels; (3) a signal amplifier which multiplies the varying electrical information from the sensor and passes it along to (4) a servoamplifier which converts the information into electrical instructions to be followed by (5) a servomotor. This motor operates to move the lens or mirror system until the plane on which is focused the image of the object being "sighted" lies precisely at the midpoint of the sensor's oscillations.

This system is designed to monitor or measure continuously varying light intensities and has the advantage of not requiring complicated optical elements in the path of the light rays.

Two new theaters have been installed at Pinewood Studios, Ivor Heath, near London, by the G.B.-Kalee Division of Rank Precision Industries Ltd., 37-41 Mortimer St., London, W1. The larger theater (No. 5) (47 ft long, 30 ft wide and 20 ft high) is intended for viewing rushes and for routine dubbing and re-recording. The floor of the theater consists of strips of different surfaces such as boards fixed to rafters, narrow boards on a firmer foundation, wood blocks, paving stones, gravel, sand, cobbles and linoleum; there are also staircases, both bare and covered, so that the sound of footsteps can be made appropriate to the picture. A shallow tank is used for water effects. A trough can be flooded for the sound of feet splashing through water or dragging through mud.

For sound reproduction the theater is equipped with a conventional No. 2 Duo-sonic type of speaker assembly. The screen is suitably proportioned for VistaVision projection. Mole-Richardson lighting equipment makes it possible to film small inserts in the theater. The monitor room with a viewing window adjoins the theater and contains a 3-channel mixer desk Type 1291. The projection room is equipped with a pair of G.K. 20 projectors with President arc lamps. The lamps, running at 60 amp, are fed from studio d-c power. Picture brightness is standardized at 12 ft-L. In the recording room, a G.K. cabinet-type magnetic recorder is maintained, together with test equipment and patching facilities. The recorder is driven by an interlock motor and operates either independently or in interlock with either of the theater projectors and cabinet reproducers.

The small theater (No. 6) also consists of the theater, monitor room and a projection room with a pair of G.K. 20 projectors with President arcs but with double film attachments. This small theater contains a 6-way dubbing mixer console Type 1336 which can accommodate two recordists. Theater sound for preview projection may be controlled either from the console or the projection room.

The recording room is equipped with a G.B.-Kalle magnetic recorder. In a separate power room are two interlock generators, one a standard large set capable of running all the equipment in full interlock, and the other a smaller set intended for running only the recorders. Both are wired through a power and control panel and are operated by remote control.

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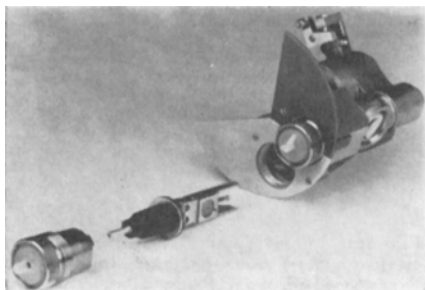
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A new polyfocus lens attachment, announced by Karl Heitz Inc., 480 Lexington Ave., New York 17, is designed to convert the 12.5mm and 35mm lenses for the Camex Reflex 8mm single lens camera into zoom-type lenses of variable focal length. By moving a lever, the focal length can be changed to create simulated dolly effects. With a built-in reflex finder the attachment may be used with lenses for any 8mm camera. It is priced at \$129.00.



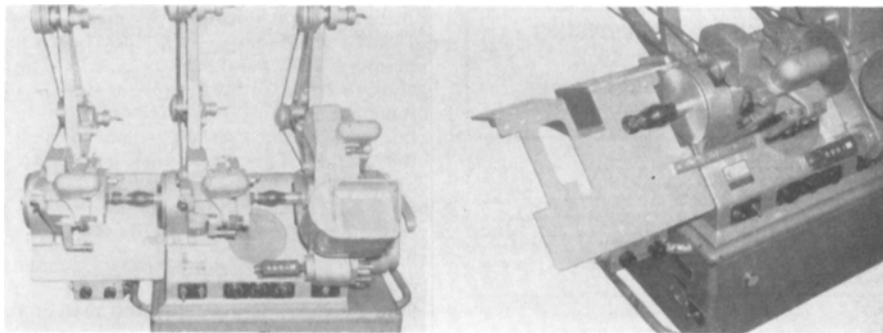
A new projector light source, described as "revolutionary" by both British and American reporters, was introduced by Philips-of-the-Netherlands at the Photokina Exposition in Cologne, Germany. The Philips SPP Gas Discharge Lamp is entirely unlike the xenon lamp. It is a quartz tube 80 mm long with a maximum diameter of 5.6 mm. It operates with a pulsating direct current at 72 impulses per sec, or 3 impulses per frame. Because the valve-type light switches electronically on and off in fractions of a second, need for a rotary shutter is eliminated. Reports from early tests indicate that the new light source is sufficient for a 50-ft screen. A specially designed projector, the Philips FP 20-S, is used with the lamp. The frame of the projector is a steel housing pressed as a single unit of rectangular cross section. It incorporates the curved running plate used in an earlier projector, the DP 70.

The lamp is contained in a scaled housing and is water-cooled. At a current consumption of 800 w, its brightness is reported to be 20 ft-L. The high current intensity during the impulse peaks is reported to result in a uniform spectral energy distribution permitting excellent projection of color film. Plans have not been completed for distribution in the United States.

Shown above is the lamp turret of the FP 20-S projector with two SPP lamps. The "working" lamp has been removed.

Field tests conducted by National Carbon Co. have demonstrated the technical superiority of larger negative arc carbons with double-tapered ends, the firm reports. The new design makes possible a much faster initial "burn-in" period and more steady arc operation. A taper is added to the tapered end of the larger negative carbons to form the double tapered ends, presently available in the five larger sizes of Ortip negative carbons. Prices are the same as for corresponding single-tapered carbons.

A reflectance-type exposure meter, described as a "first," has been designed specifically for high-speed photography and introduced by the Industrial Products Div. of Fairchild Camera and Instrument Corp., Robbins Lane, Syosset, L.I., N.Y.



The Camart Add-A-Unit Extension Plate for the Moviola series of editing machines is a product of Camera Mart, Inc., 1845 Broadway, New York 23. The accessory is designed to enable the film editor to use more than one separate optical or magnetic soundhead. The additional soundhead with takeup arm is mounted on the extension

plate and the cables are connected to the amplifier. Parts such as belt guards and the flexible coupling assembly are included in the unit as well as volume controls. The design provides for the addition of other plates to accommodate as many soundheads as desired. The price is \$325.00.

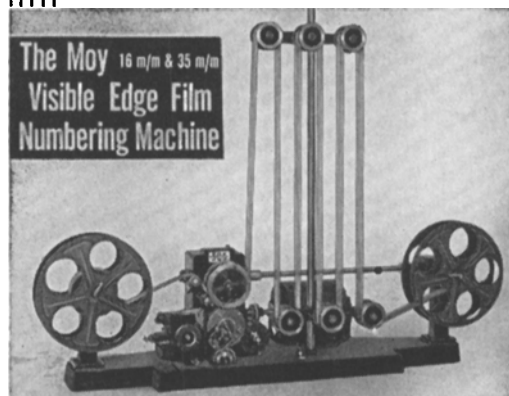
Designated the HS3201, it is designed for Fairchild Motion Analysis Cameras and measures only the amount of light that reaches the film. Light readings are taken from the camera position by sighting on the subject. Operation of either the high- or low-range buttons on the underside of the meter gives a dial reading for the field. Correct aperture setting can be read directly from the ring scale, preset to the film speed. Specifications are: size, 8 in. by 3 1/4 in. by 2 1/4 in.; acceptance angle, 2°; light value ranges, low from 0 to 25,000 ft-c,

high from 0 to 500,000 ft-c; picture taking rate scale, 100, 200, 300, 400, 500, 1M, 2M, 3M, 4M, 5M, 10M, 15M, 20M; aperture setting scale, f/1.0, 1.4, 2.0, 2.8, 4.0, 5.6, 8.0, 11, 16, and 22. It is priced at \$179.50.

Newly appointed distributor for Portman Animation Stand, and accessories, is the firm of Florman & Babb Inc., 68 W. 45 St., New York 36. A catalog describing the equipment is available without charge from the firm.

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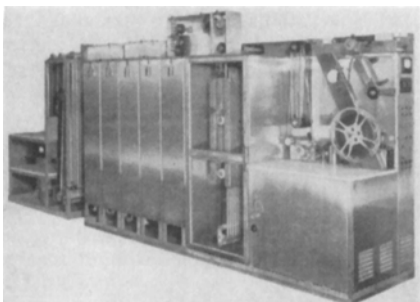
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FOR SALE: Maurer 16mm optical recorder, Model D, Serial RD166, complete with recording head, amplifier, power supply, line transformer and carrying cases. Unit in beautiful condition—sound reproduction is of finest quality. A real bargain \$2,500.00. Pan-American Films, 735 Poydras St., New Orleans, La.

A new 5-ft-wide fume hood has been added to the line of Steelab fume hoods. Designed to protect laboratory personnel from dangerous fumes, the cabinets are made of heavy-gauge Bonderized steel with a finish of chemical-resistant enamel. Working tops of Alberene stone are provided. The fume hood and accessories are described in a two-page bulletin available from Arthur S. LaPine Co., 6001 S. Knox Ave., Chicago 29.



A new 16/35mm daylight black-and-white film processor has been announced by HiSpeed Equipment Inc., 73 Pond St., Waltham 54, Mass. Reported to operate at 65 ft/min negative and 130 ft/min positive with guaranteed gamma curves, the machine is modular designed with dimensions 12 ft long, 2½ ft wide and 6 ft high. Features include open sprays, an easy access impingement dryer to provide full view of the drying operation and built-in accessories designed ready to connect to water, power and drain. The machine was exhibited at the SMPTE Convention, Oct. 20-24, at Detroit, Mich.

The Ramo-Wooldridge Corp., organized five years ago to conduct research, development and manufacturing operations in the field of electronics and missile systems, has been merged with its affiliate, Thompson Products Inc. The new firm is known as Thompson Ramo Wooldridge Inc. The name Thompson Products will be retained by the company's present automotive divisions. Names of Thompson Products Ltd., Toledo Steel Products, Ramsey Corp., Bell Sound Systems, Dage Television and Kolcast will remain the same. The Tapco Group and Ramo-Wooldridge will retain their names and operate as divisions of the new company. The Space Technology Laboratories division has been made a separate corporation. In addition to its space technology activities, the company has engaged in systems work in such areas as digital computers and control systems, communications and navigation systems, infra-red systems and electronic countermeasures.

A lightweight sound-level meter, Type 1551-B weighing 7½ lb, has been announced by General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass. The instrument features such improvements as a built-in reference circuit which eliminates the need for 115-v, 60-c line, a redesigned amplifier for improved signal-to-noise ratio, and direct reading over a sound-level range of 24 db to 150 db. It is priced at \$395.00.

The Teclite, a lightweight (less than 30 lb) 16mm projector has been announced by Technical Service Inc., 30865 Five Mile

Rd., Livonia, Mich. A detachable 8-in. speaker, included in the single-case unit, responds to a newly designed 15-w, a-c, d-c amplifier. Designed mainly for industrial and educational applications, dimensions are 14 in. by 11½ in. by 13 in.

Exposed Ektachrome Commerical film may be sent to Colour Film Services Ltd., 22/25 Portman Close, Baker St., London W1, for processing. This laboratory has been approved by the Research Laboratory of Kodak Ltd., England, as being fully equipped for satisfactory processing of the film.



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 These notices are published for the service of the membership and the field. They are inserted three months, at no charge to the member. The Society's address cannot be used for replies.

Positions Wanted

Motion-Picture Engineer. Available for new position February 20, 1959; will consider job in any part of the world. Now completing contract with Reevesound Co., New York, installing laboratory overseas. Formerly with Capital Film Labs, Washington, D.C., for several years. Have designed and built lab equipment for a number of years for the trade (firm name in Washington, D.C., is Telex Films). Have the experience to do capable work in production, editing, sound or lab. Complete résumé upon request. Would prefer any new overseas assignment to start by March 10, 1959. Write airmail: Victor E. Patterson (USOM), American Embassy, APO 271, New York, N. Y.

Television Engineer. French citizen, 7 yrs experience TV research in Paris, subsequently engineering manager of TV station in Casablanca, Morocco, seeks position in United States or Mexico, preferably with an American company. Degrees in electrical and radio engineering. Age 34, married. Write: Lucien Chareyre, 37 rue de Mareuil, Casablanca, Morocco.

Cameraman-Editor experienced in all phases of film production, feature films, commercials, TV documentaries, sound recording and laboratory. Desire permanent position with production company or television station. Will work in studio and/or anywhere on location. Knowledge of French, Italian and Arabic. Write to A. P. Mamo, 7945 Cartier Street, Montreal, Quebec, Canada.

Motion-Picture Production. Experienced in film production, studio and location, educational, industrial and TV films. 15 years in industrial films, 6 years producing TV commercials. Seeking a position as production executive with a commercial or industrial motion-picture unit. Experienced in various phases of film production; operated most 35mm and 16mm cameras, directed industrial films, produced TV com-

mercials. Excellent references. Résumé on request. Write: Edw. A. "Jack" Price, 2417 Crest Ave., South Bend 14, Indiana.

Educator - Cameraman - Producer. Available every summer for either industry or education. Experienced in educational films, TV commercials, public relations films, newsreel work and live educational television. Degrees: B.S. in Ed., M.A. Interested either in production or organization, setting up program and teaching others to carry on. Also interested in any type of employment in motion-picture industry for which qualified. Experienced in every technical phase of motion-picture production. Own complete production equipment, cameras, sound, lights, etc. Age 42. Teacher in winter. Available from June 12 to Labor Day. Salary open. Henry E. Eisenkramer, 7550 Washington Ave., University City 5, Mo. Volunteer 3-5669.

Chemistry and Chemical Physics. Director of Research and Experimental Engineering for 20 yrs, predecessor of Harris Intertype Corp.; over 70 patents and applications in photographic and photomechanical fields; member many scientific organizations. Special interests: light sensitive substances, developers, phototypesetting, highspeed data recording, photopolymerization. Overseas contacts in research and development. Available full time or on a consulting basis. Would relocate. William H. Wood, Route 1, Box O, Rockbridge, Ohio.

Motion-Picture Writer, Director or Unit Manager with some TV experience returning from 8 yrs work in Middle East. B.A., M.A. in Cinema from USC. Wants position with vigorous film or television company. Have family, will relocate. Résumé on request. Write: John H. Humphrey, Apt. 604 West, 74-10 35th Ave., Jackson Heights, N. Y.

Photographic Administrative and Technical Specialist. 21 yrs experience in laboratory administration, sales administration, selling, quality control, personnel supervision, camera work and production. Heavy experience in color with leading laboratory. Seeking connection in administrative capacity with major TV or film company. Detailed resume on request. Willing to relocate. Robin R. Lewis, 4 Arbor Rd., Syosset, N. Y. WALnut 1-0063.

Audio-Visual Production. Freelance experienced in all phases of audio-visual production wants assignments on West Coast. Fully equipped for 35mm slidefilms, slides and 16mm motion-picture production; also equipped for editing. References available. Write: J. S. Paul, c/o J-Me Films, P.O. Box 6143, Bakersfield, Calif.

Producer-Writer. Motion-picture and educational TV experience. B.S. Quantitative Biology, MIT, 1957; B.S. Motion Pictures, Boston Univ.,