

Exhibit Directory

Amega Corporation Booths 230, 231
11817 Wicks St., Sun Valley, Calif.

Ampex Corporation Booth 111
401 Broadway, Redwood City, Calif.

Exhibiting: Ampex 4-head videotape television recorder with special pre-recorded taped material from the National Association of Broadcasters Convention.

Personnel: Bob Day.

Arriflex Corp. of America Booths 201, 202
257 Park Ave. South, New York, N.Y.

Exhibiting: Complete Arriflex-16 and Arriflex-35 lines, and Siemens 16mm sound projector line. New items: Arriflex 16M with new 1200' magazine and universal fiberglas blimp; Arriflex-35 Model IIBGS with built-in sync generator and automatic clasticks system, and special blimp; 1000' adaptation stand for Arriflex-35.

Personnel: Paul Klingenstein, Victor James, Michael Zois, Abbott Sydney, Asa Wruck (Export Mgr., Siemens & Halske).

Atlas Projector Corp. Booth 232
10834 Washington Blvd., Culver City, Calif.

Exhibiting: Atlas Portable 35mm Projector Models 962 & 963—all aspect ratios, magnetic or optical soundtrack and picture, or composite prints with optical sound; Atlas Laboratory Viewing 35mm Projector Model 186; Atlas Replacement 35mm Sound Head Unit Model 3100.

Personnel: Walter R. McCormick, Jr., Robert Spector.

Bach Auricon, Inc. Booth 108
6950 Romaine St., Los Angeles, Calif.

Exhibiting: New "Angenieux-Bach" 12 to 120 zoom lens, custom designed for Auricon 16mm camera; complete lines of 4 models of Auricon cameras; double-system optical-sound on film recorder; new all-transistorized "Filmagnetic" recording system for Auricon cameras with interchangeable, rechargeable batteries; Auricon tripods, microphone boom, etc.

Personnel: Peter Waldeck, William Straube, Gary Koester, Howard Stephens.

Bell & Howell Co. Booths 143, 144, 145
7100 McCormick Road, Chicago 45, Ill.

Exhibiting: Visual readout display of additive color printing systems for continuous printing as well as step printers; new program tape checker and duplicator (Design 6173 D) with correction or insertion feature.

Personnel: J. L. Wassell, S. R. Kurtzweil, G. Foster, J. Terry, C. Zichterman.

Birns & Sawyer Cine Equipment Co. Booth 129
6424 Santa Monica Blvd., Hollywood, Calif.

Exhibiting: B&S SeAQUartz Underwater Lights, portable 30-v and 110-v models; underwater camera housing for Arriflex-16 and -35; stop-motion projector; camera sound barneys; camera heater barneys; fishpole sound booms; Omnitax telephoto lenses; hi-hats for Arriflex-16 and -35; nickel cadmium batteries for Arriflex-16 and -35 and battery chargers; instant splicing blocks, 16/35mm; ball socket adapters and fluid head adapters; Trickstar lenses; Tridown triangle.

Personnel: Jack Birns, Clifford Sawyer, Charles Lipow, Gary Boren, Hal Ray.

Cinema Beaulieu Booth 207
941 Westwood Blvd., Los Angeles, Calif.

Exhibiting: Beaulieu RC 16 16mm Camera; Beaulieu MCR 8 8mm Camera.

Personnel: Harry Mazur, Otto Herskovic.

Cine Electronics Systems, Inc. Booth 206
225 East 46th Street, New York, N.Y.

Exhibiting: 450-w xenon light adaptation in a portable 16mm projector, with power pack and ignition system; new condenser block for large-size front or rear screen still projection at short distances; Xenosol-3 lamphouse.

Personnel: Stewart W. Jones, Seymour Kazmeroff.

Cinerama Camera Corporation Booth 229
11930 W. Olympic Blvd., Los Angeles, Calif.

Exhibiting: New automatic iris control for Cinerama Camera Corp. Monitor Series Photographic Recorders, unit responds to light intensity changes over field of view of objective lens. HS-35A Photographic Recorder; 300 FPS, dual pin registration, integral boresight with reflex viewing, 8-speed transmission, integral control box.

Personnel: Guy H. Hearon, Burton Berniker, Breen Lansford, Karl Gensike.

ColorTran Industries, Inc. Booth 203
630 S. Flower St., Burbank, Calif.

Exhibiting: Advanced group of pre-boosted high-intensity quartz-iodine lighting systems and electronic controls; new ColorTran feather-light quartz-iodine focusing lights, back lights, strip lights, and stands.

Personnel: Herbert A. Hollander.

EXHIBIT HOURS

Monday, April 13..... 2:30-8:00

Tuesday, April 14..... 11:00-8:00

Wednesday, April 15..... 9:30-4:00

Thursday, April 16..... 11:00-6:00

Admission to the Exhibit will be by Registration Badge or Exhibit Pass. Passes may be obtained free of charge at the Registration Desk.

Andre Debrie of New York
14-29 112th St., College Point, N.Y.

Booth 234

Exhibiting: TIPRO Optical Printer, QUAD 8 for the simultaneous printing of four 8mm images onto a single strand of 35/8mm-5R film; MATIPO 35 Contact Step Printer; 16mm single system "CS 16" camera (magnetic sound); 16mm double band projector for TV applications; 35mm Aiglonne America for in-plant processing of 35mm movie and microfilm; Sonocolor SFC2 Magnetic Striping Machine for application of magnetic varnishes to film.

Personnel: R. J. Harrington, M. Nanocchio.

DuKane Corporation
St. Charles, Ill.

Booth 222

Exhibiting: Full line of sound filmstrip projectors including the Micromatic and Flip-Top projectors; new Vista-Sell continuous flow filmstrip projector.

Personnel: Howard V. Turner, A. F. Hunecke.

Eclair Corporation of America Booths **225, 226**
8078 Woodrow Wilson Blvd., Los Angeles, Calif.

Exhibiting: Eclair Products: 300 studio reflex camera, 1000 ft. film capacity; GV-35 hi-speed camera; GV-16 medium speed camera; Camematic 35mm instrumentation camera; Camerette 35mm camera with techniscope or normal (4 perforation) operation immediately interchangeable; Cameblimp;

Gyroflex tripod, silent combination gyro and gear and free head with immediate declutching from one mode to another; Crab dolly. Perfectone recorders.

Personnel: J. P. Carson, Harold Dreyfus, Lea Benedetti.

Filmline Corporation

Booth 215

43 Erna St., Milford, Conn.

Exhibiting: New ND-100 Filmline portable 16mm negative/positive continuous film processor designed and engineered for major networks, completely self-contained, built of stainless steel; features friction drive with built-in overdrive system feed-in, take-off and controls at one end. Complete with replenishing system, impingement drybox, Filmline micro-venturi squeegee, spray-rinse between developer and hypo; produces at 60 fpm or 4 min. dry-to-dry cycle with one man operation.

Personnel: Edward B. Krause, John Koteas, John Grady.

Frigidheat Industries

Booth 134

P.O. Box 6037, Nashville, Tenn.

Exhibiting: New automatic thermal units for precision temperature control of processing chemicals: Model 30A-5 designed for small volumes of from 5 to 50 gallons; Model 60A-12 designed for larger volumes of up to 150 gallons of solution.

Personnel: J. O. Ewing, Mrs. J. O. Ewing.

NEW! WITHOUT BOOSTING!



**OVER 1,500,000
CENTERBEAM CANDLEPOWER!**

*ColorTran's New Quartz-Iodine,
High-Intensity*

HI-SPOT

Order code LQH10-0

- ★ *Draws only 8.3 amps, using new PAR 64 1000W 3200°K 150-hour, or PAR 64 1000W 3400°K 16-hour quartz-iodine lamps*
- ★ *Operates direct from 120V, AC/DC, without boosting*

Other ColorTran Quartz-Iodine Lights / For motion picture, TV and still photography

No boosting required. Operate directly from 120V, AC/DC.

Focusing Quartz Light — Smooth continuous focusing from spot to flood.
Quartz-King 500 — Using new B5-32 (1000W, 3200°K, 500-hour lamp) produces extremely broad, flat, smooth light.

Quartz-King Dual-Lights — (Dual-1000 and Dual-650) Wide or Medium Flood from a single housing.

Cyc-Strip — For high-intensity, even lighting of large areas, high backdrops and cycloramas.

PAR 64 Follow Spot — Produces up to 401,000 Centerbeam candlepower.

Mini-Lite — 1½ lbs., 2" deep, barndoors in 4 directions.

Back-Lite — ¼ lbs., world's first portable backlight.

IDEAL FOR:

Photo-Instrumentation

At 3', produces 44,000 footcandles in pattern 0.5' x 0.8'

Long-Throw

At 100', produces 160 footcandles in pattern 8.0' x 14.0'

Environmental Chambers

At 10', produces 13,000 footcandles in pattern 0.9' x 1.5'

WRITE FOR FULL DETAILS



630 SO. FLOWER STREET, BURBANK, CALIF.
PHONE: (213) 849-5991

COME AND SEE US AT BOOTH 203

ARRIFLEX® 35

CELEBRATES ITS

25TH
ANNIVERSARY

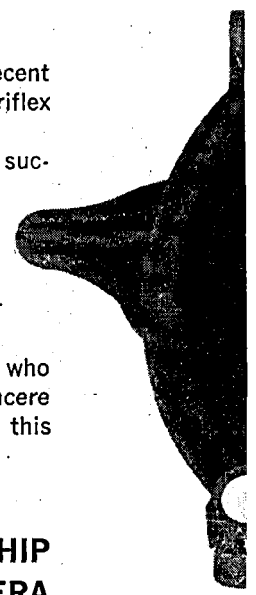
Literally born a classic, the first Arriflex 35 became commercially available in 1939. This brilliantly conceived professional motion picture camera inaugurated a new era in cinematography. The ingenuity of its original mirror-shutter reflex system is today's most imitated feature... both a tribute to, and an acknowledgement of Arriflex's leadership.

Its many exclusive features plus lightweight compact design, ruggedness and economy of operation have provided Theatre, Television, Industry, Science and Education with their most important and versatile cinematographic tool. More than any other motion picture camera, Arriflex has made possible the "new wave" of cinematography that

was the cover subject of Time magazine's recent article, "Cinema as an International Art". Arriflex was singled out in this regard.

We take pride in having contributed to the success of Arriflex in the U. S. during the past decade, and extend our heartiest congratulations on this 25th Anniversary to its originators, Dr. Robert Richter, Dr. August Arnold and Mr. Erich Kaestner chief design engineer.

And to the thousands of Arriflex owners, who have given meaning to its capabilities: Sincere thanks for your invaluable contribution to this memorable occasion.



IMPORTANT IMPROVEMENTS THAT MAINTAIN ARRIFLEX 35's LEADERSHIP AS TODAY'S MOST ADVANCED PROFESSIONAL MOTION PICTURE CAMERA

Arriflex's familiar silhouette has remained basically unchanged through the years because of its masterly original design. But many internal improvements and additions have been incorporated during the last ten years to keep pace with the demands of modern technology and motion picture industry requirements.

Among the most important improvements are:

NEW! Reflex shutter with approximately 180° shutter opening.

NEW! Magazines with larger capacities for color film and new improved film take-up mechanism.

NEW! Cardioid cam-driven transport claw for high precision film movement.

NEW! Variable shutter.

NEW! Signal generator with electric "clap-stick".

NEW! Stronger variable speed handgrip motor with "forward" and "reverse" switch.

NEW! Transistorized governor-controlled motor.

NEW! Adjustable matte box with leather bellows.

NEW! Comprehensive accessory system, from sound blimps to time-lapse mechanisms.





...celebrate with us!

YOUR TRUSTY **OLD**

ARRIFLEX 35

MIGHT BE WORTH **\$2,500⁰⁰**

If you are the owner of an old Arriflex 35 "that has seen its day", take advantage of our 25th Anniversary Offer.

We will accept up to 25 old Arriflex 35's, REGARDLESS OF OPERATING CONDITION, in trade against a new model and allow you \$250.00 towards the purchase price.

AND, IF YOURS HAS THE EARLIEST ORIGINAL SERIAL NUMBER, of the traded-in cameras, WE WILL REFUND YOUR ENTIRE PURCHASE PRICE up to a total of \$2,500.00!

So, if you have been thinking about a new Arriflex 35, take advantage of our 25th Anniversary Trade-In Celebration.

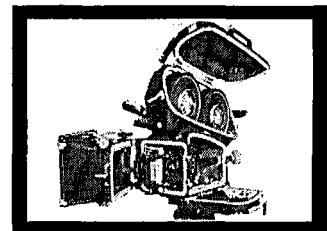
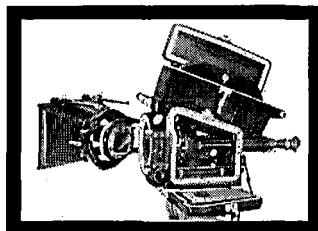
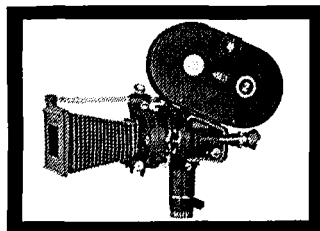
Your traded-in Arriflex might be worth \$2,500.00, or at the very least, \$250.00 if you act fast!

PARTICIPATING DEALERS:

Mark Armistead, Inc., *Hollywood*
 Behrend's Incorporated, *Chicago*
 Birns & Sawyer Cine Equipment, *Hollywood*
 Brooks Cameras & Supplies, *San Francisco*
 Camera Equipment Company, *New York*

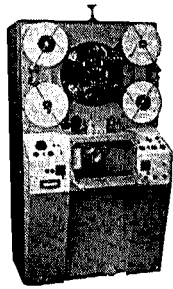
Camera Mart, Inc., *New York*
 Camera Sales Center, *New York*
 Florman & Babb, *New York*
 SOS Photo-Cine-Optics, *New York*
 Village Camera Shop, *Detroit*

NOTE: This offer is good until May 1, 1964, or until twenty-five old Arriflex 35 cameras have been traded-in—whichever occurs first. List of names and serial numbers of trade-ins will be furnished on request.

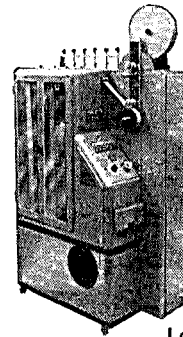


ARRIFLEX CORPORATION OF AMERICA
 257 Park Avenue South New York, N.Y. 10010

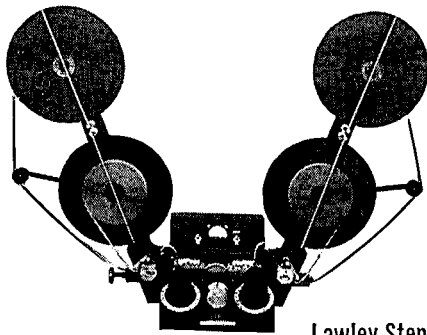
NEWMAN and GUARDIA sell international



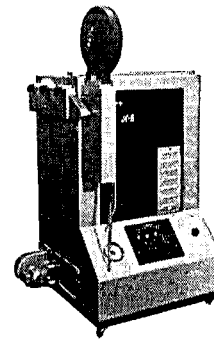
Lawley Optical Printer



Lawley Junior Processor



Lawley Step Printer



Lawlette Processor

Newman & Guardia have exported Lawley Laboratory Equipment all over the world during the past 10 years. Wherever there is a need — in film and TV studios, in Government Departments and the Armed Forces — for the processing and printing of film of any

gauge, in any quantity, negative/positive, reversal or colour, there you will find Lawley Laboratory Equipment.

In addition to Great Britain Lawley Equipment has been supplied to:

Booth No. 118

Finland
Norway
Sweden

Denmark
Germany
Poland

U.S.S.R.
Portugal
Malta

Belgium
Turkey
Kenya

France
Iraq
Gibraltar

Italy
Cyprus
Ghana

Sierra Leone
Hong Kong
Sardinia

Nigeria
Singapore
New Zealand

Malaya
Jamaica
Egypt

South Africa
Canada
India

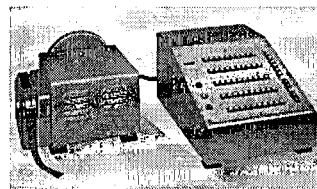
Australia
U.S.A.
Eire

Switzerland
Mauritius
Jugoslavia and 6 other countries.

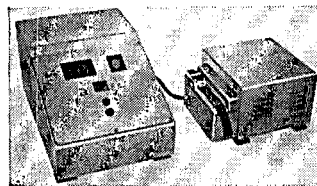
NEW HIGH SPEED ADDITIVE COLOR PRINTING

WITH
INCREASED
QUALITY
AND
AUTOMATIC
CONTROL

Bell & Howell modern research and engineering has produced this completely new additive color printing system, that permits you to deliver color prints with a color accuracy and fidelity never before possible. The new Bell & Howell Model "C" additive color printer assures color stability and control through the use of dichroic mirrors which separate a single 1,000 watt light source into the three primary beams. For scene-to-scene correction, each primary beam can be modulated through 50 steps in values of .025 Log E. In addition twenty-four points of .025 Log E values of exposure are available manually, to allow for any necessary emulsion corrections.



Program Tape Perforator



Program Tape Checker

The pre-selected color timing information is easily and quickly pre-programmed on standard computer tape, which automatically controls the Model "C" Printer. Besides scene-to-scene color changes, fade lengths of 16-24-32-64-96 frames and zero close for extended scenes are also coded on the

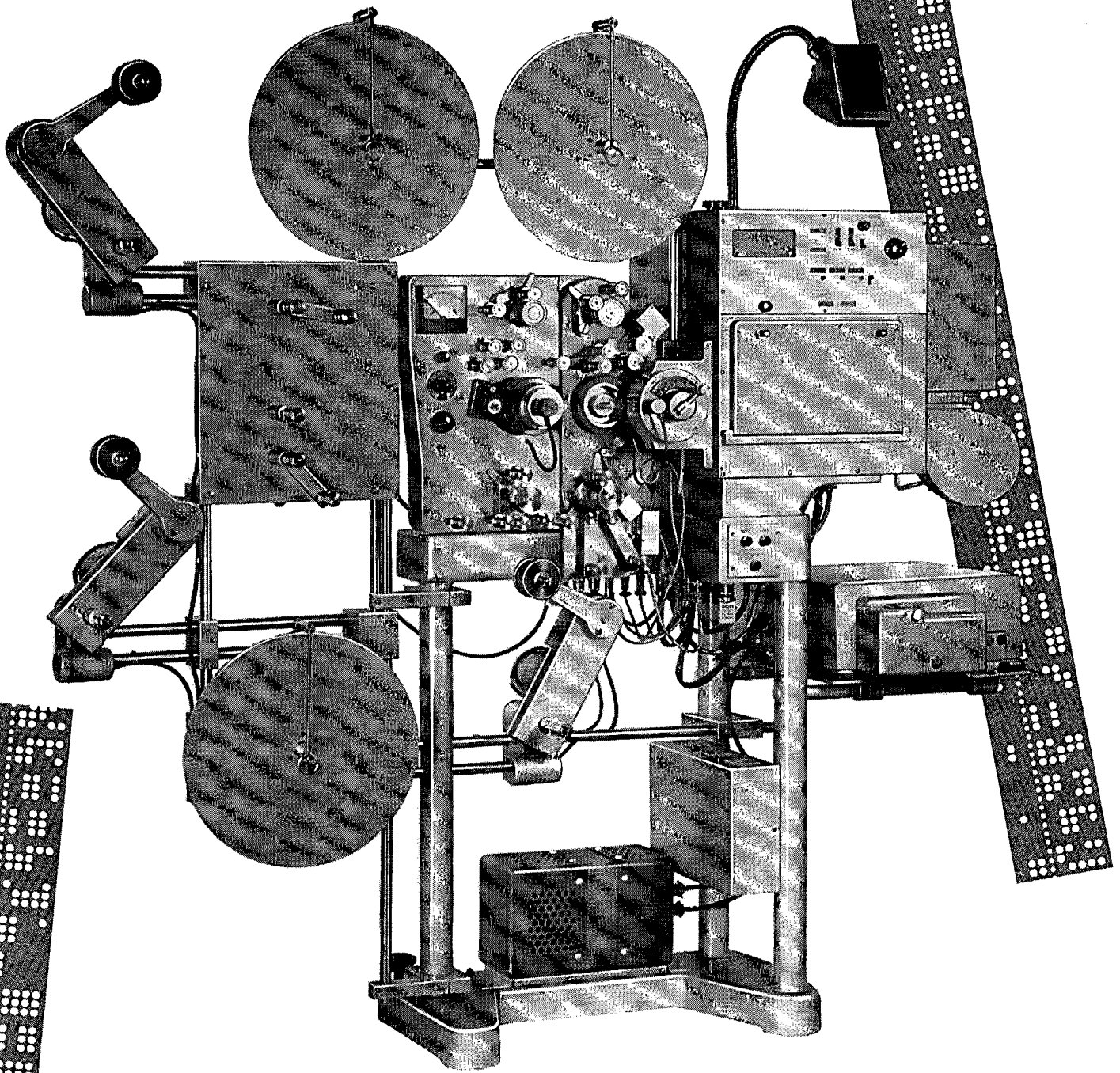
program tape to allow the production of release prints from original negatives at 180 feet per minute. All printing information can be double checked from the punched tape by an accessory tape checker-duplicator.

Other features are 2400-foot capacity . . . Single 1000-watt lamp (optional 750 and 1200), proximity reflector type . . . Edge light printing separately controlled at aperture . . . Instruments internally illuminated . . . Slow-start circuit to prevent film damage . . . Internal air pressure.

Accessories include 1000-watt rectifier . . . 16mm, 35mm and 35/32mm soundheads and RF cue kits.

Bell & Howell

PROFESSIONAL
EQUIPMENT DIVISION
7100 McCORMICK ROAD
CHICAGO 45, ILLINOIS



MODEL "C" FEATURES—Ability to make scene-to-scene color corrections . . . Six fade lengths (16-24-32-48-64-96) separately controllable by pre-punched program tape . . . Zero close to allow extended scene printing . . . Over 2000-foot capacity . . . Single 1000-watt lamp proximity reflector type . . . Edge light printing separately controlled at aperture . . . Instruments internally illuminated . . . RF cue system available as accessory to supplement standard notch cue . . . Slow-start circuit to prevent film damage . . . Internal air pressure . . . Pre-wired for sound head installation . . . Automatic stop in case of negative break.

ACCESSORIES—Tape checker-tape duplicator unit (6173C), 1000-watt rectifier (6160), RF cue kits (6395) and 16mm, 35mm, 35/32mm soundheads.

OTHER MODELS AVAILABLE—Model "MB" automatic high speed printer, for black and white or color printing (where scene-to-scene color corrections are not required). This model is pre-planned and pre-drilled for up-dating to the Model "C" at any time.

Both Model "C" and Model "MB" are available for the following sizes 16mm, 35mm, 35/32mm, 65/70mm, 70mm type I, and 70mm type II.

Demonstration Film Available

A three minute color sound film has been prepared demonstrating the additive color system of motion picture printing. Examples of color correction are shown, as well as demonstrations of the unique new light valves combined with tape controlled operation. To preview this film write or phone James L. Wassell, Director of Marketing, Bell & Howell Company, 7100 McCormick Road, Chicago, Illinois 60645, (312) OR 3-3300.

Hollywood Film Company Booths 140, 141, 142
956 Seward St., Hollywood, Calif.

Exhibiting: High speed inspection projectors; edge numbering machines; tape, overlap, repaid splicers; ultrasonic splicers; fade and light change printer units; tab applicators; Pyral magnetic stripping machine.

Personnel: Harry Teitelbaum, Ben Teitelbaum, Warren Strang, Lillian Kaye, Jim Bost.

Houston Fearless Corporation Booth 115
11801 W. Olympic Blvd., Los Angeles, Calif.

Exhibiting: PD-9 motor driven pedestal for black-and-white or color TV cameras; PD-3 pedestal for camera capacities up to 285 lbs; hi-hat for motion-picture or TV cameras; cradle heads for pedestals, tripods or hi-hats; new cam head with interchangeable cams with a horizontal tilt lock in the neutral tilt position.

Personnel: Bert Rosenberg, Gail Hildreth, Keith Walker, Art Kjontvedt, Ed Stephens.

Kollmorgen Corporation Booth 221
347 King St., Northampton, Mass.

Exhibiting: Representative sampling of the Kollmorgen projection lens line including the Snaplite projection lens.

Personnel: J. E. Brogan, L. Salig.

L-W Photo, Inc. Booth 208
15451 Cabrito Rd., Van Nuys, Calif.

Exhibiting: New Model 224-A photo-optical data analy-

zer for viewing and analyzing 16mm motion picture film with variable speed to 24 frames per second, immediate stop, single frame, all modes forward and reverse, built-in viewing screen, frame counter and electro-magnetic drive system.

Personnel: Bob Lawrence, Sam Bowerman.

Macbeth Instrument Corporation Booths 210, 227
P.O. Box 950, Newburgh, N.Y.

Exhibiting: Model TD-204 transmission densitometer, custom built (0-4) equipped with Kodak Status "M" printing density filters and visual filters for sound track; Model TD-102 (0-4) color transmission densitometer; Model TD-100 (0-3) black and white transmission densitometer; Model RD-100 color reflection densitometer; xenon short arc (XBO Series) lamps; xenon water cooled (XBF Series) lamp; mercury high pressure (HBO Series) lamps.

Personnel: Frederic McCurdy, Peter A. Jensen, Warren B. Reese, Harvey Ellis.

Magnasync Corporation Booths 213, 214
5547 Satsuma Ave., North Hollywood, Calif.

Exhibiting: Magnetic recorders/reproducers for motion-picture production in 16mm, 17½ mm and 35mm featuring the Magnasync 602 Series Recorder adapted for transferring ¼" sync-pulse material to magnetic film; complete magnetic film dubbing/interlock equipment with looping facilities, including studio type G-960 Consolette; ½" multichannel communications recorder/reproducer for 24-hour program source surveillance.

Personnel: Bob Dickinson, Jim Green, Ted Diamond.

70
franchisers
and installations
in 23 countries
around
the world



PERMAFILM, INC.

79 FIFTH AVE., NEW YORK 3, N. Y.

ALgonquin 5-5757 • Cable Address: PERMAFILMS—NEW YORK

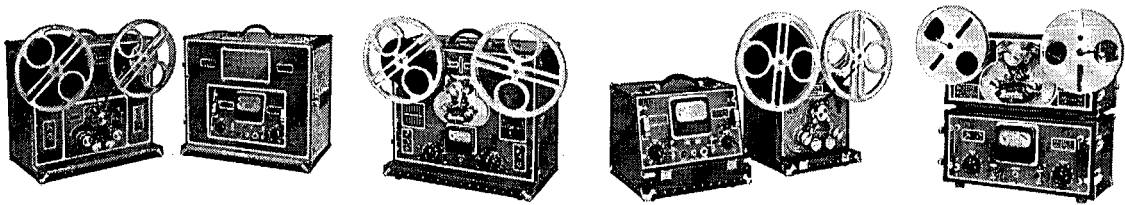
PERMAFILM of CALIFORNIA, Inc.

7264 MELROSE AVE. • HOLLYWOOD 46, CALIF.



A G A I N . . .

see the PROVEN
synchronous magnetic film
Sound Recording Systems
at the S. M. P. T. E. show!



MAGNASYNC
SYNCHRONOUS
Magnetic FILM RECORDER

Magnaphonic
SOUND SYSTEM

MAGNASYNC
CORPORATION

A subsidiary of Monogram Industries, Inc.
5547 Satsuma Avenue, North Hollywood, California
Phone: (213) TRIangle 7-5561 • Cable "MAGNASYNC"

Send for detailed literature

Magnetic Sales Corporation Booth 114
1147 North Vine St., Hollywood, Calif.

Exhibiting: Professional synchronous tape recorders for motion pictures and TV: Stellavox with Ranger or Pilote synchronizing heads, dryfit rechargeable batteries, wired for sync reproduction, bloop power, remote start and stop, and automatic mixing; Nagra three speed (15", 7½", 3¼") with Neo-Pilote synchronizing heads. Ryder synchronizing and blooming devices: synchronizing transformers, camera sync generators, blooming oscillators and remote start control for recorders and resolving equipment for Siemens projectors.

Personnel: Leon D. Selznick, Loren L. Ryder, Ronald R. Cogswell.

Metro-Kalvar, Inc. Booth 204
550 5th Ave., New York, N.Y.

Exhibiting: Metro-Kalvar 35mm filmstrip printer-processor; Metro-Kalvar 16mm motion picture printer-processor producing in normal light at a speed of 75 fpm; samples of spliced Metro-Kalvar film products.

Personnel: R. B. Lindemeyer, N. R. Bacon.

Meyer Reed, Inc. Booths 132, 133
1624 N. Cahuenga Blvd., Hollywood, Calif.

Exhibiting: Ascorights; Pathe motion picture cameras; Sinar products; color analyzers.

Personnel: H. Joe Meyer, Travis Reed, Cec Sly.

D. B. Milliken Company Booth 102
131 N. 5th Ave., Arcadia, Calif.

Exhibiting: New items: Kinescope recording camera;

automatic exposure control accessory for Milliken standard high-speed line. Complete line of 16mm high-speed motion picture cameras and accessories.

Personnel: T. H. Truesdell, L. F. Meyer, R. C. Kiteley, C. G. Holzapfel, G. A. Crandall.

3M Company Booth 135
2501 Hudson Road, St. Paul, Minn.

Exhibiting: "Scotch" Brand Video Tape No. 379; 3M Company's new video tape No. 388, designed to permit "stop-motion" on helical scan recorders capable of such.

Personnel: Robert Ferderer, A. J. Blower, E. M. Bruno.

Mitchell Camera Corporation Booth 130
666W. Harvard St., Glendale, Calif.

Exhibiting: Mitchell SSR-16 Reflex Motion-Picture Camera; Mark II 35mm Camera with Sound Blimp; professional 16mm motion-picture camera modified for high-speed photography.

Personnel: R. Bruce Hill, Edmund Di Giulio, Donald Tucker, Les Brown.

Mole-Richardson Company Booth 113
937 North Sycamore Ave., Hollywood, Calif.

Exhibiting: New quartz lighting equipment; incandescent lighting equipment; arc lighting; lighting control.

Personnel: Larry Parker, Howard R. Bell.

SMPTE CONVENTION BOOTH 114

THE MAGNETIC CENTER

for professional synchronous tape recorders

The logo for Stellavox, featuring the word "STELLAVOX" in a stylized, white, serif font with a shadow effect, set against a black rectangular background.

NAGRA

and

SYNC GENERATORS

for D-C Driven Cameras

SYNC TRANSFORMERS

for A-C Driven Cameras

CAMERA BLOOPERS

Hand held for any Camera

CAMERA BLOOPERS

Installed in any Camera

SOUND BLOOPERS

for any Recorder

SYNC TRANSFER DRIVE AMP.

for Sync Control of Sprocket Recorder

SYNC TRANSFER SERVO AMP.

for Sync Control of Tape Recorder

SYNC TRANSFER STROBE LIGHT

for Simple Manual Synchronization

WIRELESS TRANSMISSION OF SYNC

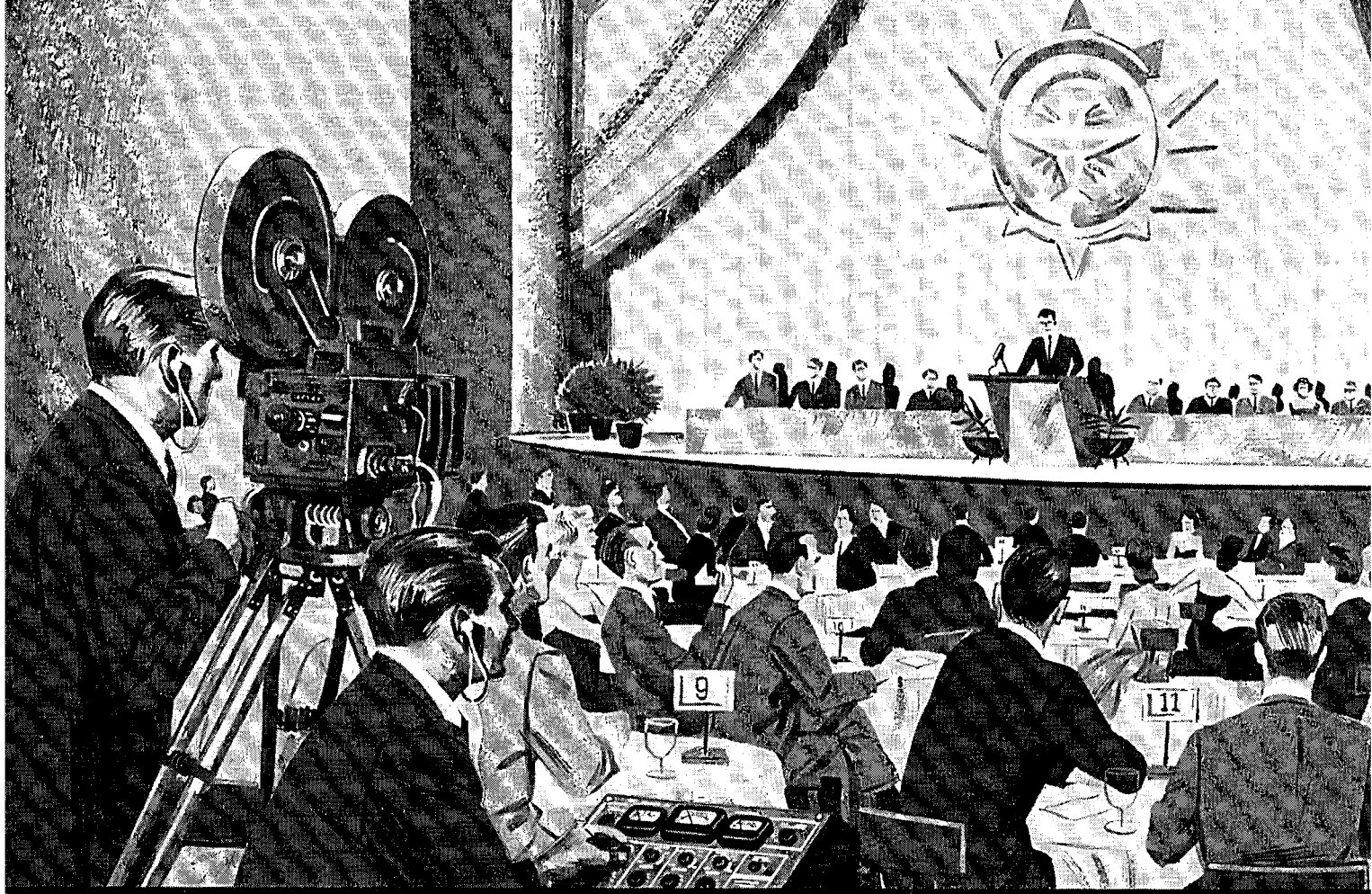
WIRELESS TRANSMISSION BLOOP

REMOTE RECORDER START

1147 North Vine Street

MAGNETIC SALES CORP.

Hollywood, Calif, 90038



**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!

VISIT US AT BOOTH 108, SMPTE SHOW

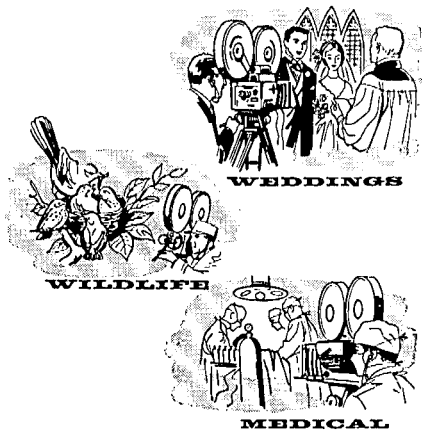
BACH AURICON, Inc.


6946 Romaine Street, Hollywood 38, California

Hollywood 2-0931

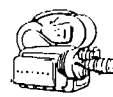
MANUFACTURERS OF SOUND-ON-FILM
RECORDING EQUIPMENT SINCE 1931

Write for your free copy of this 74-page Auricon Catalog

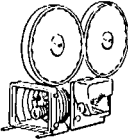




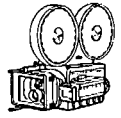
**16MM
SOUND-ON-FILM
CAMERAS**



CINE-VOICE II
\$998.50 & UP
100 ft. Runs 2¾ min.



AURICON SUPER-1200
\$5667.00 & UP
1200 ft. Runs 33 min.



AURICON PRO-600
\$1871.00 & UP
600 ft. Runs 16½ min.

Motion Picture Printing Equipment Co. Booth 126
8107 N. Ridgeway Ave., Skokie, Ill.

Exhibiting: New Peterson single and double head contact printers in 16mm and 35mm. Accessories: semi-automatic shutter; push button shutter; four speed fade unit; sound printing head; printer light probe; Peterson R. F. Cueing System; patch applicator.

Personnel: Walter Peterson, Bruce Peterson, William Morris.

Moviola Manufacturing Co. Booths 235, 236
5539 Riverton Ave., North Hollywood, Calif.

Exhibiting: Bench editing arrangement for video tape, including hand rewinds, power rewinds, and sound reader equipped with timer counter; Moviola's new editing table with latest model hand rewinds incorporating greater efficiency braking attachment and swivel base; Moviola automatic power rewinds for coring and rewinding 16mm, 35mm, and 70mm film automatically; library readers for reviewing 16mm film at high speed or sound speed; Moviola crab dolly and film editing machine; bench editing arrangement for 16mm film with motor drive for synchronizers to transport track at sound speed.

Personnel: Mark Serrurier, Al Romoli, Bruce Dalton, George Kendall.

Neumade Products Corporation Booth 112
250 West 57th St., New York, N.Y.

Exhibiting: New items: Super "X" power film re-winder; imprinted non-emulsion colored film leader. Storage facilities for film, video tape, audio tape,

disc records, filmstrips, slides; film handling equipment.

Personnel: Lee E. Jones, Robert E. Hempel, Ronald N. Jones.

Newman & Guardia Ltd. Booth 118
Edinburgh Way, Harlow, Essex, England

Exhibiting: Processing machines: Lawlette color model, smallest machine permitting color film processing to professional standards, rearrangement of tank links allows nearly all color films to be processed; Lawlette high-speed model for high-speed and documentary film processing. Continuous printer.

Personnel: S. G. Fitch, L. H. Howes.

Oxberry Corporation Booth 105
38 Hudson St., New Rochelle, N.Y.

Exhibiting: Inspection projector: Oxberry Model 40-B 16mm high-speed film inspector permits rapid inspection of film continuously at variable speeds, forward and reverse, with optical rotary intermittent to eliminate damaged sprocket holes; Oxberry Series 100 portable film processor for 16mm or 35mm black-and-white film, small low cost developing machine designed to give highest quality compatible with size limitation, 12" wide, 18" long, 2' high.

Personnel: Ralph D. Whitmore, Jr., Robert Troy.

W. A. Palmer Films, Inc. Booth 110
611 Howard St., San Francisco, Calif.

Exhibiting: Palmer television film recorder including

TYPE 92B PLAYBACK SYNCHRONIZER FOR SYNCHRONIZATION OF 1/4" TAPE IN PLAYBACK WITH SPROCKET DRIVEN FILM



Responsible for tape to film transfer? Check out this addition to the distinguished MTE line of synchronizing equipment. You'll find no other gives you all of the 92B's important benefits:

WIDE RANGE, can correct speed deviations of +20% to -20% from sync speed.

CONTINUOUS DISPLAY OF SYNC CONDITION so user knows exactly whether tape is in sync. Oscilloscope semi-circle pattern moving clockwise indicates tape speed fast, counter-clockwise indicates tape speed slow, semi-circle standing still indicates precise sync speed. In addition, Comparator-driven dial registers % deviation from 7 1/2 or 15 i.p.s. normal speed.

SYNC SIGNAL LEVEL IS INDICATED BY VU METER, an Attenuator provides for boosting weak signals 20 DB. Also a Volt Meter indicates voltage to capstan motor.

HAS MEMORY if sync signal is lost, tape runs at last sync-controlled speed.

ADVANCING OR RETARDING TAPE TO LIP-SYNCHRONISM with picture, when screening, is achieved with a Spinner Knob Framing Control.

VERSATILE REMOTE CONTROLS for operating tape recorder at the Synchronizer are incorporated.

FULLY AUTOMATIC. Choice of automatic speed control for sync transfer work or manual speed control for special effects, pitch change, trimming time spots, etc.

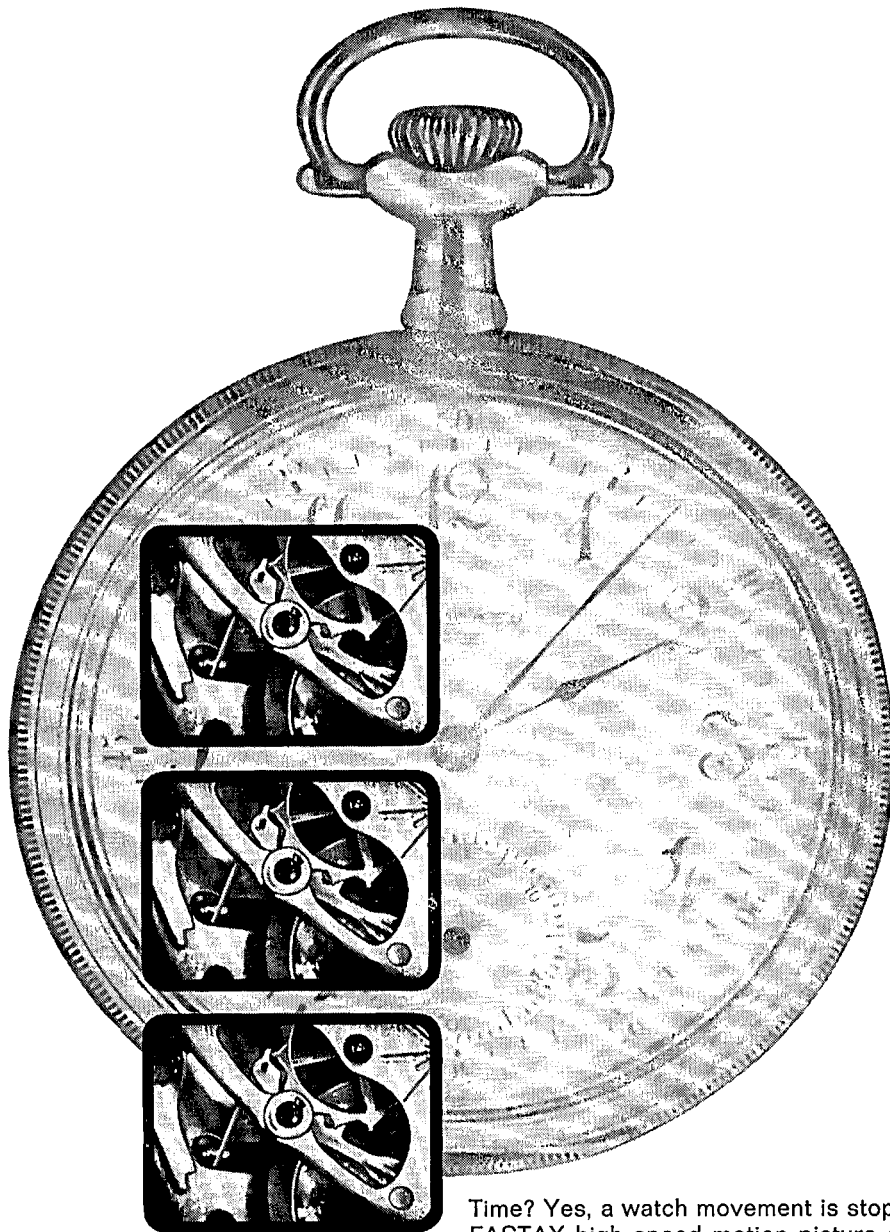
COMPACT. All solid state. Entire 92B unit mounts in 12 1/4" of rack space, weighs 38 lbs.

COMPATIBLE. Can be used with tape transports including Ampex 350, 351, 354, 300, 400, and others. Uses 60 cycles or 14KC control track supplied by MTE type 87, 88, or any other control track generators, or sync head.

ECONOMICAL. High utility in film studios, music studios, in-plant film production facilities. Solid state reliability eliminates maintenance.

M.T.E.

MAGNA-TECH ELECTRONIC CO. INC.
630 9TH AVE. N.Y. 36, N.Y.

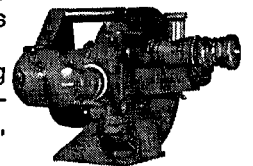


TIME STOPPED COLD!

Time? Yes, a watch movement is stopped cold by a Wollensak FASTAX high speed motion picture camera. When these pictures are projected there is no question what is happening. High speed photography was the way engineers saw motion of the escapement when it engaged pins on the fork . . . made certain there was no bounce.

FASTAX camera studies are helping solve motion, vibration and stress problems in electrical, mechanical, chemical, medical and physical fields.

See for yourself how speeds up to 18,000 pictures per second absolutely stops action. Clip the coupon for action.



REVERE-WOLLENSAK DIVISION
563 HUDSON AVE., ROCHESTER 21, N. Y.

Please send me your

- Brochure F100 on High Speed Photography.
- Folder showing camera models and capacities.

Name

Company

Address

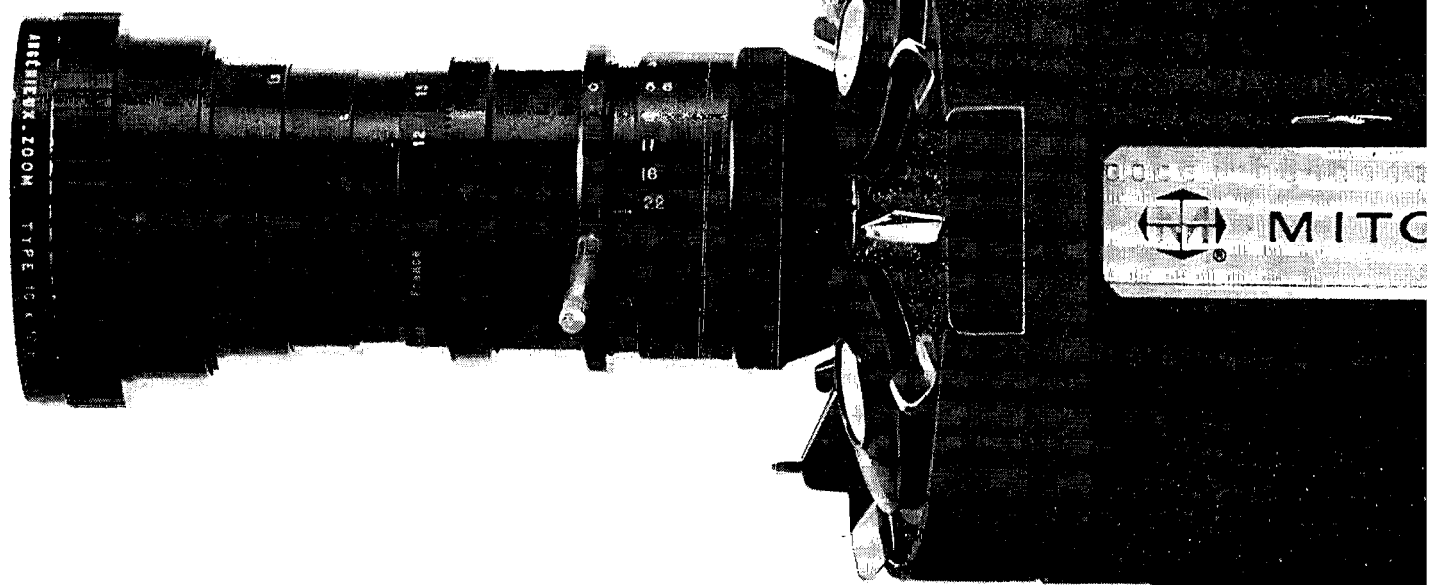
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Revere-Wollensak Division **3M** COMPANY

COME AND VISIT US AT BOOTH 223, SMPTE SHOW

March 1964 Journal of the SMPTE Volume 73

This is the first truly professional



Totally new and totally *Mitchell!* The remarkable SSR-16 combines famed Mitchell pin-registered precision with superb reflex viewing and single-system magnetic sound—in a professional camera that is truly lightweight, portable, flexible and simple to operate. Hand-held or tripod-mounted, the SSR-16 is ideal as a general purpose camera, and virtually noiseless. It is *unsurpassed* for on-the-spot sound filming: news, sports, documentaries, military combat, special events. It accommodates standard 16mm 400-ft. and 1200-ft. magazines and the majority of standard films, lenses, mounts, and accessories. It's available with interchangeable motors, and with a pic sync for conversion to double system sound. For high quality professional film work, the SSR-16 is in a class by itself—in the finest Mitchell tradition! Write for illustrated brochure.



NEW MITCHELL SSR-16

SEE THIS REMARKABLE DEVELOPMENT AT THE 95TH ANNUAL SMPTE TECHNICAL CONFERENCE/APRIL 13-16, AMBASSADOR HOTEL, BOULEVARD ROOM, LOS ANGELES, CALIF.

16mm camera with magnetic sound

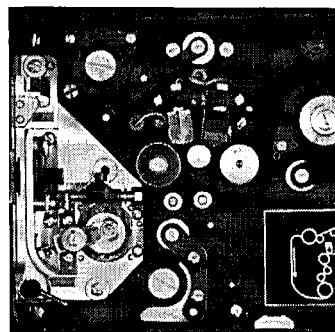
HELL R-16
Single System



Through-the-lens-viewing. Focus tube reflex viewfinder has 10X magnification eyepiece, coupled to rotating 170° focal plane shutter with 1/51 fixed exposure time at 24 fps. Bright image is larger than aperture. Three-lens turret accommodates many standard lenses and zoom lenses with quick-change mounts.



Professional controls. All controls are located at rear of camera, including on-off switch, 4-digit footage counter and reset, film tach, buckle trip reset, and quick release connectors for power and sound. SSR-16 operates on light weight, rechargeable battery pack or external AC power supply.



Mitchell movement. Film threading is quick and easy with only three drive sprockets. All guides and locks are interlocked with compartment door to prevent misthreading. Single registration-pin and single pull-down claw hold film within a frame-to-frame tolerance actually better than available film perforations.



Magnetic sound recorder. Operates with any 100 mil prestriped film. Separate 12-lb. unit provides 2 microphone inputs plus high impedance channel with input channels independently controlled in mixer. Full monitoring and playback capability included as well as self-contained power supply.

SINGLE SYSTEM REFLEX

Mitchell Camera Corporation, 666 West Harvard Street, Glendale, California

camera, monitor and sound recording unit producing 16mm film from broadcast or closed circuit transmission, or tape playback; Palmer 2400' Magazine.

Personnel: William Palmer, Stewart Macondray, John Corso.

Photo Research Corporation Booth 109
836 N. Cahuenga Blvd., Hollywood, Calif.

Exhibiting: New Spectra TV Optoliner for vidicon image orthicon and color TV camera systems, provides test instrument for standardization of TV systems and self-contained illumination and interchangeable test patterns, mounted to tolerances of 0.002; Spectra Miniature TV Camera.

Personnel: Karl Freund, James K. Branch, Gideon Fiat.

Photo-Sonics, Inc. Booths 138, 139
820 So. Mariposa St., Burbank, Calif.

Exhibiting: 70mm full frame (2.25" × 2.25") camera—180–360 fps; 70mm full frame (2.25" × 2.25") camera high-speed intermittent, 10 to 80 fps; 70mm ballistic synchro camera; 35mm high-speed rotary prism camera; 16mm high-speed rotary prism camera, 3 models; 16mm thin line, underwater high-speed camera; tracking mount.

Personnel: John Kiel, Darrell Lassiter, R. W. Lorenzen.

Plastic Reel Corporation of America Booth 218
612 Blvd. East, Weehawken, N.J.

Exhibiting: 8mm plastic film reels—all sizes; 16mm plastic Reels-Plio-Magic film reels, 50'–2200'; 8mm

& 16mm Reel-Paks, reel and can combination, 50', 200' & 400'; 16mm and 16/35mm processing spools; bushings.

Personnel: Walter Elterman, Allen Braverman.

Precision Laboratories Div. Booth 217
Precision Cine Equipment Corp.
928-930 E. 51 St., Brooklyn, N.Y.

Exhibiting: Precision Sound Readers, optical and magnetic; Precision Unitized Synchronizers; power film slitters; film slitter and editing equipment, including editing tables.

Personnel: Irwin R. Sheldon.

Prestoseal Manufacturing Company Booths 121, 122
37-12 108th Street, Corona, N.Y.

Exhibiting: New items: Automatic film/tape splicer for 16mm-35mm film with push button control, interchangeable splice programmer, and built-in splice tester, models for magnetic film and video tape, choice of butt, reinforced or overlap splicing; Splicing console with remote variable speed control winders, editing light and storage. Standard splicers: Hercules Intermix reinforced for splicing dissimilar film bases; Miracle Model Butt-weld.

Personnel: Leonard A. Herzig, Hans E. Baumayr, M. Michael Cerick.

Producers Service Company Booths 123, 124, 125
1145 N. McCadden Pl., Hollywood, Calif.

Exhibiting: The new Acme triple head special effects optical printer equipped with electro-mechanical

**ALL FILM
IS SUSCEPTIBLE
to scratches and
abrasions...**

Scratches can, and often do, occur during the first run—subsequent use and handling make such blemishes more and more apparent.

Motion picture film is not, and cannot be made, scratch-proof—

BUT

COMPREHENSIVE FILMTREAT REJUVENATION

restores originals and prints to their initial, scratch-free condition.

COMPREHENSIVE Rejuvenated prints are shown in first-run theatres throughout the world. Rejuvenated film stands up in repeated use like new film.

COMPREHENSIVE Filmtreat Rejuvenation costs you so little, saves you so much.

Write for literature and prices.

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FILMTREAT**

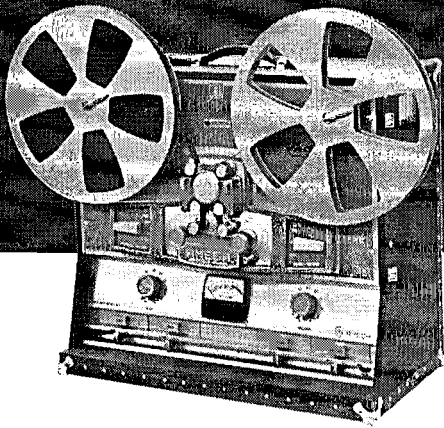
421 West 54th Street,
New York 19, N. Y.

829 No. Highland Avenue,
Hollywood 38, Calif.

1964 Brings *VERSATILITY* in the

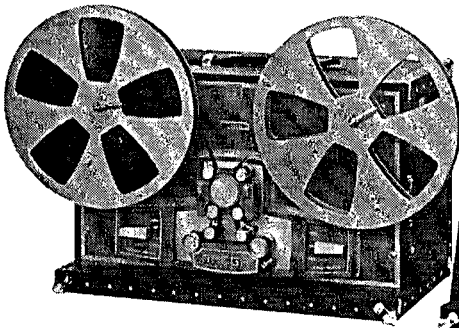
AMEGA SOUND SYSTEMS

All recorders, dubbers and mixers have plug-in head assemblies and plug-in amplifiers which are interchangeable from one unit to the other.



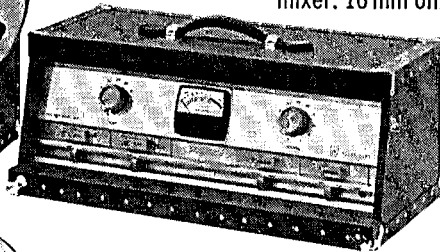
RECORDER MODEL A-1 PORTABLE OR STUDIO

Lightweight single case complete record-play system up to date for 16 mm production.



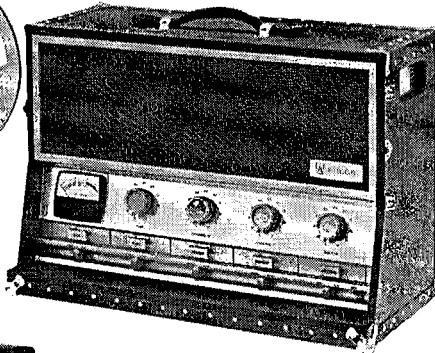
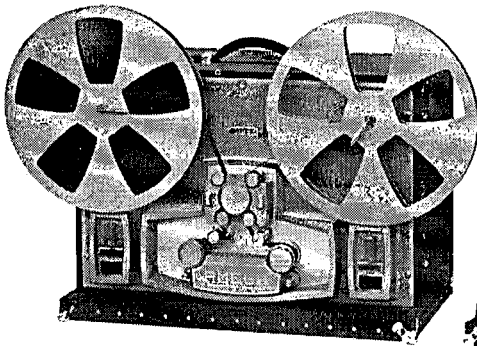
RECORDER MODEL A-2 PORTABLE OR STUDIO

Two case complete synchronous recorder with amplifier-mixer. 16 mm only.



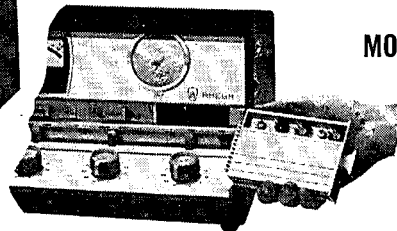
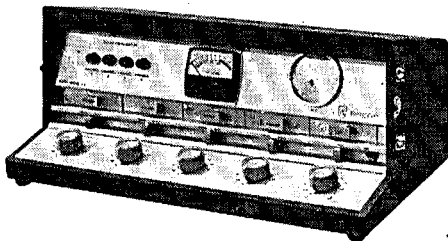
Recorders priced from \$1300.00
Dubbers priced from \$900.00

SEE US AT BOOTHS 230, 231



RECORDER MODEL M-2 PORTABLE OR STUDIO

The M-2 recorder has two microphone input channels, plug-in amplifiers and many other outstanding features. Available 16mm, 17½mm and 35 mm.



MODEL E-1 MIXER 4 CHANNEL MIXER FOR PORTABLE OR STUDIO USE

Module amplifiers feature "space age" enclosure which plugs into the front panel of all AMEGA recorders and mixers.

Complete line of selsyn, sync-selsyn and interlock motors compatible with all equipment.

SEE YOUR DEALER OR WRITE FOR DETAILS.



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AMEGA

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AN AFFILIATE OF OMEGA ENGINEERING COMPANY

Cable Address: AMEGAMAG North Hollywood, California

servo systems that operate the automatic follow focus for both the camera and the aerial image projector; Acme 16/35 combination cameras and projectors; adaption of the Bell & Howell additive color head to step printing.

Personnel: Mike McGreal, Oscar Jarosch, Howard Pearson.

Quick-Set, Inc. Booths 103, 104
8121 N. Central Park, Skokie, Ill.

Exhibiting: New models: Gibraltar cradle heads for movie and TV work; vibration-free dollies with special jack screws for lifting wheels off floor. Super Quick-Set, Samsom, Hercules, and Gibraltar complete line of tripods, pan heads, dollies, etc., for photographic, television, remote control, high-speed or instrumentation usage; units capable of handling loads from 5 to 200 lb on pan heads and elevators, and 500 on tripods. The units include $\frac{3}{4}$ and full length, with or without elevators, pan-heads incorporating friction and/or geared controls, power and hand operated pedestals and consoles. Accessories include Pelco adapters, special apparatus for easier attachment of heavy cameras, and Lo-Hi units.

Personnel: A. J. Briglia, Paul Mooney.

Red Lake Laboratories, Inc. Booth 128
564 San Xavier Ave., Sunnyvale, Calif.

Exhibiting: 16mm High-Speed Motion-Picture Cameras and Accessories: 16mm \times 100' Hycam, variable from 10 to 8500 pps for full-frame 16mm and 20 to 17,000 pps for 8mm model; new 16mm \times 400'

Hycam, variable from 16 to 10,000 pps for full-frame 16mm and 32 to 20,000 pps for 8mm version.

Personnel: Robert D. Shoberg, Ted F. Meyer, Jr.

Research Products, Inc. Booth 136
716 N. LaBrea Ave., Hollywood, Calif.

Exhibiting: New custom built optical effects printer for Acme 70mm, 35mm, 16mm, or 8mm projectors and cameras. Engineered to meet any specific type of work, the basic printer encompasses a new modular, replaceable drive system, unlimited sequencing for skip frame printing, a new type lamp house and projector head assembly.

Personnel: Harold A. Scheib, Jack Glass.

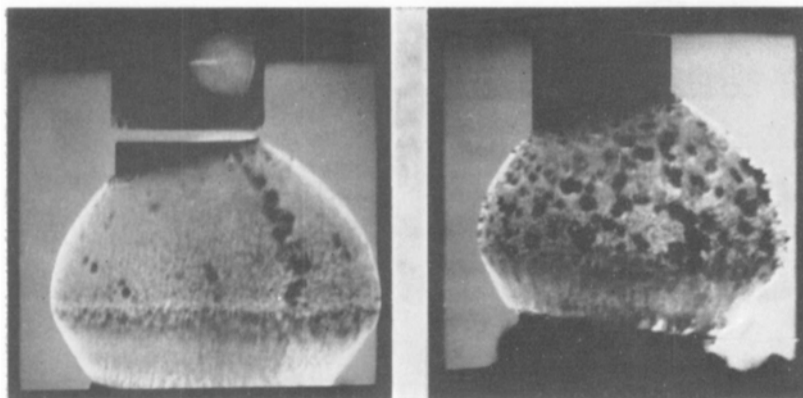
Revere-Wollensak Div., 3M Company Booth 223
725 Hudson Ave., Rochester, N.Y.

Exhibiting: High-speed photography and radar bore-sighting equipment: Fastax high-speed cameras; Mirrotel radar boresights; related photo-instrumentation products.

Personnel: Fred M. Emens, Richard J. Wollensak, Robert B. Herden, Charles B. Wade, Thomas H. Bowman.

S.O.S. Photo-Cine-Optics, Inc. Booth 220
602 W. 52nd St., New York, N.Y.

Exhibiting: Tel-Amatic closed circuit TV transistorized camera; Sound Seal portable fiber glass blimp for the Arri 16mm camera; Transist-O-Sound wireless microphone system for television news sound on film reporting; S.O.S. Tel-Amatic 16mm con-



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This latest volume in SMPTE's high-speed photography reprint series brings up to date an authoritative record that the Society began publishing in 1949. The papers—many of which have been supplemented since their original publication in this Journal—cover these topic areas:

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- Space Technology and Image Sensing
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SMPTE Conference in Los Angeles*

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or write for information
about our:*

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FADE UNIT

LIGHT PROBE

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PATCH APPLICATOR

Motion Picture Printing Equipment Company

8107 NORTH RIDGEWAY AVENUE SKOKIE, ILLINOIS

tinuous contact printer; two position transistorized mixer for Auricon sound-on-film amplifiers; S.O.S. Tel-Animaprint hot press.

Personnel: Alan C. Macauley, Jan T. Macauley, Dom J. Capano.

Spindler & Sauppe, Inc. Booth 209
2201 Beverly Blvd., Los Angeles, Calif.

Exhibiting: Complete line of selectroslide automated 2 x 2 in. slide projection equipment including projectors for manual, remote forward/reverse, remote digital readout of the slide number, and remote random access operation; 2 models designed for multiplex and uniplex operation in closed-circuit and broadcast television.

Personnel: Norman A. Sauppe, Paul Weichhart.

Stancil-Hoffman Corporation Booth 219
921 N. Highland Ave., Hollywood, Calif.

Exhibiting: New magnetic film recorders: Model S6 for 16 or 17-1/2mm with low power consumption for field operation and silicon NPN low noise transistors in the amplifier systems; Model S7 heavy duty unit with synchronous and electrical interlock drive.

Personnel: William V. Stancil.

Stewart Filmscreen Corporation Booth 205
1161 W. Sepulveda Blvd., Torrance, Calif.

Exhibiting: Stewart seamless projection screens: Ul-

tramatte front projection screens for theaters and review rooms; Stewart T-Matte Blue and Stewart Hi-Tran screens for rear projection and motion-picture production; Stewart TV-Blue for TV background projection; rigid rear projection screens for in-wall and console installations; Porta-Pro portable screens; complete framing systems; examples of World's Fair installations.

Personnel: La Mar Roy Stewart, Marshall E. Stewart, Roy C. Stewart, Patrick H. Stewart.

Sylvania Electric Products, Inc. Booth 233
730 3rd Ave., New York, N.Y.

Exhibiting: Complete line of existing Sylvania professional lighting equipment for studio and location use including the redesigned battery portable unit; new items; iodine lamps.

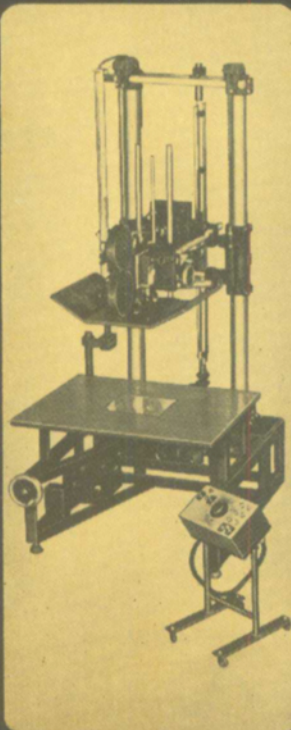
Personnel: Edward A. Gilchrist, Richard H. Lindeberg, George Mulcahy, Dr. Robert Levin.

Traid Corporation Booth 137
17136 Ventura Blvd., Encino, Calif.

Exhibiting: Consolidated Systems Corp. 'gun camera line: Models KS-27B, KB-3A, KD-7; new daylight load 100 ft. magazine for gun cameras. Vanguard motion analyzer with automatic readout to Clary printer; Automax data recording cameras; Photo-Sonics high-speed cameras Models 16mm-1B and 16mm-1B/AC; new "G" load Adtrol timing light generator for high-speed cameras.

Personnel: Robert King, Dick Freeborg, Carlos Elmer, Mike Schuster.

OXBERRY™ sets the standard in the Animation and Filmstrip industries



◀ The OXBERRY FS-4300 Filmstrip Stand features — automatic focus, remote control rackover with reticle projection, 1:1 capabilities. Now available with—

Variable time exposure of shutter to handle new high quality slow speed color stock

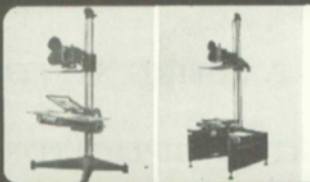
Converts to MP-4200 Animation Stand by addition of compound

The OXBERRY Model 20-B Camera for the above equipment features OXBERRY's proven system of interchangeable single and double frame 35 and 16mm components.

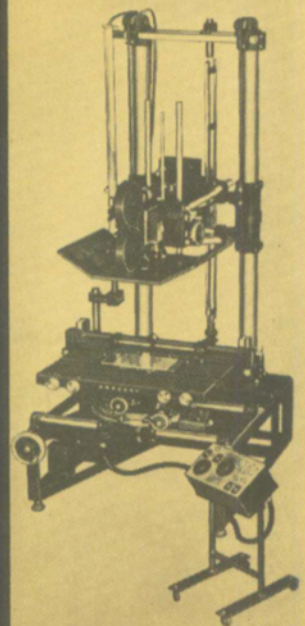
▶ The OXBERRY Master Series MP-4200 Animation Stand has over 200 accessories available to tailor the equipment to meet specific studio requirements and budgets. Now available with—

Automatic cel cyler

Electronic controls interlocked for shooting coordinated pans with zooms



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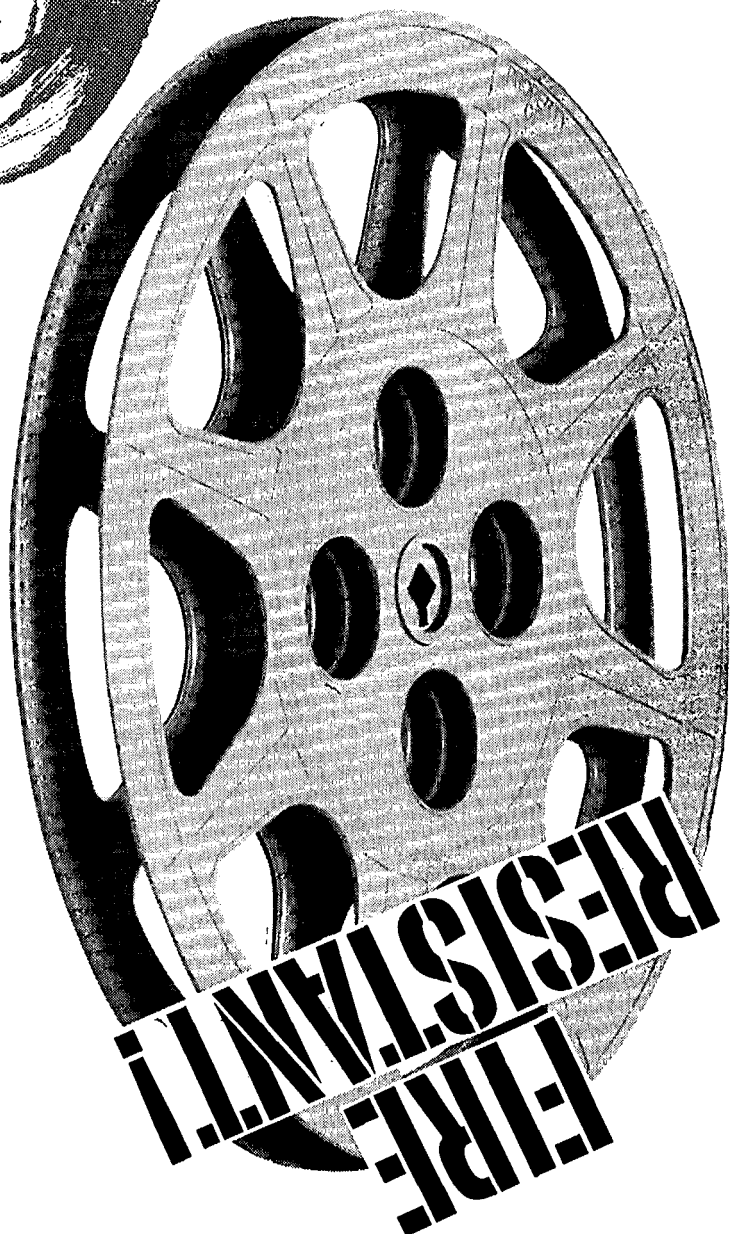
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TROUBLE-FREE PERFORMANCE YEAR AFTER YEAR, SAVINGS YEAR AFTER YEAR, BECAUSE THEY ARE MADE OF SPECIAL COMPOSITION PLIO-MAGIC MATERIAL, THEY WON'T CUT OR CRIMP FILM...CAN'T RUST...OR DENT OR BE BENT OUT OF SHAPE. THEY NEVER SCRATCH FILM OR TAPE AND THEIR LIGHT WEIGHT MAKES THEM EASY TO HANDLE, ECONOMICAL TO SHIP.

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SAVE MONEY WHEN YOU USE THEM!

St. Magic
WITH EXCLUSIVE FILM REELS YOU...



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SEE US AT BOOTH 218!

We've some interesting things to SHOW you... and a FREE GIFT to GIVE you... so stop in!

(SMPTE Exhibit, April 13-16, Ambassador Hotel, Los Angeles)

Treise Engineering, Inc. Booths 211, 212
1949 First St., San Fernando, Calif.

Exhibiting: Film processing machine; film sprockets; waxer; spools and spool bearings; sound track applicator; air squeegees; heat exchanges.

Personnel: J. Carl Treise, Paul Sparre, Ken Bell.

XeTron Div., Carbons, Inc. Booth 228
400 Myrtle Ave., Boonton, N.J.

Exhibiting: Complete XeTron line of xenon lamphouses and power supplies: JX modification kit to convert Jan projector for xenon operation with 450 watt bulb; CX-9 lamphouse for small format slide, 16mm and 35mm projection; "300" lamphouse with 900 or 1600 watt bulb for 16mm or 35mm projection; "400" lamphouse with 1600-2500 watt bulb for

35mm or 70mm projection; Christie-XeTron power supplies.

Personnel: Frank H. Riffle.

Zoomar, Inc. Booths 116, 117
55 Sea Cliff Ave., Glen Cove, N.Y.

Exhibiting: Zoom lenses for motion picture cameras: Angenieux 16mm and 35mm; and new 24-240mm with viewfinder for Mitchell NC and BNC cameras; remote controlled for Vidicon cameras including new zoom lens with zoom range of 1:20 (15-300mm focal length for Vidicon cameras, and 12-240mm focal length for motion picture frame). Electric zoom drives for 16mm and 35mm motion picture lenses.

Personnel: Walter Steuer, Claire Redman, Martin Miller.

Education, Industry News

The Inter-Society Color Council will hold its 33rd Annual Meeting May 4-5 at the Statler Hilton Hotel, New York. Committee reports will be made during the first day of the meeting and a symposium on the general subject of Color in Education has been arranged for the second day by the Council President, William J. Kiernan. Symposium moderator will be F. L. Wurzburg, Jr., Speakers, and their subjects, will be George Kay, Color Education in Art; Samuel Schenberg, Color Education in Science; Randall M. Hanes, Color: A Guide to Basic Facts and Concepts; and Prof. Isay A. Balinkin, Two Worlds of Color — Or One. Further information is available from Ralph M. Evans, Inter-Society Color Council, Eastman Kodak Co., Photographic Technology Div., Bldg. 65, Rochester, N.Y. 14650.

The 1964 IEEE International Convention will be held March 23-26 at the Hilton Hotel and the Coliseum in New York. Theme of the Convention will be "A Glimpse of the Future." An attendance of more than 75,000 engineers and scientists from 40 countries is expected. An total of 320 papers covering latest developments in every area of electrical and electronics engineering is scheduled for the technical program, which includes 64 technical sessions. A high point of the program will be a special evening symposium on "Modular Magic" to be held March 24. A panel of outstanding authorities, moderated by Patrick Haggerty, President of Texas Instruments, Inc., will discuss the impact of processes and techniques for fabricating microelectronic integrated circuits. Chairman of the General Committee is G. W. Bailey. Technical Program Committee Chairman is Ferdinand Hamburger, Jr. Information about the IEEE Convention is available from The Institute of Electrical and Electronics Engineers, Inc., Box A, Lenox Hill Station, New York 21, N.Y.

The First International Conference of Women Engineers and Scientists will be held June 15-21 in New York. It is sponsored by the Society of Women Engineers and the theme will be "Focus for

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