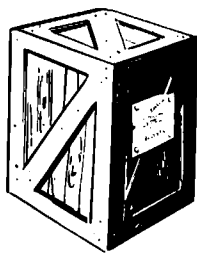


The only negative comment that can be made about the book should be directed at the publishers for doing a poor reproduction job on most of the pictorial material. The halftones are muddy, obscuring important detail, and many of the charts and diagrams as well as reproductions of printed forms such as exposure sheets have been reproduced with a halftone screen instead of line, making it difficult for the reader to study the illustrations to the extent that he should. The pictorial matter suffers because of the use of lithography rather than letterpress. It is hoped that if a second edition of this book is published, that this condition will be rectified, which should make the book twice as valuable as it is now.

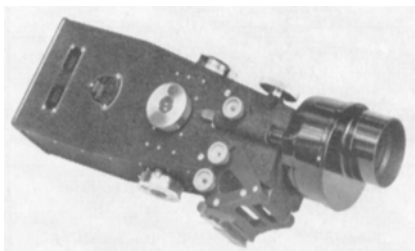
The author has given the reader a number of case histories of various animation jobs, showing them in preliminary and finished form. Although primarily directed to the production of commercial animation, the same treatment applies to theatrical or television show production. Also covered is the interdependence that animation and optical printing have upon each other, a point that is often neglected in other treatments of the subject.

Animation Techniques and Commercial Film Production is a "must" for anyone interested in animation, professional and student alike, and answers many questions that readers of other books found unanswered. Mr. Levitan can take pride in a job well done.—*Ernest M. Pittaro*, Trend Films, 137-73 70th Ave., Flushing 67, N.Y.



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 new **D-R Viewfinder**, announced by Mitchell Camera Corp., 666 W. Harvard St., Glendale, Calif., has two sets of horizontal matte vanes, instead of a standard single set. The new viewfinder is designed to provide the camera operator

with an efficient means for composing for two aspect ratios — Academy and Television, or 1.85 and Academy — whenever this should be required.

(Note: This item is reprinted from p. 58 of the January, 1963, issue of the *Journal*. Through inadvertence, the accompanying illustration was that of the Vari-Stroke control, a product of Mitchell Corp., described on that same page. The *Journal* regrets the error.)

A new power supply, the Frezzo Model 30D, has been announced by Camera Mart, Inc., 1845 Broadway, New York 23. According to the announcement, on full charge the new power supply will run 7,000 ft of film through an Auricon Cine Voice; 2,700 ft of film through a Cine Voice Conversion; and 3,000 ft of film through a Pro-600 or a Super-1200 Auricon camera. A newly designed built-in vibrator unit provides for a 60-cycle frequency check and set-control when operating a 110-v 60-cycle synchronous motor. The unit is equipped with a built-in trickle charger which shuts off automatically when the power supply is fully charged. Recharging is completed in about 4½ hr. The unit employs a special high-power nickel cadmium cell and each cell is provided with a safety valve for complete protection against explosion. A special auxiliary attachment is provided for emergency use, making it possible to tap power from a 12-v automobile battery. A clip-on attachment permits remote control. Price of the power supply is \$350.00. A special model for use with 16mm and 35mm Arriflex cameras is also available. The Arriflex model is priced at \$400.00

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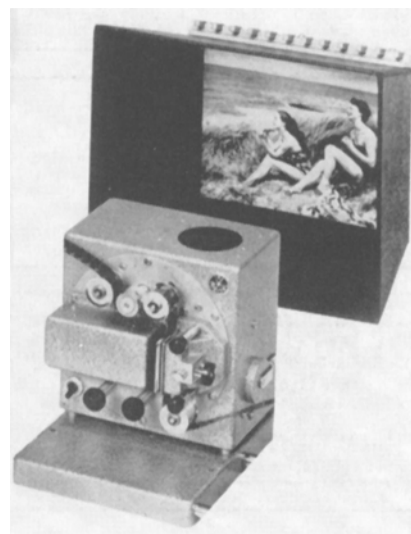
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The **S.O.S. Projectola** for direct front projection editing has been announced by S.O.S. Photo-Cine-Optics, Inc., 602 W. 52 St., New York 19. The unit, measuring 7 by 6 by 7 in., can be mounted on a bench or table and is said to project a large image without flicker or distortion. A four-element projection lens with front objective 40mm diameter comprises the optical system. A rotating 8-sided prism, lens and surface mirror are used to attain a clear 6 by 8-in. image. The unit, for 16mm silent and sound films, left-to-right operation, is priced at \$169.50, including lamp and projection case. Rewinds, rods

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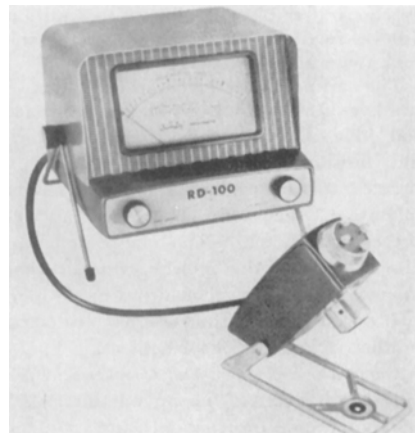
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Filmagic Surfaset, a compound for stabilizing and conditioning film, is a product of Distributor's Group, Inc., 204 14th St., N.W., Atlanta 13, Ga. Film can be treated by wiping, spraying or dipping, according to specific requirements. Chemicals are of low toxicity, said to be harmless to normal skin and easily removed. Available in 8-oz to 1-gal containers, the gallon cans are priced at \$14.00.



The **QuantaLog Model RD-100 color reflection densitometer** has been announced by Macbeth Instrument Corp., P.O. Box 950, Newburgh, N.Y. The machine, designed around the dynode feedback circuit, has only two operating controls (a combination On-Off switch and Zero Adjust Control, and a Calibration Control) plus a filter turret for full color. The photomultiplier tube (probe) has been incorporated into a lightweight housing which is connected to the electronic read-out section by means of a 7-ft flexible cord. The probe is mounted on a hinged aluminum platform, the center of which has a clear acrylic disc, with aperture surrounded by a black circle indicating the area to be measured. Because of the design, the snout of the probe comes in mechanical contact with the stage disc only. The optical system of the densitometer is housed in the tiny aluminum snout which extends from the bottom side of the probe. It is designed for accuracy of ± 0.02 and repeatability of ± 0.01 . The meter scale is linear with optical density, which means that scale divisions are of a common size over the entire scale. For easy reading the smallest scale division is 0.02. The price of the RD-100 is \$595.00.

The **Mini-Monitor**, a transistorized, battery-powered, magnetic sound reader, complete with amplifier and speaker and weighing less than 8 oz, has been announced by Florman & Babb, Inc., 68 W. 45 St., New York 36. Dimensions of the sound reader are 5 by 3 by 2 in. The miniature device is used for field and location use for checking and playing back magnetic tape, or can be attached to the Moviola, the editing table's synchronizer recorder or sound projector, or in other situations where magnetic tape is being used. The Mini-Monitor has both low and high impedance input and can drive an auxiliary

speaker up to 8 in. in size. It is priced at \$49.50.

An improved Cine Voice Conversion for 400-ft and 1200-ft Mitchell magazines has been announced by Florman & Babb, Inc., 68 W. 45 St., New York 36. Featured is a torque motor said to be powerful enough to pull an entire 1200-ft film load. A newly designed system enables the motor to idle at reduced (one-third) power thus keeping the motor cool while maintaining readiness for running the film. Other features include rear camera running light, a motor housing encasing the torque motor and Veeder counter, and an effectively silenced Veeder counter. The conversion, including torque motor and belt, is priced at \$445.00.

The Camart triangle featuring center construction with a recessed casting to eliminate unsteady hinges has been announced by Camera Mart, Inc., 1845 Broadway, New York 23. One stationary triangle bar arm and two moveable bar arms allow the triangle to be collapsed into a flat position for compactness when not in use. The triangle is priced at \$34.95.

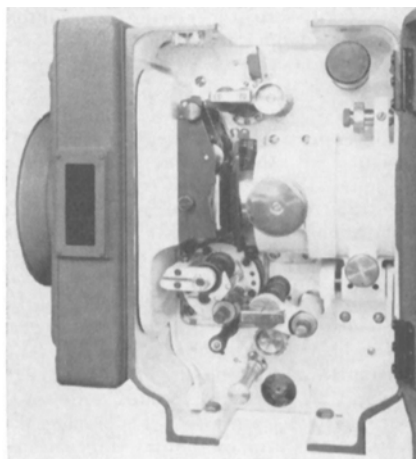
A high-speed film processor, Model R-15, for developing reversal or negative/positive film at 1,200 ft/hr, has been announced by Filmline Corp., Milford, Conn. Features include the Filmline Overdrive System for eliminating film breakage, automatically compensating for elongation, and keeping tank footage constant. A variable-speed drive allows control of development times from 1½ to 12 min. A feed-in elevator and 1200-ft magazine permit continuous processing. Other features include air squeegee, recirculation fittings, air agitation tube, lower roller guards and forced filtered warm air dry-box. The processor measures 77 in. by 60 in. by 30 in. and weighs about 650 lb. The price of \$4,750 also includes temperature control system, bottom drains and valves, developer recirculation and air compressor.

A new Treise processor for black-and-white negative or positive, 16mm, 35mm, or 16/35mm combination has been announced by Treise Engineering, Inc., 1949 First St., San Fernando, Calif. Requiring only 2 by 4 ft of floor space, the processor can be supplied to process 35mm at 2 to 10 ft/min, giving development times of 13 to 26 min, or 16mm at 5 to 20 ft/min, giving development times of 10 to 25 min. The unit is self-contained, requiring only simple plumbing and electric plug-in. The processor has been especially designed to provide a professional quality in-plant processing facility. Prices start at \$2,500.

A new, compact model of the BROR "Cadet" 16mm film processor has been announced by Camera Mart, Inc., 1845 Broadway, New York 23. The processor is 29 in. long, 21 in. wide and 43 in. high. It weighs 229 lb. It processes 16mm black-and-white negative and positive film at processing speeds of 360 ft/hr for negative and 720 ft/hr for positive. Features include stainless steel tanks; bottom

drain on all tanks; friction clutch drive; built-in air compressor; air squeegee in final wash; nylon top drive-shaft support bearings; spray combination wash; filtered forced air in dry box with a strip heater and exhaust duct outlet. The price is \$1595.00.

The Century 50-w all-transistor power amplifier with indicator lamps (plus plug-in provisions) has been announced by Century Projector Corp., 729 Seventh Ave., New York 19. Four special indicator lamps are included for observation of overload, low impedance or short circuit conditions in the output circuit. Price of the power amplifier is \$268.00.



A 70/35mm projector, called the American Century JJ-2 Universal Projector, has been announced by Century Projector Corp., 729 Seventh Ave., New York 19. Features of the new projector include newly designed film traps and film gates and the direct coupling of the mechanism and the optical sound reproducer in conjunction with a Poly "V" motor drive belt to the projector's main drive shaft. Quick and easy removal of the film trap and gate from the projector permits inspection, cleaning and changing to 35mm. The new projector also incorporates a simplified method of changing from the standard 24 frames/sec to a speed of 30 frames/sec. This is accomplished by slipping the multiple "V" belt over to the proper pulley, already mounted in place. Provisions are also included to adapt 3-D sync projection and synchronized separate sound reproducers if required. The price is \$13,000.00 a pair.

The Precision 800 Viewfinder, a low-cost vidicon television camera system designed mainly for commercial and educational requirements has been announced by GPL Division, General Precision, Inc., Pleasantville, N.Y. The building block design permits addition of other cameras or control units as the need arises. For remote operation, the camera portion of the system can be separated from the control unit by up to 1000 ft. A four-lens turret, manually operated from the rear of the camera, accepts standard fixed or zoom-type C-mount lenses. The system employs an electronically regulated power supply, using silicon-diode rectifiers, capable of maintaining system stability over a wide



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range of load fluctuations. Also included are individually regulated d-c outputs of +300, +200, +15, -15 and -150 v. Focus voltage is +500 to +650 v. The system is priced at about \$5,000.00.

A professional color monitor that fits a standard 19-in. rack, the Conrac Model CYA17, has been announced by the Conrac Division of Giannini Controls Corp., Glendora, Calif. The color unit uses both solid state and vacuum tube circuitry, employing a total of 21 vacuum tubes and 95 transistors. The color monitor, which takes 21 vertical inches of standard 19-in. rack space, uses a tri-gun, shadow-mask, 17-in. picture tube. Other features include a precision decoder which allows operating controls to be reduced to "contrast" and "brightness"; a calibrated chroma control which offers a "pre-set" position; the solid state switching-sync drop relay, automatic bandwidth change, and color killer. The color monitor is priced at \$2,450.00.

A new, suitcase-sized television tape recorder, PI-3V, for recording signals from any image-orthicon or vidicon camera, is available from Precision Instrument Co., Palo Alto, Calif. The fully transistorized device has been designed to record both audio and 3.5-mc bandwidth video signal on 1-in. tape at 7½ in./sec. The machine is 2 cu ft in size, weighs 68 lb and requires slightly more than 2½ sq ft of operating area.

The PI-3V will provide economical storage-library capability for educational closed-circuit TV systems and will have numerous applications in the industrial, scientific and engineering fields. Approximately 25% less tape is required compared with earlier TV recorders.

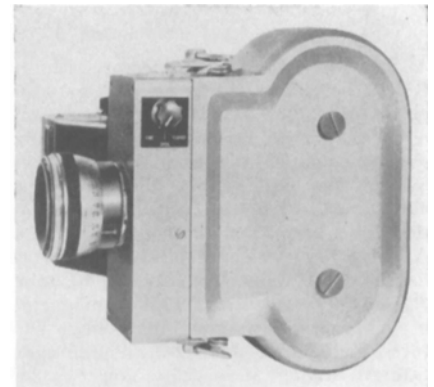
The video signal is placed on the tape by means of a helical scan method using 180° tape wrap and two long-life, high output video heads. Synchronization signals may be either industrial or EIA standards. Tape-transport and scanning assembly is designed to permit interchangeability of recorded tapes. A 10½-in. reel (3,600 ft) will record for 96 min while consuming 350 w, operating at 110 v. Once video and audio levels, phase control and meter selector switch have been set, record, stop and rewind pushbuttons are used to operate. Start time is 4 sec, while rewind time for 3,600 ft of tape is 90 sec.

A high-speed camera, the Stalex HS 60 C, designed at the Research Institute of National Defence of Sweden, primarily for trajectory studies of projectiles, has been announced by AB Stalex, Alströmergatan 39, Stockholm, Sweden. The firm has also announced a 16mm high-speed recording camera, type MS 16 A for photographic studies of movements too fast to be visually observed. The HS 60 C has a maximum frame rate of 1000 frames/sec and a shortest exposure time of 5 usec at 1000 frames/sec. The image size is 10.5 by 54 mm on 60mm unperforated

film. The continuously moving film is compensated during the exposure by a rotating glass prism which exposes only one picture per revolution in order to reach this short exposure time without loss of light in the cylindrical drum shutter.

The type MS 16 A has a frame rate of 50 to 3300 frames/sec. The film capacity is 100 ft. The shutter speed of 1/5 of the reciprocal of the frame rate, i.e., at 3,000 frames/sec, 1/15,000 sec. The camera is equipped with adapter fitting for Elgeet lenses, with focal lengths from 3.7 mm to 152 mm.

A lightweight portable tower, produced by North Products, Inc., Midland Park, N.J., while developed primarily for surveying work, is said to be readily adaptable for support of antennas or cameras. The tower, made of tubular aluminum, consists of an inner instrument-bearing tower and an outer tower supporting the work platform. Prepared foundations are not necessary and the tower can be built to any height in increments of 5 ft.



The Sentinel IV 35mm Recording-Instrumentation Camera for either pulse or cine operation has been introduced by OPTOMECHANISMS, Inc., Engineers Hill, Plainview, N.Y. Possible applications include radar-tube photography, oscilloscope recording, microfilming, space and satellite photography and industrial applications. The unit includes camera body, magazine, drive motor and data package. The camera incorporates a specially engineered clutch assembly and magnetic switching. Electric operation permits synchronized and remote control between two or more cameras. The camera body has, as standard equipment, a Makro Kilar f/2.8 40mm lens that can be focused from 4 in. to infinity. The lens mount is interchangeable. A ground-glass focusing screen is supplied for critical focusing through the lens. The switch-controlled pulse operation allows open-to-open, closed-to-closed, or cine at a maximum of 10 frames/sec. Higher frame rates are available. The shutter can be externally controlled at a rate of 3 to 5 msec between fully open and fully closed. The data package consists of a 24-hr clock that indicates hours, minutes and seconds on a specially designed dial; a 4-digit frame counter, resettable for pulse or cine operation; removable ¼ by 1 in. data card; 6-step illumination control to match film speed ratings; and two separate optical systems. Prices start at \$2,312.

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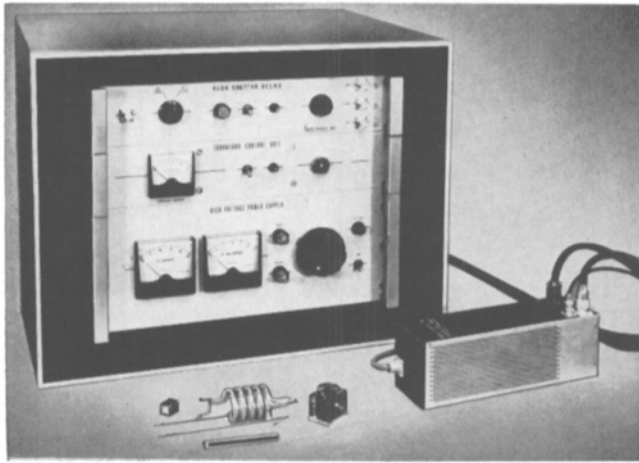




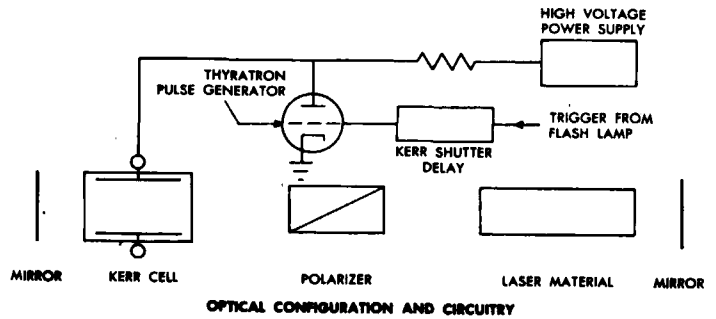
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The Laser Giant Pulse System, a device for producing laser outputs in the 100-mega-watt range, and up, is a product of Kappa Scientific Corp., 49 South Baldwin Ave., Sierra Madre, Calif. The system, designed to control the laser so that all of the energy



is emitted in a single intense burst, consists of a Kerr Shutter; a polarizer and mirrors; a high-voltage power supply; and a Kerr shutter synchronizing unit. Prices start at \$2,600.

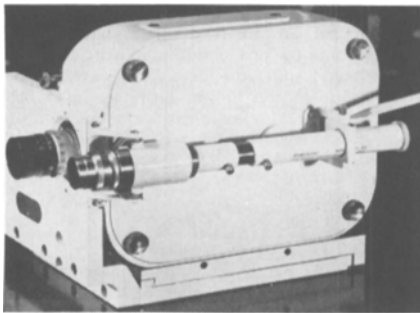
49 South Baldwin Ave., Sierra Madre, Calif. The design combines optimized pulse circuitry with standard electronic components for easy servicing and integration with other laboratory equipment. The basic system consists of a camera equipped with Kerr shutter; a high-voltage pulse generator for operating the shutter; a high-voltage power supply; and a synchronizing pulse generator. Prices start at \$3,939.00.

A six-speed transmission for the DBM-5 16mm high-speed data camera providing frame rates of 24, 48, 64, 128, 250 and 500 frames/sec without requiring gear sets or motor changes has been introduced by D. B. Milliken Co., 131 N. Fifth Ave., Arcadia, Calif. The device, available as an optional feature, has also available a speed selection of 24, 40, 64, 100, 250 and 400 frames/sec. By adjusting a knob, the user may switch from high-speed to documentary photography and vice versa, moving easily from one set-up to another. A G-proof lock keeps the transmission from slipping out of gear and a natural gear position simplified loading.

arc as it moves from one rack position to the other, permitting the use of extreme wide-angle lenses.

Improved versions of the 5-nanosecond Kerr camera systems originally designed in 1957 for Picatinny Arsenal have been announced by Kappa Scientific Corp.,

The Camart Add-A-Unit Extension Plate for Moviolas has been redesigned to allow for greater flexibility in adding extra soundheads to Moviola Series 20 editing machines, according to an announcement



A new rackover for the Milliken DBM-4 or DBM-5 16mm data camera designed to permit the user to look through the taking lens after the camera is loaded, enabling last-minute focus and alignment checks at test sites has been announced by D. B. Milliken Co., 131 N. Fifth Ave., Arcadia, Calif. Easily field-installed, the rackover is said to extend the capabilities of the camera to include documentary filming and tracking. The ocular, a Milliken B-02 boresight, doubles as a parallax-compensating viewfinder for documentary shooting when the camera is in the "taking" position on the rackover. An etched format limit and center cross are included on the ground glass. The new unit is designed to overcome the inability of many rackovers to accept rear-protuding lenses. The camera backs away in an

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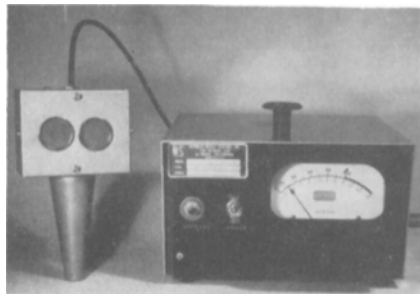
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from Camera Mart, Inc., 1845 Broadway, New York 23. The Add-A-Plate unit is designed to be instantly attached to the Moviola without drilling into the cabinet or bolting it to the chassis. It is said to be just as simple to remove and use with another machine. The newly designed unit permits adding at least two more soundheads so that the editor can check three separate soundtracks, if necessary. The price is \$259.50.



An Acoustic Sound Monitor, designed to measure accurately the sound intensity of any theater with respect to an increase or decrease of seated patrons has been introduced by Reynolds Rocket Systems, Inc., 2301 Alexdale Lane, La Puente, Calif. The sound monitor makes it possible for the projectionist to see at a glance whether the sound volume should be increased or decreased, and thus be enabled to maintain at all times a comfortable listening level.

The Mitchell Triplex Tilthead is designed to "do the job of three friction heads," according to an announcement from Mitchell Camera Corp., 666 W. Harvard St., Glendale, Calif. The design is based on the use of three compression springs, each accommodating a different weight, coupled with an "almost instantaneous" method of interchanging. The tilthead, fitting all standard Mitchell tripod bases, is designed to accept any Mitchell camera from the "16" professional to the heavy duty BNC. Other features include a variable top plate adjustment to permit instant correction to center of gravity; telescoping pan handle to adjust to a wide variety of positions, rotating 360° to provide right- or left-hand operation; built-in spirit level; and easily grasped large brake levels for locking the pan and the tilt. The tilthead is priced at \$700.00.

The Cinephonic Mark IV system, introduced by Fairchild Camera and Instrument Corp., 580 Midland Ave., Yonkers, N.Y., consists of an 8mm rear-screen, sound film portable projector and a plastic program cartridge about the size of a paperback book, which contains the 8mm magnetic sound film. Use of the cartridge simplifies operation by making unnecessary film handling, threading or rewinding. The projector weighs 20 lb and measures 13 by 14½ by 16 in. The program cartridge can hold up to 400 ft of 8mm color sound film for a maximum projection time of 22 min or up to 30 min in black-and-white.



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Positions Wanted

Photo-Instrumentation Specialist. 13 yrs experience in the application of R&D photography for data analysis of rockets, missiles and static test components requiring employment of standard or specialized equipment. Have general knowledge of conventional and specialized camera mechanisms, film emulsions and related photographic equipment. Also, managerial experience in the operation of motion-picture and still film processing laboratories, both B&W and color. Résumé on request. A. H. Soria, 3608 Broadmor Rd., NW, Huntsville, Ala.

Director-Cameraman. 13 yrs experience in motion picture, newsreel and television productions. Retiring from 20 yrs active Naval Service, April 1963. 36 yrs of age. Desire position in eastern U.S. For full resume please write: Richard Simpson, 4521 31st Street, South, Arlington 6, Va.

Motion-Picture Production. Wanted: Association with producer of educational films in New York City area. M.W., P.O. Box 97, Midwood Station, Brooklyn, N.Y.

Director of Sound Recording, with 13 yrs experience in the production of industrial motion pictures and slidefilms for a large eastern electrical manufacturer invites position offers which would afford further advancement both in position and salary status. Resume on request. M. D. Robinson, 5 Koon St., Troy, N.Y.

Positions Available

Cameraman. Send prints of productions you have filmed, plus any other footage you have shot. Minimum requirement is ability to operate camera without errors. We are looking for imaginative man to work up to director of industrials and TV spots. Frank Willard Productions, 1842 Briarwood Road, NE, Atlanta 6, Ga.

Chief Tape Editor. To instruct and supervise group of tape editors in voice recording dept. of leading So. Calif. manufacturer; must have thorough knowledge of speech communications patterns, use of acoustical filters, equalizers, etc. Also:

Sr. Disc Recording Engineer. To operate and maintain custom recording equipment for same manufacturer as above, adapting to exotic recording techniques; thorough practical experience in electronics and recording necessary. Both these permanent positions offer excellent salaries and fine company benefits. Send complete resume in confidence to P. O. Box 48458, Dept. B, Los Angeles 48, Calif.

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