

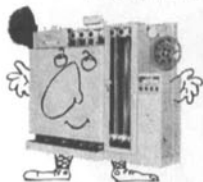
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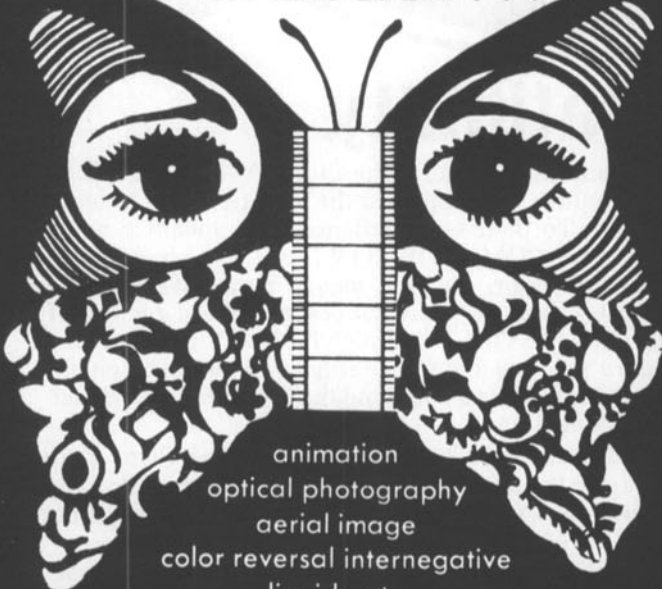


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BOOKS BOOKLETS AND BROCHURES

Careers in Motion Picture Production (pamphlet C3-87), a guide for students interested in the possibilities of the motion-picture industry, is available in a revised and updated edition from Dept. 412-L, Eastman Kodak Co., Rochester, NY 14650. The pamphlet discusses possible opportunities in Hollywood, television, business and industry, education, government, religion, medicine and film teaching. Advantages of formal academic training in the various phases of film production are also discussed and a partial list of colleges and universities offering programs leading to degrees in the field is included.

Information for a Cleaner Environment From Kodak is the overall title of a series of publications planned to help photographic processors and other users of photographic materials to preserve the environment. The first pamphlet in the series (J-43) describes a simple waste-treatment system for small volumes (up to 100 gal per day) of photographic processing wastes.

The second pamphlet in the series, *In Support of Clean Water: Disposing of Effluents From Film Processing* (Bulletin J-44) is a reprint of a paper by Lloyd E. West that appeared in the September 1970 issue of the *Journal*. The paper evaluates photographic chemicals used in film processing, discusses sewer codes and stream standards and suggests methods of reducing outflow. A special research team, headed by Dr. West, is working full time on the development of new techniques of control. A total of 14 pamphlets is planned initially, but new titles will be added as improved treatment and disposal methods are discovered.

Both pamphlets are available from Eastman Kodak Co., Dept. 412-L, 343 State St., Rochester, NY 14650, upon request.

The 1971 **Audio-Visual Equipment Directory**, published by the National Audio-Visual Assn. (NAVA), 3150 Spring St., Fairfax, VA 22030, has been completely updated and revised. Now in its 17th edition, the *Directory* contains photographs, specifications and prices of more than 1,300 current models of equipments. More than 450 manufacturers are represented and more than 1,900 items in 62 categories are listed in 450 pages. Uniform listings including pictures for each entry allow for easy comparison of all equipment items. The *Directory* also provides sources for hundreds of special accessories and devices; useful charts for films and tape running times and screen sizes and manufacturers' trade names. The sections on cassette recorders have been greatly expanded and new sections on sound slide projectors, programmers, synchronizers and dissolve control systems have been added.



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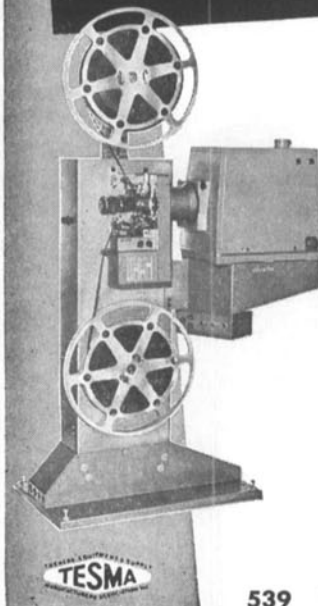
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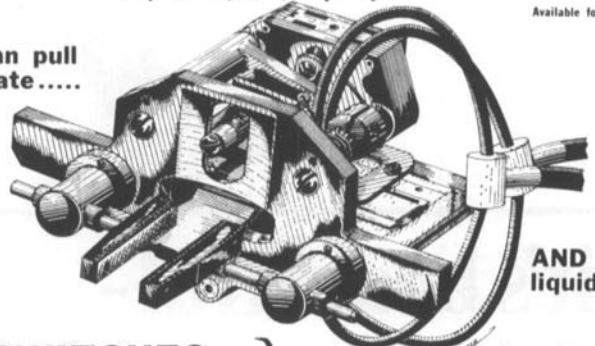
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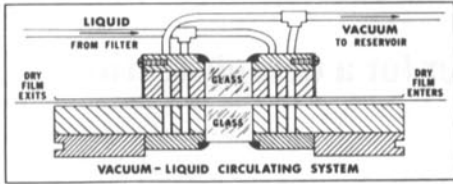
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The Directory is priced at \$8.50 (\$7.50 if payment accompanies order).

Cinephotomicrography (Kodak scientific publication N-2) is a revision and expansion of the Eastman Kodak Data Book formerly called *Motion Pictures Through the Microscope*. It is available from Dept. 454, Eastman Kodak Co., Rochester, NY 14650. The new book contains 40 pages of data, illustrations and tables in an 8½ by 11-in format. Basically, the technique described in the new Data Book involves adaptation of a motion-picture camera to a compound microscope in order to record images of moving microscopic objects. Information on such applications as filming of crystal growth, protozoa, crustacea and living blood cells is included.

Electronic Shutters, a 36-page booklet, is available from Dept. CC, National Camera, Englewood, CO 80110, at a price of \$5.00. The booklet contains four articles originally published in the company's bi-monthly magazine, *The Camera Craftsman* (sample copy on request from National Camera). Titles of the four articles in the booklet are: "Electronic Shutters for Automatic Amateur Cameras"; "The Compur Electronic and Its Secrets"; "Prontor 500 Electronic" and "The Polaroid Electronic Shutter."

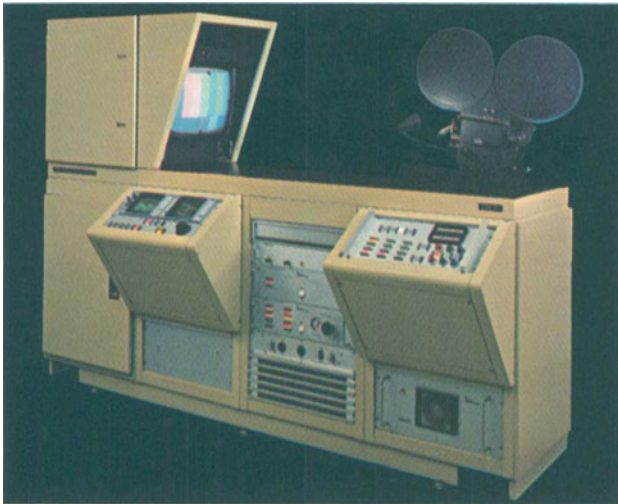
The Audio Visual Source Directory, Spring-Summer 1971, is available from M.P.E. Publications, Inc., Tarrytown, NY 10591. It is priced at \$2.50. The Directory lists names and addresses of manufacturers and suppliers of audio-visual equipments. It also lists names and addresses of associations in the audio-visual field and state and educational associations. Other listings include motion pictures and slide-films available for sale, rental or as a loan. The *Directory* is published semiannually.

The SOS Lighting Book listing more than 1700 lighting equipment products from 70 manufacturers is available from SOS Photo-Cine-Optics, Inc., 40 Kero Rd., Carlstadt, NJ 07072, Dept. B5-23. The 60-page book is priced at \$1.00, but a copy will be sent upon request to someone involved in professional motion pictures or television. Included in the book are diagrammatic plans for studios with coordinated basic lighting outfits, a comprehensive list of professional lamps and detailed descriptions of many lighting accessories. The book is illustrated.

The 1971 International Cinema Catalog of 16mm Films is available upon request from Audio/Brandon Films, Dept. LC/71, 34 MacQuestion Pkwy. South, Mount Vernon, NY 10550. The catalog includes such films as *Bicycle Thief*, *Battle of Algiers* and other well-known productions.

Information from the 1967 Census of Manufacturers, released previously in separate paperbound reports, has been assembled and reissued in clothbound volumes. *Industry Statistics*, Vol. II, Pts. 1, 2 and 3, presents data for 422 manufacturing in-

Teledyne announces the introduction of their new Color Telefilm Recorder that transfers color tape to color film with remarkable quality.



Teledyne Camera Systems' CTR-2 Color Telefilm Recorder.

Extraordinary quality and practical economy from the outset.

Teledyne has developed the first broadcast quality Color Telefilm Recorder. They knew that excellence was mandatory. A piece of equipment that wouldn't deliver sharp, clear, color-balanced 16mm film transfers would not stand up to your criteria. So, the system was perfected and then it was introduced.

Engineering bottom line.

Primary heart of the system is the camera (DBM-64B) which uses compressed air to pull down and stabilize the film in less time than the television vertical blanking period. Result is full

frame recording without mid-field splice or shutter bar.

System works for operator not the other way around.

Human engineering, ease of operation, and maintenance maximizes productivity. All components are immediately accessible. Test points on the printed circuit cards used with the built-in waveform monitor allow operation, adjustment, and trouble shooting without a separate oscilloscope. Slanted camera optical path is very convenient for magazine loading.

It almost had to be Teledyne.

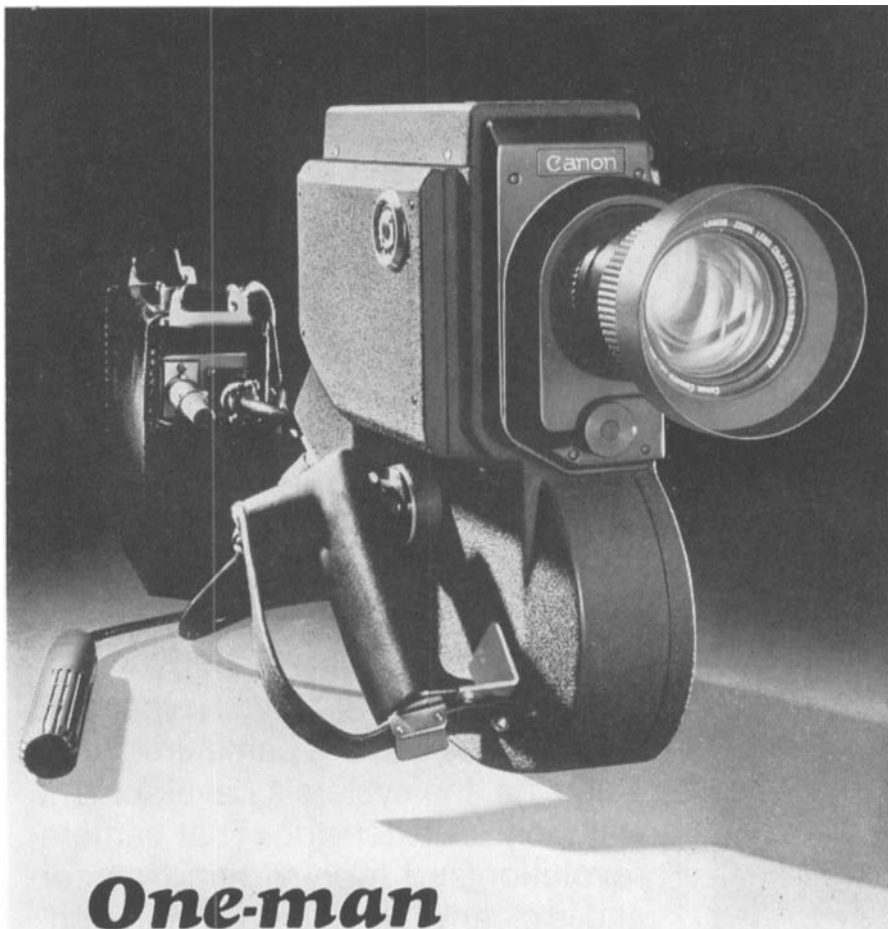
You expect innovation from pioneers. Because the camera came first, from Teledyne, the system's development was only an extension. That camera revolutionized tape to film transfer and is clearly the industry's standard.

Partial list of nomenclature that makes the point.

DBM-64B Camera. Conrac RHM-19 Display. Tektronic 528 Waveform Monitor. Modified Tektronic 602 "X-Y" Display. CBS Labs Mark II Image Enhancer. Rank Decoder. Maurer "F" Prime or Auricon "Modulite" Variable Area Recording Galvanometers. Teledyne CK-120 Magnetic Recording System. And so on.

Giant step for the state of the art.

Video tape production and 16mm broadcast and dupe transmission are now a quality reality. To learn more about this capability and making it available to your operation, contact Teledyne Camera Systems at 131 North Fifth Avenue in Arcadia, California 91006. Telephone (213) 359-6691. They'll send you a reel sample.



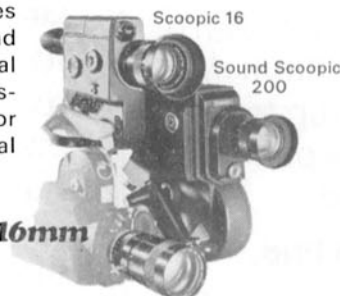
One-man 16mm Action Pack: Sound Scoopic 200

Turns a lone wolf into a production team. 200 feet of continuous filming plus simultaneous sound recording. Its lightweight, compact 16mm portability is complemented by quick-shot EE aperture with manual override, TTL system, rechargeable battery pack. And that's just a part of the big Canon 16mm news:

When the going's rough, switch to the compact **Scoopic 16**. Its automatic Exposure Control tracks the action in any light, and years of world-wide testing have shown that the specially designed SLR viewfinder, semi-automatic loading and rechargeable battery pack work just as well at 68°F below zero!

We've got lots happening in lenses, too. The versatile **Canon Macro Zoom Lens C10 x 12 Fluorite** almost makes chromatic aberration a thing of the past, features macrophotography (down to 1mm) and multipoint focusing (lets you match focal point to focal length for exciting new possibilities). Comes with Arriflex mount (for 16ST, 16M, etc.) or optional universal C-mount.

Canon: big news in 16mm



Canon Macro Zoom Lens
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dustries on quantity and value of products shipped and materials consumed; cost of fuels and electric energy; capital expenditures; inventories; employment; payrolls; man-hours; value added by manufacture; number of establishments and number of companies. Data are shown for the United States, geographic regions and States, employment-size class of establishment and for degree of primary product specialization. Separate summary chapters are included for each of the 20 major industry groups. The three parts of Vol. II are available from the Superintendent of Documents, U.S. Government Printing Office, Division of Public Documents, Washington, DC 20402. Part 1 is priced at \$8.75; Pt. 2 at \$9.50 and Pt. 3 at \$9.75. Part 1 covers major industry groups 20-24 and summary; Pt. 2, major groups 25-33 and Pt. 3, major groups 34-39 and 19.

Optical Sciences Center, University of Arizona, Tucson, AZ 85721, has announced that a limited number of copies of Technical Report 58, *Symposium on Synthetic Aperture Optics*, are available at a price of \$3.00. The report contains six pages presented at the technical session held in January 1970 in conjunction with the dedication of the Optical Sciences Center. The report also contains a bibliography.

Computer Handling of Graphical Information, the Proceedings of a seminar sponsored by the Society of Photographic Scientists and Engineers (SPSE), SID and NMA, is available from SPSE, 1330 Massachusetts Ave., N.W., Washington, DC 20005, at a price of \$9.50 (\$7.50 to members of SPSE, NMA or SID). The book contains 278 pages and presents the complete text of 18 papers. It is illustrated, measures 5½ by 8½ in and is softbound. Papers on "Equipment for Image Processing—An Overview"; "An Introduction to Film Reading"; "Computer to Microfilm Systems" and "Computer Animated Movies" are among those included in the book.

Television: Automation for the '70s, a 12-page, illustrated brochure, is available from Ampex Corp., M.S. 7-13, 401 Broadway, Redwood City, CA 94063. The brochure provides guidelines for planning automated facilities and describes the use of hardware and software in a typical system.

Wide spectrum cable communications equipments are described in an illustrated brochure available from GTE Sylvania Advertising Services Center, 70 Empire Dr., West Seneca, NY 14224. The brochure describes transmission system equipments and accessories for CATV systems. Full descriptions and electrical characteristics tables are included for each product.

The Sound and Communications Equipment Catalog (AL-1712-2) is available upon request on company letterhead from Industrial Marketing Dept., Altec, 1515 South Manchester Ave., Anaheim, CA 92803. The 16-page, illustrated catalog provides basic technical information on sound equipment and Altec's Acousta-

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Wherever space and weight requirements are critical, and high-energy conversion capabilities are essential, you'll find Yardney Electric's Silvercel® and Silcad® batteries supplying today's power for tomorrow's sophisticated portable equipment.

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Mounting of High Power Silicon Semiconductors (AD 54-050), a 12-page illustrated brochure, is available from Westinghouse Electric Corp., Westinghouse Bldg., Pittsburgh, PA 15222. Since present-day semiconductors control large amounts of power, mounting decisions, such as surface selection and heat sinking, are crucial to device performance and reliability. The brochure provides extensive data on this subject.

Preventive Maintenance Program for Standby Power Equipment (R-432), an illustrated 8-page brochure, is available from Onan Corp., 1400 73rd Ave., N.E., Minneapolis, MN 55432. The brochure presents advice on how to set up a preventive maintenance program which helps to discover minor difficulties in a standby power plant installation and correct them before they become major problems.

Multilayer optical coatings are described in a brochure available from Wollensak Inc., 850 Hudson Ave., Rochester, NY 14621. A new neutral density absorbing filter with reduced surface reflection is described as well as other coatings adaptable to a wide range of applications.

The B & S Silent Generator, the Filmovan and the B & S Star Dolly are described and illustrated in color in three folders available from Birns & Sawyer, Inc., 1026 N. Highland Ave., Los Angeles, CA 90038. The equipments are available for both sale and rental.

Fast-switching epitaxial transistors are illustrated and described in a selector guide (B-115) available from Westinghouse Electric Corp., Westinghouse Bldg., Pittsburgh, PA 15222. The selector guide covers the full line of Westinghouse epitaxial transistors. Graphs show typical switching speeds for each transistor series. Typical applications are given including power supplies, regulators, inverters and converters, oscillators, amplifiers and others.

Helium-neon gas lasers for industrial, research and educational applications are described and illustrated in a 32-page catalog available from Metrologic Instruments, Inc., 143 Harding Ave., Bellmawr, NJ 08030. Laser education kits designed for optics experiments in school science departments and holographic systems are included.

A semiconductor catalog (54-100) covering more than 400 3- to 70-A stud mount rectifiers is available from Westinghouse Electric Corp., Semiconductor Div., Youngwood, PA 15697. The catalog includes electrical and mechanical specifications for each of the 400 devices. Representative power derating and efficiency curves are included. Dimensioned drawings and exploded views of the rectifiers are included in the catalog.

Several small books on computers are available from Digital Equipment Corp.,

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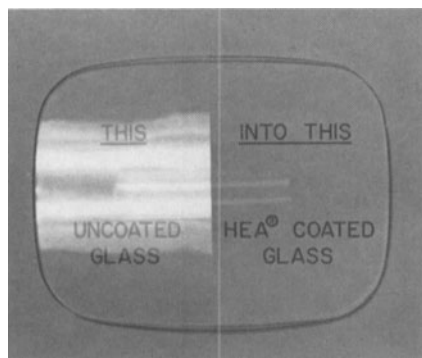
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146 Main St., Maynard, MA 01754. Among them is the *Small Computer Handbook* which has these parts: PDP-8/E Programmed Data Processor; PDP-8/E Options; Interfacing and Installation and DEC Services. It is illustrated and contains a number of tables and diagrams. It is available without charge. *Introduction to Programming and Programming Languages* are companion volumes, each priced at \$2.00. *Digital Control Handbook* and *Digital Logic Handbook 1971* are both available without charge. The books are paperbound and measure 5½ by 8 in.

Mole-Richardson Lighting and News is a 10-page booklet containing illustrations of lamps, fixtures and power equipment in use on a location set. The booklet is available from Mole-Richardson Co., 937 N. Sycamore Ave., Hollywood, CA 90038.

A recent issue of *Image 8* contains a concise introduction to filmmaking techniques for teachers to use in the classroom. It includes a step-by-step "how-to-do-it" article by Rodger Larson and Lynne Hofer. (Mr. Larson is Executive Director of the Young Filmmakers Foundation (New York) and Mrs. Hofer is the program developer). *Image 8* is available upon request from Mary Anne Strahan, Editor, Technicolor, Inc., 299 Kalmus Dr., Costa Mesa, CA 92627.

The American National Standards Institute (ANSI) 1971 catalog listing 3,942 American National Standards and 1,837 International Recommendations, is available upon request from American National Standards Institute, 1430 Broadway, New York, NY 10018. The catalog contains 128 pages including a 21-page index to the titles of all the listings. The standards include dimensions, ratings, terminology and symbols, test methods and other criteria applicable to the entire industrial economy.

The De Wolfe Music Library, 25 W. 45 St., New York, NY 10036, has announced a 500-page music catalog available upon request to film, slidefilm and videotape producers. Music is available on ¾-in tape and LP discs. Included is a large variety of modern-sound recordings for industrial and documentary films and TV and radio commercials.

The Ampex ACR-25 automatic broadcast video cassette recorder/reproducer and the AVR-1 third generation color broadcast videotape recorder are described in separate brochures available from Ampex Corp., M.S. 7-13, 401 Broadway, Redwood City, CA 94063. The illustrated brochures explain features of the equipments and present performance specifications.

The Westinghouse Semiconductor Condensed Catalog, 54-000, describes a wide range of power semiconductor components. Devices described range from the highest voltage thyristors, rectifiers and transistors commercially available to power control and rectifier assemblies, prewired and mounted on heat sinks. In addition to

basic specifications, the new catalog provides dimensioned drawings of standard package types and provides basic introductions to each product line. It is available from Semiconductor Div., Westinghouse Electric Corp., Youngwood, PA 15697.

The technique of suppressed field kine-scope recording with Arriflex 16mm cameras is described in Technical Data Sheet, No. A-17-371, available from Arriflex Co. of America, Box 1050, Woodside, NY 11377. The data sheet describes the basic principle involved in reducing the 60 fields/s of a TV display to the 24 frames/s required for motion pictures. The alternative technique of filming at 30 frames/s is also reviewed.

The ISA Instrumentation Publications Catalog-1971 is available from Instrument Society of America, 400 Stanwix St., Pittsburgh, PA 15222. The 28-page catalog lists more than 150 current instrumentation publications covering all areas of science and industry.

Film-handling equipments and accessories are described and illustrated in a 16-page catalog available from Research Technology Inc., 3525 W. Peterson Ave., Chicago, IL 60645. Included in the catalog are descriptions and illustrations of the Retec-tron film inspection machine, the Protec-tron XCL cleaner, splicers, projectors, film racks and cabinets and other equipment.

Decco rear zoom and focus control attachments for closed-circuit TV viewfinder cameras are described and illustrated in a leaflet available from D. E. Carlson Co., 1024 Michigan Ave., South Milwaukee, WI 53172. The units can be attached to Sony or Panasonic cameras and require no camera modification.

A new indexing system used in the 1971 Short Form Catalog of Electronic Components available from Switchcraft, Inc., 5555 N. Elston Ave., Chicago, IL 60630, makes it easy to locate any one of the 4000 products listed in the catalog. The numerical-alphabetical index shows the page number, column and line number of every product in the 36-page catalog. Products include such items as jacks, plugs, switches, connectors, molded cable assemblies and audio accessories.

The Laser Hardware catalog, listing more than 850 products, is available from The Ealing Corp., Optics Div., 2225 Massachusetts Ave., Cambridge, MA 02140. The 56-page illustrated catalog includes such items as vibration isolated rectangular tables, micro-positioning devices, lenses, beamsplitters, reflectors, mirrors, prisms, filters and windows.

The RCA TK-44A color television camera is described in a 28-page brochure available from RCA Commercial Electronic Systems, Front and Cooper Sts., Camden, NJ 08102. The brochure contains a number of illustrations in color. The camera, introduced in 1969, uses three lead-oxide photocathode pickup tubes. It is designed for either studio or outside broadcasting.



**Use the Quiet Running AURICON
16mm Sound-On-Film Camera...
NEVER DISTURB THE AUDIENCE WITH CAMERA NOISE!**

Does the scene above look familiar? You may be interested to know more about its significance relative to your sound recording needs.

Here is Auricon Professional 16mm Motion Picture Sound Camera Equipment, operating right in the middle of an audience — actually within inches of the surrounding spectators! Yet, despite the complex precision mechanisms that are recording a full-color picture and every whispered word of the speaker on the rostrum, not even a murmur of distracting camera noise is heard by the audience. This quiet, dependable recording of 16mm Sound-On-Film Talking Pictures is the special engineering "magic" of Auricon!

Except for the red signal lights glowing on the Auricon Sound Camera, the audience has no way of knowing that the Camera is running. In fact, even the click of the on-off switch has been muted!

Auricon Cameras are versatile and easy-to-handle because there is no bulky, sound-proof enclosure "blimp" such as all other 16mm cameras use when recording sound.

Professional Producers and Cameramen choose Auricon to shoot pictures synchronized with Optical or Magnetic "Double-System" recording equipment, or to record "Single-System" sound on the same film taking the picture. Write us about your sound recording equipment needs today!

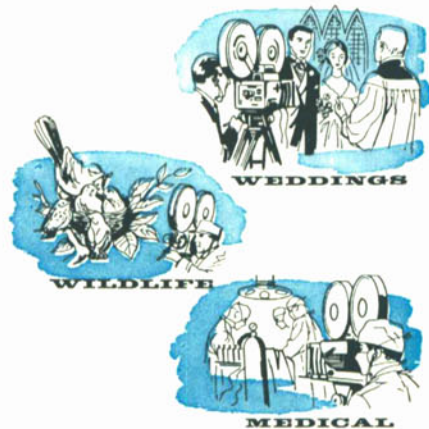
All Auricon Cameras are sold with a 30 day money-back guarantee. You must be satisfied!

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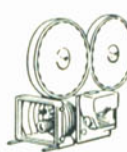


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AURICON SUPER-1200
1200 ft. Runs 33 min.



AURICON PRO-600
600 ft. Runs 16 1/2 min.