

speed and with maximum safety to the film.

This processing equipment originally was manufactured solely for use in the firm's own processing laboratories. However, as a result of increased demand, Dynacolor-designed equipment was made commercially available beginning in January, 1961.

Although more photofinishers are now engaged in Kodachrome processing, Dynacolor's volume of Kodachrome film processing is still increasing slightly as a result of the growth in the total market. In addition, it is expected that a 20% to 30% increase in total volume will be realized in the coming year as a result of the company's processing of a color film of its own manufacture.

## Education, Industry News

### Test Film:

#### 70mm All Purpose Alignment Film

Users of the Society's 70mm All Purpose Alignment Film (PA70) may now obtain this film in 40-ft rolls at a price of \$22 per roll. This test film has previously been offered only in minimum length rolls of 100 ft each.

**A two-day Audio-Visual Pictorial Equipment Show**, sponsored by the Society's Washington Section, in cooperation with

Trade Associates, Inc., will be held October 31 - November 1, at Marriott Motor Hotel, Twin Bridges, Washington, D.C. More than 50 exhibitors will show their latest equipment. Representatives of industry, education and government agencies throughout the United States will attend the show, as well as numbers of interested persons from the Washington, D.C., area.

This two-day show is indicative of the Washington, D.C., Section's plans for increasing effectiveness. The emphasis is on worthwhile meetings of more than routine interest, which means that the concept of holding regular meetings according to a fixed schedule has been abandoned in favor of seizing every opportunity to arrange dynamic, purposeful meetings to discuss timely topics.

William E. Youngs, Washington, D.C., Section Chairman, has reported that the Section has scheduled four meetings in September and October — two on the same day. On September 13, the Section plans to hold a Luncheon Meeting jointly with the Washington Film Council at which Thomas Hope will speak on Utilization of 8mm Sound Films, and that evening the Section will meet in the National Academy of Science to hear discussions by recognized authorities on the general theme of "The Story of 8mm Sound Film for Technicians and Lay-Visitors." Later in September the Section will spend an evening, arranged by Washington D.C., Section Manager Don Duke, at the newly remodeled studio of the U.S. Information Agency's Television Service.

High point of the two-month schedule of meetings will be the Audio-Visual Equipment Show. The Section will meet in the hotel at 7:30 P.M., October 31, the first day of the show. Technical papers on audio-visual subjects will be presented.

**A new American Standards Association Sectional Committee on Magnetic Visual-Aural Recording Systems** is being established in accordance with a proposal by the Society approved by the ASA General Conference on Magnetic Visual-Aural Recording. The Society has been named administrative sponsor of the new Sectional Committee which will consider all proposed American Standards for magnetic-tape recording. The new committee, to be composed of manufacturers, consumers and representatives of other interested groups represents the culmination of a series of discussions reflecting the early and continuing interest of the Society in the standardization of video tape, and the cooperation of the SMPTE, the IRE, the EIA and the NAB through the Joint Committee on Intersociety Coordination.

The SMPTE Video-Tape Recording Committee was established in June 1958 (Chairman, Howard Chinn). During its first year, according to a report presented at the Society's 1959 Spring Convention in Miami Beach by A. H. Lind (*Journal* pp. 612-614, Sept. 1959), the Committee formulated three Proposed American Standards and one Proposed Recommended Practice; and at the time the report was presented, four Proposed Standards and two Recommended Practices were in preparation. At the time the



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**CAMART DUAL SOUND EDITOR MODEL SB 111**



Edit single and double system 16mm or 35mm optical sound. Edit single system Magnastripe or double system magnetic sound. Use with any 16mm motion picture viewer to obtain perfect lip-sync matching of picture to track. Works from left to right or right to left.

Dual Editor (without viewer) ..... \$195.00  
Zeiss Moviscop viewer \$96.00  
Special Editor viewer comb. .... 269.50

**CAMART TIGHTWIND ADAPTER**



• The only tightwind adapter with ball-bearing roller.  
• Prevents scratches cinching or abrasions  
• Winds film quickly & evenly  
• Single unit for 16mm and 35mm.

**\$34.95**  
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**FILM BIN WITH RACK**

- Rectangular construction
- Fits easily into corners
- Vulcanized fiber with reinforced metal frame.
- Complete Bin-Rack-Linen bag w/skids **\$45.25**  
w/wheels **\$51.75**



**ECCO MODEL D SPEEDROLL APPLICATOR**

Cleans, conditions and lubricates your film in one easy operation. Non-inflammable, eliminates waxing, absolutely safe.

Ecco Model D Applicator. • **\$33.00**  
Ecco #1500 cleaning fluid per gal. .... **\$9.00**  
Ecco #2000 Negative cleaning fluid, per gal. .... **\$7.00**  
All Prices F.O.B. N.Y.



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FILM STRIP CANS • CLOTH TAPES • EDGE NUMBERING MACHINES • CORRUGATED CARTONS • DIFFERENTIAL REWINDS • EDITING TABLES • ELECTRIC REWINDS • FILM BINS • PLASTIC CORES • PUNCHES • 16, 35 & 70MM REELS

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HOLLYWOOD FILM COMPANY

designers & manufacturers of film & video tape editing equipment

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SMPTE Video-Tape Recording Committee was established, a series of studies was initiated covering such items as tape dimension; tape reels; tape track dimensions; audio; control and cue track standards; monochrome and color signal characteristics; tape leaders; standard tape and tape splicing.

**Peter S. Brown** received the Outstanding Achievement Award in Television Production for 1960-61 from the Student Chapter of the University of Miami, of which he is a member. The award was presented in recognition of his work in producing and directing a television documentary commemorating the great war correspondent of World War II, Ernie Pyle. Produced as a class project, the

documentary was broadcast over two Miami stations, WTVJ-TV and WTHS-TV.

**The Detroit Section, the Society's newest Section**, brings the Society's total to thirteen Sections plus five Student Chapters. Chairman of the new Section is William H. Smith, former Chairman of the Chicago Section, and who recently joined Allied Film Laboratory in Detroit. Secretary-Treasurer of the Detroit Section is James W. Bostwick and serving on the Board of Managers are: Robert F. Blair, Theodore T. Coleman, Dean Cook, Raymond A. Balousek, John A. Campbell and Howard W. Town. Philip E. Smith is Chairman of the Chicago Section, succeeding William H. Smith and William D. Hedden is suc-

cessor to Philip E. Smith as Secretary-Treasurer of the Chicago Section.

**A Conference on 8mm Sound Film and Education** will be held November 8-10, at Teachers College, Columbia University. The conference will be sponsored by the Project in Educational Communication of the Horace Mann-Lincoln Institute of School Experimentation. Leaders in industry and education will participate in the conference. Papers will be presented exploring all phases of the subject, both technical and theoretical, and discussions are planned to analyze and evaluate factors now shaping the 8mm sound film field. The conference will include demonstrations of equipment and showings of 8mm sound motion pictures. The registration fee is \$40. Further information is available from Professor Louis Forsdale, Teachers College, Columbia University, 525 W. 120 St., New York 27.

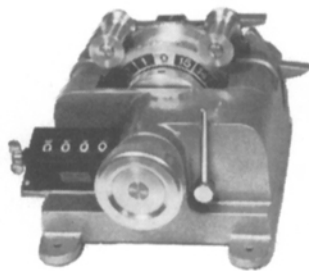
**Courses in Film, Radio and Television** offered by Columbia University, New York, for its Fall term, beginning September 28, include Film Production, Film Directing, Film Editing, Animation Workshop; Television Studio (nonengineering introduction); Professional Internship (TV) and others. These courses are part of a curriculum leading to the degree of Master of Fine Arts. However, most of them are open to special students on a noncredit basis.

**The opening of the Washington, D.C., educational TV station** operating on UHF Channel 26 was preceded by a two-weeks demonstration on July 15-28 sponsored by the Federal Communication Commission and the Greater Washington TV Association. Among products exhibited were translators developed by Adler Electronics, Inc., One LeFevre Lane, New Rochelle, N.Y., for converting and rebroadcasting VHF signals on UHF. The translators are automatic, low-power receiving and transmitting stations. Usually located at high point overlooking an area without adequate reception, the translator picks up signals from an originating station, and amplifies or converts them to a UHF channel for rebroadcast. Special antennas beam the signals toward schools and homes.

**The American Federation of Information Processing Societies** is a group of societies recently formed for the purpose of unified representation of the information processing sciences in the United States. It is successor to the National Joint Computer Committee, the principal function of which has been sponsorship of the Eastern and Western Joint Computer Conferences. Founding societies of the new group are the American Institute of Electrical Engineers, the Association for Computing Machinery and the Institute of Radio Engineers. Additional information is available from J. D. Madden, System Development Corp., 2500 Colorado Ave., Santa Monica, Calif.; or from S. A. Lanzarotta, IBM Corp., 3424 Wilshire Blvd., Los Angeles.

# PRECISION® FILM EDITING EQUIPMENT

## Precision Unitized Film Synchronizer

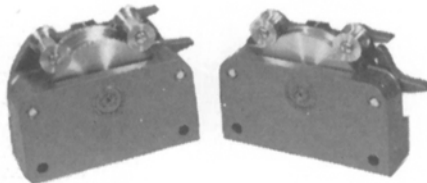


Model S635-1  
Single Sprocket 35mm  
Synchronizer \$95.00

Single Sprocket 16mm  
Synchronizer \$95.00  
(not shown)

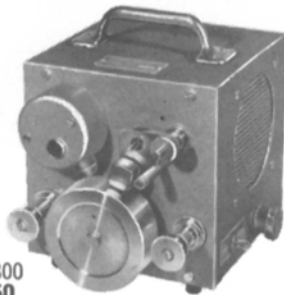


Model S616-3  
Three sprocket  
16mm Synchronizer with  
Spacer and Magnetic head.  
\$215.75

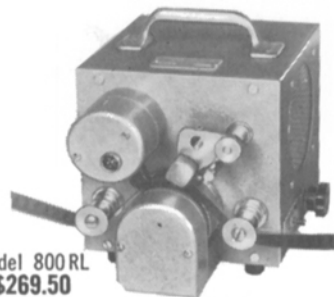


Sprocket Assemblies  
16 or 35mm \$32.50 ea.

### optical-magnetic sound readers

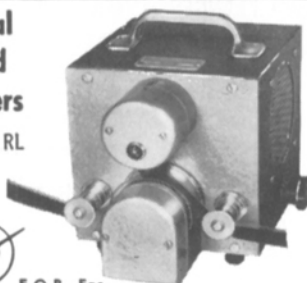


Model 800  
\$259.50



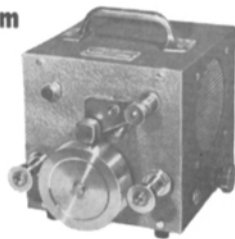
Model 800RL  
\$269.50

### optical sound readers



Model 600RL  
\$195.00

### magnetic film and tape sound reader



Model 700  
\$198.00



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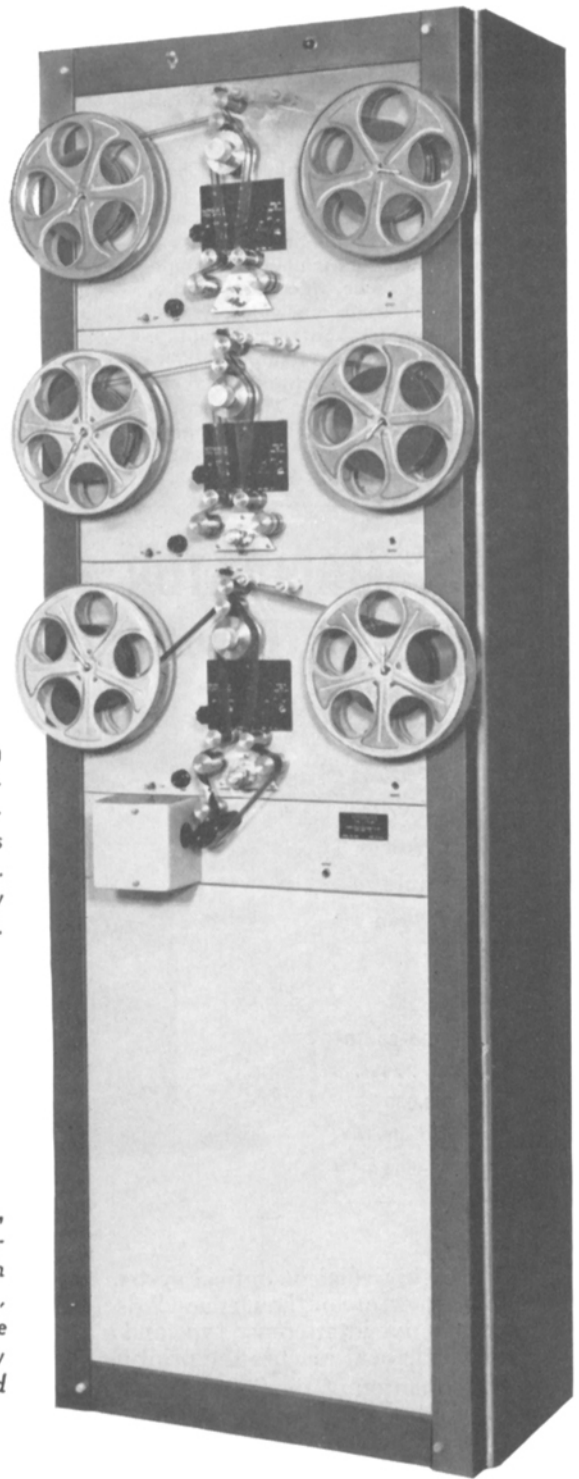
**MAGNA-TECH ELECTRONIC 400 SERIES FILM RECORDING EQUIPMENT ARE VARIOUS INSTRUMENTS SPECIALIZED TO PERFORM THE FUNCTIONS ASSOCIATED WITH THE PRODUCTION OF OPTICAL AND MAGNETIC SOUND FOR MOTION PICTURES. THEY OFFER SPACE AND CAPITAL INVESTMENT SAVING WITHOUT COMPROMISING THE CRITICAL DEMANDS OF THE ENGINEER.**

The transport is a self-driven unit incorporating the film pulling mechanism, a miniaturized semi-conductor reproduce amplifier, drive motor and torque motors in one assembly. Basically a magnetic reproducer, it is also used as a magnetic recorder, optical reproducer, and optical recorder by means of optional attachments.

Interlock is provided by the conventional method using a selsyn motor mounted on each film transport. 2 to 8 track reproducers and record attachments are also provided. 8 reproduce amplifiers are mounted on one panel. Recording amplifiers are on individual panels.

A cabinet can be supplied to house five complete film reproducers or various optional attachments and transports utilizing the 77" panel space. A semi-conductor power supply mounts inside this cabinet.

Because of quality materials, quality workmanship, and integrity of design, together with the performance and stability, the Series 400 has a complete range of application in every phase of production of sound for films.



VIEW OF THREE SERIES 400, TYPE MD497 DUAL FILM WIDTH, 17½mm AND 35mm MAGNETIC REPRODUCERS, AND ONE OD435, 35mm OPTICAL REPRODUCER ATTACHMENT INSTALLED IN THE CS400 CABINET.

WRITE FOR 12 PAGE BROCHURE

TYPE	FILM WIDTHS	SPEEDS(fpm)	OPTIONAL ATTACHMENTS ACCOMMODATED		
MD416	16mm	36	MR416 MAGNETIC RECORD	OD416 OPTICAL DUBBER	OR416 OPTICAL RECORD
MD417	17½mm	90	MR417 MAGNETIC RECORD		
MD435	35mm	90	MR435 MAGNETIC RECORD	OD435 OPTICAL DUBBER	OR435 OPTICAL RECORD
MD447	17½mm	45	MR447 MAGNETIC RECORD		
MD437	COMB. 17½/35mm	DUAL 45/90	MR437 MAGNETIC RECORD	OD435 OPTICAL DUBBER	OR435 OPTICAL RECORD
MD427	17½mm	DUAL 45/90	MR427 MAGNETIC RECORD		
MD497	COMB. 17½/35mm	90	MR437 MAGNETIC RECORD	OD435 OPTICAL DUBBER	OR435 OPTICAL RECORD
MD436	COMB. 16/35mm	DUAL 36/90	MR436 MAGNETIC RECORD	OD416 AND OD435	OR416 AND OR435

**M.T.E. MAGNA-TECH ELECTRONIC CO. INC.**  
**630 9TH AVE. N.Y. 36, N.Y.**

A three-firm combination of Triangle Productions Ltd., Robert Lawrence Productions, and Taylor Video Corp., all of Toronto, Ont., offers TV production service announced as a "complete one-stop service to clients, from the creation or development of a program idea, through casting, production and the distribution of the end product on film or video tape." The combined facilities include five sound stages, a 50-ft mobile video-tape studio, specially selected audio and video systems and, 35mm and 16mm film facilities. Equipment also includes Ampex 1000C Videotape Recorders, which affords convertibility to 16mm film for TV reproduction through the exclusive High Definition Telerecorder," described in the announce-

ment as "the only one of its kind in North America." Extra services are announced as closed-circuit TV facilities, viewing theaters, directors, producers, writers, technicians, engineers and camera crews.

The new National Camera Repair School Student Service Building, now under construction at 2000 W. Union Ave., Englewood, Colo., will permit expansion of the school's present manufacturing facilities. Constructed of masonry and two stories high, the new building will contain an auditorium and will also house an extensive library of photographic reference books. It will also provide additional office space. The National Camera Repair School is the only such school accredited by the

Accrediting Commission of the National Home Study Council. The school's mailing address is National Camera Repair School, Box 174 NB, Englewood, Colo.

The 1961 engineering award of the National Academy of Television Arts and Sciences was presented jointly to two British and one American firms in recognition of the independent development of the 4½-in. image orthicon. The British Broadcasting Co., Marconi's Wireless Telegraph Co. Ltd., and the Radio Corp. of America shared in the award. Attending a celebration commemorating the first time this award has been presented to a firm outside the United States were W. Proctor Wilson, Head of Research, BBC; Sir Noel Ashbridge, a director of Marconi's Wireless Telegraph Co. Ltd., and F. C. McLean Deputy Director of Engineering, BBC.

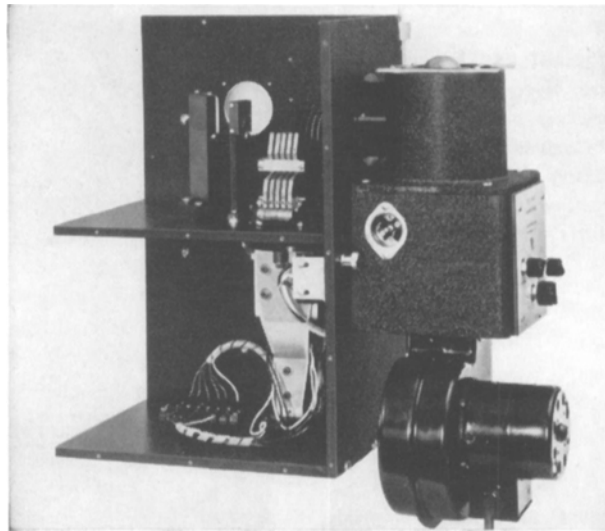


## MODULATOR and LIGHT SOURCE For Depue-Carlson Step Printer

### MODEL R-BW

Equipped with  
1000 Watt  
adjustable  
lamp house

Overall size: 20x20x10"  
Net weight: 70 lbs.  
Price: \$3,000  
f.o.b. New Rochelle, N.Y.  
Packing and crating extra



This highly efficient optical system provides uniform light on the 35mm aperture of the Depue-Carlson Transport. A cold mirror of the effective interference type and a heat absorber are used so that very little heat reaches the printing aperture.

Modulation of the light is achieved by means of 5 AC solenoid actuated neutral density glass filters, giving 32 printer steps in increments of .025 or .030 Log E. The black-and-white model is supplied with a blue trimmer and 5 neutral glass filters calibrated for blue light.

Contained in the optics housing are a special shutter and lamp house position sensing switch.

The lamp house is designed for a 1000-Watt T-12 bulb with blower. Bulb alignment is easily made in darkness simply by adjusting 3 knobs which provide for vertical, transverse and rotational motion of the bulb. A damping cylinder prevents mechanical shock to lamp filament during opening and closing.

A mounting block and hinge plate are supplied for attachment to the Depue-Carlson Transport Model 3-K #50. Similar mounting is available for older models.

This unit is adaptable to automatic control using punched tape or modified drop board.

WRITE FOR FURTHER INFORMATION

FISH-SCHURMAN CORPORATION, 85 Portman Road, New Rochelle, N. Y.

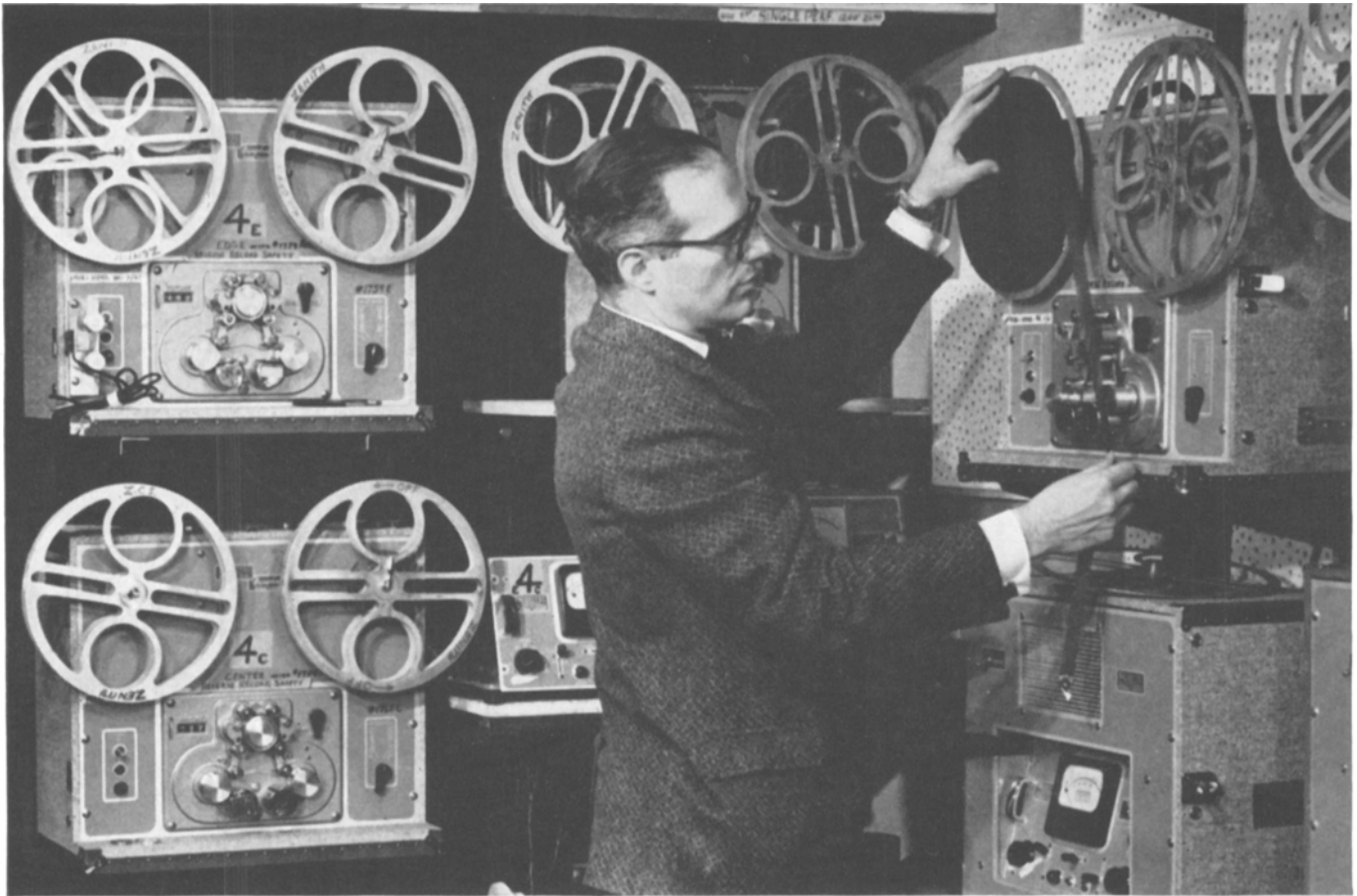
Burroughs Electronics, Inc., River Road, Cos Cob, Conn., is a recently formed research and development organization. Founder and President is Gordon S. Burroughs. The new firm will specialize in the fields of radio direction finding, aerial navigation, infrared, reconnaissance, analog computers and other products for military, industrial and space agency use. Special emphasis will be placed on the fields of Moon and space exploration as well as satellite applications.

A new division of EMI/US, Ltd., 1750 N. Vine St., Los Angeles 28, known as the General Communications Division, will combine operations of the recently acquired General Communications, Inc., of Fort Atkinson, Wis., and EMI's Broadcast Division, according to a recent announcement. Products of the new division will include television cameras and equipment as well as switching equipment, solid-state video and pulse distribution equipment, special effects generators and automation systems. Formation of the new division is part of a major expansion program, the announcement states.

The Movie Supply of Hawaii, Ltd., Honolulu, has been appointed distributor for photographic and graphic arts chemicals produced by Philip A. Hunt Co., of Palisades Park, N.J. The New Jersey company specializes in the production of photographic, graphic arts and x-ray chemicals, which are distributed throughout the United States and in 22 foreign countries.

A two-day convention on television and film techniques held last April in London was highlighted by a demonstration of large-screen (12 by 9-ft) simultaneous color TV. It consisted of a color TV projector capable of accepting N.T.S.C.-type color TV signals by land line from the BBC studios at Lime Grove. The convention was jointly sponsored by the British Kinematograph Society and the Television Society.

A brief review of camera lens production in West Germany, beginning in 1952 when Eastman Kodak licensed the Schott



For unsurpassed quality specify...  
**SCOTCH® BRAND MAGNETIC FILM**  
 ...“sound” standard of the industry!



Today's top motion picture sound engineers who can't afford to gamble with quality, insist on "SCOTCH" BRAND Magnetic Films for the very best in sound. With "SCOTCH" Films on the scene, sound comes clear and clean . . . with maximum frequency response, greater dynamic range with minimum distortion, excellent uniformity, and low noise level.

There are many reasons why experienced users of magnetic sound have voted "SCOTCH" BRAND No. 1 choice of the industry. Made by the company that pioneered magnetic film, audible range tape, instrumentation tape, and video tape, "SCOTCH" Films have the highest uniformity of any magnetic films made! Uniformity is constant—from reel to reel, and within each reel. These films permit a maximum number of re-recordings with virtually no loss in quality and stand up under the most rugged recording conditions found on location. And all films feature exclusive Silicone lubrication that reduces flutter, prevents head wear, and extends film life.

**Two 16 mm "SCOTCH" Films to remember**—available full-coated, either single or double perforated, in 400, 800, 1000, 1200 ft. lengths.

**No. 316** \* . . . a Standard Oxide film, is the professional standard the world over for sound excellence on 16 mm. Its uniformity, dynamic range, freedom from distortion, provide top quality for original recordings and subsequent re-recordings. Widely used for news pickups, industrial and educational filming and television.

**No. 326** \* . . . a High Output Oxide film, offers the same quality recording advantages as No. 316. However, it provides greater output, increased signal-to-noise ratio, and more than adequate protection against overloads.

3M also makes "SCOTCH" Films in 35 mm, with a wide choice of full-coat, stripe coated, or clear edge . . . in 1000 ft. lengths . . . edge-numbered or non edge-numbered . . . in standard and high output oxides. 17.5 mm films, full-coated, are available in standard or high output oxides with or without edge numbering . . . as well as a complete line of Splicing Tapes. Write for free, illustrated brochure to 3M Company, St. Paul 6, Minn.

\*New numbers: No. 316 was formerly 116; No. 326 was 126.

"SCOTCH" and the Plaid Design are reg. TM's of the 3M Co. © 1961 3M Co.

**Magnetic Products Division** **3M**  
 COMPANY

Company of Mainz to produce certain rare earth glasses of high refractive index for photographic use, has been released by the publication *Camera Industries of West Germany*. Recently developed lenses listed by the publication include the Schneider Variogon *f*/1.8 zoom lens for 8mm movies; the Zeiss Distagon 55mm *f*/4 71° lens for the Wide Angle Rollei-flex; and the Leitz Summilux 35mm *f*/1.4 wide-angle lens for the Leica.

**Claude Maillard** has been appointed Manager of the Industrial Sales Department of the Gevaert Company of America, New York. In his new post he will be responsible for sales of industrial x-ray films, recording materials, microfilm, magnetic tape, and scientific films and plates

throughout the United States. Prior to his present appointment he was the Denver District Manager.

**Harvey C. Griffith, Jr.**, has been appointed Manager-Sales Planning and Promotion for the Technical Products Operation of the Defense Electronics Division, General Electric Co., Syracuse, N.Y. In his new post he will have charge of closed-circuit TV activities and will also engage in marketing research and planning for the firm's expanding market development organization.

**Fraser Productions** of San Francisco has announced two additions to its staff. William E. Tate has been appointed Director of Traffic and Production Con-

trols and Miss Jeanne Pedder has been appointed Controller and Office Manager. The firm, which specializes in the production of training and instructional films for firms in electronics and similar industries, was founded in 1958 by Thomas H. Fraser. It is located in Columbus Towers.

**Improved recording** of the information relayed from satellites by television is the subject of work in progress at Kodak Research Laboratories since 1958. Charles H. Evans and Andrew Tarnowski of the laboratories in Rochester have been working on ways to "write" with electrons on film by removing the phosphor screen and permitting the electron beam to record directly on film. This eliminates energy losses and image degradation.

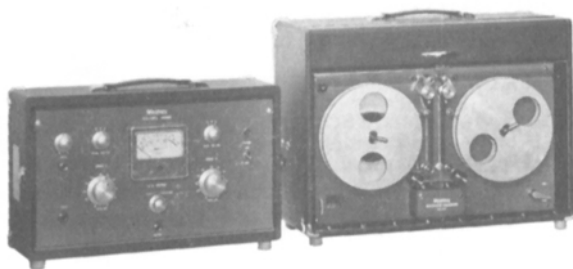
Because electrons have a greater effect than light on photographic film, a slow, fine-grain film can be used for the recording. The 16mm motion-picture film used in the experiments is 400 times slower than that normally used for kinescope recording. The film for recording is loaded in a modified motion-picture camera in a vacuum chamber at the screen end of a cathode ray tube. Electrons are accelerated by voltage in the tube and their movements controlled by magnetic fields, the film being scanned by the electron beam to create an image. Photographic factors such as contrast can be changed by varying the voltage used to accelerate the electrons in the tube.

**The 4th International Conference on Medical Electronics**, combined with the 14th Annual Conference on Electrical Techniques in Medicine and Biology, was held July 16-21 in New York. The meeting was sponsored by the Joint Executive Committee on Medicine and Biology (IRE, AIEE, ISA) under the auspices of the International Federation for Medical Electronics, and organized by the Institute of Radio Engineers through the Professional Group on Bio-Medical Electronics. About 300 technical papers were presented in 35 sessions during the week, and a number of workshops and round table discussions were held. Commercial exhibits and scientific displays by private institutions showed the latest developments in equipment and instrumentation in the medical electronic field.

**A new American Standard, PH2.20-1960**, American Standard Method for the Sensitometric Exposure of Artificial-Light-Type Color Films, has been formulated by the ASA Sectional Committee on Photographic Sensitometry, PH2. The introduction to the standard points out that a complete evaluation of a color photographic system does not yet seem to be a ready subject for an American Standard, but that standard techniques can be specified for some of the basic operations. The purpose of the present standard is to specify the manner of making a sensitometric exposure on artificial-light-type color film, and it is hoped that other phases of the sensitometry of color film will be incorporated into future American Standards. Copies of the new standard are available, at nominal cost, from the American Standards Association, Incorporated, 10 East 40th Street, New York 16.

## Westrex makes portable recording systems

perfect sound recording for 16mm industrial film



The Westrex Series 1200 Portable Magnetic Systems are truly portable. The mixer weighs 22 pounds and the recorder 39 pounds. Three different models allow recording with 16mm or 17½mm magnetic film, or ¼" perforated magnetic tape. These systems are built with the identical award-winning quality features built into the Westrex professional studio systems. Included are all system cables, spare glassware, and two headsets. Microphones, microphone cables, tripod and other accessories are available. For a checklist of the built-in advantages of these very flexible systems, plus complete specifications, ask for Data Sheet Series 1200, Recording Department, Westrex Company, 335 N. Maple Dr., Beverly Hills, California or 540 West 58th Street, New York 19, New York.

**Westrex Company**

A DIVISION OF LITTON SYSTEMS, INC. 