

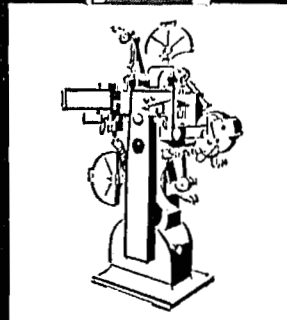
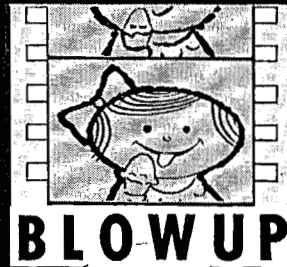
ANDRÉ DEBRIE
TIPRO RA
 OPTICAL PRINTER



CONTACT 16

DOES ALL 4

CONTACT 35



Fine print quality — the result of careful engineering and precision manufacturing — is a traditional hallmark of André Debrie film printing equipment. Such quality has its ultimate payoff in your customer's satisfaction with your production.

Of the many ingenious Andre Debrie motion picture printers made, perhaps the most versatile is the TIPRO RA (*Reduction and Aggrandissement* or blowup) Optical Printer.

Four modes of operation are available in a single machine — REDUCTION from 35mm original to 16mm print . . . BLOWUP from 16mm original to 35mm print . . . CONTACT 16 . . . and CONTACT 35.

Designed for the finest quality black and white printing, the TIPRO RA may be equipped with light changes by resistance actuated by notches in the original film or by pilot band. Register pins on both channels guarantee the ultimate in picture steadiness which is especially important for making quality dupe negatives.

Only the most versatile line of film printing equipment, André Debrie printers are made to fit your specific needs, black and white or color, dry or damp-processed strips or multiple strands, contact or optical — there are some of the many options available which include various printing accessories, frame grabbers and several methods of light changes. Regardless of the options you select, quality is assured by means of "stop and shoot" or "grab" method of printing.

Whether you require motion picture film equipment for any business and no matter how busy you are, we can fulfill a variety of needs, economically, than you can obtain from any other film equipment. Whether you require additional equipment, you need to purchase or lease, and want the highest quality film, we will be able to supply all transportation and requests.



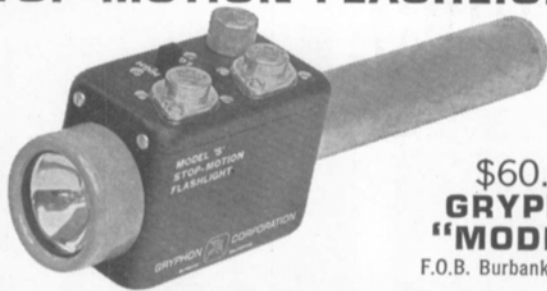
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STOP-MOTION FLASHLIGHT



\$60.00
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"MODEL S"**

F.O.B. Burbank, California

FOR DARKROOM MAINTENANCE AND INSPECTION USE

The GRYPHON "Model S" Stop-Motion Flashlight is a battery powered stroboscopic instrument designed for maintenance and inspection use in film processing darkrooms and other areas of subdued lighting.

The operation of mechanical power trains and components of film processing equipment can be examined in detail by viewing in stop-motion or slow motion with equipment operating. Any speed variations, fluctuations or uneven motion will instantly be apparent.

Low intensity red-orange light flashes permit the "Model S" to be used in darkrooms without interrupting production on nearby machines.

Following are some recommended uses:

Checking motion picture film printers for steadiness of motion.

Inspecting the film transport on processing machines.

Examining the intermittent movement of cameras and printers.

Speed adjustments can be made accurately by reference to a known standard.

Inspecting sound recording and reproducing equipment.

FEATURES

Fully transistorized . . . Compact-Portable
. . . Dual Strobe Range . . . Safelight
Feature . . . Long battery and bulb life.

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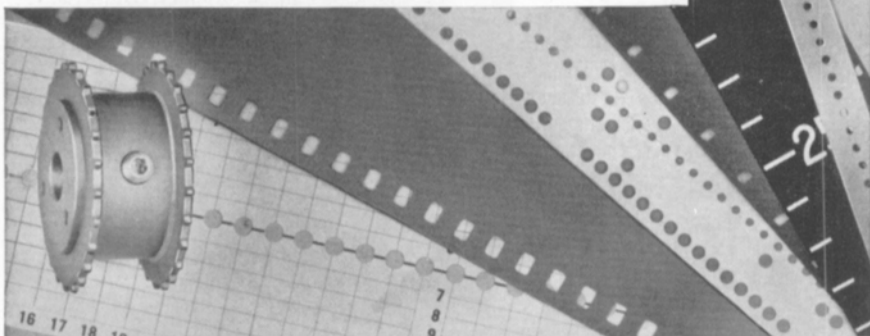
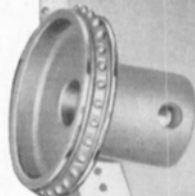
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operation with the U.S. Office of Education. Findings of the survey are presented in a 46-page report. Project Director was Vernon Bronson and Associate Director was James Fellows. Mr. Bronson is Director and Mr. Fellows is Assistant Director of the Office of Research and Development, NAEB. The report concludes that, "The need to develop a professionally effective curriculum for television specialists and television users is intimately related to the urgent need for revision of teacher education curricula and communication media curricula."

Instructional Television at the University of Akron, published in the June 1963 issue of *Broadcast News*, has been reprinted as a 12-page illustrated brochure and is available from L. V. Hollweck, Editor, RCA Educational TV News, Broadcast Marketing Dept., RCA Educational Electronics, Camden 2, N.J. Authors K. F. Sibla and W. Mavrides present a detailed description of the University's television system and how it works as an educational medium. Mr. Sibla is Head of the Department of Electrical Engineering and Mr. Mavrides is Director of Television of the University of Akron.

Readings in Public Communications: A Bibliography for Candidates for the Master of Science Degree in Television and Radio has been compiled and edited by A. W. Blum. It is available upon request from Syracuse University, TV-Radio Center, Syracuse, N.Y. The bibliography is intended to "draw upon the literature, arising out of many disciplines, which bears upon the nature of man in a society of which public communications are an important aspect."

Instructional Television Materials: A Guide to Films, Kinescopes and Videotapes Available for Televised Use, 3rd Ed., has been announced by Northeastern Regional Instructional Television Library, Eastern Educational Network, 238 Main St., Cambridge 42, Mass. The guide lists 324 courses available from distributors. Although some are appropriate for more than one educational level, 157 are intended for elementary use, 62 for secondary, 52 for college, 43 for adult education, and 10 for in-service education. Four courses are distributed by Instructional Television Libraries: *Accent on Music*, *Exploring Nature*, *Patterns in Mathematics*, and *Primary Concepts in Science*.

The British National Film Catalog, published by British National Film Catalog Ltd., 55a Welbeck St., London, W.1, England, is issued six times a year. British film productions, including educational, scientific, cultural, industrial, and entertainment films, are listed together with brief synopses and credits. The subscription price of \$17.64 includes, in addition to the six bi-monthly issues, an annual cumulative volume.

The Educational Film Library Association, 250 W. 57 St., New York, N.Y. 10019, has announced the availability of the five booklets listing all productions nominated

for screening at its American Film Festival in the years 1959-63 bound together in a special binder for convenience as a reference unit. The unit is priced at \$5.00. Included in each listing is basic information about the film or filmstrip, a brief description of its content, and the name and address of the source from which it may be purchased, rented, or borrowed.

More than 2,000 government films are listed and described in catalogs available from Norwood Films, 926 New Jersey Ave., N.W., Washington 1, D.C. Currently available are the 1962-63 General Catalog, together with supplements issued April, 1963, and September, 1963. Also available is a 1962-63 catalog of films on medicine and allied sciences for professional use. All of the films are for sale, although some of them can be sold only to authorized groups. The firm also maintains a list of films available for rental.

The 1964 Educational Filmstrip Catalog published by the Society for Visual Education, Inc., 1345 Diversey Parkway, Chicago, Ill. 60614, is available to teachers and administrators without charge. The catalog lists more than 1,600 filmstrips, including about 100 new titles, and also lists other instructional material and audio-visual aids. Subject material covers all grade levels, from primary through high-school. Most of the filmstrips are in color and many have narrations on accompanying records. SVE is a subsidiary of General Precision Equipment Corp.

A 22-page illustrated booklet describing the company's organization and activities is available from Cinerama Camera Corp., 11930 W. Olympic Blvd., Los Angeles 64. Among other activities, the firm, a subsidiary of Cinerama, Inc., is engaged in research and development in the field of advanced photoinstrumentation for industry and space exploration.

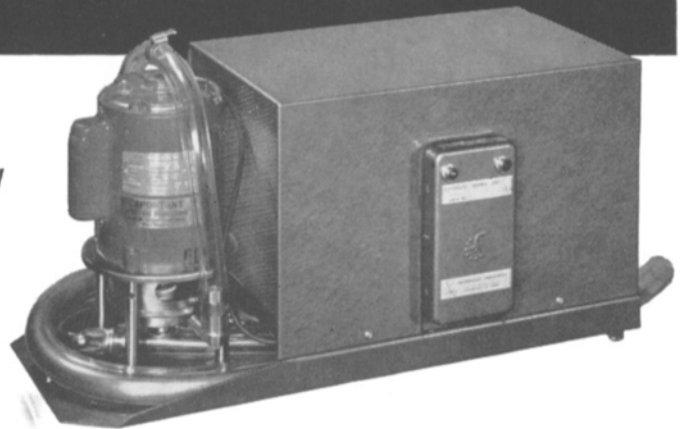
The Videotape Minicruiser, a mobile television studio contained in a Studebaker station wagon, is illustrated and described in a four-page brochure available from Ampex Corp., Mail Stop 6-1, 401 Broadway, Redwood City, Calif. Features of the Minicruiser are described along with its key component, the VR-660 broadcast Videotape television recorder.

Quartz iodine lamps for professional use, operating directly from 120-v, a-c or d-c are illustrated and described in a catalog available from ColorTran Industries, 630 S. Flower St., Burbank, Calif. In addition to a full listing of the firm's quartz iodine lamps, the catalog also contains information on MiniDyne and ColorDyne electronic lighting control systems.

The Winston Automatic Gain Control Amplifier is illustrated and described in a four-page brochure available from Fairchild Winston Research Corp., 6711 South Sepulveda Blvd., Los Angeles 45. The unit, which is designed to work with TV, facsimile, audio, sinusoidal, or pulse type data, is thoroughly explained with block diagrams, frequency response curve

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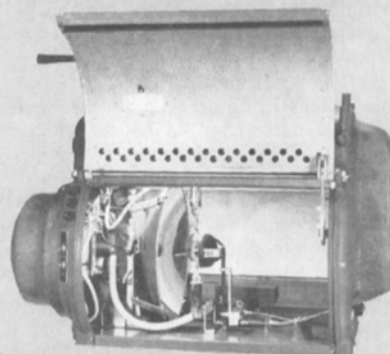
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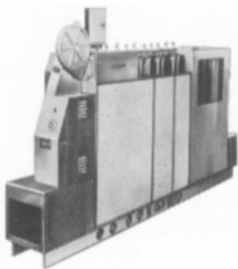
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charts, and charts covering its compression characteristics.

The use of linear ball bearings to overcome frictional and other problems, thus increasing the accuracy of manual and numerically controlled machine tools, is described in detail in a 6-page technical report available from Thomson Industries, Inc., Manhasset, L.I., N.Y. The report, by H. R. Havemeyer, is reprinted from the May, 1963, issue of the *Tool and Manufacturing Engineer*.

The EMT 140 Reverberation Unit is illustrated and described in an 8-page brochure available from Gotham Audio Corp., 2 W. 46 St., New York, N.Y. 10036. The unit is a device for creating artificial reverberation. Besides reproducing acoustically rooms of various sizes it is said to have the ability to increase the apparent distance between sound source and microphone.

The B&K Sound Level Meter, Model 2203, and Octave Band Filter Set, Model 1613, are described in a 12-page illustrated brochure available from B&K Instruments, Inc., 3044 W. 106 St., Cleveland 11, Ohio. In combination, the instruments are used for sound, noise or vibration measurements and analysis, such as traffic and industrial noise, noise in buildings, sound distribution in theaters, product noise investigations, and noise law enforcement.

Processing and printing units are described in leaflets available from Uhler Cine Machine Co., 15762 Wyoming Ave., Detroit 38. Illustrated and described are various equipments including a combination continuous printer for 16mm film, a printer (professional combination 16mm and 8mm contact); a 35-16mm optical reduction and enlarging printer; optical printer (16 to 8mm and 8 to 16mm); cine printer (color or black-and-white); and processing units, 16 and 8mm, for sound or silent films.

The General Radio Experimentor, published by the General Radio Co., West Concord, Mass, in the September/October 1963 issue describes a new sound and vibration analyzer (Type 1564-A) designed primarily for the frequency analysis of acoustic spectra having components in the frequency range between 2.5 cps and 25 kc. Copies are available upon request from the film.

Computers in Control is an 8-page brochure available from Manager, Marketing Services, TRW Computer Division, Industrial Computers, 8433 Fallbrook Ave., Canoga Park, Calif. Applications of TRW industrial control computers are described. The computers are used in various areas of industry, including chemical, electric power, television, missiles and others.

The Hycam 16mm high-speed camera, Model K1001, is illustrated and described in a four-page folder available from Red Lake Laboratories, 2971 Corvin Dr., Santa Clara 2, Calif. The camera is said

to be capable of a speed of 10 to 8,500 pictures/sec. An earlier Hycam is illustrated and described in the November, 1962, issue of the *Journal* (p. 896).

A 148-page illustrated catalogue (No. 663-A) available from Burke & James, Inc., 321 S. Wabash Ave., Chicago, Ill. 60604, lists more than 10,000 items of photographic and instrumentation equipment. Illustrated and described are such equipments as professional cameras, enlargers, laboratory equipment, lenses, laboratory cameras, thin-film optics, process cameras, apochromatic lenses, vacuum printing equipment, and a wide variety of related equipment.

Camera drives and projection equipments are among the items described in a bulletin available from Lafayette Instrument Co., P.O. Box 57, Lafayette, Ind. Also described are time, memo and animation equipments.

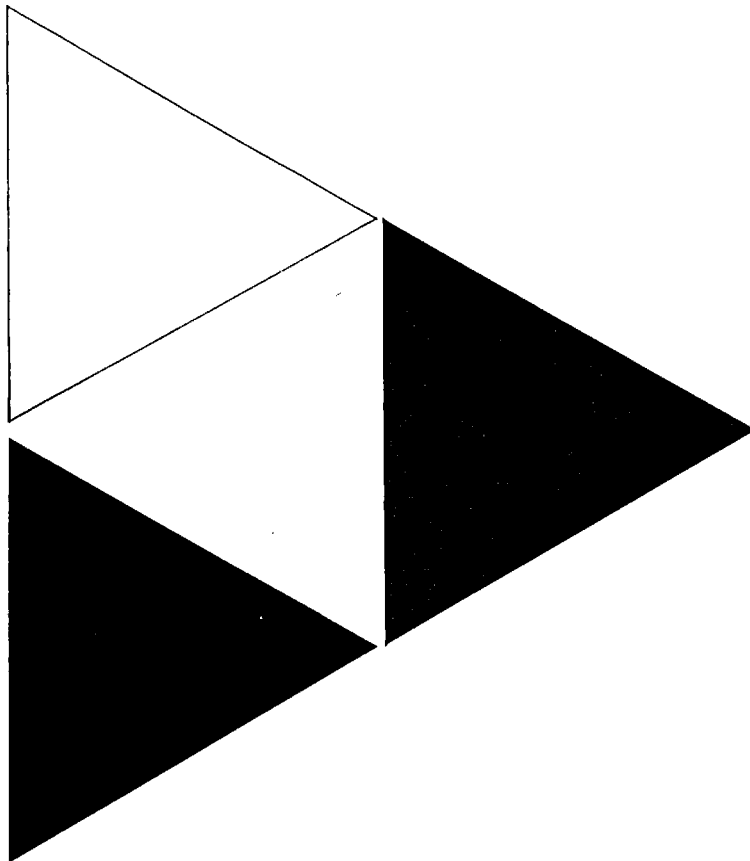
A 10-page selected bibliography on instructional television is available upon request from Ampex Corp., Video/Instrumentation Div., 401 Broadway, Redwood City, Calif. 94063. More than 70 books, reports and other publications are included in the bibliography, which was compiled for Ampex by Richard H. Dewey of the Instructional Television Center, San Jose State College, San Jose, Calif.

Analyzing instruments are illustrated and described in a short form catalog (#863) available from Allison Laboratories, Inc., 11301 E. Ocean Ave., P.O. Box 515, La Habra, Calif. The catalog lists prices and gives general information on the various items. Instruments include continuously variable passive filters, equalizers, analyzers, random noise sources, multiple oscillators and other instruments for making tests and measurements.

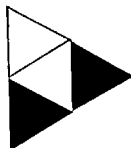
Recording storage tubes, their operation and application, are described in a 20-page illustrated booklet, "The Image Instruments Electrostore: A System for Image Storage and Processing With the Recording Storage Tube," available from Image Instruments, Inc., 2300 Washington St., Newton Lower Falls, Mass. The booklet describes in detail new ideas for scan conversion techniques in military, industrial, and aerospace applications.

A pocket guide, used to determine the size of the area telecast with any image-orthicon camera lens, operating at any distance from 3 ft to 1,000 ft, is available from Television Zoomar Co., 500 Fifth Ave., Suite 5520, New York 36. The Hyper-Universal Zoomar Lens and the Angenic-Zoomar, Model 10-2-1 B are illustrated and described on the back of the pocket guide.

A Note on Basic Statistical Concepts, Application Bulletin Number 101, is a leaflet available from Elgenco, Inc., 1231 Colorado Ave., Santa Monica, Calif. The purpose of the bulletin is to disseminate information on the application of low-



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frequency and audio-frequency noise in the solution of engineering problems. Areas covered include definition and interpretation of probability density, probability distribution, ensemble average, time average, ergodic process, variance, standard deviation, normal or Gaussian function, autocorrelation function, spectral density and the concept of white noise.

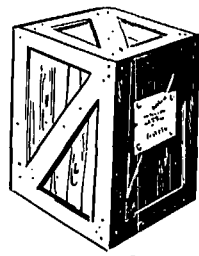
Special lenses for use in such fields as aerospace, aerial mapping, aerial reconnaissance and photominiaturization are described in seven technical data sheets available from G. P. Goerz American Optical Co., 461 Doughty Blvd., Inwood 96, L.I., N.Y. The information includes suggested applications, resolution values, distortion, mechanical configurations and cutaway design drawings.

A detailed description of the new FCC-approved economical 2,500 mc closed-circuit service for instructional TV is avail-

able upon request from Industrial Products Div., Adler Electronics, Inc., 1 LeFevre Lane, New Rochelle, N.Y.

Futura projection arc lamps are illustrated and described in a leaflet available upon request from Strong Electric Corp., 79 City Park Ave., Toledo, Ohio 43601. The lamps are designed to meet requirements of 35mm and 70mm projectors and can be changed from one film width to another by turning a knob.

Oscilloscopes and cameras are described in a short-form catalog available from Scientific Instrument Dept., Du Mont Laboratories, Divisions of Fairchild Camera and Instrument Corp., Clifton, N.J. Oscilloscopes, oscilloscope record cameras, pulse generators, probes and accessories are illustrated and described. Specifications are included on current instruments including the new transistorized high-frequency 765 series together with plug-ins.

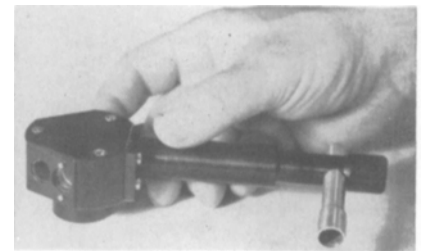


new products (and developments)

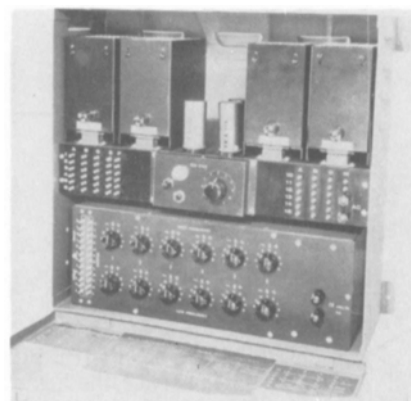
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Further information about these items can be obtained direct from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement of the products or services.

Erratum: The producer of the Woodruff/Albert 35AV1 All-Format Automatic Camera (p. 73, January, 1964, *Journal*) is Woodruff/Albert Camera & Instrument Corp., 141 West 42 St., New York, N.Y. 10036. This information was inadvertently omitted.

Projector Corp., a Division of United Industrial Syndicate, Inc., 729 Seventh Ave., New York, N.Y. 10019, to provide a fast and accurate means of adjusting the frequency characteristics of multiple-channel theater sound systems for controlled sound reproduction. It is designed as a compact unit said to have no insertion loss and not to require changes in system gain or amplification. It can be added to almost any multichannel sound system. The input is a bridging type having an impedance of about 100,000 ohms. The output is high impedance and will connect to the input of power amplifiers having input impedances of 1,000 ohms or higher. It can be used at a remote distance (in the auditorium) by using shielded cables for the connections.



A compact equal-path interferometer, a precision testing tool for industrial and laboratory optics, has been announced by Perkin-Elmer Corp., Main Ave., Norwalk, Conn. It is used to measure deviations of optical path in lens systems, mirrors, prisms and raw glass. The unit consists of the basic interferometer, mercury-arc light source and power supply, positioning adjustments and mounting stand. The complete instrument weighs 14 lb and measures 12 x 17 in. (maximum dimensions). The basic instrument measures only 2 x 2 x 6 in., but is said to be capable of testing optics up to the largest size. The unit is priced at \$1,995.



The Century Theatre Acoustic Compensator has been designed by Century

An instrument designed for precise testing of large complex optics has been developed by the Electro-Optical Division,