



Why does the

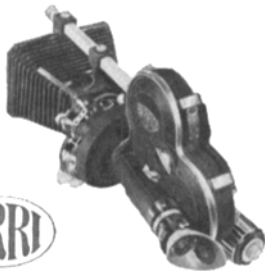
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current literature



The Editors present for convenient reference a list of articles dealing with subjects cognate to motion-picture engineering published in a number of selected journals. Photostatic or microfilm copies of articles in magazines that are available may be obtained from The Library of Congress, Washington, D.C., or from the New York Public Library, New York, N.Y., at prevailing rates.

BBC Eng. Div. Monograph No. 39, Oct. 1961
Twenty-five Years of BBC Television, *Sir Harold Bishop*

E.B.U. Rev. Pt. A. No. 69, Oct. 1961
The Television Circuit Between France and North Africa (p. 182) *F. Anguéra*
The Equipment Used on the France-North Africa Television Circuit (p. 190) *J. D. Koenig*
The Accurate Measurement of Video Levels (p. 195) *L. E. Weaver*
A New Method of Editing Television Tape Recordings (p. 198) *J. Schürer*

67-A, June 1961
On the Causes of Differential Gain and Phase on Frequency-Modulated Television Links (p. 90) *E. Castelli*

International TV Tech. Rev. vol. 2, Aug. 1961
The Master Plan for Planning a TV Station (p. 7) TV Station Now Available as a Packaged Deal (p. 13) *Jonathan Chambers*
The Growing Demands of Industrial TV (p. 31) *B. G. Scott*
3-Gun Tube Compared with Beam Index Single-Gun Tube (p. 33) *T. Seki and K. Takeuchi*
Combined Picture-Sound Equipment for Low-Budget Film Making (p. 36)

vol. 2, Sept. 1961
The Zebra: First full details of a new British colour tube (p. 6) *E. P. L. Fisher*
"The New TV Show; Two colour systems demonstrated side-by-side (p. 23) *Jonathan Chambers*

vol. 2, Dec. 1961
Communications Satellites for Television (p. 6) *Len Mathews*
Camera Dolly of the Future (p. 41) *R. Howard Cricks*

vol. 3, Jan. 1962
Towards a Remote-Control One-Lens TV Camera (p. 6) *John Dickson*
The British Television Network: Pre-Planned for Expansion (p. 12) *E. P. L. Fisher*

vol. 3, Feb. 1962
Television on the Moon (p. 58) *Max Frank and Donald J. Ritchie*

Jour. Brit. IRE vol. 21, June 1961
Techniques of Microwave Noise Measurement (p. 503) *B. G. Bosch and W. A. Gambling*

vol. 22, Oct. 1961
Techniques of Microminiaturization (The thin film and semiconductor solid circuit approaches to microminiaturization are described and some typical units are shown.) (p. 281) *D. H. Roberts and D. S. Campbell*

Radar Contact with Venus (p. 293) *Prof. V. A. Kotelnikov*

Radar Measurement of the Planet Venus (p. 297) *L. R. Malling and S. W. Golomb*

vol. 22, Dec. 1961
Communications Satellites Developments (p. 463)
Twenty-Five Years of Television (p. 526)

Jour. Inst. Telecomm. Eng. vol. 7, July 1961
Coaxial Cable Characteristics at Radio Frequencies (p. 163), *C. S. Rangan, B. C. N. Rao and M. P. Viswanathan*

NEC Research and Development
No. 2, Sept. 1961
Applications of Noctovision as Aids to Navigation in the Night and Through Fog (p. 23) *O. Harashima and H. Kojima*

Philips Tech. Rev. vol. 22, no. 12, 1960/61
Recent Developments in Electronic-Flash Lamps (p. 377) *C. Meyer*
Multipath Transmission Effects in FM Reception and Their Simulation in the Laboratory (p. 393) *J. Koster*
Circular Optical Absorption Wedges (p. 402) *J. van der Wal*

vol. 23, no. 1, 1961/62
New Developments in Oxide-Coated Cathodes
I. Oxide-Coated Cathodes for Loads of 1 to 2 A/cm² (p. 19) *H. J. Lemmens and P. Zalm*
II. An Oxide-Coated Cathode With a Half-Watt Heater for Cathode-Ray Tubes (p. 22) *F. H. R. Almer and A. Kulper*

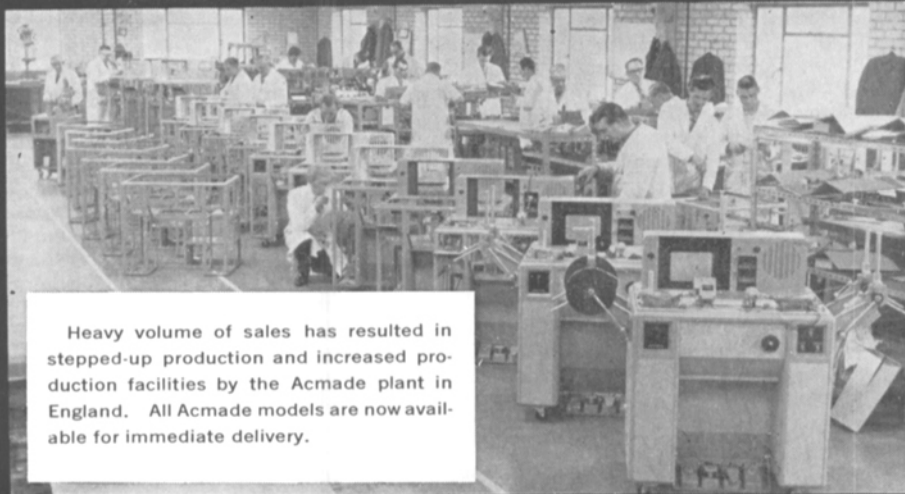
Proc. Inst. Electrical Eng.,
Pt. B. vol. 108, Nov. 1961
The Banana-Tube Display System (p. 577) *P. Schagen*
Development of the Banana Tube (p. 587) *B. A. Eastwell and P. Schagen*
Mechanical and Manufacturing Aspects of the Banana-Tube Colour-Television Display System (p. 596) *H. Howden*
Circuits for the Banana-Tube Colour-Television Display System (p. 604) *K. G. Freeman*
Colorimetry of the Banana-Tube Colour-Television Display System (p. 613) *R. N. Jackson*
Appraisal of the Banana-Tube Colour-Television Display System (p. 624) *K. G. Freeman and B. R. Overton*

vol. 109, No. 43, Jan. 1962
The International Comparison of Atomic Standards of Time and Frequency (p. 41) *L. Essen and J. McA. Steele*
The Comparison of Highly Stable Frequency Standards (p. 48) *E. G. Hope*

Books, Booklets, Brochures

Televised Instruction contains published lectures which were prepared for a special seminar held at Wayne University during the summer of 1961 on the subject of TV in education. The lectures, delivered by persons actively concerned with educational television, cover such subjects as planning, experience and research. Reports are included on the Detroit Schools, Junior College in Chicago, the State of Michigan, Hagerstown, Md., and Wayne State University. The book is available from Mass Communications Center, Wayne State University, Detroit 2, Mich. It is priced at \$3.00.

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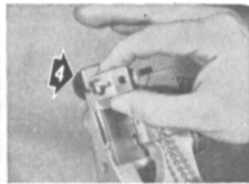
This moderately priced splicer incorporates new precision features which insure absolute accuracy and safety in splicing. Three models are available: Model 16-16mm., Model 35-35mm., Model 35-16 combination 35mm. and 16mm.



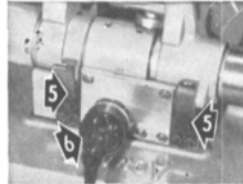
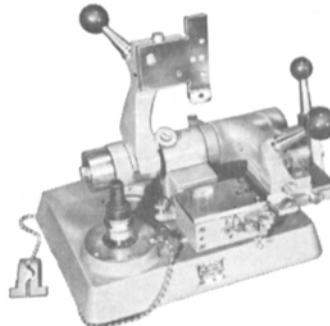
1. The combination 35mm.-16mm. Model features retractable 35mm. and 16mm. pins. This permits center placement of the 16mm. pins for A and B roll splicing.

2. Stainless steel blocks are precision fitted with Tungsten-Carbide inserts for cutting. Cutting edges will remain sharp and last forever.

3. Attached scraper adjustable for depth — fitting jig incorporated on splicer base.



4. Specially designed right-hand pressure block permits easy and accurate back-scraping on all models.



5. Tempered steel springs provide perfect pressure, positioning film firmly during scraping and splicing processes.

6. Thermostatically controlled heater maintains constant 100° temperature.

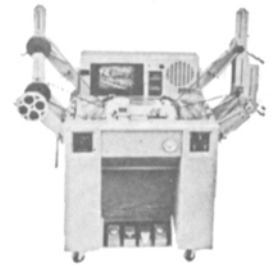
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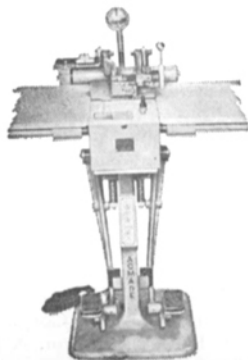


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Operation of this simple, efficient editing machine can be mastered in minutes. Continuous (non-intermittent) movement provides absolute protection for your film. Instant controls and declutching allows up to 50% greater speed for pic & sound editing. All combinations of 16mm and/or 35mm channels, plus magnetic and optical sound available.

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16 mm-35 mm
Model . . .
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This splicer is constructed, as is usual with ACMADE products, of the finest materials and workmanship. All castings are of the best quality and the top body and cutter arms are seasoned to prevent distortion after machining. The machining is carried out to limits of $\pm .0005''$ in order that the cutter blades shall close in a dead parallel manner. The cutter blades are made from stainless steel with Tungsten Carbide inserts, and afterwards ground lapped and polished to a limit of $\pm .0002''$ thickness and the cutting edges relieved by 1° . The Tungsten Carbide inserts will have

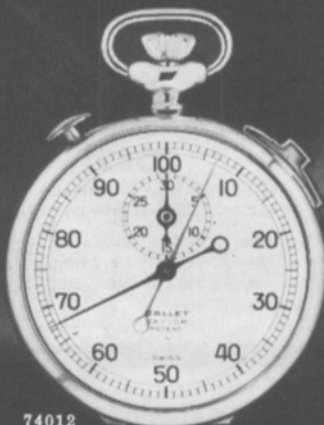
indefinite life and will not require sharpening as with other types. A heater unit is installed in the top body of the machine. The top light in a well glass fitting is attached to the body of the machine and also an inspection light in the waste bin together with cement bottle and brush. A scraper block is supplied and also a scraper block setting jig and support shelf rubber-covered. The whole machine is finished in first quality grey hammer and all metal parts other than cutter blades are hard flash chromed.

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Television for Children, a well-designed 56-page booklet illustrated by unusually appealing photographs of children, is a project of the Foundation for Character Education prepared in cooperation with the Boston University School of Education. Twenty contributors from the fields of education and communication assisted Ralph J. Garry, Professor of Education, Boston University, who directed the project. The booklet contains a great deal of informative material and thought-provoking conclusions. For example, "... adults tend to see children in much the same way that the television industry sees adults—all alike. . . A second misconception is that the world appears to children as it does to the adults, that children will see the same things in a television program that adults do."

Although the contributors generally approached the overall subject of television and children in a moderate and objective manner they by no means absolved producers of responsibility. In the section on Effects of Television, occurs the statement, "... producers deceive themselves if they think that a virtuous end to a program justifies any plot, any amount and kind of violence, and any set of values and attitudes. Children respond to, adopt, and imitate all that they see. And what they see is determined by program content as well as by their interests, drives and experience."

The booklet was designed by Carl F. Zahn and the photographs are by Steven Trefonides, of Boston.

Forty Years of Radio Research, by George C. Southworth, published (1962) by Gordon and Breach, Science Publishers, Inc., 150 Fifth Ave., New York 11, is an autobiographical account of the author's experiences in the development of waveguide techniques leading to shortwave radio and its many applications. Dr. Southworth who, for some years prior to his retirement was engaged in research at Bell Telephone Laboratories, was awarded the Morris Liebmann Prize by IRE in 1938 and the Louis Levy Medal of the Benjamin Franklin Institute in 1946. The opening chapters of the book deal with Dr. Southworth's education which began in a one-room, eight-grade country school. He describes what to him seems to be the many advantages of education beginning in a one-room school. In 1923 after having been granted the degree of Ph.D. by Yale University, he chose a career of research and development with an industrial organization. Ranging over two world wars and contains many illuminating anecdotes, the book contains 304 pp and is illustrated. It is priced at \$6.50.

U.S. Government Films for Public Educational Use-1960 is a 502-page catalog issued by the Office of Education, U.S. Department of Health, Education and Welfare, containing about 3000 titles and brief descriptions of educational films together with sources from which may be purchased, rented or borrowed. Also included in the catalog is general information about films and film services

of the government and more detailed information on television use and foreign use of government films. The catalog is available from the Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C. It is priced at \$2.75.

Educational Television: The Next Ten Years, published by the Institute for Communications Research, Stanford University, Stanford, Calif., under a contract with the U.S. Office of Education, Department of Health, Education and Welfare, is a report and summary of major studies on the problems and potential of educational television. Subjects discussed in the 376-page report include programs, financing, resources and facilities, and the responsibility of noncommercial television in representing interests and needs of the community. Contributors include educators and other authorities on educational TV, among them L. P. Greenhill, of Pennsylvania State University whose paper on "A new Moderately Priced Practical Television Film Recorder (co-authored by William O. Cruisimberry) appeared in the July 1959 issue of the *Journal*."

The April 1962 issue of **The Aperture**, published by Calvin Productions, Inc., 1105 Truman Rd., Kansas City 6, Mo., announces that, beginning in the Fall of 1962, processing facilities for 16mm Ektachrome Commercial and Ektachrome ER films will be added to the Calvin laboratory. The publication also describes in easily understood, chatty fashion problems and requirements of color processing. Also included as a regular *Aperture* feature is a film job exchange.

ASTM Standards on Plastics, 12th ed., compiled by Committee D-20 on Plastics is available from the American Society for Testing and Materials, 1916 Race St., Philadelphia 3. It is priced at \$10.00 (ASTM members price, \$8.00). About 25 new standards are included in this edition, including tests and specifications relating to cellular plastics, plastic pipe and such materials as epoxies, urethanes, plastisols and organosols. Also included is a test for measuring the tensile strength of plastics under impact conditions.

A 24-page catalog describing electrical, physical and chemical properties of Teflon TFE and 100 FEP resins is available upon request from Tri-Point Industries, Inc., 175 I. U. Willets Rd., Albertson, L.I., N.Y. The catalog lists specifications for a wide variety of basic extruded and molded forms, including rod, tube, tape, film, sheet, plate and spaghetti in virgin resin, as well as special filled and reinforced resin compounds.

The **Kalart/Victor Moviematic Repeater and Duolite 16mm sound projectors** are described in a brochure available from Victor Animatograph Corp., Division of Kalart, Plainville, Conn. A handy model selector chart is also available without charge.



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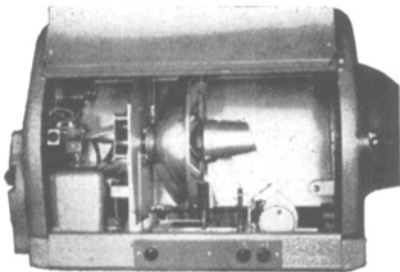
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Guide to the Correct Selection of a Timer or Chronograph, a handy little chart that show the type of instrument best suited for any specific purpose has been issued in a second edition by Jules Racine & Company, 20 W. 47 St., New York. It is available upon request. Information is shown under the categories of units of time measured; ideal uses; and model numbers available in "No time out," "Time out," "Splits no time out," and "Splits time out."

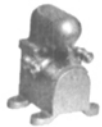
The Camex CR Dual-Reflex, an 8mm single-lens reflex motion-picture camera, is described and illustrated in a 3-color, 8-page brochure available upon request from Karl Heitz, Inc., 480 Lexington Ave., New York 17. The camera has a flip-up mirror attached to the shutter and a parallax-free, behind-the-lens exposure meter.

The April 1962 issue of the *UFPA Journal* is a special issue on *Screenwriting* containing high-level "how to" articles by top-flight script writers. Authors include Dwight V. Swain, Ernest D. Rose, Richard Dyer MacCann, Luella Snyder, and others. "The Anatomy of a Documentary" is a joint effort of the Staff of Project 20, and Edward Fischer, Associate Professor of the Department of Communication Arts, University of Notre Dame, has an article on "Films Worth Studying." Dr. Fischer is Associate Editor of the *UFPA Journal*. This special issue is priced at \$1.00, with discounts on orders for ten or more copies, available from The University Film Producers Association c/o Motion Picture Division, 1885 Neil Ave., Ohio State University, Columbus 10, Ohio.

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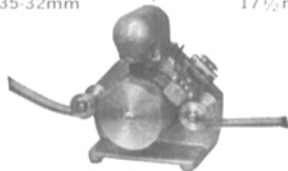
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 SRO — 16mm
 SRB — 35mm, 16mm,
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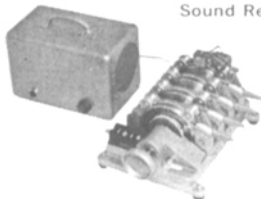


MAGNETIC READERS
 SRM — 35mm
 SRM — 16mm
 SRM — 35mm, 16mm,
 17½mm, ¼"



SRC { **OPTICAL** — 35mm, 16mm, 35-32mm
 { **MAGNETIC** — 35mm, 16mm, 17½mm, ¼"

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MS — 16
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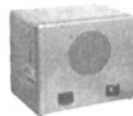
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Record readers, digital plotters, language converters and photo instruments are described in Bulletin QRC, an 8-page brochure available from Benson-Lehner Corp., 1860 Franklin St., Santa Monica, Calif. The brochure contains brief descriptions and illustrations of the products.

Film Guide for Music Educators, by Donald J. Shetler, published in 1961 by the Music Educators National Conference, a Department of the National Education Association, 1201 16th St. N.W., Washington 6, D.C. (Price \$2.50), contains descriptions of more than 500 16mm sound films and television recordings, and also of about 100 35mm filmstrips, for all areas of music teaching. Each film is rated as to subject matter and suggestions are given for use at various instructional levels. Production and distribution sources are listed and information on current availability is given. In addition to film and filmstrip descriptions, both alphabetical and topical lists are included. The book also contains a selected Directory of 16mm film libraries. The 126-page book is excellently bound and printed. The Preface is by Allen P. Britton, President of the Music Educators National Conference.

The current **Colburn Newsletter**, second in a series issued by the Geo. W. Colburn Laboratory, Inc., 164 N. Wacker Drive,

Chicago 6, is a beautifully designed 4-page folder in color and black-and-white containing intriguing illustrations and explanatory text on the award-winning film *Faces and Fortunes*. This film was awarded first prize at the Second International Industrial Film Festival held at Turin, Italy. This film became the subject of the *Newsletter* by virtue of the laboratory services for this film having been performed by the Colburn Laboratory.

A 4-page illustrated folder giving a detailed description of the S.O.S. Sonocolor SCF2 magnetic film striping machine is available from S.O.S. Photo-Cine-Optics, Inc., 602 W. 52 St., New York 19. The machine is said to stripe film widths of 8mm, 16mm, or 35mm with full coat, single or multitrack.

New and revised sheets for Appendix D of the manual on *Production of Motion Pictures in Color Using Eastman Color Films* have been issued by Eastman Kodak Co., Motion Picture Film Dept., Rochester 4, N.Y. and holders of the manual are requested to add the new and revised sheets and destroy the sheets which have been superseded by the revisions.

A 4-page illustrated folder describing a new line of video-tape storage facilities is available from Neumade Products Corp., 250 W. 57 St., New York 19, N.Y. Prices and dimensions are included in the descriptions of storage cabinets and racks.

ISA Transactions is a new quarterly journal, the official publication of the Instrument Society of America. The periodical contains papers devoted exclusively to the literature of instrumentation, including data handling, computation, automatic control, measurement, and systems engineering. The Editor-in-Chief is Loren E. Bollinger of Ohio State University, the Managing Editor is Charles W. Covey, Instrument Society of America. The journal is printed and distributed by Plenum Press, Inc., a subsidiary of Consultants Bureau Enterprises, Inc., 227 W. 17 St., New York 11, N.Y. The first issue appeared in January, 1962. Annual subscriptions are available from Plenum Press at a rate of \$10 for ISA members and \$15 for nonmembers, except for foreign subscriptions which are \$20 annually.

BBC Television: A British Engineering Achievement is a 64-page paperbound booklet published in 1961 in commemoration of the 25th anniversary of the founding of the BBC. A publication of the British Broadcasting Corp., 35 Marylebone High St., London W.1, England (price: 3s 6d), it is profusely illustrated with photographs, diagrams and maps in black-and-white and color. The subject matter is well organized and presents a great deal of information in a condensed form. Titles of the four chapters are: I. How Television Works; II. The Early Years; III. The Post-War Years; and IV. Some Important Dates in the Development of BBC. This last chapter lists chronologically a few significant events in the development of BBC television. First item is the official opening of the service on

CF2



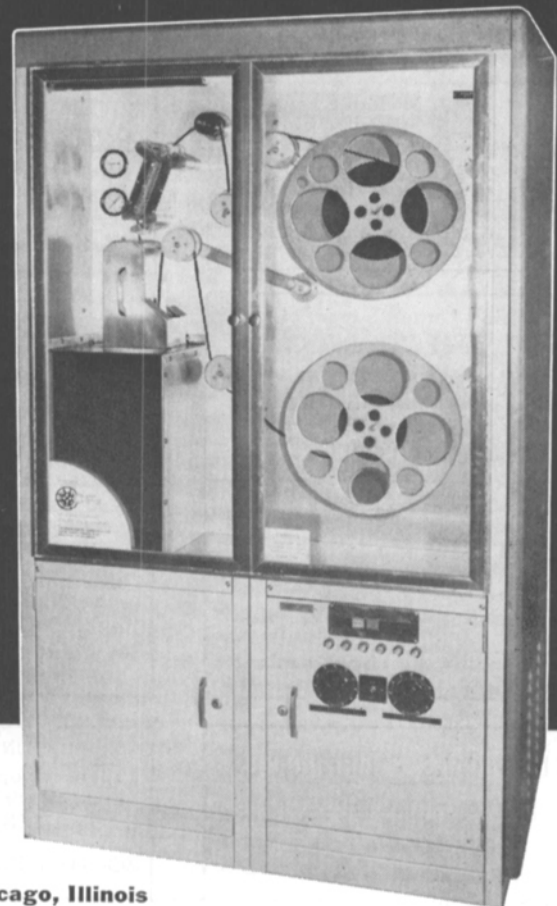
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November 2, 1936. Final listing is the first BBC demonstration of "live" color television during the National Radio Show, Aug. 22-Sept. 2, 1961.

The Engineering Index, Inc., United Engineering Center, 345 E. 47 St., New York 17, N.Y., publishers of the Engineering Index issued annually in June is accepting pre-publication orders for the 1961 Index. The Index, published in a limited edition, is priced at \$75. The 1960 edition of 1700 pages contained more than 34,000 annotations indexed under 249 Divisions of Engineering. Selections are from more than 3400 technical and engineering publications, received from some 50 countries in 20 languages, but printed in English in the Index. A catalog which describes each of the 249 Divisions of Engineering is available without charge.

Details of 14-track in-line or interleaved magnetic head assemblies are illustrated and described in Bulletin 3.1A available from the Recording Equipment Dept., Westrex Company division of Litton Systems, Inc., 335 N. Maple Drive, Beverly Hills, Calif. The three types of assembly are designated RA-1662, a 14-track in-line record head; RA-1663, an in-line reproduce head; and RA-1664, an assembly of two interleaved 7-track heads.

The S.O.S. Ediola 16mm Action Viewer, Sound Reader and Picture Editor combinations, and the S.O.S. Magniola for 16mm double-system editing are described and illustrated in a folder available from S.O.S. Photo-Cine-Optics, Inc., 602 W. 52 St., New York 19. The action viewer is designed to run originals as well as prints and is used for data recording, inspecting, editing and cutting.

A silicon stack transformer-rectifier that serves as power supply for two projection arc lamps is described in a brochure available from The Strong Electric Corp., 79 City Park Ave., Toledo 1, Ohio. The rectifier is available in three ratings, 60-85/60-85; 90-135/90-135; and 120-160/120-160 amp.

A new filter table for color photography under fluorescent and mercury light has been developed by the lighting Products Division of Sylvania Electric Products Inc. and is published in Bulletin 0-241, available upon request from Sylvania Commercial Engineering Dept., 60 Boston St., Salem, Mass. The Bulletin includes step by step instructions to photographers and is directed to amateur as well as professional photographers.

The Allied Electronics Data Handbook, 3d ed., edited by Nelson M. Cooke, has been revised and enlarged to include new data and up-dated listings. Published by Allied Radio Corp., 100 N. Western Ave., Chicago 80, the 80-page handbook is priced at 35 cents. New data in the revised edition includes basic transistor formulas and symbols, common emitter and amplifier circuit configurations and vacuum tube counterparts; a transistor radio and mer-

cury battery interchangeability guide; charts showing direct interchangeability between American and British tubes; the latest Greek alphabet designations; information on db gain and loss, and attenuator network formulas.

Bausch & Lomb Products, a 22-page illustrated index, lists the company's optical and electronic products under categories of consumer goods, scientific instruments, ophthalmic and space and defense products, giving the number of the catalog where a complete description of the product can be found. The index is available without charge by writing to Dept. F-46, Bausch & Lomb, Inc., Rochester 2, N.Y., specifying Catalog L-86.

The Movielab Guide to A and B Editing is an illustrated brochure that explains in simple language how to prepare and edit A and B rolls. A glossary of terms is included. The brochure is available upon request from Movielab Film Laboratories, Inc., Movielab Building, 619 W. 54 St., New York 19.

The Mechanism of Glass Polishing: A History and Bibliography, by D. C. Cornish, contains an introduction followed by a review of theories of glass polishing from the time of Robert Hooke to the present. The largest section of the book contains an extensive bibliography. A total of 279 references are given and abstracts of a number of papers. Originally prepared as a report for the British Scientific Instrument Association, it is now available as a paperbound, 70-page volume from the British Scientific Instrument Association, South Hill, Chislehurst, Kent, England, at a price of £2-10s (in the United Kingdom, £2-2s).

A New World of Broadcast Sound is a 16-page booklet published by the Electronic Industries Association, 1721 De Salles St., N.W., Washington 6, D.C. The illustrated booklet presents an explanation of multiplex stereo sound in FM radio broadcasting and how it affects receivers and listeners. The introduction by Newton N. Minow, Chairman of the Federal Communications Commission, commends the EIA for "calling the public's attention to the Commission's recent action on FM stereophonic broadcasting."

World Film Directory: Agencies Concerned With Educational, Scientific and Cultural Films is No. 35 in the series of Reports and Papers on Mass Communication published by Unesco. The Directory is priced at \$1.00 and may be obtained in the United States from Unesco Publications Center, 801 Third Ave., New York 22. The Directory gives a list of key addresses for each country or territory for government offices concerned with films, particularly educational films, and offices dealing with the industry on a policy level; agencies, organizations and societies concerned with educational and cultural films; trade associations, including associations of technicians and of producers. Each entry includes a short summary of the scope of activities of the agency or organization.



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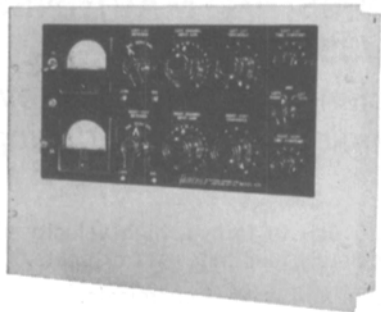


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- Sensitometry (Apparatus and Chemicals)
- Sound Recording and Reproduction
- Television

CAMERAS AND EQUIPMENT (Except High-Speed)

A Determination of the Angular Dimensions of Plane Mirror Shutters for Motion-Picture Cameras (in Russian), G. V. Mering, *Tekh. Kino i Televideniya*, 5: 45-49, Aug. 1961.

Some of the Scientific and Technical Work of the Lenfil'm Motion-Picture Studios (in Russian), I. N. Aleksander, *Tekh. Kino i Televideniya*, 5: 55-60, July 1961.

New equipment and methods worked out in the Lenfil'm Studios are reviewed.

Remote-Controlled Motion-Picture Camera, L. Skobennikov, *IUn. tekhn.*, 5: No. 1, 78, Jan. 1961. *MIRA* 14 (5).

Objectives for Cinematography on 16mm Motion-Picture Film (in Russian), F. F. Novik, *Tekh. Kino i Televideniya*, 5: 77-83, June 1961.

A number of foreign (i.e., non-Soviet) objectives for 16mm cameras are reviewed.

Using Only One Narrow-Film Camera and Projector for Making Panoramic Motion Pictures, *IUn. tekhn.*, 5: No. 1, 8, Jan. 1961. *MIRA* 14 (5).

Exposure Calculations in Cinematography (in Russian), F. S. Pyatnitskii,

semantics, linguistics, logic and information theory will also be within the editorial scope of the periodical. There are two annual subscription rates, Rate A at \$20 to libraries, universities, government agencies, and industrial organizations, etc., and Rate B at \$10 for individuals who order directly from the publisher and certify that the journal is for personal use only.

Tekh. Kino i Televideniya, 5: 71-75, July 1961.

The principles of the calculation of exposures from exposure-meter readings are outlined for the camera man, the amateur in particular.

The Depth of Focus of an Objective and the New Forms of Cinematography (in Russian), A. A. Lapouri, *Tekh. Kino i Televideniya*, 5: 10-20, July 1961.

A mathematical analysis is made of the concept of depth of focus under the particular conditions of cinematography. It is pointed out that the usual theory is correct only when a picture is viewed from a point corresponding to the center of perspective, and an evaluation of depth of field based on the hyperfocal distance is developed. The theory is extended to wide-screen, anamorphic systems and to wide-film systems of cinematography. Means of increasing the depth of field are discussed, including the Americal IR system and the Garutso objective, which offers four alternative channels, focused on different planes, through the single lens system.

An Experimental Study of the Natural Oscillations of a Motion-Picture Film (in Russian), P. Olendzki, *Tekh. Kino i Televideniya*, 5: 39-45, Aug. 1961.

Elasticities and internal damping coefficients were derived from natural oscillations, longitudinal and transverse, of a 16mm motion-picture film under tension, in lengths ranging from 206 to 900 mm. Damping is slow under these conditions but is much more rapid in the film gate of a camera. This effect is ascribed to friction. By dimensional analysis the damping coefficient is related to the other elastic properties of the film.

The Use of a Modified Yu-16 Lux-Meter in Cinematography (in Russian), B. A. Petrov and M. M. Shcheglov, *Tekh. Kino i Televideniya*, 5: 68-70, June 1961.

Of the home-produced and foreign exposure meters used in the USSR, none is considered completely suitable for the special purposes of cinematography. The Soviet-produced Yu-16 lux-meter is considered to be the most appropriate, and modifications are described to make it more suitable for cinematography.

Remote Control of Motion-Picture Cameras (in Russian), Ya. L. Butovskii, and L. J. Gol'shtein *Tekh. Kino i Televideniya*, 5: 30-38, Aug. 1961.

Basic requirements of a remote-control