

LENZ CABLES

**ESPECIALLY
DESIGNED**

FOR THE

MOTION PICTURE and TV STUDIO

No. 34400
Microphone
Boom
Cable



No. 34400J
Microphone
Boom
Extension
Cable

SPECIAL QUALITIES needed for efficiency and dependability that are found in these cables:

EXTRA FLEXIBILITY to permit rapid and noise free adjustments.

ADEQUATE SHIELDING to guard against electrical interference.

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Keep your sound tracks free of interference—install Lenz Cables!

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No. 34406-6 Conductor—Shielded—Cotton Covered

MICROPHONE-AMPLIFIER-TRANSMISSION CABLES

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MULTI-DUTY POWER CABLES

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CHANNEL CABLE

No. C-22-ST-J-2 Conductor—Ground Wire—Shielded—Plastic Jacket

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sources to assist the equipment design engineer in the early stages of design.

The book includes discussions of the effects of climate (i.e., temperature, pressure, humidity, wind, etc.), mechanical environment (i.e., vibration, shock, g-loading, etc.), thermal environment (i.e., heat generated by the equipment itself), nuclear radiation, and electrical noise.

Many other factors, such as reliability, ease of manufacture, and available space, also exert a profound influence on equipment design. Thus, chapters in the book are devoted to various manufacturing techniques, to the layout and placement of components, to modular circuitry, and to automatic techniques. Finally, the author touches on the interrelationship between the equipment and its human operators.

The material is clear, factual, and well presented. Although it is slanted especially toward electronic equipment, the principles and factual data are equally applicable to almost any type of equipment, including optical devices and mechanical devices. The illustrations showing environmental extremes are particularly graphic. Perhaps the best of these is a photograph of a crated teleprinter being unloaded from a truck by merely pushing it off to fall to the ground. While such handling is extreme, and should not occur, it does happen.

Coverage of such a wide variety of design factors inevitably leaves gaps. One such gap here is the lack of discussion of the space environment. For example, neither the temperature gradients nor the pressures in the space environment are considered, and the discussion of vibration does not include that experienced during a launching.

With this exception, the book is a good reference which should be very useful to equipment design engineers, and should be of more than passing interest to operators and technicians.—*Harvey Mertz*, Cherry Hill, N.J.

Books, Booklets and Brochures

Recommended methods for the preparation and processing of 16mm and 35mm motion-picture film are explained graphically in a set of 12 Producers Bulletins published by General Film Laboratories, 1546 N. Argyle Ave., Hollywood 28. The Bulletins include four editing charts and eight flow charts showing processing methods. Subjects of the editing charts are: "Methods of Marking Workprints to Indicate Effects," "Preparation of Eastmancolor Negatives for 35mm and 16mm A&B Roll Printing," "Preparation of 16mm Reversal A&B Rolls" and "Preparation of 16mm Printing Leaders."

The eight flow charts show the various steps used in processing 16mm and 35mm negatives, both color and black-and-white; the handling of 16mm color or black-and-white reversal originals; and the use of the 35/32 method for producing 16mm positive prints from black-and-white or color film. The bulletins are available without charge to motion-picture producers as long as the supply lasts.

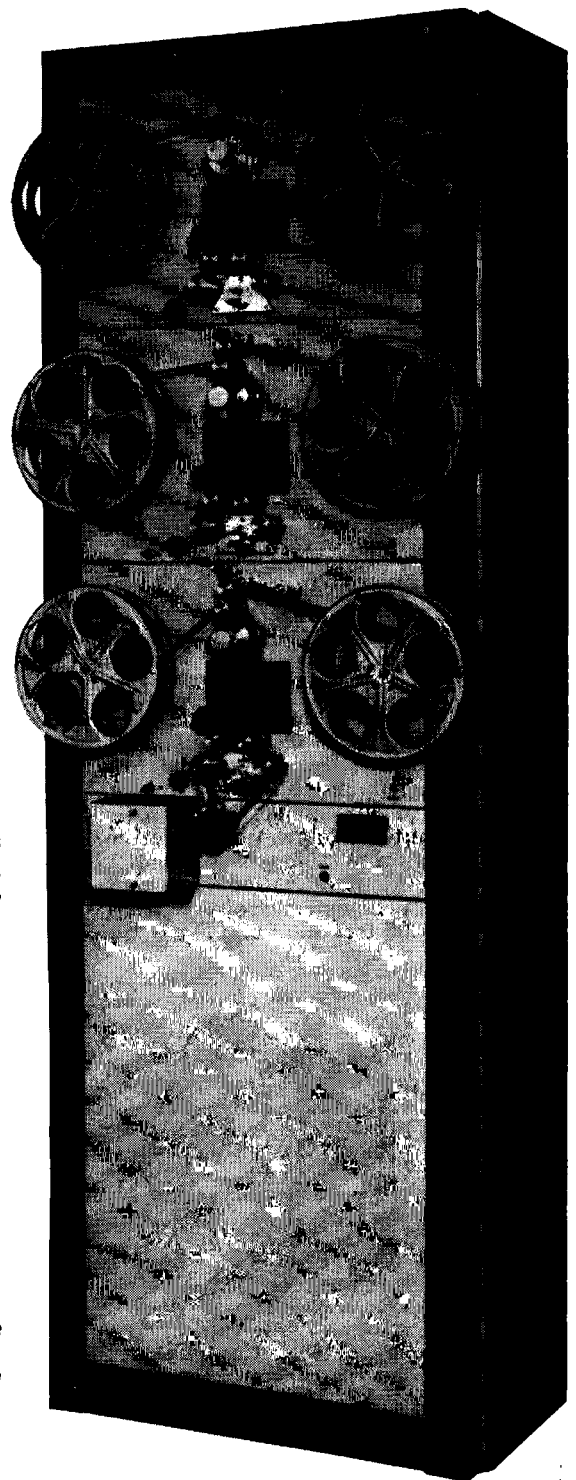
MAGNA-TECH ELECTRONIC 400 SERIES FILM RECORDING EQUIPMENT ARE VARIOUS INSTRUMENTS SPECIALIZED TO PERFORM THE FUNCTIONS ASSOCIATED WITH THE PRODUCTION OF OPTICAL AND MAGNETIC SOUND FOR MOTION PICTURES. THEY OFFER SPACE AND CAPITAL INVESTMENT SAVING WITHOUT COMPROMISING THE CRITICAL DEMANDS OF THE ENGINEER.

The transport is a self-driven unit incorporating the film pulling mechanism, a miniaturized semi-conductor reproduce amplifier, drive motor and torque motors in one assembly. Basically a magnetic reproducer, it is also used as a magnetic recorder, optical reproducer, and optical recorder by means of optional attachments.

Interlock is provided by the conventional method using a selsyn motor mounted on each film transport. 2 to 8 track reproducers and record attachments are also provided. 8 reproduce amplifiers are mounted on one panel. Recording amplifiers are on individual panels.

A cabinet can be supplied to house five complete film reproducers or various optional attachments and transports utilizing the 77" panel space. A semi-conductor power supply mounts inside this cabinet.

Because of quality materials, quality workmanship, and integrity of design, together with the performance and stability, the Series 400 has a complete range of application in every phase of production of sound for films.



VIEW OF THREE SERIES 400, TYPE MD497 DUAL FILM WIDTH, 17½mm AND 35mm MAGNETIC REPRODUCERS, AND ONE OD435, 35mm OPTICAL REPRODUCER ATTACHMENT INSTALLED IN THE CS400 CABINET.

WRITE FOR 12 PAGE BROCHURE

TYPE	FILM WIDTHS	SPEEDS(fpm)	OPTIONAL ATTACHMENTS ACCOMMODATED		
MD416	16mm	36	MR416 MAGNETIC RECORD	OD416 OPTICAL DUBBER	OR416 OPTICAL RECORD
MD417	17½mm	90	MR417 MAGNETIC RECORD		
MD435	35mm	90	MR435 MAGNETIC RECORD	OD435 OPTICAL DUBBER	OR435 OPTICAL RECORD
MD447	17½mm	45	MR447 MAGNETIC RECORD		
MD437	COMB. 12½/25mm	DUAL 43/90	MR437 MAGNETIC RECORD	OD435 OPTICAL DUBBER	OR435 OPTICAL RECORD
MD427	17½mm	DUAL 43/90	MR427 MAGNETIC RECORD		
MD497	COMB. 12½/35mm	90	MR427 MAGNETIC RECORD	OD435 OPTICAL DUBBER	OR435 OPTICAL RECORD
MD436	COMB. 14/35mm	DUAL 36/90	MR436 MAGNETIC RECORD	OD416 AND OD435	OR416 AND OR435

M.T.E.

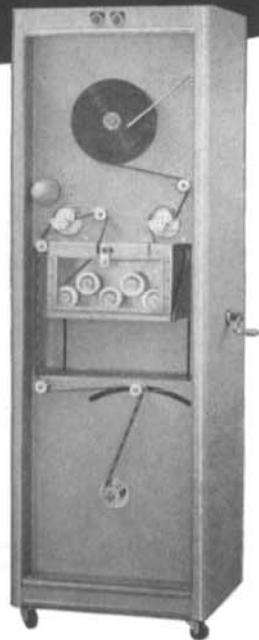
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Solvent barrier protects film at all times; can't be scratched or marred. All cleaners are completely self-contained and feature: adjustable speed control, 0 to 300/minute ★ automatic shut-off in case of defective splices ★ automatic rewind ★ low cost operation (one pint non-inflammable solvent cleans 3,000 feet of 35 mm film).



Model A-5100 combination 16/35 mm film cleaner. Other cleaners available for 16 mm film only, 35 mm film only and for 70 mm film only. Price: Model A-5100 \$5,500 f.o.b. Sylmar, California.



Unicorn 35 mm Automatic Film Splicer. Two other standard models available for 16 and 70 mm film stock. Price: (35 mm model) \$2200.00, f.o.b. Sylmar, California.

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Perfect, darkroom splices in 8 seconds! Use of Mylar tape assures no-break bonding; automatic operation produces uniform splices, even in darkroom production. The two ends of the film are butted and tape is completely wrapped around, forming smooth splice for free passage through film processing machines. Safe, simple push-button control allows operation by non-technical personnel.

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Handbook for Production of Filmstrips and Records, by John Lord and Robert H. Larson, is a 58-page, illustrated paper-bound book published by DuKane Corp., Audio-Visual Division, St. Charles, Ill. Mr. Lord is Film Production Advisor of DuKane Corp. and Mr. Larson is Chief Engineer. Purpose of the book, according to the publisher's statement is to "aid in the preparation of more technically uniform sound filmstrips." The book is profusely illustrated with photographs, diagrams and charts in color and black-and-white. The presentation, style and design of the illustrations and explanatory text are excellent. The book is priced at \$2.50.

Video Tape Splicing is the title of Bulletin No. 5 in the Video Talk series published by Minnesota Mining and Manufacturing Co., Dept. E2-468, 2501 Hudson Rd., St. Paul 19, Minn. The new bulletin discusses the most common errors made when splicing video tape and how they can be avoided. Subjects of other bulletins in the series are "Handling and Storage," "Factors Affecting Dropout Performance," "Effects of Total Circuit Gain and Demodulator Performance on Dropouts" and "Producing Visible Patterns on Magnetic Recording Tape."

A 40-page **Technical Booklist** listing more than 200 books on Electronics, TV, Radio, Audio, Computers, Electricity and related subjects, is available without charge from Technical Book Division, Howard W. Sams & Company, 4300 W. 62 St., Indianapolis 6, Ind. A 2-page subject index listing books under 14 categories is included. Brief descriptions which include chapter headings and price are given.

A 672-page **illustrated catalog** listing more than 70,000 types of electronic products is available without charge from Allied Radio Corp., 100 N. Western Ave., Chicago 80. Entitled *Electronics for Industry*, the catalog lists and describes products of more than 600 manufacturers. A 17-page semiconductor directory is included as a special section of the catalog.

A 28-page **illustrated catalog** giving complete descriptions of the various types of the General Radio Variac autotransformers is available without charge from General Radio Co., West Concord, Mass. Design of these transformers is based on a single-layer winding on a toroidal strip-wound iron core. As the control knob is rotated, a brush contact traverses the winding. The brush is always in contact with at least one turn of the wire and the voltage between turns is always less than 1 v even in the largest models, while in the smaller units it is only about 0.3 v.

An **illustrated folder** containing descriptions of television testing and broadcast equipment is available upon request from Riker Industries, Inc., 875 E. Jericho Turnpike, Huntington Station, N.Y. Specifications are given for the equipments listed.



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