

Journal of the Audio Engineering Society
vol. 6, Apr. 1958
The "Stereosonic" Recording and Reproducing System (p. 102) *H. A. M. Clark, G. F. Dutton and P. B. Vanderlyn*

Kino-Technik vol. 12, Mar. 1958
Die Kinematographie als Zeit-Wegschreiber-Methode (p. 58) *J. Rieck*
Die Herstellung von Filmkopien im Flüssigkeitsbad (p. 61)
Der Einsatz von Transistoren in Tonfilmverstärkern (p. 65) *H. Thiele*
Entwicklungstendenzen im Bau von Schmalfilmprojektoren (p. 69) *H. Thiele*
Pariser Cinemathèque Française jetzt in neuen Räumen (p. 72)

vol. 12, Apr. 1958
Der 16-mm-Film im Berufseinsatz (p. 84) *G. Beissert*
Einsatz des Schmalfilms für Studium und Lehrzwecke (p. 90) *H. Weise*
Kameras und Projektoren für den 16-mm-Schmalfilm (p. 99)

vol. 12, May 1958
Die Fernseh-Grossprojektion erlangte Praxisreife (p. 118) *A. Narath*
Physik und Technik des neuen Eidophor-Projektors (p. 119) *E. Gretener*
Die Bedeutung des Eidophor-Verfahrens für Lehrzwecke (p. 124) *J. G. J. Metzner*
35-mm-Magnettonanlagen für mehrsprachige Wiedergabe (p. 126) *H. Lindemann*

Proposed German Standards (p. v-viii):
DIN 15 560 Blatt 1 Kinotechnik: Stufenlinsenscheinwerfer für Lichtwurf Lampen—Anschlussmasse, Vorsteckrahmen
DIN 15 560 Blatt 2 Kinotechnik: Stufenlinsenscheinwerfer für Lichtwurf Lampen—Stufenlinsen, Hauptmasse
DIN 15 557 Lichttonfilm-Wiedergabe: Verstärker für 35-mm-Film—Richtlinien für die Bemessung von ortsfesten Verstärkern in geschlossener Einheit
DIN 15 506 Blatt 3 Film: 35-mm Prüf- und Messfilme—Frequenz-Messfilm

vol. 12, June 1958
Entwicklung und Stand der Fernseh-Studio-technik (p. 151) *P. P. Süther*
Internationales Fernsehprogramm durch Normwandlung (p. 156) *R. Dombrowsky*
4 GHz-Breitband-Richtfunksysteme zur Fernübertragung (p. 159) *K. H. Lissner*
Trickoma II—eine neue optische Trickumkopiermaschine (p. 162)

vol. 12, July 1958
Das Filmtheater von Morgen—Neue Wege und Möglichkeiten (p. 178)
Eine aussergewöhnliche Anwendung filmtechnischer Mittel (p. 183)
Die ersten Versuche mit Breitwand- und Panoramafilmen (p. 186) *P. Raibaud*
Ein Laufzeitgerät zur künstlichen Schallverzögerung (p. 191) *Hepper*

Periodica Polytechnica vol. 1, No. 1, 1957
A New Instrument for Testing Stereoscopic Vision (p. 1) *N. Bárány*

vol. 1, No. 2, 1957
Wide-Angle Image Forming Systems (p. 105) *N. Bárány*

Popular Photography vol. 43, July 1958
Photography in the Space Age (p. 51) *Lloyd Mallan*

PMI—Photo Methods for Industry
vol. 1, Apr. 1958
Photography for Motion Analysis (p. 46)

Technical News Bulletin April 1958
Processing Information on Digital Computers, *NBS Reference*

Tekhnika Kino i Televideniya, USSR No. 6, 1958
New Developments in the Field of Filming Techniques (p. 6) *I. B. Gordiuchuk*

On the Expediency of the Lengthwise Frame in Wide-Screen Cinematography (p. 16) *E. M. Goldovskii*

Characteristics of Television Cameras With a Double-sided Target (p. 37) *I. K. Malakhov and B. V. Krusser*

KZM-6 Magnetic Sound-Recorder (p. 63) *V. V. Rakovskii*

Apparatus for Synchronizing the Starting up of Picture and Magnetic Soundtrack Coupled With Film (p. 69) *O. B. Rogatkin*

A Method of Producing Special Effects in Sound Films (p. 72) *E. G. Makhnovskii*

Zhurnal Nauchnoi i Prikladnoi Fotografii i Kinematografii, USSR vol. 3, No. 2, 1958

The Reactivity Characteristics of Non-diffusing Couplers With a High Activation Energy in Colour Development (p. 117) *S. P. Sharlandzhiev and V. S. Chelitsov*

The Use of the SKS-1 High-Speed Camera for the Photography of Distant Objects (p. 131) *G. I. Zubovskii, V. G. Latyshev and L. A. Novitskii*

The Influence of Hypersensitization by Amines on Low-Intensity Reciprocity Failure (p. 136) *K. V. Vendrovskii and V. I. Sheberstov*

An Equation for the Solution of Problems Concerning Threshold Characteristics of Photographic Apparatus in Distinguishing Separate Objects in the Field of View (p. 138) *L. P. Moroz*



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 Ampex Videotape Splicer has been announced by Ampex Corp., 934 Charter St., Redwood City, Calif. The splicer is a semiautomatic device which employs a

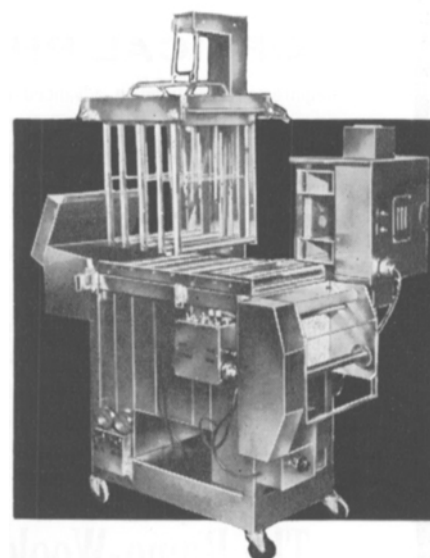
Fisher PROCESSALL

**Develop, Fix, Wash and Dry
Film or Paper—AUTOMATICALLY!**

Processing occurs by means of spray immersion. Film and paper are dried by turbulent heated air. Fisher-built pumps assure absolute dependability. Washing is effected by spray through air, plus immersion.

The film processing time, while in the tanks, can be varied by adjusting rollers. The rate of film travel can be set from 1½ ft. to 12 ft. per minute. Solution temperatures can be regulated.

Entire unit is constructed of type 316L, 18-12 low carbon stainless steel, Heliarc welded throughout. Designed to meet the needs of every modern lab, the Fisher Spray Processall is foolproof, trouble-free and requires a minimum of maintenance.



MODEL G-8 accepts film or paper up to 6" in width. Occupies 14 cubic feet, weighs 175 lbs. 43" long, 13" wide, 66" high.

MODEL G-12 accepts film or paper up to 12" in width. Occupies 20 cubic feet, weighs 325 lbs. 43" long, 20" wide, 66" high.

**OSCAR
FISHER
COMPANY, INC.**

pecially developed carbonyl iron solution called Edivue. The solution is used to make visible editing pulse marks which appear at $\frac{1}{4}$ -in. intervals along the bottom of the tape. The tape can be cut and spliced at one of the editing points. Exactness to $\frac{1}{10}$ in. is possible as the tape is played at the speed of 15 in./sec. There is a margin of safety of 1 in. as a cut can be made four pulses away from any indicated spot without noticeably affecting the picture. Designed especially for day-to-day use at local stations, the splicer is expected to be particularly useful in editing news events and commercials. Program requirements frequently call for cutting a commercial, for example, from 1 min to 30 sec.

A splice kit, which includes the splicer, Edivue fluid, powder and pen, splicing and leader tape, and blades, is commercially available. The unit includes a shatter-proof glass shelf for mounting the splicer on a Videotape console. The complete kit is priced at about \$780.00.

Papers from the three recent SMPTE Conventions are now planned for the November *Journal*. They will cover monochrome and color recording, interchangeability of recordings, conversion from monochrome to color, and splicing and editing.

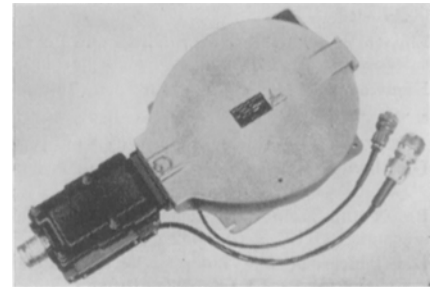
A dark tunnel, developed in the Santa Barbara, Calif., Laboratories of Raytheon Mfg. Co., for "outer-space" experiments, incorporates some interesting optical devices to simulate conditions to be encountered by space pilots exploring the uncharted regions between the stars. The tunnel, constructed by Raytheon for its

own use, is 100 ft long, 24 ft wide and 8 ft high. This basic structure is divided into three separate 8-ft wide dark tunnels by partitions, which can be closed to conduct three separate experiments. If the use of a single 300-ft long dark tunnel is required, a series of four mirrors may be used to provide an optical path which passes through the three tunnels successively. This folding of the optical path is accomplished by using two mirrors 20-in. in diameter and two 12-in.-diameter mirrors. Each mirror is flat to within one fringe of sodium light across its surface.

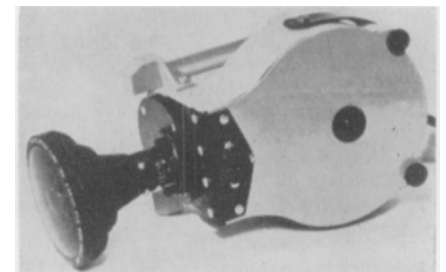
For many experiments a 300-ft true path is insufficient. If required, an apparent extension of optical path is obtained through the use of an optical attenuator composed of one or two convex spherical mirrors of short focal length. A first order approximation of the attenuator operation may be obtained as follows: If, for example, the spherical mirror has a focal length of 1 in. and the source to be observed is 88 ft from the mirror, at the receiver, the angle subtended by the source image formed by the convex mirror will be reduced approximately as the square of the ratio of focal length to source distance. Except for mirror losses, the image has the same brightness in watts/centimeter. Therefore, placing the receiver at a distance of 5 ft from the mirror results in a flux density equivalent to that which it would receive if placed a mile from the original source. Similarly, with the receiver at 10 ft, the effective source distance is two miles. In the event that still larger attenuation or effective increase in source distance is

required, two mirrors can be used in tandem — the second forming a reduced secondary image of the small image formed in the first mirror.

A new series of loudspeakers, 12-in., 15-in. and 18-in. Hi-C (high compliance) has been announced by Racon Electric Co., 1261 Broadway, New York 1, manufacturers of industrial and high-fidelity loudspeakers. Features include a plastic foam suspension between the cone and basket to provide high compliance and the resulting lowered resonant frequency. Prices are listed from \$39.50 for Model 12-AW, woofer for 2-way or 3-way speaker systems; to \$150.00 for Model 18-HW, a high compliance 18 in. woofer for cleanest low-frequency response.



The Multidata M-3, a 16mm film magazine with 800-ft capacity, has been announced by Flight Research Inc., P.O. Box 1-F, Richmond 1, Va. Designed for use with its MOD III and MOD IIIB cameras, the magazine is designed to feed film for any camera speed up to 40 frames/sec in either cine or pulse operation without readjustment of the camera. The unit consists of a film transport, film chamber (stacked reel design), a drive motor assembly which mounts on the film chamber, and two daylight loading reels with removable flanges to accept film on standard raw stock core. A mounting plate adapts the camera for use with the magazine. Other features include an automatic cutoff switch and thermostatically controlled heater for low-temperature operation. The magazine weighs 9 lb 2 oz empty and 10 lb 11 oz when loaded with 800 ft of film. It is 10 in. high, 13 in. long and $4\frac{1}{8}$ in. thick.



A compact 16mm airborne instrumentation camera, called Traid 560 Fotomatic, has been developed by Traid Corp., 17136 Ventura Blvd., Encino, Calif. The camera, of stacked spool design, is 8 in. long, $5\frac{3}{8}$ in. wide and $6\frac{1}{2}$ in. high. It has a speed of 200 frames/sec, holds 200 ft of film on daylight loading spools, and, loaded, weighs 6 $\frac{3}{4}$ lb. It meets Mil Spec 5272A and withstands acceleration to 25 g. A 28 v d-c governor controlled motor provides continuous or intermittent operation. Shutter opening of 72° provides exposure

Ramo-Wooldridge

invites inquiries from engineers and physicists interested in exploring new openings in the following areas:

OPTICAL PHYSICS

Requirements include an advanced degree or several years of comprehensive experience, coupled with specific interest and capability in the development of equipment designed for the processing of photographs and correlated data and involving high acuity optics, and optomechanical, electromechanical, and electronic components.

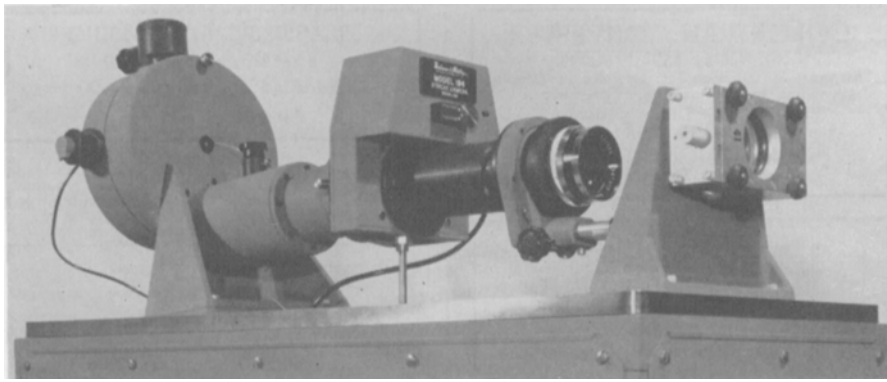
PHOTO PROCESSING

Applicants should hold a B. S. degree and have five years of experience in both the theoretical and practical aspects of modern film-processing techniques and equipment. They should also have capabilities in preliminary design, monitoring equipment installation, and operation of specialized processing equipment.

Inquiries should be addressed to Mr. Frank C. Nagel.

The Ramo-Wooldridge Corporation

P. O. BOX 45215, AIRPORT STATION
LOS ANGELES 45, CALIFORNIA

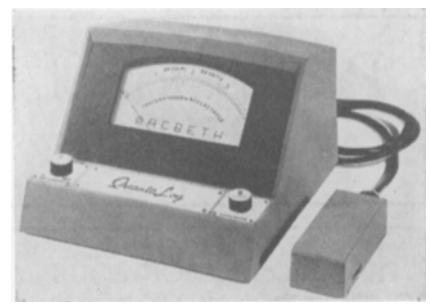


Model 194 Continuous-Writing Streak Camera, a product of Beckman & Whitley, Inc., 973 San Carlos Ave., San Carlos, Calif., produces a documentation which is a plot of space in one direction vs. time in a 90° direction. Designed to be a research tool for photo-instrumentation study of self-luminous transient events, the instrument is mounted on its own base and control housing. Standard 35mm film, ar-

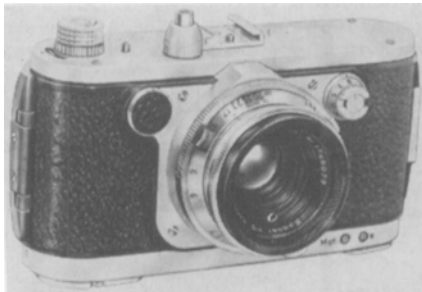
anged for daylight loading and unloading, is used. The image is swept onto this film by a rotating triangular mirror driven by a high-speed turbine. The maximum writing rate is approximately 8mm/μsec, total writing time at top speed, 58 μsec. Maximum time resolution, using a 0.004-in. wide slit image and film having a resolution of 75 lines/mm, is 2.5×10^{-8} . The record is approximately 18.5 in. long.

speed of $\frac{1}{1000}$ sec at 200 frames/sec. The camera is available with standard "C" lens mount or GSAP mount. Accessories include boresights, track finder, and various 16mm lenses including the Fotoperiscope lens assembly. Optional features include a timing system, output pulse installation, positive viewfinder with 3-objective turret and shutters from 7° to 204°.

for absorbing transmission peaks of higher order. The location of λm is maintained with an accuracy of ±1% for type IR-AL and of ±0.05% for type IR-PAL. Maximum transmission of both types decreases with rising λm from about 50% at 1000 mμ to about 20% at 2000 mμ. Available in standard size of 2 in. by 2 in. or 50 mm diameter, the IR-AL is priced at \$60.00 and the IR-PAL at \$97.00. Special sizes can be made to order.



The Macbeth QuantaLog, a photometer designed for versatility and economy, has been announced by Macbeth Corp., P.O. Box 950, Newburgh, N.Y. The basic instrument is designed for ready connection to suitable attachments, some still in the process of being designed, which permit it to be used for densitometry, photometry and colorimetry. The unit features direct reading 0 to 4.0 density meter scale; accuracy of ±.02 density units over the entire scale when used with the firm's Transmission Attachment or Reflection Head Attachment; low input of 25 w; full-scale sensitivity of 4.0 density with excitation of only 0.01 microlumens; and building-block design to facilitate connection of the various optical attachments. The two attachments mentioned are in production, and a digital readout attachment is being designed. The basic photometer has been announced as costing less than \$400.00 without attachments, described in the firm's Bulletin No. 287.



The Robot Recorder, a 35mm camera designed for adaptation to various photographic registration applications, has been announced by Karl Heitz, Inc., 480 Lexington Ave., New York 17. The camera may be ordered with a kinographic mechanism for photographic sequence operations, at speeds up to 6 frames/sec. A built-in spring motor is incorporated for automatic film transport, shutter cocking and film counting. Available in 3 frame sizes, 36mm, 24mm and 18mm, it is priced at \$149.00 without lens.

A 32-page booklet on photographic automation, "No: Register Photographically!" is available from Karl Heitz, Inc., describing the system and line of equipment by Robot-Berning & Co., Düsseldorf.

An addition to the Schott line of **Interference Band Filters** has been announced by Fish-Schurman Corp., 70 Portman Rd., New Rochelle, N.Y. The new filters are for the infrared spectral region from 1000-2000 mμ. Available in two types, Infrared Band Filters (IR-AL) and Infrared Precision Band Filters (IR-PAL), they are cemented to a suitable colored glass filter

NEW PRODUCTS FOR YOU FROM BIRNS & SAWYER



COOKE SPEED PANCHRO 18mm

Newest of the fine Series II Cooke lenses for 35mm Arri cameras. Wide (18mm); Fast (f1.7) and Handsome, it is exclusive at Birns & Sawyer in the West.

Cat. No. 1310 \$495



WIDEST WIDE-ANGLE FOR ARRI 16

Widest and newest lens for the 16mm Arri is this 5.7mm, f1.8 lens with 113 degree coverage. Fast, sharp, it has incredible coverage. Exclusive at Birns & Sawyer in the West.

Cat. No. 1330 \$499⁵⁰

RENT OR BUY • WE SUPPLY



ARRI 35 CAMERA BARNEY

Sound-muffling barney reduces camera noise 65%. Constructed of kapok, lead foil, flannel and foam rubber covered with heavy duty green duck, barney covers camera, 480-ft. magazine and either wild or sync motor. Made in Hollywood to Birns & Sawyer specifications. Pictures show front and back views.

Cat. No. 1450 \$99⁵⁰



BIRNS & SAWYER

8910 Santa Monica Blvd., Los Angeles 46 • OLeander 5-6970

Professional Services

APPRAISALS OF FILM PRODUCTION EQUIP.

Cameras, Lenses, Lights, Recorders, Cutting Rooms, Laboratories, Printers, Processors, etc. 32 years background, gilt-edged references, assure acceptance by banks. Small Business Administration. Confidential, fees reasonable. Appraisers, Room 610, 147 W. 42nd St., New York 36. Phone: PLaza 7-8121.

BERTIL I. CARLSON

Photoproducts Co.

Consultants, designers, builders in PHOTO INSTRUMENTATION
Color Processors • Cameras • Projectors
Box 60, Fort Lee, N. J.

CRITERION FILM LABORATORIES, INC.

Complete laboratory facilities for 16 & 35mm black-and-white and color
33 West 60th St., New York 23, N. Y.
Phone: COLUMBUS 5-2180

ELLIS W. D'ARCY & ASSOCIATES

Consulting and Development Engineers
Xenon-Arc Applications
Motion-Picture Projection
Magnetic Recording and Reproduction
Box 1103, Ogden Dunes, Gary, Ind.
Phone: Twin Oaks 5-4201

EAGLE FILM LABORATORY, INC.

(Established 1951)
A 16MM SPECIALIST LABORATORY
341 E. Ohio St., Chicago 11, Ill.
WHitehall 4-2295

FISCHER PHOTOGRAPHIC LABORATORY, INC.

EUclid 6-6603
6555 North Ave., Oak Park, Ill.

RENT

16mm, 35mm, 70mm
Motion Picture Cameras
High Speed Cameras
Special Cameras
Lenses
Lights
Processing Equipment
Editing Equipment

GORDON ENTERPRISES

5362 N. Cahuenga, North Hollywood, Calif.

MITCHELL CAMERAS

Studio—Industry—Science—Research
16mm—35mm—65mm and Accessories
For Demonstrations Visit Our Showroom and Offices

For Technical Information and Brochures Write
MITCHELL CAMERA OF NEW YORK, INC.
821 Fifth Ave., New York 17, N. Y. Oxford 7-0227

COLORTRAN CONVERTER LIGHTING EQUIPMENT

The most illumination for the least investment
CROSS COUNTRY RENTAL SYSTEM
ELIMINATES COSTLY SHIPPING
write for catalog
NATURAL LIGHTING CORP.
612 W. Elk, Glendale 4, Calif.

PHOTOGRAPHIC INSTRUMENTATION

Specializing in HIGH-SPEED
Motion-Picture Photography
Photographic Analysis Company
100 Rock Hill Rd., Clifton, N. J.
Phone: Prescott 8-6436

PROFESSIONAL MOTION PICTURE PRODUCTION EQUIPMENT

Cameras, Sound Recording, Editing, Laboratory and Affiliated Equip.
Consulting Services by Qualified Engineers
Domestic and Foreign
REEVES EQUIPMENT CORP.
10 E. 52nd St., NYC
Cable: REEVESQUIP

SUPPLIERS PHOTOGRAPHIC CHEMICALS and

Consultants in Photographic Chemistry
L. B. Russell Chemicals, Inc.
14-33 Thirty-First Avenue
Long Island City 8, New York
YELLOWSTONE 2-8500

SLIDE-FILM LAB

Circle 5-4830

USE A SPECIALIST!

We specialize in color filmstrip work:
(1) Shooting masters
(2) Release prints
Contract rates available
CUSTOM FILM LAB
1780 Broadway, N.Y. 19, N.Y.

WILLIAM B. SNOW

Consulting Engineer
STUDIO ACOUSTICS
NOISE CONTROL
1011 Georgina Avenue
Santa Monica, California
KXbrook 4-8345

FILM PRODUCTION EQUIP.

The world's largest source of supply for practically every need for producing, processing, recording and editing motion picture films.

Domestic and Foreign

S.O.S. CINEMA SUPPLY CORP.
Dept. TE, 602 W. 52 St., N.Y.C. Cable: SOSOUND
Western Branch: 6331 Holly'd Blvd., Holly'd, Cal.

ALL 16mm PRODUCERS SERVICES

Equip. Rentals • Technical Crews
40 X 70 Sound Stage
16mm LABORATORY FACILITIES
Exclusive TRIAD Color Control
Additive Color Print Process, Plus B & W
SOUTHWEST FILM CENTER
3024 Ft. Worth Ave., Dallas 11, Texas

ROCKY MOUNTAIN HEADQUARTERS

For 16mm Film Services
B&W and Anscochrome Processing
Printing—Recording—Editing
Production—Rental—Sales
All types of film in stock
Write for Price List
WESTERN CINE SERVICE, INC.
114 E. 8th Ave., Denver 3, Colo. TABor 5-2812

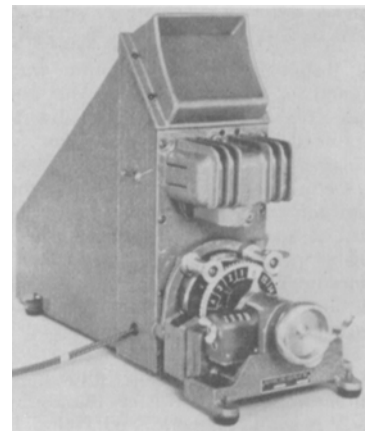
CLASSIFIED ADVERTISING

First three lines \$5.00
Each additional line \$1.00
per inch \$13.00

FOR SALE: Spectra Brightness Spot Meter Model SB-1 1/2, Serial No. 327, with case. In good condition. \$400.00. Carbons, Inc., Box 217, Boonton, N.J. Tel.: Deerfield 4-5500.

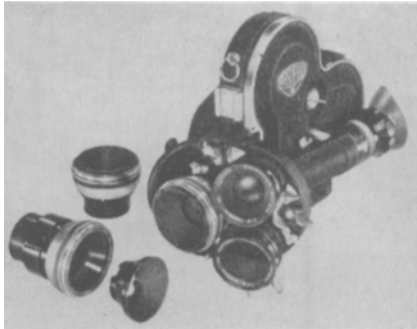


A lightweight television camera pedestal, designed by W. Vinten Ltd., especially for use with vidicon or other lightweight cameras, has been announced by Cinematograph Export Ltd., 715 North Circular Rd., London, N.W.2. Design emphasis is on maneuverability. A triangular base is mounted on three wheels interconnected with chain and sprockets. The camera pan and tilt head is mounted upon a central column and can be moved to a maximum height of 61 in. and to a minimum of 34 in., measured from floor level. The pedestal is capable of supporting weights up to 100 lb.



The NCE 35mm Viewer is a product of National Cine Equipment Inc., 209 W. 48 St., New York 36. Designed to combine in one unit the functions of viewer, synchronizer, footage counter and frame counter, it can be used with a sound reader for single-system or, with additional 35mm or 16mm sprockets, for double-system editing. Soundheads for magnetic tape can be added to additional sprockets for any number of magnetic tracks. Picture size is 3 1/4 in. by 4 1/4 in. The price is \$595.00.

A trigger-grip handle which fits all Filmo 70 series cameras and is also available for the 240TA has been announced by National Cine Equipment Inc., 209 W. 48 St., New York 36. A tripod screw at the bottom of the handle holds the camera securely in place and a spring-loaded shutter release depresses a hook extension over the top of the Filmo Camera to release the regular camera button. It is priced at \$29.95.



A new lens has been designed for use with Arriflex 16mm and 35mm cameras to permit continuous focusing from infinity to 4 in. Announced by Kling Photo Corp., 257 Fourth Ave., New York 10, as the 40mm *f*/2.8 Kilfitt Makro Kilar A, it weighs 6 oz and incorporates an unusually long helical mount to permit covering the extreme focusing range. *F*-stops from 2.8 to 22 may be pre-set to permit focusing with wide-open lens, and instant change to the selected *f*-stop for shooting. The price is \$195.00. Illustrated is the 40mm *f*/2.8 mounted on Arri 16 turret, fully extended with lens-shade filter holder removed.

A camera stabilizer has been developed by Howard Dearborn Inc., 678 Front St., Berea, Ohio, to prevent unsteadiness resulting from use of the camera. Called the Dearborn Stabilizer, it is constructed of anodized aluminum tubing, fitted with compensating weights. The unit includes a titling glass which may be attached to the ends of the stabilizer at a recommended 20 in. from the camera lens, to be used for making background titles. The equipment has been marketed for makers of newsreels and industrial motion pictures.

Gossen photoelectric exposure meters and color temperature measuring devices are described in a 10-page folder available from Kling Photo Corp., 257 Fourth Ave., New York 10. The folder illustrates and describes meters ranging in price from the Dual-Sixon at \$13.95 to the Sixicolor color temperature meter at \$39.95.

Supplement sheets to the Sylvania Photolamp Technical Manual have been issued by Sylvania Lighting Products, 1740 Broadway, New York 19. The sheets describe the company's new interval reflector projection lamp and flash-bulbs and include a Projection Lamp Index.

Bulletin No. 5 in the series of National Projector Carbon Bulletins has been issued by National Carbon Co., 30 E. 42 St., New York 17. The new bulletin discusses operating precautions and describes recommended procedures and techniques.

Information on filters suitable for Anscochrome and Super Anscochrome film when used under fluorescent lighting is offered by Ansco, Binghamton, N.Y. Although exact recommendations are not possible because of variations in fluorescent tubes and because reciprocity law failure may be a factor, the information is offered as a starting point for tests to be made by the photographer.

Lamps	Tungsten Film	Daylight Film
Soft white	10R + 30Y	10B + 30C
Standard cool white	40R + 30Y	10B + 10C
Daylight	50R + 50Y	10B
Standard warm white	10R + 20Y	10B + 30C
DeLuxe warm white	10R + 20Y	20B + 30C
White	20R + 20Y	20B + 20C

The Ampro Super Stylist 8, 10 and 12 series of 16mm sound film projectors is produced by Graflex Inc., Rochester, N.Y. The firm is a subsidiary of General Precision Equipment Corp. The Super Stylist 10 is reported of special interest to institutional audio visual users. It has a 10-w amplifier and a 10-in. Alnico 5 permanent



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

Photographic and Optical Engineer. Member of technical staff Bell Telephone Labs 21 yrs; Wollensak Optical Co. 4 1/2 yrs; Fairchild Camera & Instrument Co. 3 1/2 yrs. Familiar with practically every phase of engineering photography. Established primary techniques for complete photographic systems including film processing. Designed high-speed motion-picture and recording cameras. Developed new techniques for use in underwater, aerial, missile, industrial and research problems of motion analysis. Can lecture, sell. Author numerous publications and *Photographic Motion Analysis* (Industrial Laboratory Publishing). Served as consultant to many organizations. Fellow SMPTE and Royal Phot. Soc. Founded SMPTE High-Speed Committee and organized first International High-Speed Congress. Salary open. Will relocate. John H. Waddell, 33 Loretta Dr., Syosset, L. I., N. Y. Tel: WALnut 1-5469.

Engineer-Photographic. Extensive experience in design and development of military and consumer opto-electro-mechanicals, photographic products and instrumentation. Capable of assuming complete responsibility from creative inception to acceptable prototype. Experienced in

magnet speaker mounted in the case cover. Features of the projectors listed are distortion-free amplifier; enlarged "bass reflex" type baffling chamber; triple claw movement; precision gear drive; and simplified threading.

The Brownie Scopesight Movie Camera, available in single-lens or turret model, has been announced by Eastman Kodak Co., Rochester 4, N.Y. Designed for amateur use, both models feature a built-in light meter coupled to an optical viewfinder; *f*/1.9 lens with full and half stops to *f*/16; multi-frame telescopic finder; and two built-in filters that can be flicked in and out of position. The single-lens model is priced at \$79.50, and the turret model at \$99.50.

A film editing outfit designed especially for amateur motion-picture photographers has been announced by Eastman Kodak Co., Rochester 4, N.Y. The package includes the new Kodak Movie Rewind, the Presstape Movie Splicer and one package each of 8mm and 16mm Presstapes. The outfit is priced at \$13.90. The Rewind can be purchased separately for \$6.95. It consists of a wire-form base and two rewinds that accept both 8mm and 16mm reels.

manufacturing procedures, design simplicity and parts interchangeability. Seeking project assignment or part-time engagement. Write: R.V.N., 59 New York Ave., Westbury, L.I., N.Y.

Cameraman. Have Bolex H16 equipment; will travel. Age 32. 10 years experience news, travel films, wildlife, etc. Go anywhere, anytime. Jack M. Sullivan, Offtrail Films, P. O. Box 86/3904 Sockwell Blvd., Greenville, Texas. Tel: GLadstone 5 2679/5 1424. Send for Confidential Service Bulletin #4.

Positions Available

Cameramen. Staff position. References and resume of experience required. Confidential. **Sound Technicians.** Experience, references. Permanent position. **Laboratory Technicians.** Timing experience. Permanent position. Write: I. C., 423 East 90 St., New York 28.

Electronic Engineer (Television Division). Qualifications: Engineering degree or equivalent; 3 yr general electronics and 1 yr television experience; extensive knowledge of vidicon and image orthicon monochrome and color systems, broadcast and closed-circuit systems, kinescope and video tape recording techniques and equipment, and microwave transmitting and receiving video and audio equipment. The incumbent of this position plans, designs, advises upon, coordinates, tests and evaluates development of television equipment, systems and facilities to determine their application in military service. Salary \$10,130 per annum. Contact Miss Mary Jane Kerwin, Personnel Management Branch, Civilian Personnel Office, Army Pictorial Center, 35-11 35th Ave., Long Island City 1, N. Y. Tel: RAvenswood 6-2000, ext. 238.

Motion Picture Specialist. U.S. Civil Service Commission announces an unassembled examination for producer-directors, script writers and editors, and film editors for duty with Dept. of Agriculture, Dept. of the Navy and in a few foreign positions. Salaries \$4,525 to \$8,990. Complete details are in Announcement No. 157 B, obtainable from U.S. Civil Service Commission, Washington, D.C.