

personalities, meetings calendar, etc. The coverage has also been extended beyond the confines of what may be regarded strictly as applied optics to include such related fields as electron optics, solid-state physics, ultraviolet, infrared, and microwaves.

We now have before us the first issue of the new magazine, attractively produced, containing 86 pages of text and 30 pages of advertising, representing a splendid accomplishment on the part of the Editor, John N. Howard, the Feature Editor of this issue, Bruce H. Billings, and the Managing Editor, Patricia R. Wakeling. Nine of the twelve feature articles deal with masers, which are at present a branch of solid-state physics, but which promise to have

very extensive practical applications in the near future. However, most of these articles could well have been published in the J.O.S.A., and we hope that their considerable depth and technical erudition will not discourage the more practical readers from subscribing to the magazine. There is also a valuable illustrated historical article on Sir George G. Stokes; it is hoped that this feature will be continued in subsequent issues.

Although the technical articles are arranged in a very clear and orderly way, each beginning on a righthand page and continuing through to its completion, the news items and other miscellaneous notes have been peppered into the magazine in a

most bewildering fashion, some starting in a convenient empty spot and ending up much later but some starting near the end and finishing near the beginning! The most amazing instance of this right-to-left procedure is the page "Of Optics and Opticists" which begins on page 85, continues on the opposite page 84, thence it moves back to page 54, to page 36, and it finally concludes on page 16! However, another section describing the various Corporation members of the Society starts on page 16, moves normally to page 32, and then ends up among the advertisements on pages A 18, A 21 etc. This may lead to some confusion when the owner tries to decide whether to keep or reject the advertising when he binds up his magazines at the end of the year.

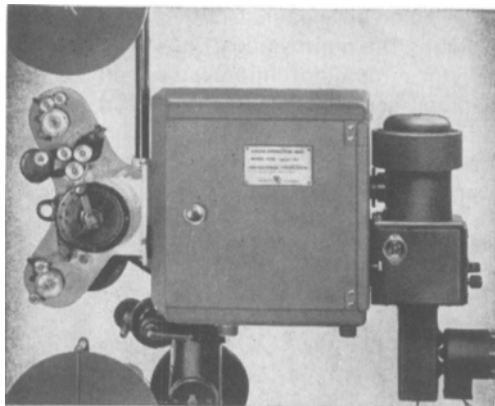
We hope that future issues will contain more miscellaneous material, shop notes, bibliographies, patent abstracts, and brief descriptions of new apparatus. We hope, too, that those working in applied optics will feel free to write short articles explaining new devices or procedures that they have found useful in their work. We are keenly looking forward to the March issue, and we wish the new venture many years of successful publication.—*Rudolf Kingslake*, Optical Design Dept., Hawk-Eye Works, Eastman Kodak Co., Rochester 4, N.Y.

## Books, Booklets, Brochures

**Military Standardization Handbook:** Glossary of Photographic Terms Army Technical Manual 11-411. Published 1961. 128 + iv pages (Foreword, Index of copyrighted material). Available from Superintendent of Documents, Government Printing Office, Washington 25, D.C. Price, 70 cents.

This 128-page glossary contains about 3500 definitions of photographic terms used in many types of professional and military photography, including photogrammetry, aerial photography and document reproduction as well as motion-picture photography. Definitions of terms range from brief (two or three-word) definitions; for example, "Base, chemistry — an alkali," to detailed explanations running to 200 words or more. Many terms are explained in detail, among them "Cant and Torque," "Complementary Colors," "Spectrum," "Squeegee," "Contrast," and "Edgewave or Flute," to mention but a few. This an excellent handbook and may well serve to instruct the beginner and to refresh the memories of more advanced photographers.

**The Audio-Visual Equipment Directory**, Eighth Edition, has been announced by the National Audio-Visual Association. Completely revised from the preceding (1961) issue, more than 1500 audio-visual products are described and illustrated. One innovation included in the 1962 *Directory* is a separate section on 8mm sound projectors which gives detailed descriptions of 16 different models presently available. Another change showing which way the wind is blowing in the audio-visual field is the big double section on language laboratory



## HIGH-SPEED additive color compensating head

SIZE 15" X 15" X 12"

Supplied to fit existing Bell & Howell continuous printer models D and E.

Price, \$8,500  
F.O.B. New Rochelle

USED BY:  
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### Continuous printing at 200 ft. a minute

This compact high-speed unit uses a single light source. The lamphouse is designed for a 1000 Watt T-12 bulb, has quartz optics, focusing mount and blower. Adjustments are easily made in darkness simply by adjusting three knobs which provide for vertical, transverse and rotational motion of the bulb.

Three electro-mechanically operated light valves provide color changes in 5 milli-seconds. Each light valve is controlled by 5 small solenoids to provide 32 printer steps of 0.25 or 0.30 Log E. Light valve opening may be adjusted to compensate for color stock changes without altering the 32-step arrangement.

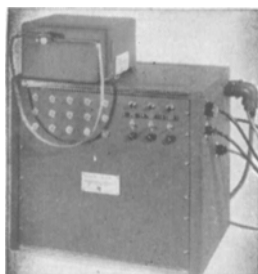
The utmost light efficiency is obtained by the use of 6 interference-type multi-layer, all dielectric beam splitters, and by the elimination of absorbing trimming filters. The heat absorbing glass is eliminated and a cold mirror, of the interference type, is used instead. All of the interference beam splitters are cemented and therefore permit easy cleaning without risk of damage.

Separation of color bands is accomplished without overlap and with very little loss of light.

### AVAILABLE ACCESSORIES

**3-Channel Memory Unit with Reader** for automatic operation of light valves, reading in succession—blue, green, red, and storing the introduced information. For easy servicing, commercially available punched tape reader is used as a base. \$3,200.00 f.o.b. New Rochelle.

**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 duplicate tapes automatically and will permit corrections of the tapes and continue with the accepted information. \$2,300.00 f.o.b. New Rochelle.



Memory Unit with Reader



Keyboard and Punch

Write for further information

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

systems. The section is divided into two parts, Fixed Installations, and Mobile-Portable Equipment because of the increase in the number of units available in the latter a-c category. The Directory contains 333 pages and more than 850 photographs of equipment plus a listing (pp. i-vi) entitled "Where To Buy It." The Directory is priced at \$5.00 and is available from National Audio-Visual Association, 1201 Spring St., Fairfax, Va.

**BBC Handbook 1962.** Published (1962) British Broadcasting Corp., Broadcasting House, London W1, England, contains 254 pp. A chronological outline of BBC activities is included. (Surprisingly, the BBC is only 25 years old. It seems, somehow to have been in existence for a couple of centuries, at least.) Also included are BBC charters; Bibliography; Index; and Contents. The book is profusely illustrated with photographs, drawings, diagrams and tables. It is paperbound ( 4¼ by 7¼ in.) and priced at 6s.

This is a compact, fact-filled, informative little book, sure to be welcomed as a reference book by students, writers and researchers. It is also "easy reading" and well worth some attention as leisure-time reading. The contents are grouped under six main headings or sections; Television, Sound Broadcasting, Programmes and Public, External Services, Engineering, and References. The last section contains all sorts of information including instructions on submission of scripts and scores, how to get tickets, rules for SOS, a list of BBC publications, an organizational chart, tables showing income and expenditures, and other items of general interest. The section on Engineering describes briefly research and development activities and presents statistics on transmitting stations and studios.

Thousands of sound effects recordings are now available from Florman & Babb, Inc., 68 W. 45 St., New York 36, as the result of an arrangement by which the entire stock of one sound effects library has been purchased and recordings of other sound effects libraries including EMI, Standard, Speedy-Q and Gennett, are distributed by the New York firm. Sound recordings include all types of vehicle motors, airplanes, cars, trains, crowds, industrial and street sounds, guns, animals, birds and also incidental and background music. The firm is presently preparing a complete catalog which will be available upon request.

Publication of four Russian technical journals in complete English translations under a grant-in-aid from the National Science Foundation has been announced by the Foreign Translations Dept., Instrument Society of America, Penn Sheraton Hotel, 530 Wm. Penn Place, Pittsburgh 19, Pa. English titles of the Russian periodicals are *Automation and Remote Control*, *Measurement Techniques* and *Industrial Laboratory*, published monthly; and one bimonthly publication, *Instruments and Experiment Techniques*. Annual subscription rates range from about \$25 to \$35.

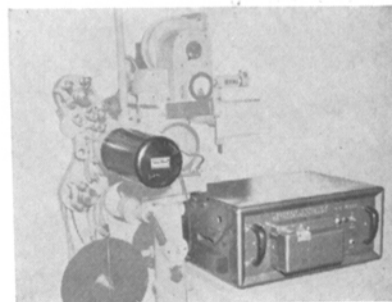
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The World List of Film Periodicals (2d ed.), published by Jacques Ledoux, Palais des Beaux-Arts, Brussels, Belgium, lists 786 film periodicals in both French and English. Publications from 57 countries are listed and indexed as to title, country and subject.

The Educational Film Library Association, 250 W. 57 St., New York 19, has announced publication of an 8-page booklet on *Films and Filmstrips for the Space Age*. More than 100 16mm films and 35mm filmstrips are listed, dealing with various aspects of space exploration. The booklet is available from the EFLA at a price (nonmembers) of 50 cents.

Studio buildings for educational television and cost factors involved in the production and recording of instructional television programs are discussed in RCA ETV Information Bulletins Nos. 1-J-1 and 1-K-1. Information on ETV studios (Bulletin 1-J-1) is based on a report by A. R. McMaster, Chief Engineer, Davidson County Educational Television Association, Nashville, Tenn., on facilities existing in 35 ETV stations. A questionnaire prepared by Mr. McMaster asked for specific information on existing facilities and for suggestions and recommendations. It was found that buildings constructed specifically to house ETV studios range in size from 2400 sq ft to 15,400 sq ft. All of

the 35 stations reported a shortage of storage space. The bulletin on cost factors (1-K-1) is planned as a general guide for educators who have not had experience in television production. Both bulletins are available upon request from John W. Wentworth, Manager, Educational Electronics, Broadcast and Television Division, Radio Corp. of America, Camden, N.J.

A Bibliography of Magnetic Tape Recording has been compiled by Kinelologic Corp., 1256 North Fair Oaks Ave., Pasadena, Calif. References are to papers and reports published during the years 1954 through 1960. The bibliography contains more than 400 references to papers published in approximately 60 scientific journals, Department of Defense reports, and reports from industrial firms. Some 30 references are to papers in the *Journal*. A list of full names and addresses of journals in the references is included. The bibliography is priced at \$1.00 and is available from Kinelologic Corp.

The Traid TKB-3A Fotodata 16mm camera is illustrated and described in a 4-page brochure available upon request from Traid Corp., Box 648, 17136 Ventura Blvd., Encino, Calif. Illustrations include a diagram of the camera and photographs taken on a Redstone rocket at an altitude of approximately 250,000 ft.

The Mole-Richardson Catalog J, latest catalog of Mole-Richardson Co., 937 North Sycamore Ave., Hollywood 38, contains illustrations, descriptions and prices of the firm's products including several new items. The new catalog also lists and briefly describes more than 100 books on photography.

Special Effects Without Mattes, reprinted from the November 1960 issue of *American Cinematographer*, is available upon request from Animation Equipment Corp., 38 Hudson St., New Rochelle, N.Y. The article, reprinted as a 4-page folder is illustrated and discusses in detail the use of aerial image projection to combine live action and animation.

Services offered by Lab-TV, 723 Seventh Ave., New York 19, are listed in a brochure together with the price of each service. The firm specializes in developing 16mm reversal film in black-and-white or color. Other services include work prints, color-to-color prints, fades-dissolves, timed prints, edge numbering, etc. The brochure is available upon request.

The Zoomar Mark IV and Mark VI ITV lenses are described in a 4-page folder of instructions available upon request from Zoomar, Inc., Glen Cove, L.I., N.Y. The illustrated folder also describes the newly announced 2-in-1 Zoomar tracking system including the Zoomar 40-in. Reflector lens, the Zoomar-Trulex Automatic Exposure Control and 35mm pulse camera, and a vidicon TV camera with monitor. The tracking system is priced at \$15,585.



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Gaffer Tape, 12-yard roll . . . **\$1.95**

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