

The sales price of *Control Techniques in Film Processing* is not yet fixed: It will be modest and there will be discounts for SMPTE Members and a scale of discounts for large-lot sales. If there is a demand for large lots by *cinema laboratories* and *equipment distributors* an arrangement for special binding with company imprints may be provided at about \$20.00 additional for the first 100. Expressions of interest will be welcomed by the Editor at Society Headquarters.

Obituary



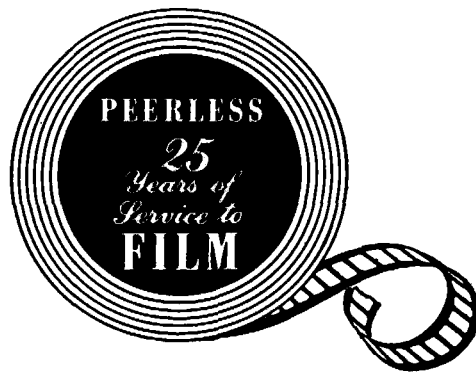
John G. Capstaff

A distinguished pioneer in color photography, John G. Capstaff, 80, died January 31, 1960, at his home in San Diego,

Calif. He was a native of Newcastle, England, and as a young man he did portrait photography. He came to the United States in 1913 to accept a position with Eastman Kodak Co. and was one of the first members of the Research Laboratories.

He had been associated with Eastman Kodak for 42 years at the time of his retirement in 1954. During that time he was granted more than 60 patents, many of them in the field of color photography. His improvement of the reversal process is credited with bringing the making of motion pictures within the reach of amateurs and hobbyists. His research contributed greatly to the development of the lenticular process of color photography on 16mm film which was placed on the market in 1928.

Many honors accrued to him during the course of his long and creative career. He was made an Honorary Member of the Society in 1955 (*Journal*, p. 689, Dec. 1955). He was an Honorary Fellow of the Royal Photographic Society of Great Britain and of the Photographic Society of America. In 1944, he was the recipient of this Society's Progress Medal. Among other awards he was recipient of the Modern Pioneers Award of the National Association of Manufacturers in 1940 and in 1946 was awarded the Progress Medal of the Royal Photographic Society of Great Britain. Following his retirement a biography by R. G. Tarkington was published in the *Journal* (Aug. 1954, p. 68).



Scratches on Film Irritate Audiences

Scratches are havens for dirt, and refract light improperly. On the screen, they mar the picture and may distract attention. If on the sound track, they produce offensive crackling.

Fortunately scratches can almost always be removed — without loss of light, density, color quality, or sharpness. *Write for brochure*

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Education, Industry News

A new SMPTE Student Chapter has been established at Boston University. Faculty Advisor is Alexis E. Ushakoff, Jr., who teaches in the School of Public Relations and Communications. Student Assistant Advisor is Dave Nohling. With this Chapter five Student Chapters have been established. The others are: City College, New York; Rochester Institute of Technology; Univ. Southern Calif; and Univ. of Miami.

The International Commission of Optics has announced a Summer School to be held July 4-13 in Paris, France. About 24 to 30 lectures and seminars will be held centered around the general subject of Modern Aspects of the Theory of Formation of Images. Purpose of the school is to provide information to students and advanced research workers on the present situation of the theory of images, the use of Fourier techniques, the evaluation of optical images, etc. Further information is available from Professor A. Maréchal, Institut d'Optique, 3 Boulevard Pasteur, Paris 15, France, or from the chairman of the U. S. National Committee of the ICO, W. L. Hyde, c/o J. W. Fecker, Inc., 6592 Hamilton Ave., Pittsburgh 6, Pa.

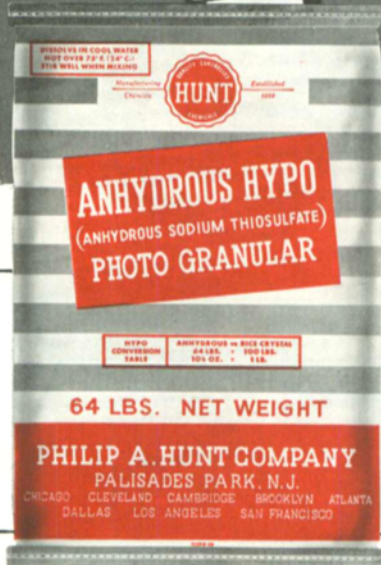
Plans for converting a 78,000-sq ft hangar at the Isla Grande Airport, San Juan, Puerto Rico, to a major television and motion-picture studio have been announced, the space having become avail-

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LARRY ROSS, MOTION PICTURE DIRECTOR, U. S. ARMY TECHNICAL PHOTO LAB., ABERDEEN PROVING GROUND, MD.: "In my opinion the Camart Dual Sound Reader is invaluable in editing and synchronizing of our sound documentary films."

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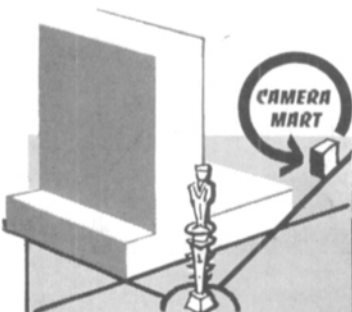
TELEVISION: WABC-TV, CBC-TV, WIBW-TV, KOIN-TV, WJBK-TV, KRON-TV, WTVN-TV, KERO-TV, KGHL-TV

INDUSTRIAL: F&M Schaefer Brewing Co., General Electric Corp., So. New England Telephone Co., ARO, Inc., Air Associates, Inc.

EDUCATIONAL: Harvard University, Rutgers University, Brown University, Wayne University, Kansas State Teachers College, Fund for Adult Education.

GOV'T & STATE AGENCIES: US Army, Ft. Leavenworth, Technical Photo Branch, Aberdeen Proving Ground, Cameron Station Quartermaster Activity, National Advisory Committee for Aeronautics, Dist. of Columbia Health Dept., Michigan State Dept. of Conservation.

AND MANY OTHERS . . . !



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NEW YORK

November 1, 1956

Mr. Samuel C. Hyman
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1845 Broadway
New York 23, New York

Dear Chick:

The Camart Dual Reader serves just about all of our needs so far as an editor is concerned. This small, compact unit which permits us to view the film and hear the track in synchrony has virtually eliminated the need for other larger, more cumbersome and costly editing machines.

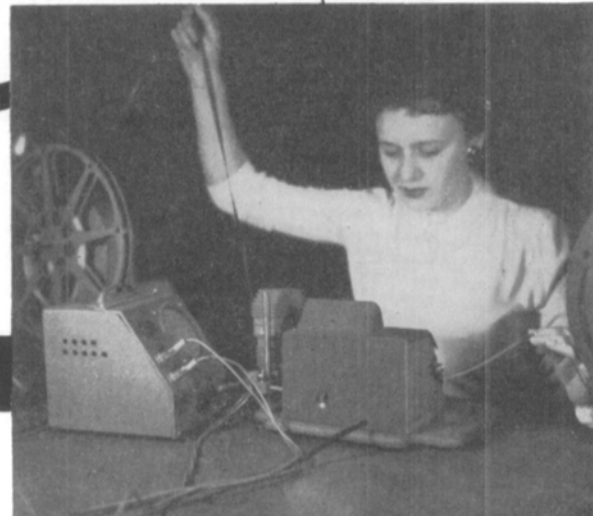
With work space at a premium, the removal of the amplifier from the unit into a separate chassis which we can put up on a shelf has been particularly helpful.

All in all we have been very satisfied with the Dual Reader and expect that it will continue to be our basic editing tool. I, unfortunately, do not have any photos of the unit in use. However, if you should want to come up to take some, you are welcome to do so. Of course you are also welcome to bring anyone up for a visit to see us at work as Paul did last week. Best regards, and I am sure the Dual Reader is well on its way to becoming the standard unit for the whole industry as it has been for us.

Sincerely yours,

Tak Kako
Film Director

Miss Patricia McMahon of NATIONAL PRINT DEPOT, MODERN TALKING PICTURE SERVICE, Pittsburgh, Pa. . . "We have found the Dual Readers to be very efficient. The sound reproduction is far superior to that in any other equipment we have used in the past."



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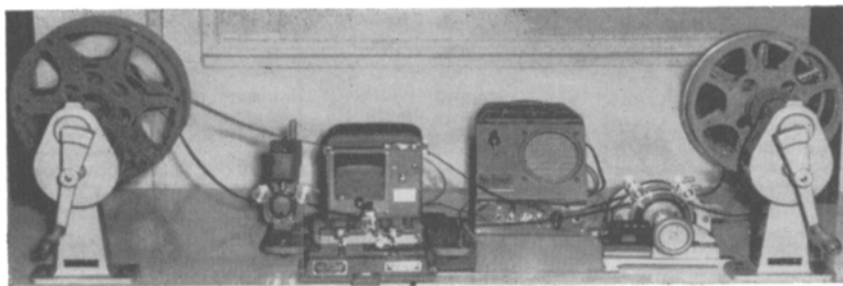
CAMART DUAL SOUND EDITOR, Model SB-11

Complete with optical sound reproduction head (or choice of magnetic sound) base plate, amplifier-speaker. For single or double system sound. Easy to handle, no twisting film. An unbeatable combination with the . . .

ZEISS MOVISCOP 16mm precision viewer, sharp brilliant 2 1/4 x 3 1/4 picture.

- Dual Reader, less viewer \$195.00
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- Special Reader-Viewer combination

\$269⁵⁰
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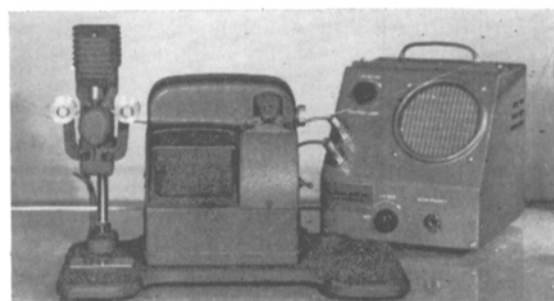
Complete editing outfit includes Dual Reader, choice of B&H or Zeiss Moviscop viewer, pair HFC two reel rewinds w/spacers & locks, Moviola two gang synchronizer, B&H Junior hot splicer, formica editing board.

- List over \$740.00
- Special combination offer

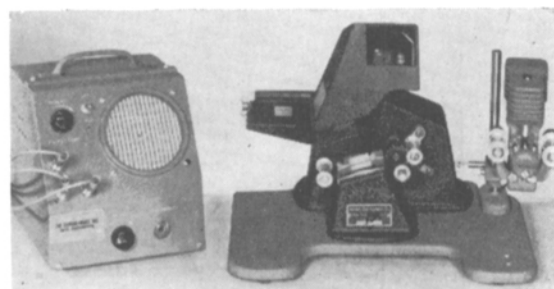
\$669⁵⁰
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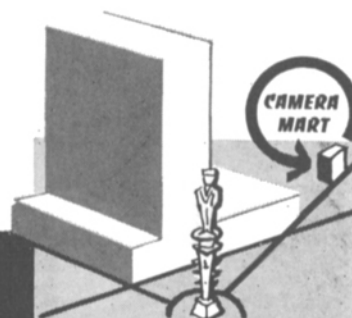
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able because of the construction of the new International Airport at Isla Verde. The hangar has been leased by the Richport Amusement Corp. from Puerto Rico Ports Authority. The corporation, which has an authorized capital of \$3 million, is headed by Hal Roach, Sr., who plans to operate the studio. Construction work is expected to begin in May.

The 20th Annual National Audio-Visual Convention will be held August 6-9 at the Morrison Hotel, Chicago. The theme will be "The Challenge of the Sixties." The Convention and Exhibit is expected to bring together more than 2500 people from the audio-visual field. Further information is available from NAVA, Fairfax, Va.

A multiple-camera technique for filming live, unrehearsed panel discussions, business conferences and similar situations has been announced by Wilding, Inc., 1345 W. Argyle St., Chicago. The process, called Communi-Cam, employs two or more cameras synchronized and set in motion from a central control point and operated independently by separate crews. Use of film permits editing out irrelevant portions of a discussion.

As the printing press made obsolete the craftsmen who lettered and bound the missals of the Middle Ages, so may the electronic computer make obsolete the editors and scholars whose specialty is the preparation of concordances. At Cornell University, Ithaca, New York, a Concordance to the Poems of Matthew Arnold

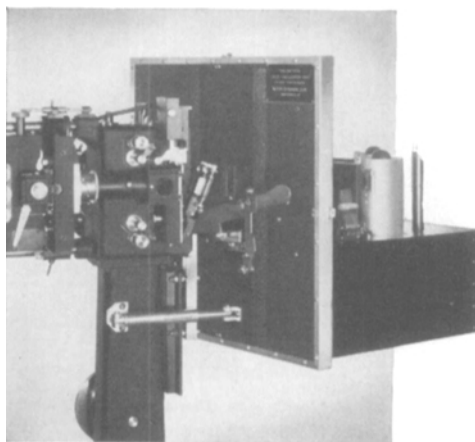
(975 pages of print, plus an appendix; 70,000 references, and the occurrence of 10,097 words of the poet's vocabulary) was prepared with "dazzling speed" by using an electronic computer which reads at the rate of 15,000 characters/sec and makes 42,000 logical decisions/sec. In announcing publication of this volume the Cornell University Press said that the "flawlessly correct machine-brain system of editing paves the way for the editing and printing in a matter of hours of monumental volumes that formerly involved painstakingly long and detailed years of work by many editors and technicians." Each great invention adds something, but is also subtracts and until the final totting up of the column no one knows what the sum may be. There is an uneasy suggestion in announcements of this sort that the human brain may soon become obsolete, useless for almost every kind of activity except contemplation.

In October 1958, the Education, Industry News column of the *Journal*, which is permitted either one coruscating or two mild jokes each year, made one of its mild jokes (p. 698). In reporting the possible development of a process of releasing appropriate scents during motion-picture showings "to heighten audience identification", the column commented jovially, "Chanel No. 5 might be used for 'high-society'-type romances and perhaps a lovely combination of tar and bilge-water for *On the Waterfront* type dramas." Jokes? At this writing, the motion-picture *Behind the Great Wall* is showing in New York theaters and according to the (mostly favorable) reviews, the smells are most realistic. An interview with perfume chemist Selma Weidenfeld who worked on Aromarama, as the new process is called, was reported in the *New York Herald Tribune*, Dec. 3, 1959. She produced a river smell by mixing "roots, mosses and a synthetic ozone." (The inspiration for next year's Hit Parade song, *Smell Me a River*.) She also was required to create a smell identical with that of a trapped tiger. "A trapped tiger," she said, "smells subtly different from a tiger at large, and a whole lot different from the tiger house in the Zoo."

Since last year's joke may become next year's reality, the Education, Industry News column is duly warned to watch out for these "smelly" jokes.

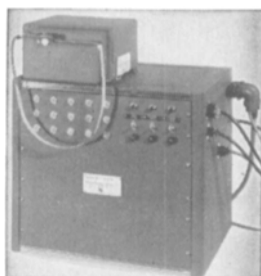
A comprehensive revision of American Standard PH2.5-1954—Method for Determining Photographic Speed and Exposure Index, is expected to be approved and published in the near future, according to the *ASA Newsletter* for January. The exposure index for black-and-white film has been criticized for some time because of the "safety factor" which has been deemed outmoded by continuing developments in photographic techniques. The proposed new standard will reduce the safety factor from about 2.5 to about 1.2 (the same as for color film), set up new methods for determining sensitivity of photographic negative material, and give a new logarithmic scale for expressing film speed.

The elimination of the safety factor means that black-and-white film presently rated ASA 50 will be rated ASA 100.



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To fit Bell & Howell Models D & J . . . \$5,100
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This 3-light additive color unit supplies discrete blue, green and red beams. No one beam contributes to contamination of the others.

Solenoid operated, calibrated neutral density glass filters. Five filters in each color beam, giving 32 printer steps of .025 or .030 Log E.

High efficiency interference-type dichroic beam splitters to form a single mixed output beam.

Colored glass and/or high efficiency interference-type trimming filters, "peaked" to the positive stock sensitivity.

Printing speed up to 125 feet a minute for continuous printing; 55 feet a minute for step printing.

Three 750-watt bulbs, operating at 60-80 volts. Assures long bulb life, saving time in calibration.

Adjustable lamp sockets to line up filaments. Three degrees of freedom; vertical, rotational, lateral.

Four-leaf adjustable diaphragm, imaged at the printing aperture which provides an optical printing aperture for exposure and/or uniformity control (on units to fit Bell & Howell Models D & J only).

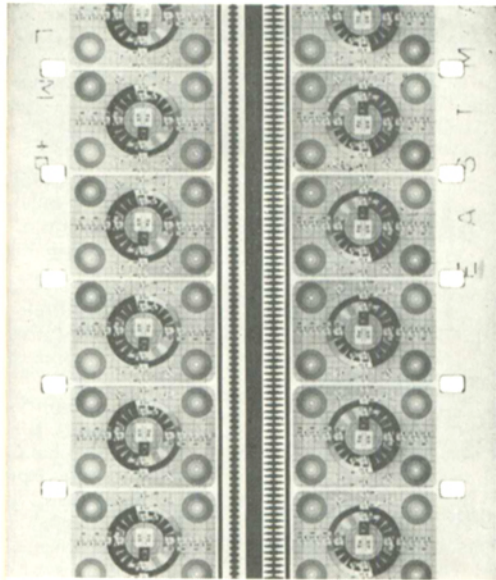
AVAILABLE ACCESSORIES

3-Channel Memory Unit with Reader for automatic operation of flipper assembly, reading in succession blue, green, red and storing the introduced information. 15 neon pilot lights indicate when the 15 neutral density filters are in or out so that operator can see at a glance if Reader and Memory Unit are functioning properly. For easy servicing, commercially available punched tape reader is used as a base. Price: \$3,200 F.O.B. New Rochelle, N. Y.

Keyboard and Punch with 32 combinations for each color; blue, green, red; with an additional channel for introducing other information such as stop, lap dissolves, etc., and with built-in scene counter. Can also be used with Reader to reproduce automatically duplicate tapes and will permit corrections of the tape and continue with the accepted information. Price: \$2,300 F.O.B. New Rochelle, N. Y.

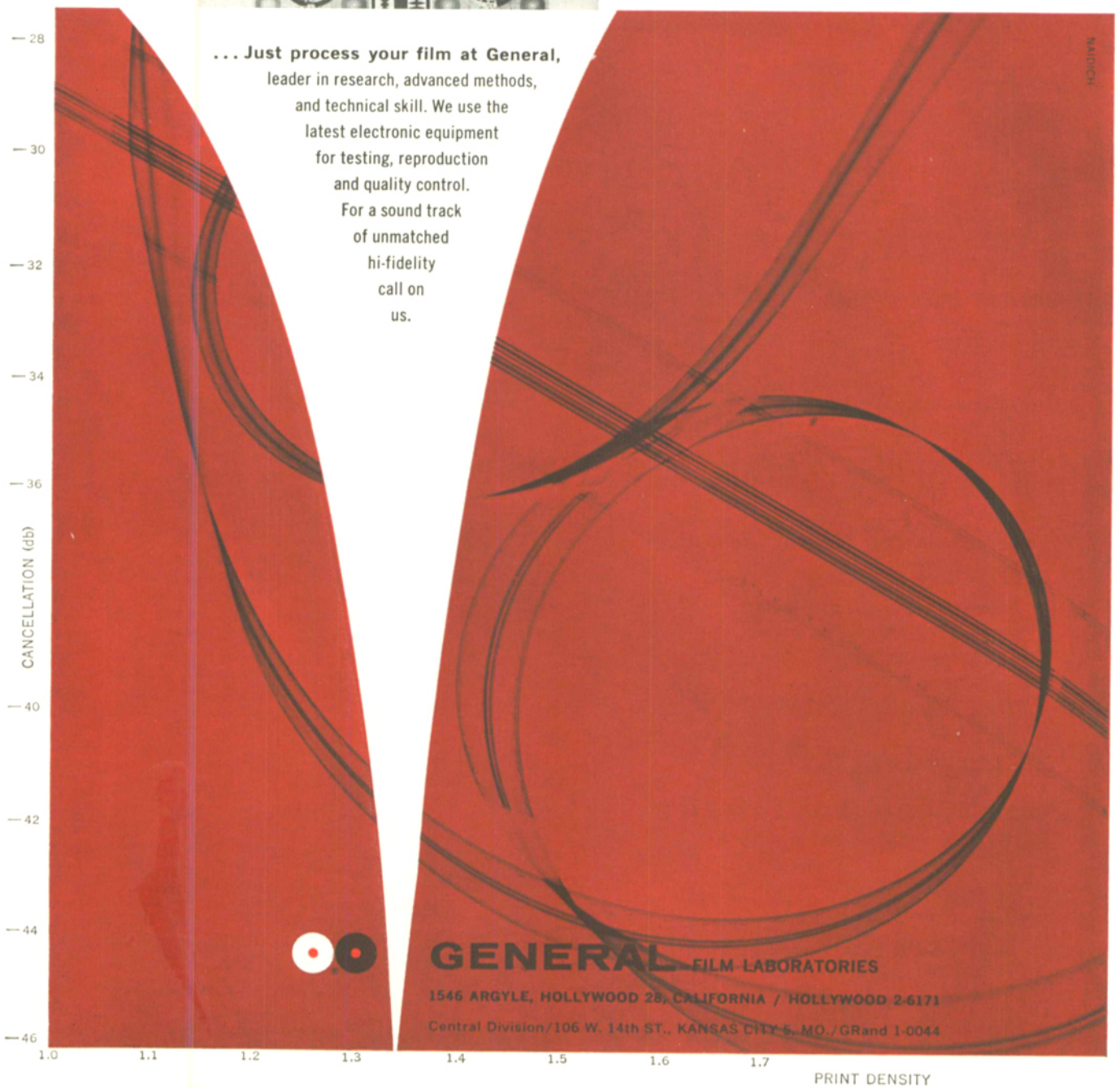
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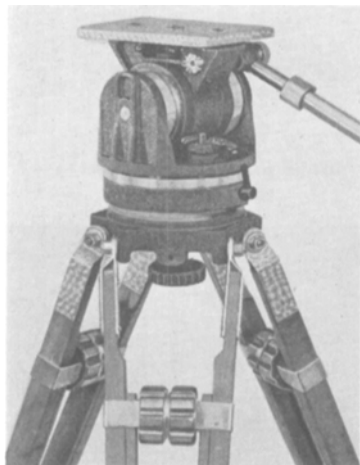
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Larger Silicone Dampening Area than any Tripod in its class and price range

- ▶ Designed for professional cameramen.
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- ▶ Aluminum construction, weight 21 lbs.
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- ▶ First tripod of its kind with ball-type leveling at bottom of base with positive lock at NO EXTRA CHARGE.
- ▶ Tripod base of seasoned V-type maple-wood legs with self-aligning leg locks.
- ▶ For all cameras 40 lbs or less.

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Cine Special—Eyemo—Filmo—Cineflex

There will be no changes in color film ratings. The new logarithmic scale will use unit numbers from 0° to 11°. A step from one number to the next doubles the speed. For example, ASA 25 will be (logarithmic) ASA 3°, and ASA 50 will become ASA 4°.

A recent publication bearing on this subject is "Safety Factors in Camera Exposures" by C. N. Nelson in *Photo. Sci. & Eng.*, pp. 48-58, Jan.-Feb. 1960.

The Cinemiracle process developed by National Theatres and Television, Inc., has been purchased by Cinerama, Inc., according to a joint announcement by B. Gerald Cantor, President of N.T.&T., and Hazard E. Reeves, President of Cinerama. The Cinemiracle process was introduced in April, 1958, with a simultaneous showing in New York and Hollywood theaters of the picture *Windjammer*. With this process, a picture composed of three prints synchronously projected side by side is shown on a deeply curved screen. The purchase price is said to be more than \$3 million.

An earlier announcement (*Journal*, p. 78, Jan. 1960) revealed an agreement between Loew's, Inc., and Cinerama, Inc., for the production of feature-length films in the Cinerama process.

The 1st International Congress on Medical Photography and Cinematography will be held in Cologne, Germany, Sept. 27-30, under the auspices of the Deutsche Gesellschaft für Photographie e.V. Topics under the general subject of Photography in Medicine will include Endophotography, Macrophotography, Microphotography, X-ray Photography and Operation Photography. Under Cinematography will be included the topics of Endocinematography, Macrocinematography, Microcinematography, X-ray Cinematography, Sound Technique and Lighting Technique. A number of papers by well-known scientists from various European countries are scheduled for presentation.

The Third International Conference on Medical Electronics will be held in London, July 21-27, 1960. The meeting is being organized by the Electronics and Communications Section of the Institution of Electrical Engineers and the International Federation for Medical Electronics. Papers to be presented are grouped in four broad categories: Research and Advanced Development; Survey Papers; Integrating Papers which present a critical view of developments in a field, and Medical Electronic Engineering Practices and Achievements. Session topics include Ultrasonics, Isotopes and Radiology, Electronic Aspects of Human Engineering, and Medical Electronics in Space Research. Program coordinator in the United States is Lee B. Lusted, M.D., Department of Radiology, Univ. of Rochester School of Medicine, Rochester 20, N.Y.

The 29th Annual Meeting of the Inter-Society Color Council will be held at the Philadelphia Museum College of Art, Philadelphia, April 11 and 12, 1960. Meetings of color problems subcommittees

VARIABLE SPEED MOTOR with TACHOMETER

for Cine Special and Maurer Cameras

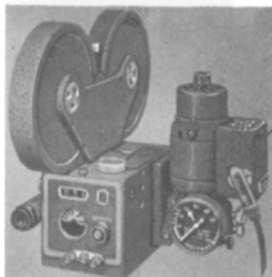
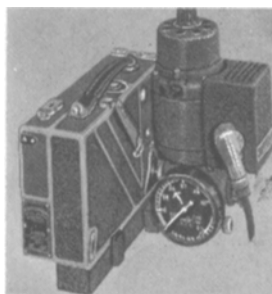
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Interchangeable Motors: 12-V DC variable Speed 8-64 Frames. 115-V AC 60 Cycles, Synchronous Motor, Single Phase. 220-V AC 60 Cycles, 3 Phase, Synchronous Motor.

Animation Motors for Cine Special, Maurer and Mitchell Cameras. Motors for Bolex and Filmo Cameras. Time Lapse Equipment.

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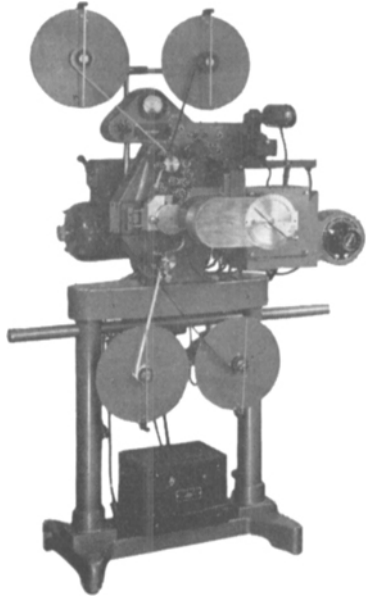
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Model 16-C-100



Single Head 16MM Continuous Contact Picture and Sound Printer

The NEW PETERSON 16MM CONTINUOUS CONTACT PRINTER has been designed to produce quality print at a new printing speed of 144 feet per minute.

A new type of aperture and film printing gate has been designed.

A precision contact roller is used rather than a shoe.

A new type of film support is used to carry the film edge of the sound side over a rolling drum, whereby perfect contact is obtained between the negative and positive print.

This printer is available with either a Semi-Automatic Light Control, or with a Fully Automatic Light Control.

New



Model 16-C-100

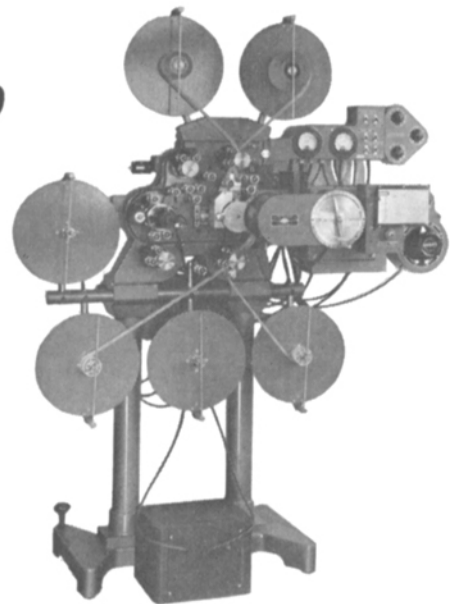
Double Head Contact Printer

The NEW MODEL 16-C-60 PETERSON DOUBLE HEAD CONTACT PRINTER prints sound and picture simultaneously, from separate negatives, in one operation.

Equipped with Semi-Automatic Light Control.

Available in 16MM or 35MM.

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Produces quality print at a new speed of 72 or 144 feet per minute. Two-speed drive motor is used. Film take-up flanges have individual torque motors. Feed-out and take-up flanges will hold 1200 foot film rolls.

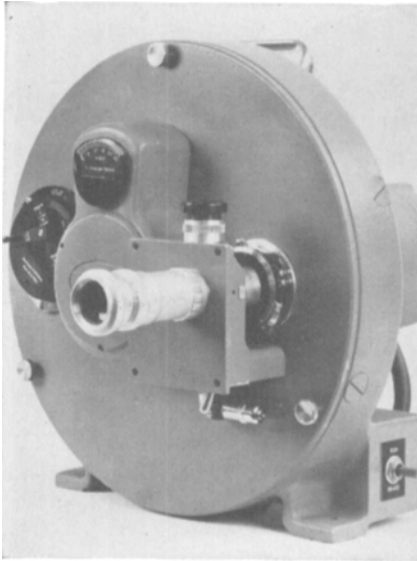


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SAN CARLOS 9, CALIF., U. S. A.

will be held April 11. An especially interesting Symposium will be held April 12, in the afternoon, on "Creative Color." Speakers are Neil Welliver, Asst. Prof., Dept. of Art, Yale University; Lester Beall, Designer, Brookfield Center, Conn.; and Robert Riley, Director, Industrial Research Division, Brooklyn Museum. An illustrated lecture will be given the evening of April 12 by James J. Sweeney, Director, Solomon R. Guggenheim Museum, New York.

Refining Copper From the Sudbury Nickel Ores is a 39-minute film produced by Film Graphics, Inc., for the International Nickel Co. to dramatize the problems the copper refiner must solve in separating pure copper from molten crude blister copper. Filmed in Technicolor, the "sets" include the interiors of furnaces with temperatures ranging up to 2200 F, and industrial plant locations for such scenes as blister copper being poured directly from hot-metal cars into the giant anode furnaces, huge banks of casting wheels, and an electrolyte cell room covering more than four acres. Color rear-screen projection is used to give the viewer a sense of immediacy. All possible precautions were used to protect the camera and cameraman when photographing the interiors of the furnaces such as heat-absorbing glass and asbestos shields. Air hoses played cool air on the camera and lenses as they photographed hot-metal working and pouring operations. Prints are available without charge to science classes of high schools and colleges, industrial organizations and technical and engineering societies. The film was described in an article. "You have to SEE the Big Picture," in Issue Six, Volume Twenty, of *Business Screen Magazine*.

Research in radiophysics and other fields related to the study of space will be conducted at a newly created research center at Cornell University. Among the areas of research will be radio investigation of the atmosphere; space vehicle instrumentation for the study of gases in the solar system; radio investigation of the ionosphere and of the gases beyond the ionospheric layers; radar investigations of the planets; radio astronomy of galactic and extragalactic sources, and laboratory investigations pertinent to these sources. Thomas Gold, an internationally recognized cosmologist, has been named Director of the center. Associate Director will be Henry G. Booker, a leading scientist in theoretical research of electromagnetism and radio propagation.

The Standards Engineers Society, 1025 Connecticut Ave., N.W., Washington 6, D.C., was organized in 1947 with the aim of providing a means for standards engineers and others interested in standardization to exchange ideas in meetings and publications. Incorporated in 1956, the organization has a membership of over 900 in the United States and other countries. Publications include *Standards Engineering*, a magazine containing articles on standardization, and the *Proceedings* of each annual meeting. The last meeting was held in September in Boston, Mass.

Membership is available in three grades, Member, Associate and Student. Two additional grades, Honorary Life Fellow and Fellow may be conferred by the Board of Directors.

Three new departments established by TelePrompter Corp., 311 W. 43 St., New York 36, are: Research and Development; Programs and Production; and Communications Systems Division. Heads of the new departments (in that order) are: H. J. Schlafly, Jr., Edward Reveaux and Nat C. Myers.

Peachtree Production Associates, Inc. has moved its offices to Suite 217, 710 Peachtree St. N.E., Atlanta, Ga. The firm was formerly located at 220 Pharr Rd., Atlanta.

Acquisition of a new plant in West Los Angeles and the appointment of three new staff members to the West Los Angeles division as part of an expansion program has been announced by Houston Fearless Corp., 11801 W. Olympic Blvd., Los Angeles 64. Charles F. Andrews, former Production Manager for Consolidated Photographic Industries, has been appointed Manager, Photo Finishing Equipment Section. James Hannum and Howard Speer, both formerly with Hughes Aircraft Co., have been assigned to the Communications Research Group, Mr. Hannum as Manager and Mr. Speer as Senior Staff Engineer.

A suggestion that the services offered by the Engineering Societies Library, 29 W. 39 St., New York 18, are not being fully explored by many organizations and individuals who might benefit from them was made by Ernest Hartford, Director of Promotion, Engineering Index, Inc. (same address), in a speech before the Council of Engineering Society Secretaries. He said that 55,000 journals appear annually containing about 1,200,000 articles of significance for some branch of research and engineering. More than 60,000 books on some area of engineering are published each year and about 100,000 research reports remain outside the normal channels of publication and cataloging.

Even the compilation of these statistics represents a staggering task, and sifting the huge mountain for information in some specific context is beyond contemplation.

The *Engineering Index* (current issue 1958; 1959 edition scheduled for June 1960) sifts through this mountain to provide a guide to periodical technical literature. The volume is priced at \$70.

The Engineering Library offers such services as translations, literature searches, bibliographies, and many others for nominal fees. A folder outlining these services is available without charge.

The Society of Photographic Scientists and Engineers will hold its Annual Conference May 9-13, 1960, at the Miramar Hotel, Los Angeles. Subjects to be explored in technical papers presented at the Conference will include optics, camera and equipment design, photosensitive systems, the use of photography in scientific and

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engineering recording and measurement, data acquisition and information storage and retrieval with photographic materials. Papers Chairman is John H. Jacobs of Consolidated Electrodynamics Corp., Pasadena, Calif.

A report from the National Educational Television and Radio Center, 10 Columbus Circle, New York 19, outlines a year of progress highlighted by a Ford Foundation grant, enabling the network to equip its member stations with video-tape recorders; a gift from Minnesota Mining and Mfg. Co. to provide for a basic supply of tape for network use; and a grant from the Ampex Foundation establishing a model video-tape duplicating center in Ann Arbor, Mich.

The report is in the form of a 26-page illustrated brochure, entitled *1959 — Year of Progress*. The Center, now in its seventh year, has as its goal the broadly defined objective of promoting "the advancement of educational television and radio for the general welfare."

Highlights of the IRE International Convention held in New York, March 21-24, included a symposium on "Electronics — Out of the World" conducted by Ernst Weber, President, Polytechnic Institute of Brooklyn. Subjects of papers included: Intergalactic Data, Communication Relaying, and Design for Survival, among others. During the Convention about 275 papers were presented in 54 sessions.

About \$15 million worth of electronic equipment was displayed at the New York Coliseum for the Radio Engineering Show. Guest speaker at the opening meeting was Lloyd V. Berkner, President, Associated Universities, Inc.

The Rochester Institute of Technology Student Chapter has announced the First Annual Awards Competition for Student Technical Papers, cosponsored by the Chapter and Delta Lambda Epsilon (photographic fraternity). A joint meeting will be held May 19, 1960, at which the six papers judged the best of those entered in the competition will be read. The Chapter held its first meeting of 1960 on January 28. Fred Emens of Wollensak Optical Co. spoke on "High-Speed Cinematography in Science and Engineering." Conrad A. Strub is Program Chairman.

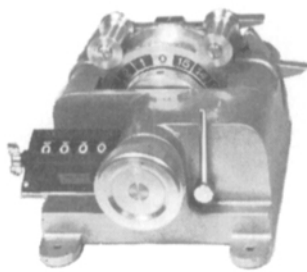
High-Speed Photographic Measurement Techniques will be the subject of a Seminar to be held at the Massachusetts Institute of Technology, Aug. 15-19. The program is under the direction of Prof. Harold E. Edgerton of the Dept. of Electrical Engineering. Topics to be discussed include stroboscopic lighting, optical high-speed cameras, Kerr cells, Faraday shutters, and image converters. In addition to the discussions there will be laboratory demonstrations of various types of high-speed photographic equipment. Further information is available from the Office of the Summer Session, Room 7-103, M.I.T., Cambridge 39, Mass.

The list of categories of films competing in the 1960 American Film Festival, sponsored by the Educational Film Library Association, 250 W. 57 St., New York 19, has been revised to include additional categories of scientific films. More than 500 films have been submitted with a marked increase over previous years of films on such subjects as astronautics and other areas of scientific interest. Two separate categories have been added to the Science and Mathematics category, making three in all. Competing films are now grouped in 34 categories arranged in larger groups under five main subjects: Education and Information; Art and Culture; Religion and Ethics; Business and Industry; Health, Education and Medicine. The 1960 American Festival juries will meet April 20-23 at the Barbizon Plaza Hotel, New York.

The Summer Instrument-Automation Conference and Exhibit of the Instrument Society of America will be held May 9-12 in San Francisco. A number of technical papers scheduled for presentation deal with control valve problems. A Session on Aerosols and Condensation Phenomena Measurement will be held in conjunction with the American Meteorological Society. Other sessions will be on Metals and Ceramics Instrumentation; Data Handling and Computation; Physical and Mechanical Instrumentation; and Feedback Control System. This will be the second ISA Conference and Exhibit held during 1960, the first having been held in Houston, Tex., Feb 1-4. The ISA International Conference and Exhibit, held in conjunction with the 15th Annual Meeting, will be held Sept.

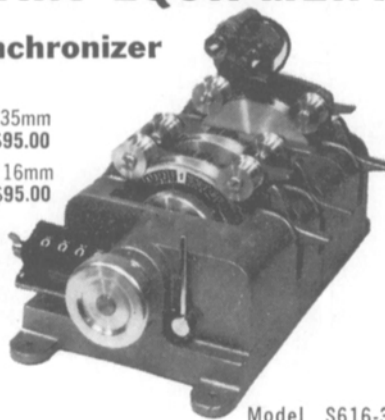
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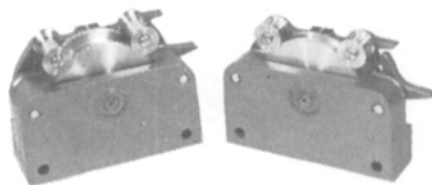


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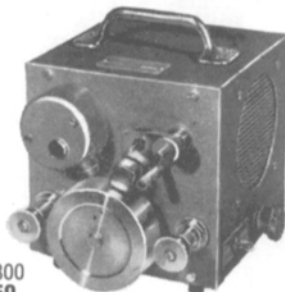


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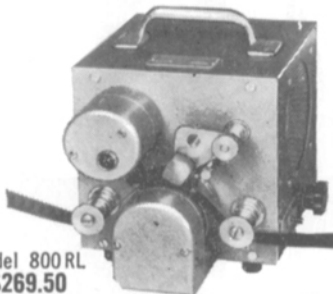


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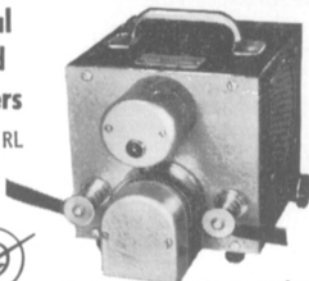


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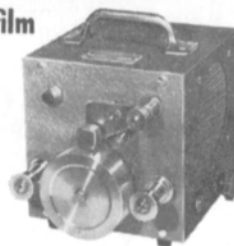
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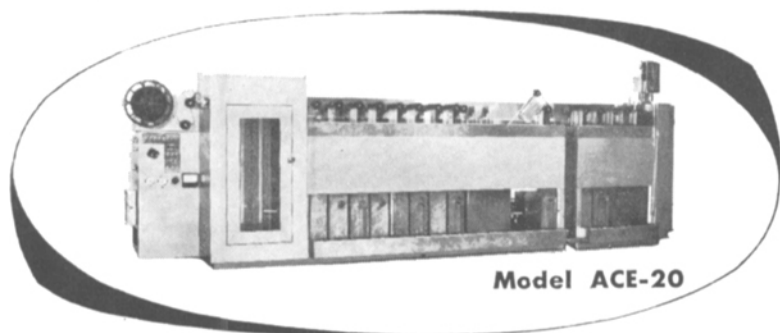
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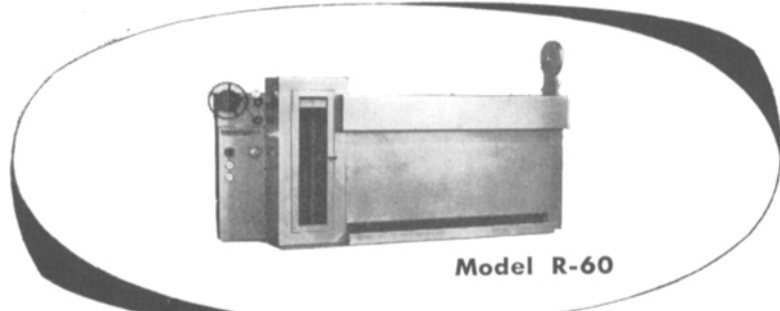
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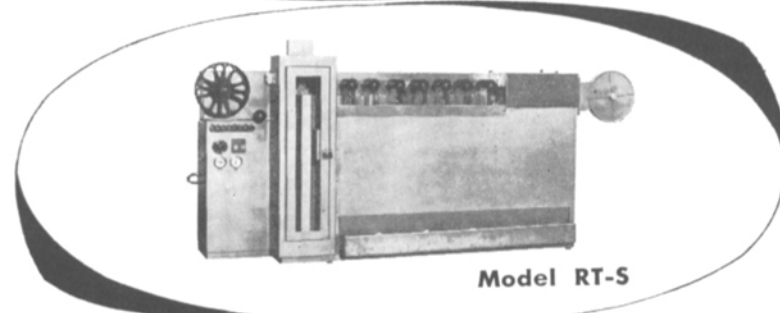
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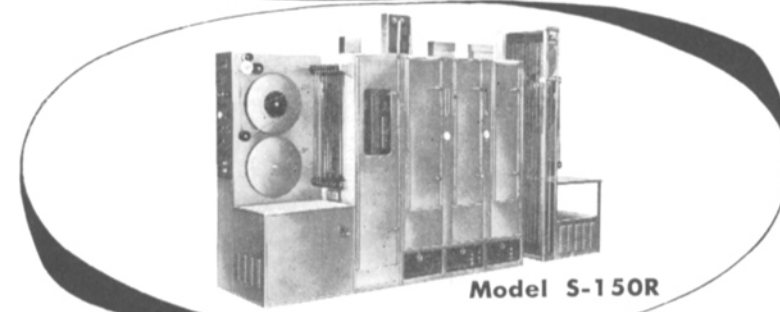
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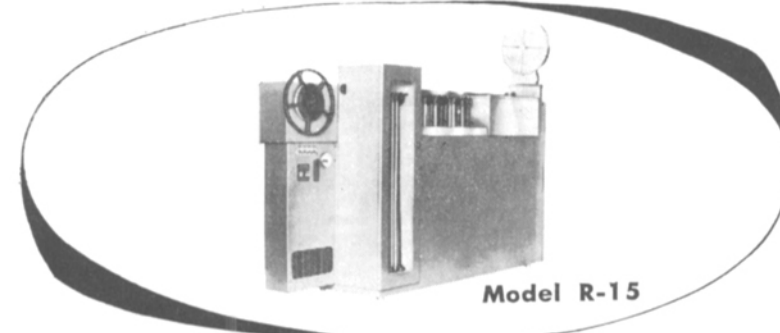
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316 D	Neg/Pos.	B&W	16mm	60 FPM
316 DS	Neg/Pos.	B&W	16mm	60 FPM
416 D	Neg/Pos.	B&W	16mm	80 FPM
N	Neg/Pos.	Microfilm	16/35mm	8 FPM
L	Neg/Pos.	B&W	16/35mm	8 FPM
RN 16/35	Neg/Pos.	B&W	16/35mm	24 FPM
RN 16/35mm	Neg/Pos.	Microfilm	16/35mm	24 FPM
316D35	Neg/Pos.	B&W	16/35mm	32 FPM
316D35M	Neg/Pos.	Microfilm	16/35mm	32 FPM
416D35	Neg/Pos.	B&W	16/35mm	80 FPM
PN100	Neg/Pos.	B&W	16/35mm	100 FPM
S 150-R	Neg/Pos.	B&W	16/35mm	150 FPM
470 ND	Neg/Pos.	B&W	70mm	10 FPM
35ND70	Neg/Pos.	B&W	35/70mm	30 FPM
70R10	Reversal	B&W	70mm	10 FPM
R 15	Rev & Neg/Pos.	B&W	16mm	15 FPM
R15TC	Rev & Neg/Pos.	B&W	16mm	15 FPM
R40	Rev & Neg/Pos.	B&W	16mm	25 FPM
R40TC	Rev & Neg/Pos.	B&W	16mm	25 FPM
RT-5	Rev & Neg/Pos.	B&W	16mm	85-125 FPM
R-60	Rev & Neg/Pos.	B&W	16mm	30 FPM
R-17-35	Rev & Neg/Pos.	B&W	16/35mm	17 FPM
R-60S	Rev & Neg/Pos.	B&W	16mm	60 FPM
R-90	Rev & Neg/Pos.	B&W	16mm	90 FPM
CN-10	Eastman Neg Ektacolor	Color	46mm	12 FPM
CN35-10	Eastman Neg Ektacolor	Color	35/46mm	12 FPM
ENP-25	Eastman Neg	Color	16/35mm	25 FPM
ACE 20	Anso/Ektachrome 7255 Ektachrome Eastman SO 260	Color	16mm	22 FPM
	SO 270			
ACE 40	Anso	Color	16mm	36 FPM
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35KC-45	Kodachrome	Color	16mm	45 FPM
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