

NEWLY DESIGNED JOURNAL BINDERS

to keep your Journals
easily accessible
and in good order.
This sturdy, handsomely
imprinted rod-binder
holds a year's
issues (12)
plus Directory.

Each issue can be easily bound or detached!
Order these durable, high-quality binders
from SMPTE — Price: \$3.50, plus postage.

SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS

9 East 41st Street, New York, N. Y. 10017
(212) TN7-5410

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 Berndt Super-16 Camera has been announced by Cinestar International, Inc., 4334 Tujunga Ave., Studio City, CA 91604, as part of a super-16 system. This system uses the new type of Super 16mm stock, which is the usual 16mm width, but carries one or two rows of super-8 perforations, two holes to a frame. With the single row stock in a silent version, that is with no space for a soundtrack provided, a considerable increase in image area is obtained. A slightly smaller image area is obtained, when a 50-mil magnetic soundtrack is provided on the side opposite the perforation. The "Silent" stock can, of course, be used in double strand sound system. A composite super-16 release print can then be made or a blow-up 35mm negative, from which composites are made in the usual way.

Since the image area of this type of stock is approximately 100% larger than that of the conventional 16mm stock, the linear magnification factor for 35mm blow-ups, is substantially lower than the normal one, especially when a wide-screen format of an aspect ratio 1.85 : 1 is used. At the low linear magnifications which thus become possible the acutance of the final print is noticeably improved and graininess is considerably reduced by comparison with the blow-up from regular 16mm negatives.

The Berndt "Cinestar" camera is announced as not a simple conversion nor just an expanded gate, but as a new design. That means, of course, that the optical axis of the system has been centered in exact correspondence with the centerline of the expanded image area. In this way a symmetrical sharpness distribution over the whole field is assured.

Since the Super-16 image area is substantially larger than that of the regular 16mm picture, lenses with a greater diameter of the useful field must be used to avoid vignetting, in correspondence with the greater diagonal of the new image. Initially, according to the indications from Cinestar, 35mm lenses for still cameras may be used, and some lenses in the vidicon format will work with the super-16 camera. It is said that lens makers have indicated an interest in manufacturing their 16mm vidicon lenses to the more stringent optical requirements of motion-picture film. Some such lenses tested have

105,000 feet of
"WOODSTOCK"
original 16mm
Ektachrome footage
WAS DEVELOPED
normal & forced
AND PRINTED

at
bēbēll
MOTION PICTURE LAB DIVISION
416 West 45 St. New York 10036
PHONE: (212) 245-8900

already been brought up to standard for film, it is said.

The super-16 stock in conjunction with Kodak 5249 CRI negative and other improved types of duplicating and printing stocks and with liquid-gate printing improves, it is said, sharpness and latitude characteristics to a point where 35mm wide-screen release prints are achieved with a quality so good that few boxoffice customers will be able to detect a difference. This fact may be considered as an important factor in motion-picture production as far as cost of raw stock, processing and equipment mobility during production are concerned.

Other elements under development will complete the Cinestar Super-16 System. These include: Super-16 movements, camera and projector heads (interchangeable) for existing enlarging and reduction printers; three-gang synchronizers for preparing A & B rolls for blow-up; Geneva assemblies for super-16, interchangeable with conventional 16mm professional theater projectors.

Magnetic heads for recording single-system sound will be available for use with single-row perforated film (50-mil edge stripe) or for use with two rows of perforated (super 8) with head placement to record on a magnetic stripe (50-65 mil) between the image and the sprockets on the left side of the film as viewed from the light source.

In its initial marketing stage the "Cinestar" camera will be offered only as part of a super-16 equipment (rental) and service package. Included will be filming stock (special ordered in quantity by Cinestar), synchronizers (rental) and enlarging-reducing services. Outright purchase of cameras and other equipment will be available at a later date.

Cinestar, the developing and marketing company of this super-16 system, is now making plans to exhibit the camera to industry groups in the United States and abroad.

The Sound Scoopic 200 16mm camera and a new 12-120mm f/2.2 macro-zoom fluorite lens have been announced by Canon, U.S.A., 64-10 Queens Blvd., Woodside, Queens, NY 11377. The camera has a light, self-blinded body, automatic through-the-lens metering with manual override, registration pin movement, behind-the-lens gelatin filter slot, twin modular sound-heads and a new formula 12.5-75mm f/2.5 zoom lens. The camera is supplied with a lightweight, over-the-shoulder recording amplifier which features an automatic gain control system with manual override and also houses the 24-V rechargeable NiCad battery which powers all automatic functions of the camera. The Sound Scoopic 200 is priced at about \$6,000.

The new macro-zoom lens has two solid calcium fluorite elements incorporated in the front component group. The fluorite elements have the ability to bring all the rays of the spectrum into, or close to, the same plane of focus, thus eliminating chromatic aberrations. The lens is designed to focus to within $\frac{1}{8}$ in. of the lens surface continually from infinity without any loss of effective aperture. It is priced at about \$1,500.

Professional Services

**TIME LAPSE—HIGH SPEED
SCIENCE MOTION PICTURES**
Bacteriology, chemistry, scientific special effects applied to motion pictures and TV
Consultation and production since 1929
LESTER V. BERGMAN AND ASSOCIATES, INC.
8 E. 12 St., New York, N.Y. 10003
924-3632

Creative sound effects editing for your films. Also complete post production editing services.

Ronald H. Plant Productions
Box 21034
Long Beach, Ca 90801

Consulting & Product Development by Professionals for Laboratories — Studios — Aerospace — TV
(213) 769-2521
L. M. DEARING ASSOCIATES, INC.
12345 Ventura Blvd. / Suite R / Studio City, Calif. 91604
Instrumentation. Photometry. Data Recording
Light Sources. Quality Control. Materials.

SMPTE MEMBERS!
Are you a consultant?
... or self employed?
Advertise in the SMPTE Journal Professional Services page
Only \$60.00 per year.
Write: Advertising Manager,
SMPTE Journal
9 E. 41 St., New York, N. Y. 10017

MOTION PICTURE PRODUCTIONS
Motion Picture Productions and complete laboratory services. All related Filmmakers services, script-to-screen. Industrial, Educational, Training Films and T.V. Commercials. Write or phone us today.
THE FILMMAKERS, INC.
1001 Terminal Road
Lansing, Michigan 48906 (517) 487-3735

**FILM PRODUCTION EQUIP.
RENT • LEASE • SERVICE**
World's largest source of equipment for producing, processing, recording, editing, etc.
S.O.S. PHOTO-CINE-OPTICS, Inc.
EAST: 40 Kero Rd., Carlstadt, N.J./ (201)-939-5220
315 W. 43rd St. N.Y.C./ (212) JU 8-1420
HOLLYWOOD/MIAMI/D.C.

HERMAN GALLI CAMERA SERVICE
Expert repair and service on all professional movie and still cameras and accessories
ARRIFLEX, ECLAIR, ZOOM LENSES
modifications, custom design
6804 Melrose Ave., Los Angeles, Calif. 90038
Phone 213-931-4111

Complete Laboratory and Sound Services for the 16mm Movie Producer
Daily Processing of the entire family of Ektachrome Films.
16mm Color Internegative/Positive Service with "Traid" Scene-to-Scene Color Corrections
Only self-contained, single source, 16mm laboratory in the Southwest.
Write for price list today.
SOUTHWEST FILM LAB. INC.
3024 Ft. Worth Ave., Dallas, Texas 75211
A/C 214 331-8347

FRANK P. HERRNFELD
Engineering Consultant
299 East Elfin Green
Port Hueneme, Calif. 93041
Tel. 805-487-9762

STANCIL-HOFFMAN CORP.
• MAGNETIC FILM RECORDERS, S7, 16, 17½ & 35MM, All Plug-In Transistor Electronics
• TAPE ¼" FOR MONO, STEREO & SYNC PULSE R70
• BROADCAST LOGGING, 24 HOURS CONTINUOUS 7" REELS UP TO 4 CHANNELS
921 N. Highland Ave., Hollywood, Calif. 90038

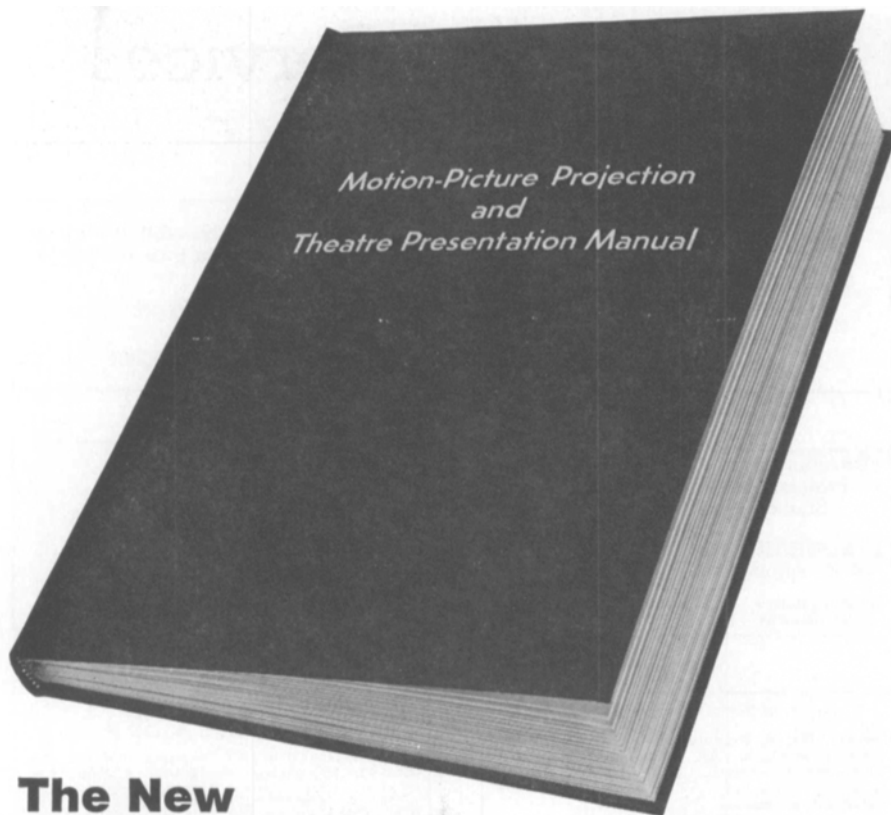
Thomas M. Lemons, P.E.
Lighting Consultant
Lighting Installation Designs • Lighting Product Designs
Optical System Designs • System Evaluation and Testing
Product and Market Planning
TLA-Lighting Consultants
72 Loring Ave. Salem, Mass., 01970
617/745-6870

SOUND STUDIO EQUIPMENT
Selsyn distributors, 220v 3 phase
fluid starting—synchronous direct drive
Digital footage counters
16mm and 35mm Looping boxes, rack mount
"Fishpole" microphone booms
Write for current prices
Don Walton, Studio Electronics Co.
5415 N. Clark St., Chicago, Ill. 60640

REELS • CANS • FIBER CASES
MOTION PICTURE ENTERPRISES INC.
Tarrytown, N.Y. 10591
N.Y.C. Tel: 212-245-0969

AURICON & K-100 CONVERSIONS
to 400 & 1200 ft.
Filter slot Auricons & Films
Transistor amplifiers, processors, etc.
Write for details
GORDON YODER
Professional Cine Products
2959 Ladybird Lane, Dallas, Texas 75220

Order Your Copy NOW!



The New Motion-Picture Projection and Theatre Presentation Manual

CONTENTS

- | | |
|---|--|
| 1. Introduction | 15. Theatre Seating |
| 2. Motion-Picture Films | 16. Theatre Carpeting and Drapery |
| 3. Physical Aspects of the Projection Room | 17. Theatre Automation—Automatic Programming |
| 4. General Rules for Good Projection | 18. Drive-In Theatres |
| 5. Measuring Instruments | 19. The Theatre Supply Dealer |
| 6. The Basic Motion-Picture Projector | 20. The Competent Projectionist |
| 7. Operational Maintenance and Repair of Projectors | 21. Problems in Projection—Case Histories |
| 8. Projector Performance Testing | Appendixes |
| 9. Projection Light and Light Sources | Manufacturers Honoring SMPTE Request Cards |
| 10. DC-Power Supplies for Projection Light Sources | Index to SMPTE-Sponsored USA Standards and Recommended Practices |
| 11. Projection Lenses and Optics | List of SMPTE Publications |
| 12. Motion-Picture Theatre Screens | Test Film Catalog |
| 13. Motion-Picture Sound Systems | Index |
| 14. Theatre Construction and Design | |

Detailed Table of Contents on request.

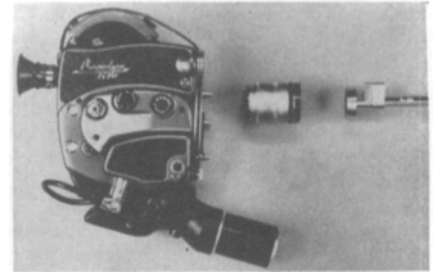
• 8½" x 11¼" • 190-pages • 130 Illustrations • Cloth bound

Single Copy Price: \$7.50 / Less 20% to SMPTE Members, Libraries, and Booksellers
Less 25% for 5 through 49 copies, plus shipping
Less 33-1/3% for 50 copies and more, plus shipping

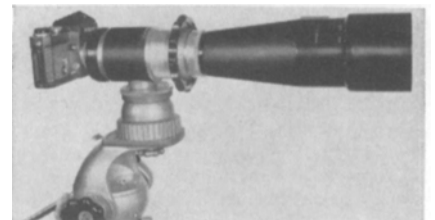
Editor and Coordinator: Don V. Kloeptel *Contributors:* J. Walter Bantau, Stephen S. Battaglia, Zack Beiser, Glenn M. Berggren, Al Boudouris, Tom Christie, Jr., Frank F. Crandell, Drew Ebersson, Raymond L. Estes, Harold J. Freedman, Melvin Glatz, Arthur J. Hatch, Jr., Daniel F. Haworth, B. W. Henrikson, C. E. Heppberger, Joe Holt, G. Melson Hurley, Richard B. Johnson, Spiro L. Kontos, Leo Laskowski, Kenneth Leonard, Harold Madison, Ben Mayer, Burton F. Perry, Paul H. Pree, Frank H. Riffle, Robert Rose, J. W. Servies, Sol Shurpin, Whitney Stine, R. A. White, Robert Wolfe, Louis M. Wutke.



**Society of Motion Picture
and Television Engineers**
9 East 41st Street, New York, N. Y. 10017

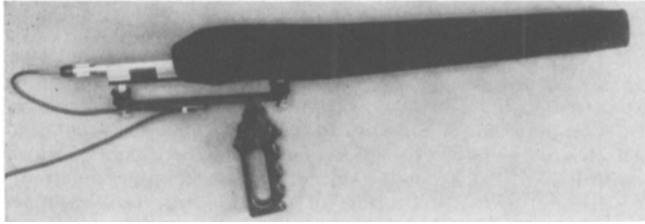


The Beaulieu R16BT Endo Camera, a specially designed Beaulieu 16mm Reflex Control Camera used for endoscopic motion-picture studies and other scientific research applications, has been announced by Hervic Corp., 14225 Ventura Blvd., Sherman Oaks, CA 91403. A special circuitry interconnection permits the camera operator to compensate automatically for the rapid changes in light conditions during endoscopic explorations. This is accomplished through a single control by operating the camera filming speed dial which is coupled to the ASA-setting dial. The camera has a clear viewing spot on the ground glass which is the same size as the endoscopic image and allows unimpeded viewing in low light situations. The Endo Camera is priced at \$1,089.50.



The Associate 500C Lens Connector has been announced by Associate Arts Co., Box 4137, 125 High St., Dept. 5, Portland, ME 04101. The device is used to connect Hasselblad 500C lenses to rear focal plane 35mm SLRs and a number of 16mm (C) type cameras. The connector also accepts all 500C or 500EL Zeiss lenses that interchange on 500C or 500EL models, including 80mm "T" Planar lens through all focal length lenses to 500mm Tele-Tessar. All lenses maintain normal focusing range and increased telephoto effects are possible when a large lens area covers a smaller 16mm or 35mm format. Focal length can be increased 3X by adding an Associate 3X Achromatic Lens. The connector is adjusted to infinity settings and all ranges in between so the lenses will clear any protruding (T.L.) meter housing. The connector is priced at \$67.50 including a "T" 35mm lens socket fitting. "C" mounts are available for \$3.95. The Associate 3X Achromatic Lens is priced at \$37.00.

The Snaplok, an instant-mounting system for all types of cameras, has been announced by Cine 60, Inc., 630 Ninth Ave., New York, NY 10036. It is a two-piece unit machined from solid aluminum. One section mounts on the camera and the other, which has a safety release button to prevent accidental opening, mounts on tripods, body braces, etc. Both pieces have four mounting holes and broad, flat mounting areas. The base unit accepts both ¼-in and ⅜-in screws. The Snaplok is priced at \$69.50.



Widescreen Model MZW 815 and Pistol Grip Model MZP 805, accessories for Sennheiser shotgun microphones MKH 804 and MKH 805, have been announced by Sennheiser Electronic Corp., 500 Fifth Ave., New York, NY 10036. The windscreen, made of open cellular foam, is designed to suppress noise caused by air turbulence at high frequencies as well as low-frequency overloading of the recorder amplifier due to slow but intense pressure changes. It is 20 in long and 2.5 in in diameter. It is priced at \$29.

The pistol grip has a finger-contoured hand grip that can be slipped under the point of gravity and a sure-lock swivel keeps the microphone at a convenient angle. It is priced at \$88.

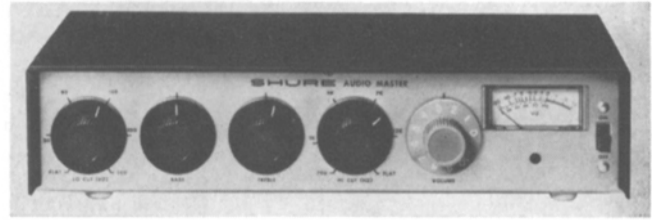
A line of diazo microduplication systems has been developed at CBS Laboratories for use in the computer data retrieval and microfilm output markets. Model 2400 described as "the fastest microduplicating system in existence" handles 240 ft of film per minute containing 3,600 pages of high-resolution diazo microfilm copies from original material. It is priced at \$22,500. Model 1600 duplicates film at 160 ft/min and is priced at about \$18,000. Model 800 processes film at 800 ft/min. It is priced at less than \$12,000. Each system can duplicate more than 50,000 pages of information on a single roll of film 9 in in diameter. The 2400 system can process more than 250,000 pages per hour. Pages of information ranging in size up to a newspaper page can be recorded in a single diazo film frame.

The Uni-Eclair mount for the Eclair NPR camera, a suction mount called Vacu-Platform and a lightweight shoulder pod have been announced by Cine 60, Inc., Film Center Bldg., 630 Ninth Ave., New York, NY 10036. The Uni-Eclair mount is designed to be left on the camera at all times. It permits handheld operation or tripod mounting. The mount is compatible with all standard types of tripods and with Cine 60 shoulder pods. It is priced at \$110.

The Vacu-Platform is a suction-mounted camera platform, the main frame of which is a thick, but light, die casting. It has four wide suction-cup-tipped legs that fasten to any smooth, flat surface. It is priced at \$195.

The new shoulder pod is made of fiber glass and metal. It is adjustable to all types of cameras. It is priced at \$175.

A frequency-equalizing audio control center called the M63 Audio Master has been announced by Shure Brothers, Inc., 222 Hartrey Ave., Evanston, IL 60204. The new component is designed for use with Shure M68 and M67 Series of Microphone



Mixers and other high-level output devices to obtain an almost unlimited variety of response curves. Bass and treble controls, together with variable high-pass and low-pass filters and a volume control give the Audio Master its sound-shaping abilities. The unit accepts two high-level inputs and has outputs for headphones, 600-Ω balanced line, high-low impedance

microphone level and auxiliary high impedance, high level. For monitoring applications, it has an illuminated VU meter that follows program material. It is priced at \$160.

A color slide studio which feeds closed-circuit RF or video TV systems with program material derived from 35mm slides

the
smartest
case in
town



MASTEREEL[®] PLASTIC FILM CASE

LIGHTEST, STRONGEST and MOST VERSATILE

AND IT COSTS LESS, TOO!

For openers, consider this: This superb new case is made of the world's strongest, most durable, yet lightweight plastic. It resists water, fire, shock, fungus, dust and humidity. The patented design is revolutionary and practical . . . gently cushioning film on *reel or core* despite the roughest handling. It locks at 10 points, yet two quick motions open case. Nothing to twist. No buttons to push or pull. No bulky straps . . . or buckles to scratch work surfaces. Save time. Save space. Save labor. Save postage. Whether you ship it, store it or carry it, — the Masterreel Plastic Film Case is the *smartest case in town.*



Send for free literature and trial offer information

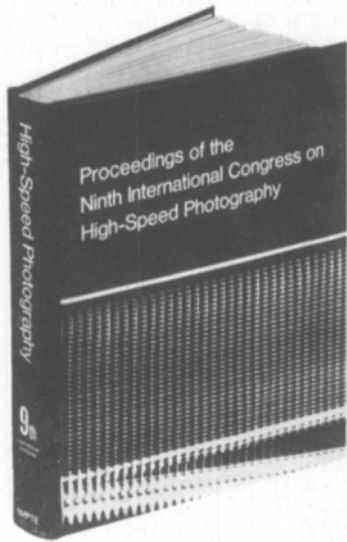


MASTEREEL INDUSTRIES, INC.

25 HOME STREET, WHITE PLAINS, NEW YORK 10606 TEL: (914) 946-4884

Masterreel and  are registered trademarks of Masterreel Industries, Inc.

New advances in high-speed photography



The most recent advances in the technology of photo-instrumentation have been made available to the scientific community in the *Proceedings of the Ninth International Congress on High-Speed Photography*. The volume includes the 107 papers presented at the Congress in Denver, Colorado on 2-7 August 1970, together with all pertinent discussion of the papers during the technical sessions. Subject areas covered in the volume are

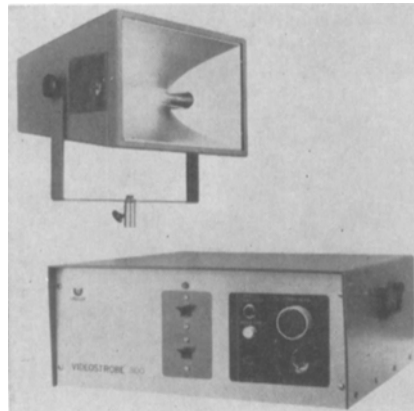
holography and image-dissection cameras, lasers, rotating mirrors and streak cameras, light sources and x-rays, and high-speed photographic applications.

In addition, a Current Bibliography on High-Speed Photography, prepared by the Research staff of Eastman Kodak Company especially for the *Proceedings*, will prove valuable as a research tool. A report on the Congress, a list of delegates, and an index of authors and discussers complete the volume.

The book comprises 605 pages, 8½ x 11 inches, in hardbound edition. The price is \$40.00 each, with discounts to SMPTE members, libraries, and booksellers: 1 to 4 copies 20%; 5 to 49 copies 25%; 50 or more 33½%.

Society of Motion Picture and Television Engineers
9 EAST 41 ST., N.Y., N.Y. 10017

and audio tape has been announced by Sylvania Electric Products Inc., 730 Third Ave., New York, NY 10017. Model CSS-1 is a color TV signal source which utilizes a Sylvania SC4679 flying-spot scanner tube with specially formulated phosphor for full spectral response. All electronic circuits are of solid-state construction. The basic unit contains a slide changer; a flying-spot scanner with deflection yoke; all optics, splitters and filters; deflection and high-voltage module; photomultipliers, preamplifiers and encoder. It mounts in a 19-in rack and occupies 24.5 in of vertical space. It transmits over cable TV, closed-circuit systems and television broadcast facilities. It is priced at \$2,750.



The Videostrobe 800 strobe light made specifically for video has been announced by Unilux, Inc., 48-20 70th St., Woodside, NY 11377. It is synchronized to the video field rate and looks like a steady light. Each flash of light cuts video exposure from one-sixtieth to one-twenty thousandth of a second. The shorter exposure "freezes" motion and eliminates "motion blur." It also improves color rendition. It is a heat-free light and produces a light output of 175 fc over an area of 100 ft². The unit plugs into any 120-V ac outlet. It is priced at \$1,995. The Videostrobe 800 is a lightsource intended for subject illumination when sharp video pictures without "motion blur" are desired in, for instance, time and motion studies, machinery analysis, sports clinics and many others.

A 9-in viewfinder camera called Model TVF-9/14 has been announced by Riker Corp., 142 Central Ave., Clark, NJ 07066. The camera has an 8507A vidicon. It is compensated to provide 100% amplitude response at 500 TV lines with limiting resolution in excess of 900 lines. The 9-in viewfinder monitor provides 600-line resolution. No separate camera control unit is required but a local/remote switch is provided to facilitate remote control. The TVF-9/14 weighs 34 lb. It is priced at \$2,575.

The Model 606 Video Quantizer, an instrument used to produce unusual variations in the amplitude characteristics of analog input signals, has been announced by Colorado Video, Inc., P.O. Box 928, Boulder, CO 80302. It is capable of a variety of operations on black-and-white TV signals, one of them being the ability to generate a wide range of synthetic colors. The unit is intended primarily for

processing video signals but it can also be used with other forms of data in the dc to 5-MHz frequency range. Model 606 may be used to select from one to 16 separate "slices" of data at pre-selected amplitudes. Slicing thresholds can be adjusted by means of front panel controls to produce linear or nonlinear patterns. Outputs of the 16 slicers can be mixed together in linear or nonlinear manner and the outputs of individual slicers can be fed back to the "inhibit" inputs of other slicers to produce complex patterns. The instrument also contains a clamped, linear, video amplifier the output of which may be mixed with the various slicer signals. Model 606 is priced at \$3,500.

A battery-powered oscilloscope with a 35-MHz response, delayed sweep and 6- by 10-cm display has been announced by Hewlett-Packard, 1501 Page Mill Rd., Palo Alto, CA 94304. Designated Model 1701A, the new instrument consumes 18 W and can run up to 6 h on a single battery charge. With batteries installed it weighs 35 lb. The oscilloscope is enclosed with no fan or ventilation holes. Circuit-generated heat is dissipated by the cabinet surfaces. It can also run on 115- or 230-V power lines and any dc source between 11.5 and 36 V. The rechargeable battery pack fits into an easily accessible compartment inside the oscilloscope. The instrument has sweep times as short as 10 ns/div (with ×10 magnifier) to give high accuracy in timing measurements. The delayed sweep makes it possible to pick out one part of a pulse train or complicated waveform and expand that part for close examination. Model 1701A is priced at \$1,850. The battery pack is priced at \$200.

A new RF test system used to locate reflections and other loss-producing faults in waveguide and narrowband coaxial systems has been announced by Hewlett Packard, 1601 California Ave., Palo Alto, CA 94304. The system, called Model 1580A Narrowband TDR consists of a new RF burst-generating instrument and a modified Hewlett-Packard 180A/1815A Time-Domain Reflectometer. The system operates in a manner comparable to conventional time-domain reflectometers, but uses an RF pulse rather than a fast voltage step as the energy burst. Any impedance discontinuities in the system under test reflect RF energy and the timing and magnitude of the reflections as displayed on an oscilloscope tell the engineer where each discontinuity is and how bad it is. Model 1580A Narrowband TDR is priced at about \$6000.

A new exponential horn for use in sound systems where a low cutoff frequency and uniform control of the angle of projected sound in both horizontal and vertical planes is desired has been announced by Altec Lansing, 1515 South Manchester Ave., Anaheim, CA 92803. Called Altec Model 329A, the new horn is designed to provide a circular sector of arc of 90° in the horizontal plane. It is made of cast aluminum and designed to assure freedom

from resonance and ringing through the use of two isolation/damping bars adjusted to prevent objectionable resonances. Cutoff frequency is 220 HZ.

The Auto-Mix 2B, a straight-line ladder attenuator, has been announced by Quad-Eight Electronics, 11810 Vose St., North Hollywood, CA 91605. Features include input control to permit initial gain adjustment and later trimming to program variations and continuously variable attack time control. Ten curves of de-essing which function on both the 2:1 and 4:1 compression ratios permit separate control of esses from all other voice sounds. The attenuator features low noise with 90 dB at all compression conditions through

use of separate input and compression controls. An equalizer and/or filter can be inserted into the control circuit for numerous effects. All controls can be remotely controlled. The AutoMix 2B is priced at \$250.

A new series of subminiature and miniature indicator lights offering front panel replacement of the lamp has been announced by Shelly Associates, 111 Eucalyptus Dr., El Segundo, CA 90245. The lights are designed for a round mounting hole in a maximum panel thickness of $\frac{1}{8}$ in. Two fully insulated terminals are positioned especially to facilitate soldering. The caps are omni-directional and employ high-impact plastic.



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 Laboratory. (20) years experience in all phases of motion picture laboratory work, timing, printing, processing, chemical control, and projection. Have full knowledge of B & W and color, both negative/positive and reversal. Installation and maintenance of printing, processing, and projection equipment. Write B. F. Moye, 2417 Esther Ave., Huntsville, AL 35810 or call 205 852-4184.

Recent graduate. BFA in Film and TV, seeking position with production company, TV station or university. Extensive technical background. Camera, sound and lighting credits. Will consider part time or full time employment. Resume on request. Arnold Klein, 3411 Flatlands Ave., Brooklyn, NY 11234; (212) 252-8980.

Positions Available

Sound Mixer-Technician. For top position with leading producers service lab. Latest and most sophisticated film transports, recorders and electronics now installed in our Pittsburgh studios. If you believe you can qualify for this important position, please get in touch with us as soon as possible. Call or write: Donald Redinger, WRS Motion Picture Laboratory, 210 Semple St., Pittsburgh, PA 15213. Phone: 412/683-6300.

Film Editor. To work in a university film unit. Experience required. Send resume and salary requirements to: M. Ali Issari, Instructional Media Center, Michigan State University, East Lansing, MI 48823.

Sound Department Manager. Wanted for Midwest motion-picture lab. We need a real pro who can do it all himself and also supervise others. Must have thorough knowledge of optical track. Send résumé to: Jack Hill, 1355 N. Highway Dr., Fenton, MO 63026.

CLASSIFIED ADVERTISING

First 3 lines \$5.00

Each Additional line \$1.00
per inch \$13.00

16mm ACMADE Editing Console sepmag comag comopt cost \$4200 sacrifice \$1800. 4 16mm Traid Hi Speed cameras 200 f.p.s. C mount 29VDC each \$150. Wolff 28 W 44th St. N.Y.C. phone: 212 244-1162.

Journals Available/Wanted

These notices are published as a service to expedite disposal and acquisition of out-of-print Journals. Please write direct to the persons and addresses listed.

Available: New condition, complete set of *Journals* from 1953 to Oct. 1970—(except Nov. 1953, July 1956, Mar. Apr. May July & August 1960, Oct. 1961) all for \$30.00. N. L. MacDonald 13 Freeman Ave., Denville, NY 07834 Phone 201/627-2508.

Complete set of *Journals*, Jan. 1949 to March 1967. New condition, \$25.00. Write to A. Lucas, 229 East 48th St., New York, NY 10017.

Available: All in new condition complete sets from Jan. 1944 to date (except Jan. 1954, Mar. 1955, Jan. Nov. Dec. 1956, Dec. 1966, Part I Jul. 1967). Includes any indexes, directories, etc., over 300 issues in all. Entire set \$200. Adolphe A. Grude, 121 Thames Place, N.W., Fort Walton Beach, FL. 32548.

Available: Jan. 1945 to date; Separate indexes 1936-1965. Complete except: Oct. 1957, July 1959, May June 1960. Mar. 1965 and "Directories" 1956-1967. Offers: Jack S. Semple, 53 Greenwich Ave., New York, NY 10014.

Available: Complete set of *Journals* and indexes 1959 through 1969. Wm. R. Lueders, 1880 Garland Avenue, Highland Park, IL 60035.

For Sale. Complete set *Journals* from March 1956 to present. Submit offer to: V. J. Evraets, 1935 E. Locust Ave., Apt. 4, Orange, CA 92667.

Available: Complete set of *Journals*, Jan 1950 to date. Includes extra sections, Indexes and Directories: \$100.00; V. V. Valenzio, 1204 Bailey Cove Circle, Huntsville, AL 35802; Phone evenings 205 881-2538.

for design engineers- the Book of SPROCKETS

high precision,
that is—
for driving
perforated

- TAPES
- FILMS
- CHARTS



Describes and illustrates many types of drive sprockets, small micro-machined parts, positive indexing devices, Geneva star wheels, drivers, assemblies, intermittent movements. Covers applications and specifications. Many dimensional drawings. 30 pages helpful to design and development engineers in many fields. Sent on request.

High precision sprockets since 1908

LaVezzi
machine works, inc.



4635 West Lake St. • Chicago, Ill. 60644
(312) 378-1636