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series, whose high standards have consistently contributed to a wider understanding and appreciation of the mass media of information.—George L. George, Administrator, Trust Fund of the Screen Directors International Guild, 250 W. 57th St., New York, N. Y. 10019

Professional Photography in America

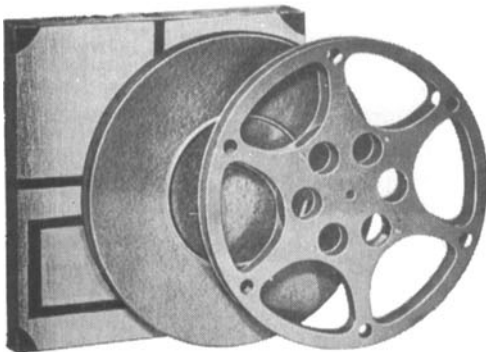
Oscar Katov, ed. Published (1966) by Professional Photographers of America, Inc., 1090 Executive Way, Oak Leaf Commons, Des Plaines, Ill. 60018. 124 pp., incl. 32 color plates and 71 black-and-white photographs, plus 19 advertisements. 8½ by 11 in. Hard cover in sleeve, \$7.95; paper bound, \$4.95.

For motion-picture and television engineers and their professional interests there is in this publication little of specific interest or instruction. It does give some highlights of general interest and provides pleasure in coursing over the various chapters: A Conversation With Edward Steichen, Down the Years With the Professional Photographers of America, by Beaumont Newhall; 50 Years of Portrait Photography, by Bradford Bachrach; Photography in the Fine Arts, by Ivan Dmitri; Karsh on Portraiture, by Yousuf Karsh; New Photography, from *Life Magazine*; Photographing Professionally in Color, by William Reedy; and The New National Headquarters and Photography Hall of Fame.

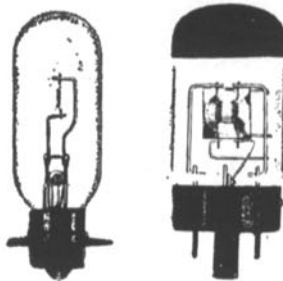
The printing by lithography is of interest, especially the success with a full range of color photographs. The history and descriptions of the Professional Photographers of America and of the Photography Hall of Fame will interest the organization-minded; 19 pp. of advertisements complete the volume.—*Edit.*

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BOOKS
BOOKLETS AND BROCHURES

The publications listed below are available from Clearinghouse, U.S. Department of Commerce, Springfield, Va. 22151.

AD-636 414, *Design Problems in Visual Displays, Pt. I. Classical Factors in the Legibility of Numerals and Capital Letters*, D. A. Shurtleff. 114 pp. Price \$4.00 (microfiche 75 cents). Discusses the effect of classical factors upon the legibility of numbers and capital letters, such as symbol geometry, brightness and contrast.

AD-640 571, *Design Problems in Visual Displays, Pt. II. Factors in the Legibility of Televised Displays*, D. A. Shurtleff. 72 pp. Price \$3.00 (microfiche 75 cents). Evaluates the literature on legibility of numerals, capital letters, and words on television displays, dating from the late 1940s to the present. Makes recommendation for display design and applications.

AD-636 441, *Modules (Integrated Circuits) for Communications*. Price \$2.00 (microfiche 50 cents). Evaluation of the final assembly demonstrated positive improvements in these criteria over the conventional design.

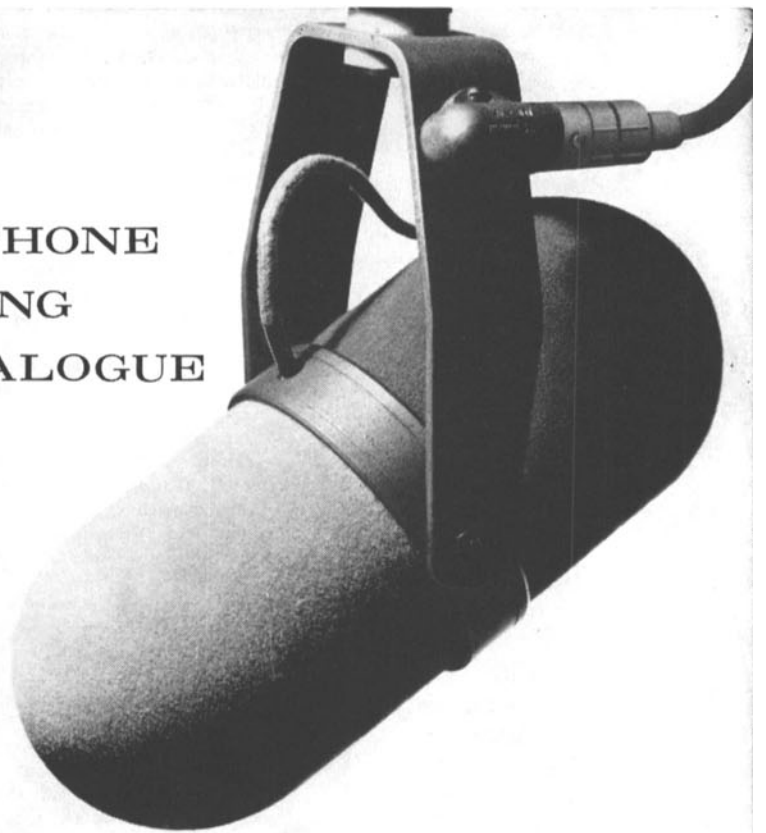
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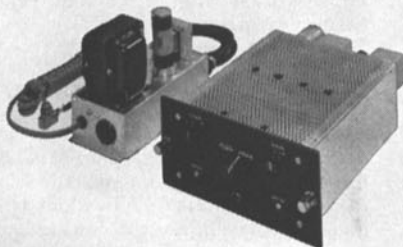
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For additional information, write directly to Mr. Robert Carr, Manager of Professional Products Division, Shure Brothers, Inc., 222 Hartrey Ave., Evanston, Illinois.

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AD-636 538, *A Survey of Available Information Relative to Achieving Ultimate Antenna Bandwidths*, G. V. Borgiotti. Price \$4.00 (microfiche 75 cents). Long-term research objective is to find promising techniques that will lead to ultimate operating bandwidths for any given class of antennas.

N66-19756, *An Ultra-Low-Noise 1700-Mc Parametric Amplifier System*, P. H. Dalle Mura. 21 pp. Price \$1.00 (microfiche 50 cents). A completely field-operational ultra-low-noise parametric amplifier advances the state-of-the-art by achieving, at room temperatures and above, noise temperatures previously attainable only by lowering the varactor temperature significantly below room temperatures.

AD-637 589, *Method of Determining Safe Distances From RF Transmitters*, W. L. Strickland and D. R. Dreitzler. 15 pp. Price \$1.00 (microfiche 50 cents). Report concerned with the determination of the electric field strength E at a distance D from Antenna of Gain G transmitting with a power P.

AD-638 602, *Electromagnetic Wave Propagation and the Upper Atmosphere*, G. Steblez, 72 pp. Price \$3.00 (microfiche 75 cents). A compilation of 67 abstracts based on Soviet sources published in 1965-1966.

NBS TN-339, *Observed Phase-Front Distortion in Simulated Earth-to-Space Microwave Transmission*, H. B. Janes and M. C. Thompson, Jr. 100 pp. Price 50 cents (microfiche 75 cents). Discusses experimental study made of the time and space statistics of the phase-front distortion of microwave signals sent from a ground terminal to an elevated terminal.

UCRL-16632, *"Do-It-Yourself" Lock-In Amplifiers, Radio and Audio Frequency*, K. W. Lamers, 70 pp. Price \$3.00 (microfiche 75 cents). Two lock-in amplifiers developed, one designed for 2.7-MHz radio frequency and the other for audio. Basically, a lock-in amplifier does much the same things as a tuned amplifier, but does them better.

N66-19035, *Comparison of Phase-Coherent and Non-Phase-Coherent Coded Communications*, J. P. Strong II and T. V. Saliga. 28 pp. Price \$2.00 (microfiche 50 cents). Describes the theoretical word-error probability vs. signal-to-noise ratio which is evaluated for five communications systems. Analyses show that the coded systems are near equal in performance for large numbers of bits per code word and all offer significant signal-to-noise gains over the uncoded system.

AD-638 034, *Optimization and Synthesis of Antenna Arrays*, S. L. Shih. 173 pp. Price \$5.00 (microfiche \$1.00). Describes a new method developed by General Electric by which the phase shifts of the elements required for the minimum sidelobe level are determined in one step for the reduction of the sidelobes.

PB-173 314, *Standard for Descriptive Cataloging of Government Scientific and Technical Reports, Revision No. 1, October 1966*, 54 pp. Price \$1.00 (microfiche 50 cents). The standard sets forth rules governing the form of the essential descriptive cataloging elements such as accession number, corporate author, title, descriptive note, personal author, data and pagination. It covers contract number, report number availability, supplementary note, and security classification.

AD-640 406, *Studies in Speech Analysis and*

Synthesis, G. E. Peterson. 51 pp., Price \$3.00 (microfiche 50 cents). Contains an introduction to speech automation and summaries of journal articles and technical reports.

AD-638 683, *Development of a Reading Machine for the Blind*, G. C. Smith and H. A. Mauch. 56 pp. Price \$3.00 (microfiche 50 cents). Describes the progress made over the past nine years in the development of a personal reading machine for the blind. The character recognition technique recognizes nine of the most popular type styles which make up about 75% of the printed and typewritten material used in the United States. The technique is 90 to 95% accurate and recognizes 80 to 90 words a minute.

AD-640 647, *On-Line Interactive Displays in Application to Linguistic Analysis and Information Processing and Retrieval*, R. F. Simmons. 22 pp. Price \$1.00 (microfiche 50 cents). Describes two systems for increasingly complex operations, such as retrieving documents and analyzing sentences.

AD-640 801, *The Effect of Context on Recall and Recognition of Long Verbal Series*, W. H. Sumby, 22 pp. Price \$1.00 (microfiche 50 cents). Investigates the effects of context on the recall and recognition of words in that context under a variety of constraints.

The 1967 edition of Telonics Engineering Catalog C-101, covering RF and microwave filters and instruments, is available from the Marketing Dept., Telonic Engineering Co., P.O. Box 277, Laguna Beach, Calif. 92652. In addition to descriptions and specifications, the catalog contains a set of curves, nomographs and outline drawings to enable identification of performance and mechanical parameters of any specified filter. Performance curves include data for calculating insertion loss and attenuation of bandpass and low-pass filters in tubular, cavity and interdigital configurations. Length curves and 60 outline drawings of various connector types permit evaluation of the mechanical size of any particular filter. A synopsis of most of the filter performance data is also presented in a convenient slide rule pocketed in the back cover of the catalog.

8 ITV Systems, a 24-page brochure describing the use of 2,500-MHz instructional television networks in eight school systems, is available from Micro-Link/Varian, 19 Wartburg Ave., Copiague, N.Y. 11726. The brochure is illustrated by humorous drawings. The brochure reports on districts ranging in size from smaller suburbs to the Roman Catholic Diocese of Brooklyn, and on those offering televised curricula from elementary levels to the University of California's San Francisco Medical Center.

The Audio-Visual Trade Directory contains a geographical listing of 560 audio-visual dealers which includes names, addresses and telephone numbers. It also lists alphabetically manufacturers, producers and trade publications in the audio-visual field. The directory is available upon request from National Audio-Visual

Troubled by out-of-focus pictures?

Troubled by emulsion

pile-up in your camera gate?

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noise when shooting subjects who should not be distracted from what they are doing?

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All Auricon Equipment is sold with a 30-day money back Guarantee and a 1 year Service Warranty. You must be satisfied!

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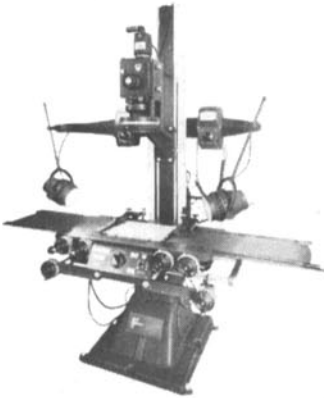
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A Guide to Projection Screen Selection is a booklet intended for use as a guide in the selection of projection screens for any application. Information is given on room illumination, audience size and spread for best viewing results. Included are charts and diagrams explaining the proper installation of projection screens. Both front-and rear-projection systems are covered. The booklet is available upon request from Universal Screen Co., 7251 N. Varna Ave., North Hollywood, Calif. 91605.

Polarity Tester EMT 160, by Reinhard Platz, which appeared in Vol. 20, 1965, issue of *Funkschau*, has been reprinted by Gotham Audio Corp., 2 W. 46 St., New York, N.Y. 10036, and is available upon request. The illustrated article describes the circuit and constructional details of the polarity tester and gives technical specifications.

The Universal Audio 1108 Solid-State Amplifier is illustrated and described in Bulletin SE-08, a leaflet available from Universal Audio Div., Studio Electronics Corp., 11922 Valerio St., North Hollywood, Calif. The amplifier is said to be the first to use a field-effect transistor in the first stage to achieve an extremely low noise figure.

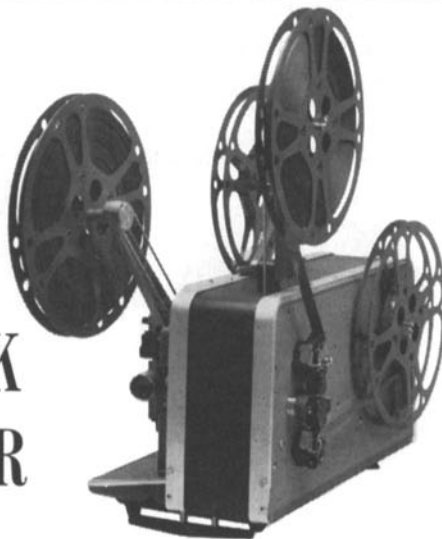
Sprockets for perforated tapes, films and charts are illustrated and described in Brochure S-58 which is available from La Vezzi Machine Works, 4635 West Lake St., Chicago, Ill. 60644. The 12-page brochure gives data on features of design and construction, such as forms of sprocket teeth, their spacing, concentricity and finish required for proper design and efficient operation in devices handling, controlling or actuated by perforated tapes, films or charts.

The PEK X-500 high-pressure arc lamp is illustrated and described in Data Sheet 2020, available from PEK, 825 East Evelyn Ave., Sunnyvale, Calif. The lamp is designed for use in such areas as projection systems, solar simulation, searchlight and beacon operation and scientific instrumentation.

Catalog sheet No. 2058, which describes and illustrates the Ultrabright illumination system is available from Spindler & Sauppe Inc., 1329 Grand Central Ave., Glendale, Calif. 91201. The system, said to be capable of projecting 3,000 lm, is designed for use with the company's SL Selectroslide slide projectors and speed dissolve system.

The Macbeth densitometers and transparency viewers are described and illustrated in a 4-page illustrated folder, available from Macbeth Instrument Corp., Box 950, Newburgh, N.Y. 12550. Included is an application table that shows where various densitometers of both types, transmission and reflection, may be used.

THE PALMER INTERLOCK PROJECTOR



An easily operated, portable projector for running picture and separate magnetic sound track during synchronizing, editing and previewing stages of motion picture production.

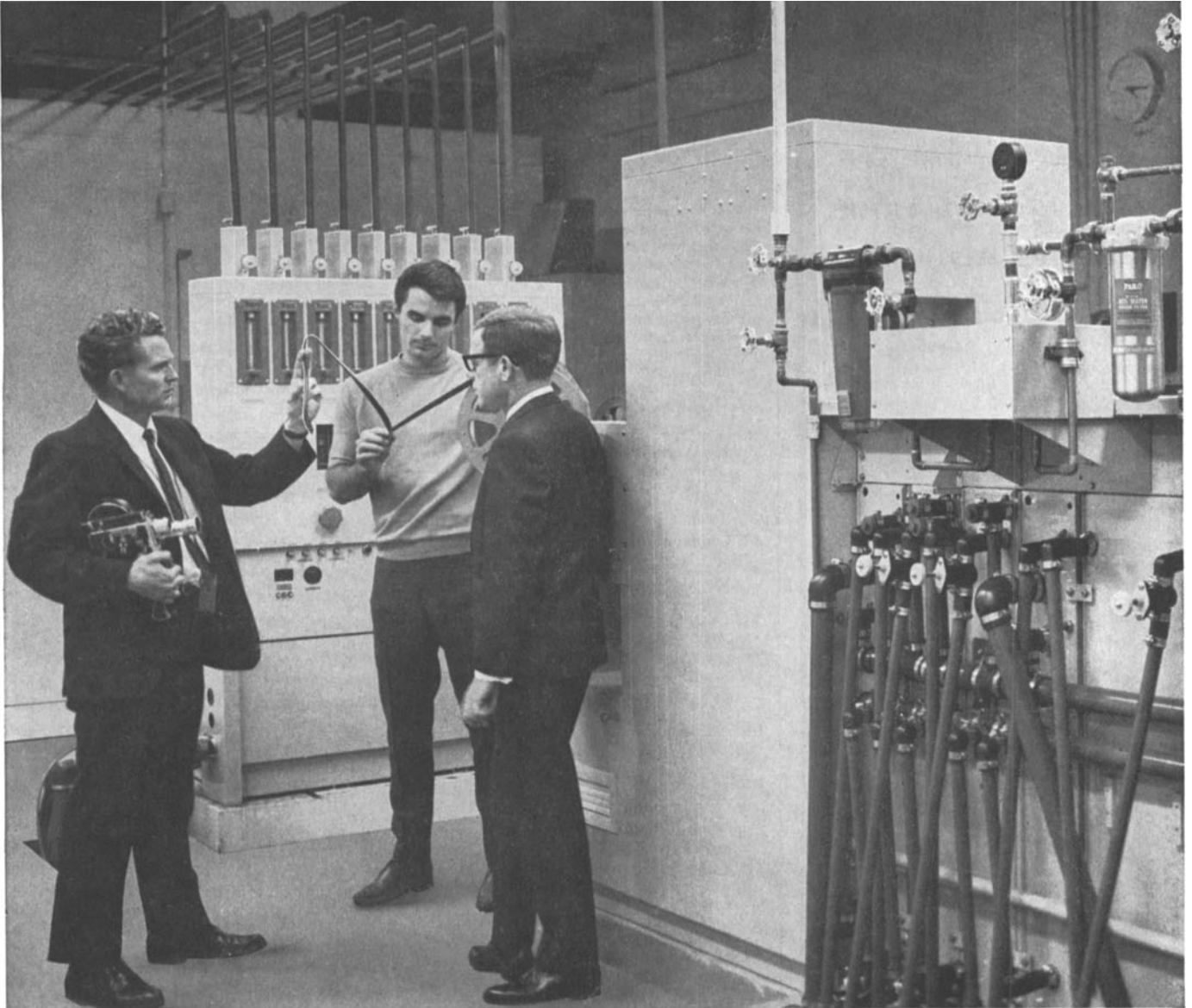
An optional record amplifier can be added to make the Palmer Interlock a double-system recorder.

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"The machine is great - and the service has really sold us!"

"We evaluated many color processors," said Bill McPhie, Film Director at KABC-TV, Hollywood, "and the Pako Model 56 EK seemed to meet the requirements of our station. We process color news film for our own station and Vietnam footage for the ABC network. Reliable processing and consistent results are essential to us, but the people and the service really finalized our position."

"The people from Pako and our Pako distributor, Royce Photo Supply, Los Angeles, helped us plan the installation and supervised it—and had us operating just nine days after the processor was delivered!"

McPhie added that training was an important factor. "Two

of our operating personnel attended a session at Pako and the remainder were trained here." McPhie cited the local Distributor's parts inventory and factory-trained people as another important consideration.

Pako Ciné Processors offer modular construction which eases installation and makes them adaptable to future process changes. Models are available for Kodachrome, Ektachrome, Anscochrome, Eastman Color, Kodacolor, Black & White and other films and processes.

For specific information contact your Pako Distributor, or write Pako Corporation, 6300 Olson Memorial Highway, Minneapolis, Minnesota 55440.

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