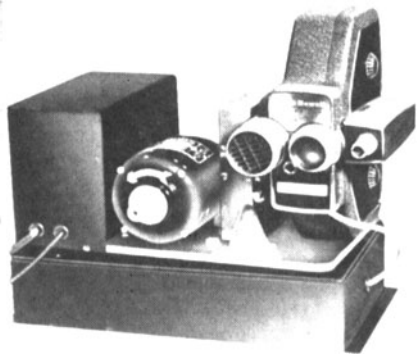


new products

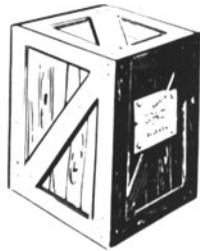
(and developments)

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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.



The Lafayette Automatic Photographic System is a new device offered by the Lafayette Instrument Co., P.O. Box 57, Lafayette, Ind., for automatically photographing an object or area at preset times or when triggered. The system operates with 16mm and some 8mm motion-picture cameras to take any number of pictures from one frame per day to 3000 frames per minute. It is available with or without scanning mechanism to view a wide area. Applications include production and safety studies; monitoring of security area; counting, inspection and identification operations; instrument and traffic monitoring; biological or construction progress reports; and other stop-motion, time-and-motion, or memo-motion studies. Price of the system varies between \$600 and \$1,200, f.o.b. Lafayette, Ind., depending upon the number and type of automatic features included.

The L-W Photo-Optical Data Analyzer, Model 224, a product of L-W Photo, Inc., P.O. Box 555, 18220 Parthenia St., Northridge, Calif., is designed for automatic projection of 16mm films in black-and-white or color at speeds ranging from 2 to 24 frames/sec, forward or reverse. It can also be used for still picture projection, reportedly without loss of light or damage to film. A cooling system consisting of a constant-speed motor-driven blower and heat-filtering system is designed to prevent

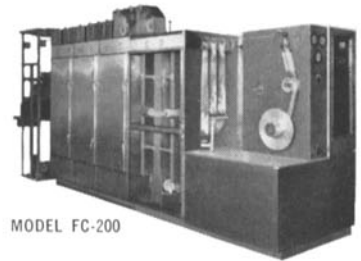


WHAT'S NEW in spray processing



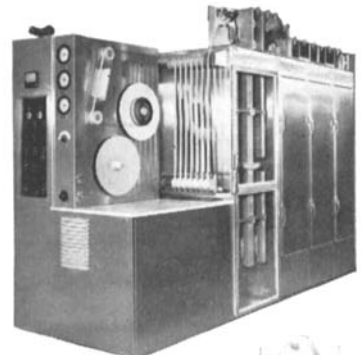
FROM *hi-speed*

THE NEW HI-SPEED MODEL FC-200 SPRAY DEVELOPER — Processes all your black and white film from 16 to 70mm, continuously, automatically, to a superior and uniform standard of quality. Speeds up to 150 ft. per minute, depending on film type. Unique spool arrangement and servo-drive system provides smoothest drive characteristics, optimum film tension, constant residence time in each cabinet. Automatic film change-over. All-spray design includes spray developing, fixing, wash, impingement drying. 5 minute pull-through time. Quick, easy maintenance and installation — requires only power, water, and drain connections.



MODEL FC-200

THE NEW HI-SPEED MODEL FA-200 SPRAY DEVELOPER — For 16/35mm black and white film. Meets very highest quality standards at speeds up to 200 ft. per minute. Provides precise temperature control of developer, hypo, wash and drying air for optimum results on camera or dupe negatives, separations, masters, sound tracks, or release positives. Any solution temperature from 70°-100°F can be chosen and maintained to within .2°F. All directional effects eliminated. H & D strips produce identical curves whether run head first or tail first.



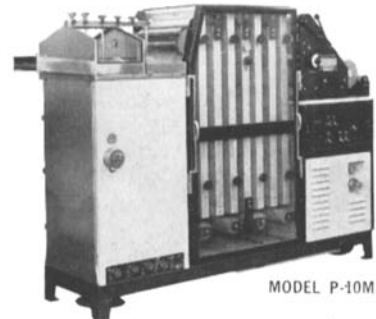
MODEL FA-200

THE NEW HI-SPEED MODEL FA-50 SPRAY DEVELOPER — Here is spray processing at *popular prices*. Produces crystal clear, ultra-sharp film, 16mm and 35mm, perforated or unperforated. Requires just 2 gallons of developer and hypo. Speed: 50 fpm positive, 25 fpm negative. Rugged, heavy duty construction for continuous, trouble-free operation with minimum maintenance.



MODEL FA-50

THE NEW HI-SPEED MODEL P-10M OSCILLOGRAPH PAPER/FILM PROCESSOR Loads, develops, fixes, washes, dries any oscillograph paper — in less than 5 minutes! Processes film and regular as well as extra-thin papers up to 12" wide. Distortion kept to a minimum by unique impingement drying system. Designed for continuous, trouble-free operation and low maintenance. *Please write today for complete information.*



MODEL P-10M

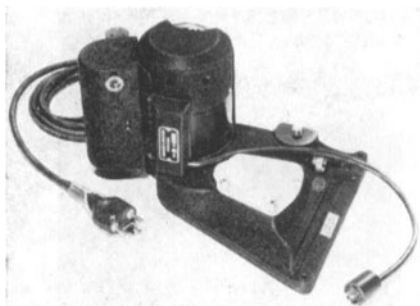
hi-speed EQUIPMENT INC., 73 Pond Street, Waltham 54, Massachusetts

Hi-Speed products for the photographic laboratory: Spray Developing Machines — Negative-Positive Color Equipment — Kodachrome, Ektachrome and Anscochrome installations — Roll Paper Processors — Silver Recovery Systems — Custom Photographic Processing Equipment — Laboratory Engineering Service. Hi-Speed Equipment, Inc. is a member of the Artisan Industries family of companies, serving a broad segment of industry. Each associated company brings to its own field impressive experience and resources. Whenever necessary, these resources can be pooled to bring to your problems a combination of skills, facilities, and experience unmatched in the field of special production equipment.



film damage even during prolonged single-frame exposure.

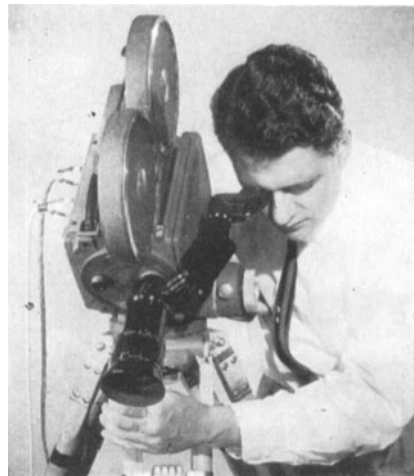
Designed for projection of films photographed at speeds ranging from 1 frame/hr to 12,000 frames/sec, the manufacturer suggests, among other uses, analytical work in missile photography, flight tests, sports events, and time-motion studies. The machine is equipped with a 2-in., *f*/1.6 coated projection lens with field flattener. Other focal length lenses are available. A built-in daylight viewer combines a front surface mirror with a black translucent screen. The unit weighs 26 lb. It is 12½ long, 14½ high and 10½ in. wide.



A new motor drive which fits all models of the Arriflex-35 has been announced by Arriflex Corp. of America, 257 Park Ave. South, New York 10. The unit consists of a positive, all geared drive base and a specially designed governor-controlled, 24-

v d-c motor. The motor is end mounted and is positioned alongside the camera on the geared base. The motor is constructed to maintain a speed of 24 frames/sec within close limits and can be used for special types of synchronous sound recording. The geared base is designed so that camera motor can be used in the blimp. A 60-c signal generator may also be mounted on the geared base. The unit is priced at \$665.

A new titler and special effects kit called the S.O.S. TG IV Titler has been announced by S.O.S. Photo-Cine Optics, Inc., 602 W. 52 St., New York 19, N. Y. Designed for use with 35mm and 16mm cameras, it can also be used without modification with 8mm cameras. The titler has horizontal and vertical adjustment of camera carriage and keyway. An alignment attachment is used to maintain optical axis on the title board center and a built-in scale is provided to obtain correct distance of the camera lens. The camera table is adjustable for North and South; East and West. A revolving table is supplied for making miniatures and reproductions with still or motion-picture cameras. Other features include dual lamp reflectors for front and rear illumination; a device for climbing titles; and a device for running titles of any desired length. Animation accessories are available. Various models are available, ranging in price from \$199.50 to \$395.



The Zoomscope, an extension viewfinder eyepiece for Models 85 and 85 S-EK Pan-Cinor zoom lenses, has been introduced by Bach Auricon, Inc., 6950 Romaine St., Hollywood 38, for use on the Auricon camera. The new eyepiece permits the camera operator to move his head two inches away from the side door of the camera without causing distortion or affecting the image seen through the zoom lens. The new eyepiece can be mounted on the zoom lens viewfinder, without the use of tools, in place of the regular "straight-back" eyepiece. It is priced at \$97.40.

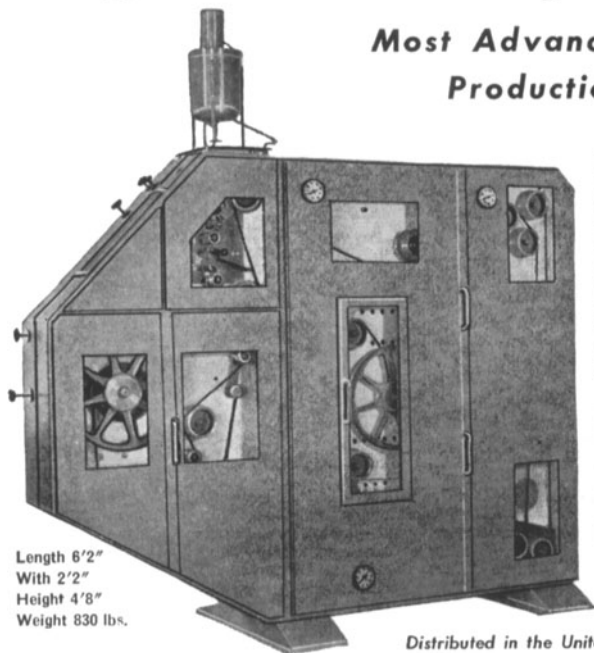
An Active Carbon Solvent Recovery Plant, for use in recovering film-cleaner solvents, is now available from Sutcliffe Speakman (Canada) Ltd., 1 Duke St., Hamilton, Ont. The plant, which is manufactured in England, consists of two adsorbers, charged with activated carbon and each capable of handling 1000 cu ft/min of solvent-laden air; fan; motor; air filter; air heater; and separator—all enclosed in sheet steel casing. Designed for continuous operation, the plant will recover up to 3 gal/hr. Price, delivered in New York or equivalent, is \$5,000.00.

The Acmade Precision Tungsten Carbide Splicer, a table model hot splicer, has been announced by Florman & Babb, Inc., 68 W. 45 St., New York 36. Manufactured in England by Acmade Ltd., the splicer is made of stainless-steel blocks fitted with tungsten carbide cutting edges. A thermostatically controlled heater is used to maintain a constant temperature of 100 F. Available in three models, on the combination 35/16 model both sets of pins are retractable to permit center placement of the 16mm pins, enabling the splicing of A & B rolls. The righthand block is designed for efficient back-scraping of film, using a preset hand scraper. The 16 and 35 models are each priced at \$299; the combination 35/16 model, \$399.

A wide-screen lens attachment for all current models of Filmosound projectors to enable showing of 16mm prints of CinemaScope films has been developed by Bell & Howell, 7100 McCormick Rd., Chicago 45. The lens is made with cylindrical elements for greater light transmission. A separate focusing ring is used to give sharp picture quality. Price of the auxiliary lens and adapter is about \$170.

SONOCOLOR SCF 2 Magnetic Film Striping Machine

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Production Machine*



Length 6'2"
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Weight 830 lbs.

Applies magnetic striping to all standard sizes of motion picture film. Processes from 1800' to 3300' hourly. Changeover from one size to another takes less than five minutes. The SCF 2 will apply full coating, single or multi-tracks in one operation on any film width from 8mm to 70mm. Uniformity of magnetic coating thickness is ensured through micrometric adjustment. Machine can be stopped at any stage without loss of magnetic coating or sound continuity.

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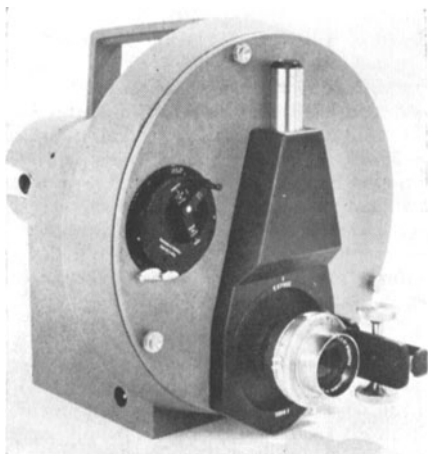
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A lighting kit called the Lowel-Light UNI-6 has been announced by Lowel-Light Photo Engineering, 429 W. 54 St., New York 19. Included are six tape-up, clamp-on lighting fixtures; six R40 barndoors; two 9-ft stands; three 25-ft neoprene insulated extension cords; a 12-ft roll of Gaffer-Tape; special apertures and foam padding for holding six R40 reflector bulbs; and two 25-amp fuses. The equipment is contained in a reinforced fiber case. The kit is priced at \$124.50.

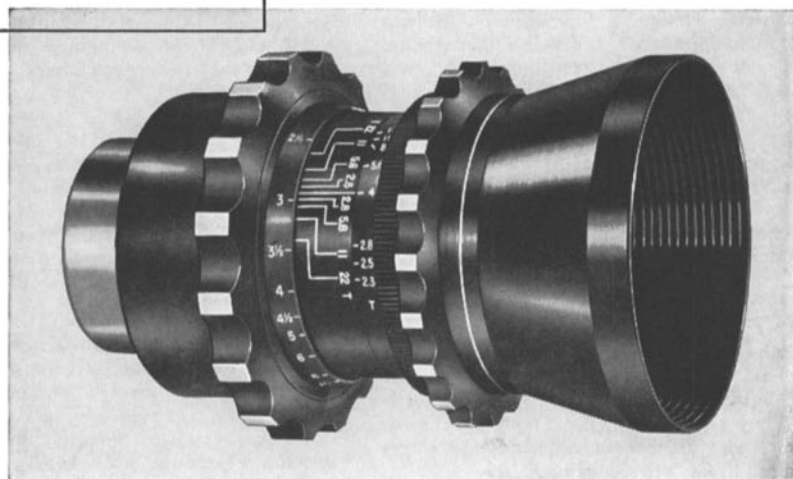
The ColorTran Remote Control Module designed for use with Cinemaster Mark II or Chief Mark II converters, has been announced by Natural Lighting Corp., 630 S. Flower St., Burbank, Calif. Designed to provide full remote operation of individual lighting circuits in these converters, the module is constructed of heavy-gage steel and weighs 16 lb. Dimensions are 9½ by 9½ by 6½ in. It is priced at \$189.



A special high-speed drum-type camera, Model 364, has been developed by Beckman & Whitley, Inc., 973 San Carlos Ave., San Carlos, Calif., particularly for application to the oscilloscope recording of high-speed non-periodic waveforms. The new instrument, a specialized modification of the company's Dynafax photorecorder, is said to provide a total writing time of 6.99 msec at top drum speed of 8600 rpm, which gives a film velocity of 400 ft/sec. Designed for floor mounting on a specially designed photographic stand, the camera covers most oscilloscope face sizes with an image-ratio range from 2:1 to 10:1 referring to the standard 35mm film. The instrument is equipped with a Wollensak 3-in., $f/1.9$ lens. Aperture at the film plane with a 2:1 object-to-image ratio is $f/2.8$. Driven by a ¼-hp motor rated at 120 v, 60 cps, the operating speed is controlled by a built-in variable transformer. The camera is priced at \$3900.

A multiple-frame, ultra-high-speed, Kerr-cell framing camera system which permits observation from one line of sight has been designed by Electro-Optical Instruments, Inc., 2612 East Foothill Blvd., Pasadena, Calif. Announced as the first commercially available multiple-frame system utilizing the electrooptical Kerr cell shutter (single exposure systems

New!



SUPER BALTAR* LENSES

...featuring today's highest resolution for wide screen, television and photo instrumentation

This new Super Baltar line of matched motion picture lenses complements and expands the famed Baltar series to include 70 mm coverage. And it balances illumination, flattens the field, and heightens contrast like no lens you've ever seen! You get high picture fidelity from corner to corner, edge to edge, of the film frame—dependable result of the most critical optical characteristics ever built into a professional lens.

Features include: minimum back focus of 32 mm; choice of mounts, barrel or custom focusing, to meet your specific needs; seven focal lengths, from 25 mm to 9", optically centered to full aperture; 70 mm coverage with 3", 4", 6", and 9" lenses.

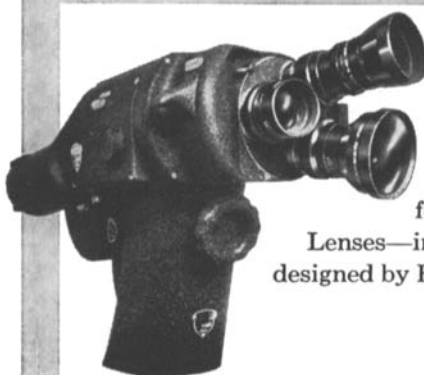
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Mitchell R-35 Reflex
Studio Camera
features new Super Baltar
Lenses—in special focusing mounts
designed by B&L in collaboration with
Mitchell engineers.

having been previously available), the system has been designated the KFC-600. The camera incorporates a multifaced prism which directs a portion of the energy collected by a primary objective lens through each of six separate Kerr-cell shutters. Designed for research in extremely high energy density phenomena, as well as normal energy densities viewed on a microscopic scale, the camera is said to achieve framing rates to 100 million per second. Exposure times are in the range of 5 to 10,000 billionths of a second, using established triggering techniques. Exposure time and resolution are independent of the framing rate. The optical system is designed so that after initial alignments have been completed, subsequent focusing and imaging adjustments are made only on the lens and the prism. Both exposure and interframe times can be selected to accommodate the amount of light available and the rate of growth at any time during the event, because of this independence of exposure and interframe times. Provisions have been made to permit recording on Polaroid film, if rapid evaluation is desired, and also on high-speed, fine-grain, cut films offering higher optical resolution.

The HEC Meter Mover, a product of Hoffman Engineering Co., Old Greenwich, Conn., is used for positioning of instruments such as photometers, pyrometers, cameras, microscopes and other instruments where infinitesimal precision measurements are

required. Designed for accuracy and stability it is recommended by the manufacturers for laboratory or production line testing of plastic lighting panels, cathode-ray tubes, storage tubes, electroluminescent material and similar applications as well as for photographing papers, maps, etc. The equipment is designed to hold any measuring instrument or camera having a weight of 7 lb or less, and a width up to 4 in., which can be moved within a cubic area 24 in. wide, 19½ in. high and 3½ in. deep. A component rack is designed to hold an instrument, panel or other component within an area of 24 by 22 in. with a forward and back movement of 14 in. The Meter Mover is priced at \$400 and the component rack attachment is \$75.

A three-speed hysteresis synchronous motor, called Type 5001, has been announced by Beau Electronics, Inc., Waterbury, Conn. Used for driving video tapes, it has also been used as a drive for facsimile systems. Operating from 115-v a-c to 60 cycles, output speeds are 300, 600, or 1200 rpm. The motor can drive tapes at speeds ranging from 3½ in./sec through 30 in./sec. The motor is constructed on an "inside-out" principle, used by the firm for many of its motors, with the rotor revolving around the outside and the stator. The motor ring acts as a permanent magnet. The motor is priced at \$145.

A new type of TV picture tube with a split-focus grid device said to eliminate

horizontal scanning lines was introduced by Westinghouse Electric Corp. at the Berlin (Germany) fair. The new tube subjects the electron beam to a small-amplitude, high-frequency deflection, thus enlarging it vertically to fill in the conspicuous black areas between the information lines. The output of an oscillator is used to deflect the scanning spot so that it moves up and down in a sinusoidal path instead of tracing straight across the tube. If a high enough frequency is used, individual oscillations crowd together and give the impression of a thicker line rather than just discrete cycles of oscillation.

Other methods of eliminating the horizontal lines involve, among other factors, an added winding around the neck of the tube. Two main disadvantages of this method are said to be added expense and the problem of self-generated interference radiating from this winding.

A microwave multiplier, model PM 1030/1090, that can also be used for diplexer operation has been announced by Telonic Engineering Corp., 480 Mermaid St., Laguna Beach, Calif. Designed for S-band applications the multiplier is used to provide conversion from 257.5 mc to 1030 mc with less than 12-db loss in conversion. As a diplexer the unit has a minimum of -30-db adjacent channel rejection. Developed for use with microwave systems for applications involving simultaneous receiving and transmitting at 1030-mc and 1090-mc frequencies, it is also available with any center frequency from 10 to 2500 mc for special applications.

A sweep/signal generator, Model No. SP-135, has been developed by Telonic Industries, Inc., Beech Grove, Ind., for use in production applications to supply swept signals to multiple calibration stations using only a single instrument. The generator is contained in a 19-in. cabinet approximately 40 in. high and has 8 plug-in type oscillators. Each oscillator may be selected at any fixed frequency up to 124 mc and can be equipped with up to six crystal-controlled pulse markers. Pulse widths are adjustable on each plug-in chassis. A single output on the front panel provides a horizontal sawtooth voltage of approximately 15 v peak-to-peak into 1000 ohms.

A dual gun oscilloscope employing only two types of vacuum tubes and a cathode-ray tube has been announced by Packard Bell Electronics, 12333 W. Olympic Blvd., Los Angeles 64. Designed for easy maintenance and repair, the 22-lb unit has identical amplifiers on each vertical input to provide identical traces over the full screen face with no phase shift. A pre-amplifier is built into the lower vertical amplifier to increase sensitivity from 100 mv/cm to 1 mv/cm. Sweep range is from 1 µsec/cm to 1 sec/cm. Internal and external triggers are provided. The oscilloscope is priced at \$495.

Simulation of acoustics of concert halls and auditoriums in an electronic digital computer is a new technique expected to provide exact information for architects

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and designers planning new auditoriums or modifications of existing structures. Devised by M. R. Schroeder of the Bell Laboratories Acoustics and Visual Research Department, the method is described in a paper which was presented at the 62nd Meeting of the Acoustical Society of America held during November in Cincinnati and Dayton, Ohio.

In explaining the method, Dr. Shroeder said that he first studies the plan drawn up by the architect, then selects a point on the stage and from it draws the major paths that would be traveled by sound waves to a seat in the audience. Calculations are then made of the time it would take sound to travel over these paths to the listener, and from these calculations the re-

verberation time can be known. This information is stored in the computer together with a program instructing the computer to treat any sound put into the computer the same way the auditorium would treat the sound. A sample of speech or music is recorded on digital magnetic tape and the tape fed to the computer. The output tape is then fed to another machine which converts the digital information into an analog multitrack sound tape which can be played on a multichannel tape recorder playback. When played back in a specially designed room without echo or reverberation, evaluation can be made of the acoustics of the auditorium as planned by the architect, and the plans can be modified, if necessary, to provide better acoustics.



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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

Audio-Visual Specialist. Extensive communications background: motion pictures, radio, audio-visual techniques. Over 5 yrs experience in motion-picture production and direction, script writing, editing and industrial audio-visual department administration. Secondary experience as radio news, script and continuity writer and in editing and writing of technical reports, proposals and brochures. Age 29, married, B.S., M.S. in Audio-Visual Communications. Willing to relocate. Resume on request. P.O. Box 502, Stamford, Conn.

Instrumentation and High-Speed Photography Coordinator. All military and civilian equipment and techniques; motion-picture and still; also metric applications. Resume on request. Reply to Photo, c/o Mercurio, 28-17 Astoria Blvd., Long Island City 2, N. Y.

Production Manager. 14 yrs extensive background aircraft and missile industry: administrative and management, aerial, public relations, high-speed, research and development, publications, missile field-test project photo supervisor, motion pictures and stills, color and black-and-white; photography for advertising agency; production manager for photographic operations including 16mm sound stage and location, commercial stills, audio-visual film-strips, sound and color. Motion pictures include more than 70 half-hour TV productions among others. Additional experience includes photo-journalism, college instructor in photography, working knowledge of graphic arts as related to photography; B.S. and M.S. degrees. Married, children, willing to relocate, resume on request. Reply to Photography, Box 2255, Abilene, Texas.

Assistant to Executive in Photographic Field. Extensive experience in aerial photography with over 4,500 hrs pilot time, photographic interpretation, photogrammetry, photographic instrumentation, motion-picture production and photographic research and development. Member Am.

Soc. Photogrammetry, SMPTE. Age 43, married. Resume on request. P.O. Box 4476, Pensacola, Fla.

Lab Tech. Motion-picture color timer, B&W timer, printer, neg. worker. Working knowledge as cameraman, operated optical and animation cameras, set up color printing operation in large laboratory. Loyal and hardworking, wishes position in motion-picture production organization or laboratory outside New York metropolitan area. Full resume on request. P.O. Box 145, Fort Lee, N.J.

Positions Available

Exchange Job—TV Cameraman. German TV cameraman in Munich, Germany, TV studio would like to exchange job for 1 yr with TV cameraman in New York, Washington or Philadelphia, including fully furnished apartment in beautiful section of Munich. Write: F. Sittl, München-Bogenhausen, Buschingstrasse 45 XII, Germany. Additional information in New York from: Ursula Heemann, 123 East 39 St., New York 16. YU 6-5478.

Film Technician. Competent, experienced man for technical evaluation of film and to maintain quality control in large film video-tape operation. Send resume and references to: Supervisor of Recording Services, WTTW, 1761 E. Museum Drive, Chicago 37, Ill.

Theatre Sound Engineer. Indian company requires sound engineer for theatre installation and service. Administrative and sales experience desirable. Please send resume and salary requirements in full confidence to: Cinefones, 3 New Queen's Road, Opp: Opera House, Bombay 4, India.

Television Specialists. Require professionals for planning, executing and operating closed-circuit mobile television equipment, and to direct work of other television specialists and technicians. Requires travel in United States. Send resume and inquiries to General Dynamics/Astronautics, P.O. Box 1128, Dept 130-60, San Diego 12, Calif. Attn: Warren B. Jones, Jr., Employment Mgr.

Motion-Picture Sound-Recording Engineers. Motion-picture unit, industrial, requires alert soundmen for staff. Must know all phases of sound recording, transferring, mixing and theory. Send resume and inquiries to General Dynamics/Astronautics, P.O. Box 1128, Dept 130-60, San Diego 12, Calif. Attn: Warren B. Jones, Jr., Employment Mgr.

Color Motion-Picture Printer with experience. Will consider related experience in film handling, negative splicing and other laboratory skills.

Motion-Picture Laboratory Technician with experience in 35mm color processing.

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