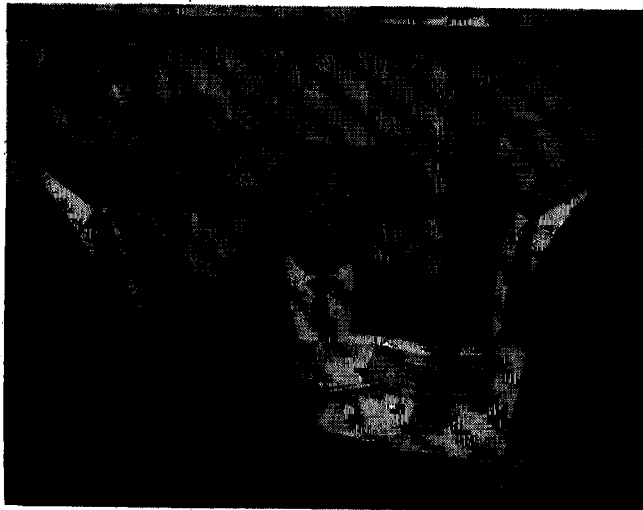


Exhibit Directory



George Kendall, Exhibit Chairman; Harry Teitelbaum, Convention Vice-President; and Ralph E. Lovell, Local Arrangements Chairman.

Ampex Corp. Booths 211, 212, 213
Redwood City, Calif.

Exhibiting: Ampex Model VR-1000C Videotape* Recorder equipped with AMTEC Intersync, Colortec and Electronic Editor accessories. Ampex/Marconi Mark IV 4½-in. I.O. Camera Channel will also be shown together with the latest in professional broadcast audio recorders. Ampex-manufactured VIDEOTAPE* for television recording will be a feature, plus a complete line of professional audio tape.

*TM Ampex Corp.

Personnel: Jack V. Miller, Robert Day, Al Sroka.

Animation Equipment Corp. Booth 103
38 Hudson St., New Rochelle, N.Y.

Exhibiting: Latest designs of OXBERRY Optical Printers and Animation Stands. Aerial-image and beam-splitter projection heads for the OXBERRY Printer, making it possible to compose visually and photograph in one exposure a matte process. Aerial-image unit for the OXBERRY Animation Stand, for combining live action and animation in a single exposure without the necessity of a matte.

Personnel: Robert Troy, Edward Willette, John R. Eichholtz, Jack Silberlicht.

Arriflex Corp. of America Booths 139, 140
257 Park Ave. South, New York 10, N.Y.
7303 Melrose Ave., Los Angeles 46, Calif.

Exhibiting: The latest model Arriflex 16 with new series of Zeiss Planar lenses, and a new combination shoulder pod-pistol grip. New model Arriflex 35, IIB-S, for framing speeds up to 80 frames/sec. New 24-v d-c governor-controlled

motor on a geared base. New Cooke lens, a 25mm Speed Panchro, Series III. New Schneider 100mm Cine Xenon lens. Accessories for the Arriflex line, including new series of intervalometers with enlarged capability in time-lapse filming, and a new 14-cell Voltabloc battery with built-in Minicharger.

Personnel: Dr. Robert Richter, Paul Klingenstein, Victor James, Michael Zois, Abbott Sydney.

Bach Auricon, Inc. Booth 101
6946 Romaine St., Hollywood 38, Calif.

Exhibiting: Professional 16mm sound-on-film motion-picture cameras and associated electronic recording equipment and accessories.

Personnel: L. H. Salter, W. C. Mayfield, H. G. Stephens, P. P. Waldeck, J. A. Somers.

Beckman & Whitley, Inc. Booths 107, 108
993 E. San Carlos Ave., San Carlos, Calif.

Exhibiting: Model 200 Simultaneous Streak & Framing Camera: The only ultra-high speed camera in the world that will simultaneously record streak and framing records of the same event from the same point of view, through one objective lens, on the same time base; Model 200 simultaneous records enable finer event-analysis than is possible with either a framing or streak record alone. Model 364 Random-Event Oscilloscope Camera: Special ultra-high-speed drum camera for oscilloscope recording of high-speed, nonperiodic waveforms; features: frequency response 700 KC; continuous image; 7 to 350 milliseconds recording time; daylight film loading. Also entire line of ultra-high-speed photoinstruments: framing cameras, streak cameras and time-resolved spectrographs.

Personnel: Myron B. Baldwin, Jack M. Patterson, Gene Peterson.

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

Exhibiting: A new concept in continuous additive color printing. Featuring 3 speeds and incorporating 6 fade lengths plus zero cut, the new printers have 50 light steps in each color automatically controlled plus 23 steps of emulsion correction. Other features include self-adjusting torque tightwinds, break switches, etc. Other black-and-white models will be shown which can readily be converted to color.

Personnel: Jim Wassell, John Terry, Malcolm Townsley, Dr. Hans Wohlrab.

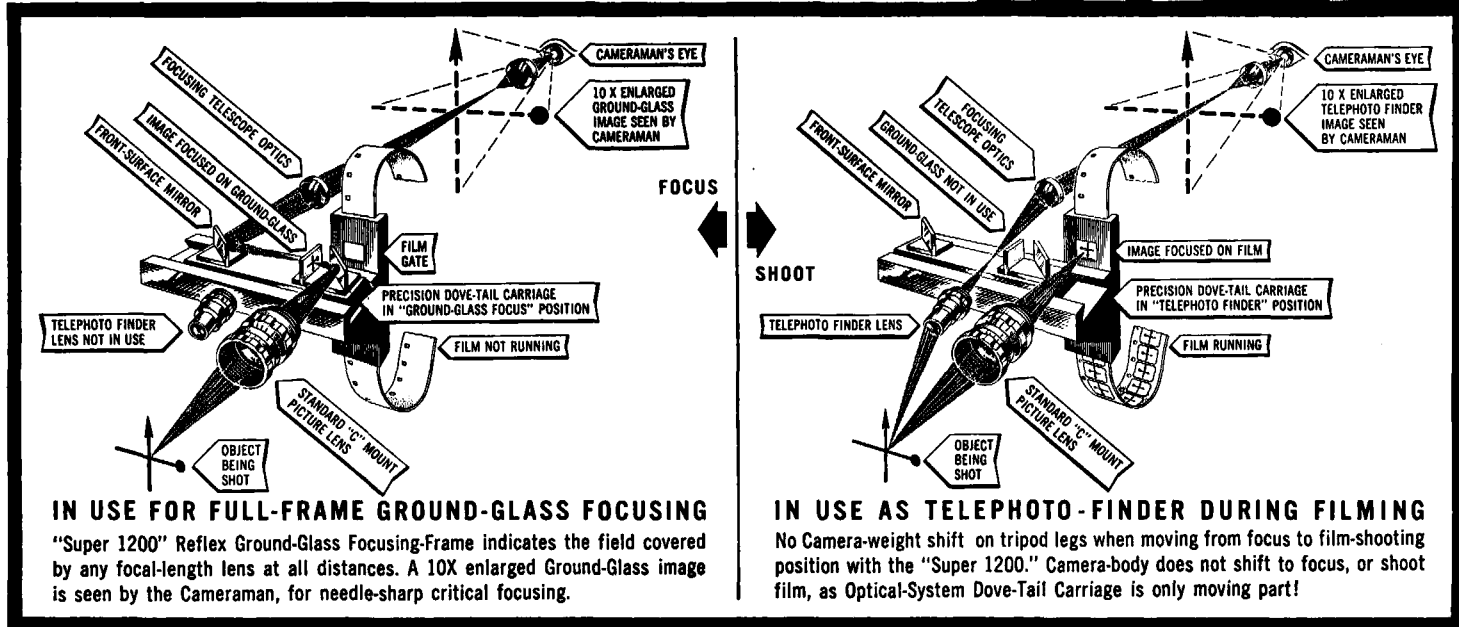
Birns & Sawyer Cine Equipment, Inc. Booths 234, 235
6424 Santa Monica Blvd. Hollywood 38, Calif.

Exhibiting: Underwater housings for 16mm and 35mm Arriflex Cameras; Birns & Sawyer Stop-

Auricon

"SUPER 1200" CAMERA with Full-Frame Reflex Ground-Glass FOCUSING OPTICAL SYSTEM

The unique and versatile features built into the 16mm Auricon "SUPER 1200" Sound-On-Film Recording Camera have prompted Producers and Cameramen to name the Super 1200... "Finest 16mm Sound Camera ever built!" This Camera is "Self-Blimped" for whisper-quiet Studio work, has 33 minutes of continuous film capacity, Variable-Shutter or Kinescope "TV-T" Recording Shutter, plus the combined "Rifle-Scope" Telephoto Finder and Reflex-Focusing Optical Systems illustrated below. Its only equal is another Auricon "Super 1200"...



THE CAMERA OF TOMORROW, HERE TODAY! ITS ONLY EQUAL IS ANOTHER AURICON "SUPER 1200"

FEATURES OF MODEL CM-74 CAMERA INCLUDE...

- ★ "Rock-steady" picture and High-Fidelity Optical or "Filmagnetic" Sound-Track recorded on same film at same time, with "whisper-quiet" Camera and Sound Mechanism synchronously driven by precision-machined Nylon gears.
- ★ Auricon all-transistorized "Filmagnetic" Sound-On-Film Recording System can be used with the "Super-1200" Camera (with or without Optical Sound-On-Film also installed in the Camera).
- ★ "Super-1200" is Self-Blimped for completely quiet Studio use.
- ★ Built-in Electric Camera Heater with automatic Thermostat-Control, provides reliable cold-weather Camera operation.
- ★ Geared Footage and Frame-Counter with built-in neon-glow indirect light.
- ★ Two independent Finder systems (in addition to Reflex Ground-Glass Focusing through the Camera lens); a brilliant upright-image Studio Finder, plus the "Rifle-Scope" precision-matched Telephoto-Finder.
- ★ 600 and 1200 ft. film Magazines available. Up to 33 minutes of continuous filming.
- ★ During picture exposure, your film runs through the Auricon "Super-1200" Film-Gate with the light-sensitive film emulsion accurately positioned on jewel-hard Sapphire Surfaces, an exclusive Bach Auricon feature (U.S. Patent No. 2,506,765). This polished Sapphire Film-Gate is guaranteed frictionless and wear-proof for in-focus and scratch-free pictures, regardless of how much film you run through the Camera!
- ★ Priced from \$4,149.00 for Double-System Recording; choice of "C" Mount lenses and Carrying Cases extra.
- ★ Sold with a 30 day money-back Guarantee and One Year Service Guarantee; you must be satisfied! Write today for your free copy of the 74 page Catalog describing all Auricon Equipment.

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6946 Romaine St., Hollywood 38, Calif.

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

THE BACH AURICON LINE OF 16MM SOUND-ON-FILM CAMERAS

 <p>CINE-VOICE II 180 ft. Runs 2 1/2 min. \$257.00 & up</p>	 <p>AURICON "PRO-600 SPECIAL" 300 ft. Runs 11 min. \$1295.00 & up</p>	 <p>AURICON PRO-600 600 ft. Runs 16 1/2 min. \$1456.25 & up</p>	 <p>AURICON SUPER-1200 1200 ft. Runs 33 min. \$4,149.00 & up</p>
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AURICON... THE PROFESSIONAL CAMERA • STANDARD OF THE 16MM SOUND INDUSTRY SINCE 1931

Motion 35mm Projectors; 35mm Splicing Blocks; Heater Barneys for cameras; TEWE Finders; Omnitax Telephoto Lenses; New 1000mm telephoto lens of 4.5 speed—smallest, fastest 40-in. lens made.

Personnel: Clifford Sawyer, Richard Halpert, Jack Birns.

Camera Equipment Co. Booths 118, 119
315 West 43 St., New York 36, N.Y.
6510 Santa Monica Blvd., Hollywood 38, Calif.

Exhibiting: Waddell High-Speed Camera; Reflex Eyemo Camera (adaptation); Reflex Mitchell Camera (adaptation); Programmer (photographic); Allen Processing Machine; 70mm Viewer; D 5 Assessing Projector; Film Strip Camera; Photo-Instrumentation Equipment.

Personnel: Lou Girola, Jack Pill, Lou Meyer.

Cine Electronics Systems, Inc. Booths 226, 227
225 East 46 St., New York 17, N.Y.

Exhibiting: First time in America—Zeiss Ikon's Xenosol. A complete line of projection lamp-houses utilizing the xenon bulb as the light source. The Zeiss Ikon Xenoblock, a ready-to-install xenon assembly containing all necessary components, without housing. The Dia slide projector.

Personnel: Ted Lapins, Raoul J. Menendez, Clement V. Perry, Heinz Thiele.

ColorTran Industries Booth 104
630 S. Flower St., Burbank, Calif.

Exhibiting: New explosion-proof lights and remote control units; lights for high-speed photography; complete line of ColorTran Converters and control units; a silicon controlled-rectifier type voltage regulator; and variable-voltage output control unit; new heavy-duty stands; new Super 80 light weighting 9 lb and equal to a 10,000-w studio light; revolutionary heat filter.

Personnel: Andy Mott, Keith Covey.

Compco Corp. Booth 225
1800 N. Paulding Ave., Chicago 47, Ill.

Exhibiting: COMPCO line of professional 16mm reels and cans, combining special tempered-steel reelsides with a precision die-cast aluminum hub. Film cans have standard stacking rings and are die-formed to assure close-fitting covers without binding. Reels and cans are finished in scratch-resistant, baked-on hammer-tone gray enamel. COMPCO Stereo Projector.

Personnel: Paul H. Kreft, Walter L. Stickel.

Elgeet Optical Co., Inc. Booth 221
838 Smith St., Rochester 6, N.Y.

Exhibiting: New line of zoom lenses for closed-circuit television, 16mm motion-picture photography and 16mm high-speed photography. Oscilloscope recording lenses and cathode-ray tube recording lenses. New line of 16mm photographic objectives for use in motion-picture

photography and closed-circuit television. A 24-in. F/4.5 lens developed specifically for use on the Bowen CZR-1 Missile-Tracking Camera.

Personnel: Manuel L. Kiner, Eugene Miller, Harold Lowe.

EMI/US Ltd. Booths 205, 206, 207, 208
1750 N. Vine St., Hollywood 28, Calif.

Exhibiting: Complete Broadcast Systems: An advanced 4 $\frac{1}{2}$ -in. image orthicon camera; a low-cost, stable color camera for live and telecine use; and a highly versatile studio vidicon camera capable of complete remote operation. The latest in solid-state switching and distribution equipment and the first all-transistorized picture monitors. TRANSICOM, a new solid-state inter-communications system and a transistorized sound-mixing console. Video recording tape and audio tape will also be shown.

Personnel: Denis Waitley, Max Ellison, Jack Neitlich, A. Bruce Rozet, Ted Baker, Alan Lane, Phil Wiesel, Don Muller.

Florman & Babb, Inc. Booths 122, 123
68 West 45 St., New York 36, N.Y.

Exhibiting: Acmade Mark II Editing Table; Acmade Precision Tungsten Carbide Hot Splicers—Table and Foot-Pedal Models; Acmade Automatic Tape Butt-Splicers; "Fireball" Reflectors; Kliegl Lilliput Twin-Lite; Sachtler-Wolf Gyro Tripod; Complete Sound Effects Library; New Auricon 400-ft Conversion.

Personnel: Arthur Florman, Leonard Hollander, Dominick Noto.

Gordon Enterprises Booths 125, 126
5362 N. Cahuenga Blvd., North Hollywood, Calif.

Exhibiting: 16 and 35mm conventional motion-picture cameras, plus editing, lighting, processing and optical equipment. Special features will be first West Coast showing of the Fairchild Model 400 8mm Sound Rear-Screen Projector, and the versatile Harwald 16mm Film Inspection Machine.

Personnel: Kenny Knipe, Roy Low, Jim Wada, Mike Kelly, Grant Loucks, Dave Stern, Ed Ries.

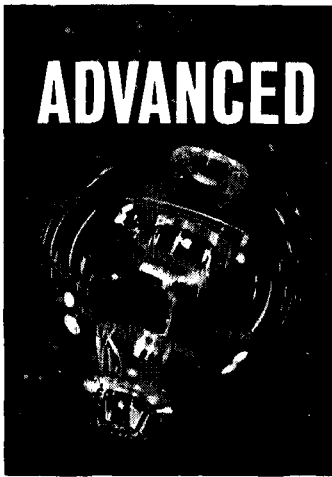
Gryphon Corp. Booth 128
P.O. Box 854, Burbank, Calif.

Exhibiting: The Gryphon Model HB-2 High-Efficiency Air Squeegee for motion-picture film processing machines. Models will be shown for 16mm, 35mm and 70mm films. This is an all stainless steel unit which meets the requirements for use prior to the application of sound-track as well as all conventional squeegee functions, particularly in the new viscous-solution processing field. The Model HB-2 squeegees use compressed air at high pressure (10 to 20 psi) and feature the Venturi Air Cushion for film safety.

Personnel: A. Strayer, M. Jones.

ADVANCED

FLASH TECHNOLOGY



for • Flash-induced chemical catalysis.

- High-speed photography of chemical and process reactions.
- Motion studies, shock-wave photography.
- Cloud chamber Physics.
- Deep-sea photography.
- U.V. printing and time-marking.
- Satellite beacon systems.
- Optical Maser (Laser) light pumps.

EG&G's leadership in flash technology is solidly based on original contributions to the state of the art which have produced more than 40 patents for tubes, circuits and stroboscopic systems.

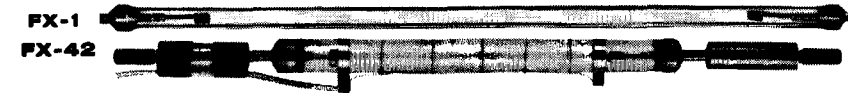
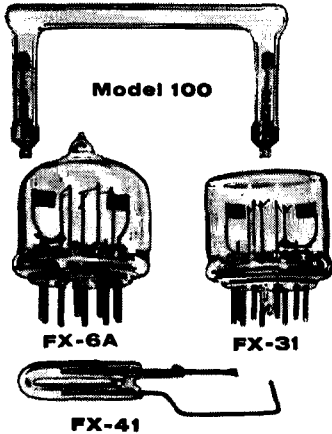
XENON FLASH TUBES

Model 100 Designed for Laser and other special applications. Tube configuration ensures maximum light intensity per unit of rod area. Output: 250 HCPS/flash. Input: 100 ws. Price: \$50.

FX-31 Internally triggered. Non wandering arc. Single flash or strobe. Flat-topped for optimum optical characteristics. Output: 2.5 HCPS/flash. Input: 5 ws. Price: \$30. Standard **FX-6A** type: \$15.

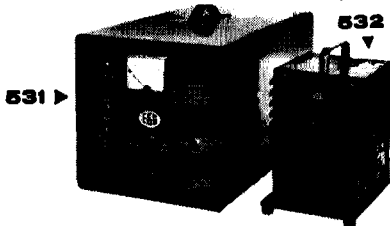
FX-41 Paper-clip size tube now under development. Inquiries invited.

FX-38 3" arc. Output: 400 HCPS/flash. Input: 200 ws. Also available: **FX-1** Output: 2000 HCPS/flash. Input: 400 ws. Price: \$50. **FX-42** Output: 2500 HCPS/flash. Input: 600 ws.



PULSED POWER SYSTEMS

• FOR LASER STIMULATION FLASH CATALYSIS, ETC.



Model 531 Output: 400 ws. (1050 mfd at 900 v.) Input: 115 v. 60 cycle a.c. Price: \$795.00. **Model 532** Flash Head with 2 Model 100 tubes: \$395.00. System will drive polished and multicoated ruby rods with low threshold. System Price: \$1190.00.

Model 522 Two unit 1280 ws. system provides up to 4 kv. into 80 mfd. or 160 mfd. Triggered externally or from front panel. Drives Model 511, 512, 513 Flash Heads with 4 to 10 Model 100 tubes. Accommodates crystals 2" long up to 1/2" dia. Input: 110 v. or 220 v. 60 cycle a.c. Price: \$3345.00 (complete system with 4 tubes).

• FOR MOTION STUDIES, CLOUD CHAMBER PHYSICS, ETC.

Model 530 Output: 100 ws. (260 mfd. at 900 v.) Input: 115 v. 60 cycle a.c. Price: \$395.00. EG&G TR-36 external trigger transformer: \$13.95. System drives most EG&G flash tubes.

ELECTRONIC FLASH EQUIPMENT

Microflash (.5μsec duration) for ballistic photography... **High-Speed Stroboscope** (6 kc. rate) for photographing shock waves, projectiles, etc. . . . **Flash Illuminator** for macrophotography and photomicrography . . . **Double Flash** for silhouette photography . . . **Multiple Microflash** for superimposition of up to 20 photographs on single negative at up to 100 kc. rate . . . **Mark VI and VII Sensitometers** for rating film sensitivities, etc.



Further information on request on above products and on: Milli-mike® Oscilloscopes and accessories, Hydrogen Thyratrons and Diodes, Triggered Spark Gaps, Transformers, Oceanographic Instruments, Radiation Detection Devices.

TEL. COPLEY 7-9700 • CABLE: EGGINC, BOSTON; TWX: BS 1099

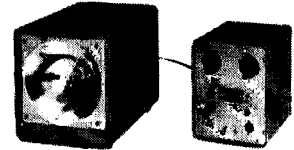
Edgerton, Germeshausen & Grier, Inc.

178 BROOKLINE AVENUE, BOSTON 15, MASSACHUSETTS
WESTERN OPERATIONS: P. O. Box 1912, Las Vegas, Nev. — Santa Barbara Airport, P. O. Box 98, Goleta, Calif.

Visit us at Booth 110 at the SMPTE Convention



ELECTRONIC FLASH EQUIPMENT



Microflash Flash Duration: 0.5 microsecond. Peak Light: 50 x 10⁶ beam candle power. Energy Input: 8 ws (.05 mfd at 18 kv). Recycle Time: 5 seconds. Time Delay: Adjustable from 3 to 1000 microseconds. Price: \$975.00. Point Light Source Attachment: \$35.00.

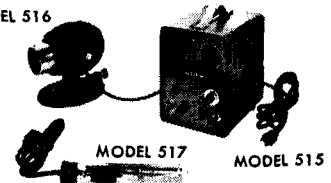
MARK VI SENSITOMETER

Compact, easy to use, laboratory device. Will accommodate glass plates, 16 mm. or 35 mm. films. Exposure Times: 1/100, 1/1000, 1/10,000 second. Built-in voltage regulator. Color correction filters unnecessary. Price \$600.00. **Mark VII Sensitometer**, which has the additional ranges of 1/100,000 and 1/1,000,000, is available at \$1200.00.

High-Speed STROBOSCOPE

Light source specially developed for use with high-speed cameras for studies of fast-moving objects such as shock waves and projectiles. Flashing Rate: Up to 6000 flashes per second. Flash Duration: As low as 1.2 microsecond. Triggering: From camera, oscillator or contactor. Price: \$3500.00.

MODEL 516



Microscope Flash Illuminator Model 516 lamp and 515 power supply provides high intensity flashes (150 microseconds at 100 ws) for extreme close-up photography of delicate subjects without heat damage . . . e.g. human eye, insects, botanical specimens, etc. Model 517, separate lamp assembly permits close-ups of underwater subjects in fish tanks, etc.

FOR FURTHER INFORMATION, CALL:

STATE	CITY	TELEPHONE
Alabama	Huntsville	536-0631
California	San Gabriel	ATlantic 7-9633
	San Carlos	LYtel 3-7693
	San Diego	ACademy 3-7133
	Denver	MAIn 3-1458
	Willowdale, Ontario	BALdwin 5-7391
Canada	Orlando	CHerry 1-4445
Florida	Chicago	NATIonal 2-8650
Illinois	Towson	VAlley 3-3434
	Wheaton	LCKwood 5-3066
Maryland	Boston	COPley 7-9700
	Livonia	453-8414
Massachusetts	St. Paul	MIDway 8-5531
Michigan	Ridgewood	GIlbert 4-1400
Minnesota	Albuquerque	AMherst 8-2478
New Jersey	Syracuse	GIbson 6-1771
New Mexico	Winston-Salem	STate 8-0431
New York	Dayton	BALdwin 3-9621
North Carolina	Cleveland	JAckson 6-3990
Ohio	Fort Worth	PERshire 8-2394
Texas	Salt Lake City	EMpire 4-3057
Utah	Seattle	PARKway 3-3320
Washington	Milwaukee	FL 2-2657
Wisconsin		

Karl Heitz, Inc. Booth 111
480 Lexington Ave., New York 17, N.Y.

Exhibiting: ALPA 35mm single-lens reflex camera with Macro-Switar 50mm F/1.8, 100mm F/2 and 150mm F/2.8 APOCHROMATS, Angenieux-Zoom 50-200mm F/3; ROBOT Recorder 18 × 24mm automatic single-frame camera with electric motor and ROBOT Recorder F Strip camera for continuous film advance! CAMEX CR 8 mm Dual-Reflex camera with interchangeable lenses from 6.5mm to 360mm (30× magnification) and zoom lenses 7.5-35mm F/1.8, 8-48mm F/1.8 with electric motor and 12.5-125mm F/2.2 (10×); KINOPTIK APOCHROMATS for Arriflex 16 and 35mm, fast 50mm F/1.3, 50 and 75mm F/2 with close-up focusing to 1:1.

Personnel: Karl Heitz, Bill Bontrop.

Hi-Speed Equipment, Inc. Booth 228
73 Pond St., Waltham 54, Mass.

Exhibiting: Descriptive material on Hi-Speed film processing equipment.

Personnel: Ralph T. Jope, Richard Reedy, Nicholas Cedrone, Robert E. Sayers.

Hollywood Film Co. Booths 141, 142
956 N. Seward St., Hollywood 38
524 West 43 St., New York 36

Exhibiting: 16-35-70mm hot splicers; repair splicer,

solenoid operated; tape splicers; high-speed inspection projectors; film editing machine; film and tape handling equipment; reels, cans and shipping cases.

Personnel: Ben Teitelbaum, Harry Teitelbaum, Lillian Kaye, Warren Strang, Douglas Straight.

Houston Fearless Corp. Booths 115, 116
11801 W. Olympic Blvd., Los Angeles 64, Calif.

Exhibiting: HOUSTON FEARLESS FILM MASTERS, all stainless film processors, fully equipped ready to connect to plumbing and electrical provisions, with complete temperature control system, turbulation pumps and film magazines. Modular construction. Completely automatic from film load to take-off, can be loaded and operated in lighted room. Processing footage rate dependent upon configuration. Exclusive Houston Fearless clutch drive prevents film breakage and is readily adjustable without tools.

Personnel: T. H. MacIndoe, A. J. Kjontvedt, J. Day, R. C. Boyle.

The Kalart Co., Inc. Booth 133
Plainville, Conn.

Exhibiting: The Kalart SOUNDSTRIP Projector, a new audio-visual machine for projecting still pictures with sound. The projector accepts the new SOUNDSTRIP films which include a

AVAILABLE WITH AERIAL IMAGE PROJECTOR

Long known for its custom built, precision, versatile Animation Stands, OXBERRY has now released its first package unit incorporating all the features necessary for immediate production of animated films. Built to the highest standards of quality, the basic unit can receive special accessories to tailor it to the individual studio's needs. Its extreme versatility permits high-speed operation for all present day forms of animation—a major economy for producers.

The extensive research and development carried on at OXBERRY combined with precision manufacturing and complete Service Department, have created world-wide confidence. More than 200 studios use OXBERRY as their established equipment.

THE 4200 MASTER SERIES ANIMATION STAND

This basic unit is complete with OXBERRY 35mm camera. The same camera can receive the 16mm shuttle and sprocket assemblies without loss of optical centers or film alignment with 3-minute change over.

Automatic take-ups, magazine, shadowboard, stop motion motor, 170° fade shutter and lens complete the camera assembly.

Included with the OXBERRY Stand is follow focus cam, zoom scale, OXBERRY compound with N/S, E/W and rotating movement, two peg tracks, pantograph, and platen with counters and controls for all movements.

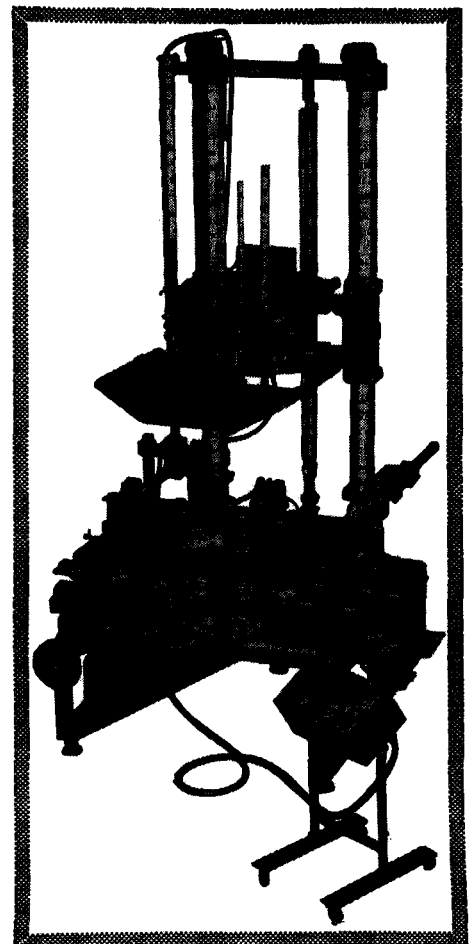
Price complete \$10,900

Full range of accessories available. Write for specifications.

ANIMATION EQUIPMENT CORPORATION
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OXBERRY

See us at Booth 103 for full details on the very latest OXBERRY equipment.





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**A new application of
an amazing Optical Principle**

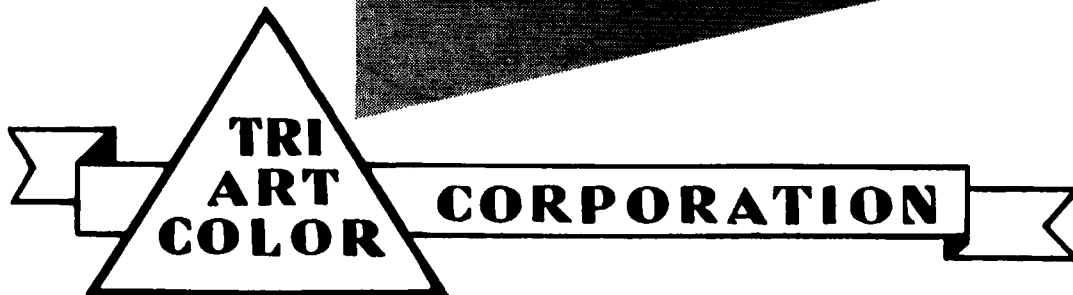
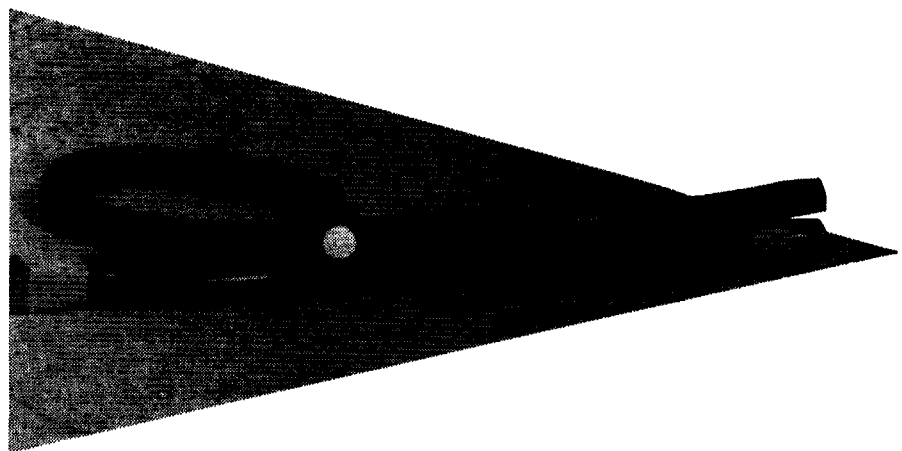
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By diffused light — Minimize Negative Physical Defects

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Give uniform FIELD EXPOSURE — No Center Hot Spot or Edge Fall Off

A Technical Paper on Fiber Optics Printing was given on May 12, 1961, at the SMPTE Convention, Toronto, Canada, by A. J. Miller, Vice Pres., Du Art Film Labs & Tri Art Color Corp. Copies are available on request.



Subsidiary of DU ART FILM LABORATORIES, INC.
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double-frame 35mm picture and sound optical track on the same film. The KALART/VICTOR 16mm sound motion-picture projectors, including a new MOVIE MATIC repeater and DUOLITE models. The CRAIG motion-picture editing equipment, including the professional model V-4648 with 4 x 6-in. viewing screen.

Personnel: Hy Schwartz, Sid Schwartz.

L-W Photo Products, Inc. Booth 130
18220 Parthenia St., Northridge, Calif.

Exhibiting: L-W PHOTO-OPTICAL DATA ANALYZER. A 16mm projector that is FLICKERLESS at speeds as low as one frame per second. Operates automatically at pre-selected speeds, as 2-4-6-8-16-24 frames per second. Remote control of all operating speeds and modes. Includes frame counter and built-in daylight viewer. NORTHRIDGE RESEARCH RZ-12 35mm CINE-PULSE CAMERA with DATA BOX. MK-100P 16mm CINE-PULSE CAMERA. A 16mm camera that can be operated at single-framemode at rates determined by an external electronic timer which is furnished as part of the system. Can also be operated as a motion-picture camera at selected speeds from 16-64 frames per second. Primarily designed for extended time-lapse or memo-motion studies.

Personnel: Bob Lawrence, Bud Fant, Fred Rambow.

Lipsner-Smith Corp. Booth 134
3475 W. Touhy Ave., Chicago 45, Ill.

Exhibiting: Model CF-2 Ultrasonic Film Cleaner, developed to provide a safer, more efficient cleaning process for use in the most critical applications. The CF-2 applies ultrasonic energy in a solvent bath to clean films to the highest laboratory standards—in one automatic operation. Jet drying removes all trace of scum and leaves films sparkling and polished. The picture area is touched only by fluid and air in the CF-2 cleaning process and film cannot be scratched or abraded. Color balance is maintained and the usable life of your negative is increased.

Personnel: J. S. Lipsner, E. Werner, E. Smith, R. Bartels.

Magnasync Corp. Booth 120
5546 Satsuma Ave., North Hollywood, Calif.

Exhibiting: Multi-channel 10-track recorder using 1/2-in. tape; automatic time signal announcer; triple-channel motion-picture sound dubber; ultra portable transistorized 12-lb motion-picture sound recorder; 16mm portable motion-picture sound recorder.

Personnel: De J. White, Bill Stutz, Al Brown, Ralph Sogge, Jim Greet.



FAIRCHILD
Model F316A
FULLY AUTOMATIC
16mm CONTINUOUS
FILM PROCESSOR

daylight loading
leaderless—65 lbs.
negative at 6 fpm.

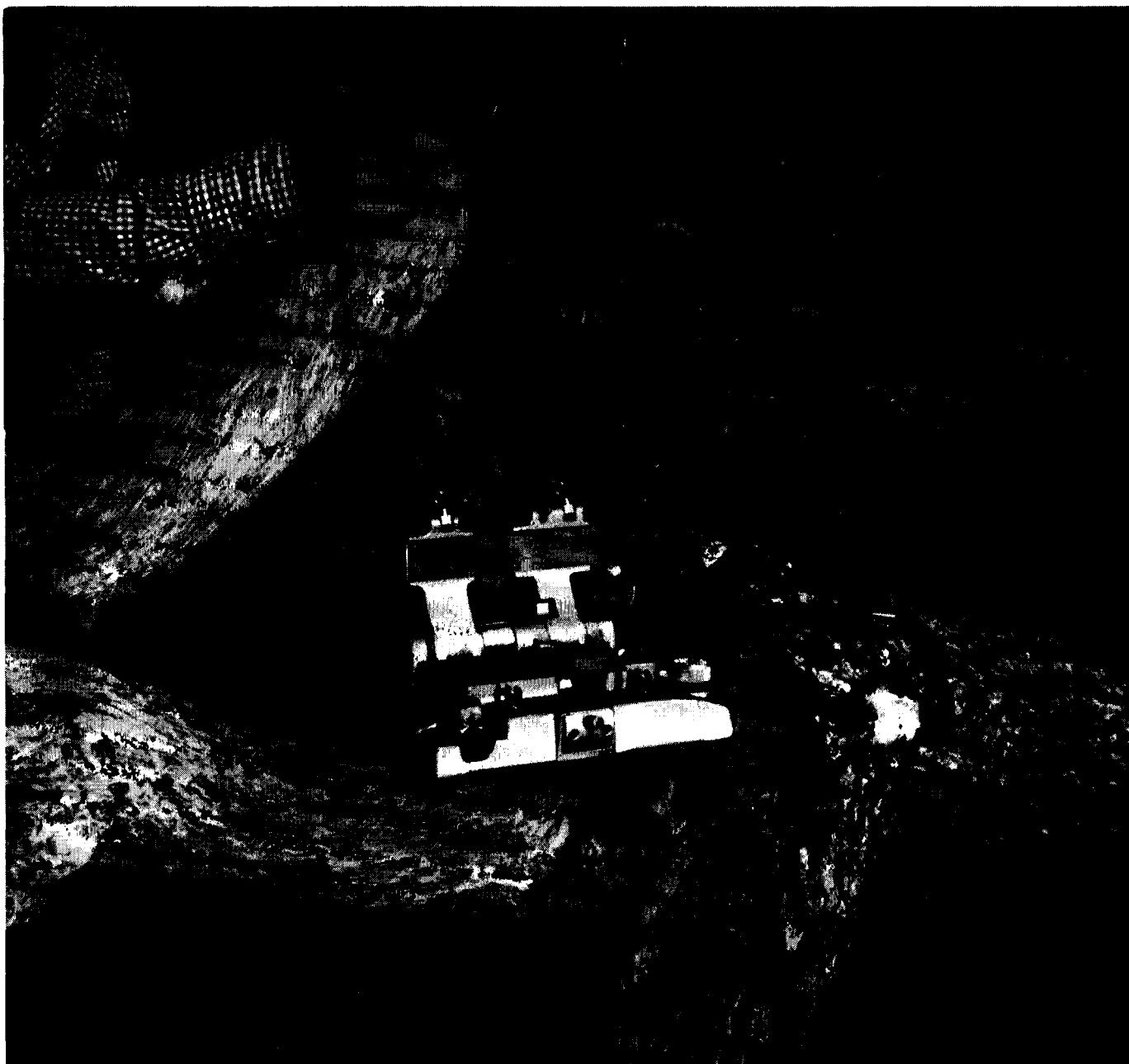
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FAIRCHILD TECH DATA DIGEST
FOR ENGINEERS, PHOTOGRAPHERS, SCIENTISTS, EDUCATORS

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... When you need to know, have this...
... Write or call for yours today.

- high speed cameras
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- film analyzers
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- still motion cameras
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The model that won the West...

Actually, the HFC Professional 16MM Hot Splicer didn't win the West in the sense that the Colt won the West, but it did win the praises of film editors not only in the West but around the world. Professional editors who demand professional equipment. Model shown: FS-816 (for 8 and 16mm). Other models available . . . FS-70-1 (for type #1 Military perforations) • FS-70-2 (for type #2 Military perforations) • FS-70-3 (for 65MM) • FSC-357 (combination splicer, 35 or 70MM) • FSC-657 (combination splicer, 16-35/32-65 or 70MM). All models ready for immediate delivery.

The HFC Hot Splicers offer these features...

DOUBLE SCRAPING • LOSE ONLY HALF A FRAME • SEPARATE PROFESSIONAL SCRAPING BLOCK • LEFT TO RIGHT OR RIGHT TO LEFT SPLICING • MACHINE BLADES GROUND TO CLOSE TOLERANCES • NO DOWN TIME WHEN SCRAPING BLADES BECOME DULL • CHANGE BLADES IN SECONDS • CUSTOM BUILT CARRYING CASE • SPLICERS CAN BE SET FOR NEGATIVE, A & B OR RELEASE PRINTS • CUTTER BLADES CAN BE GROUND AND SHARPENED WITHOUT CHANGING SPLICE WIDTH • CUSTOM BUILT CASE



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D. B. Milliken Co.
131 N. Fifth Ave., Arcadia, Calif.

Booth 236

Exhibiting: The Milliken Models DBM 3, DBM 4 and DBM 5 High-Speed Motion-Picture Cameras, consisting of both the "A" Series and the new "B" Series for operation up to 500 fps. Other cameras displayed will be the DBM 7 and DBM 8 Mercury Space Capsule Cameras, the DBM 9 Underwater Scuba Diving Camera, and the DBM 10 Recoverable Space Capsule Camera. Accessories to be displayed will be the N-11A Underwater Bell, F-26 1200-ft Magazine; K-30-4B Protective Housing, T-49 Intervalometer for pulse generator with the Milliken pulse cameras, J-28 Pistol Grip, V-37 Viewfinder and P-12D Portable D-C Power Pack. All cameras use the standard Milliken true-intermittent, pin-registered film transport system.

Personnel: T. H. Truesdell, C. G. Holzapfel, R. C. Kiteley, J. D. Sessions.

Mole-Richardson Co. Booth 117
937 N. Sycamore Ave., Hollywood 38, Calif.

Exhibiting: Lighting equipment for motion pictures and television.

Personnel: M. A. Hankins, Howard R. Bell.

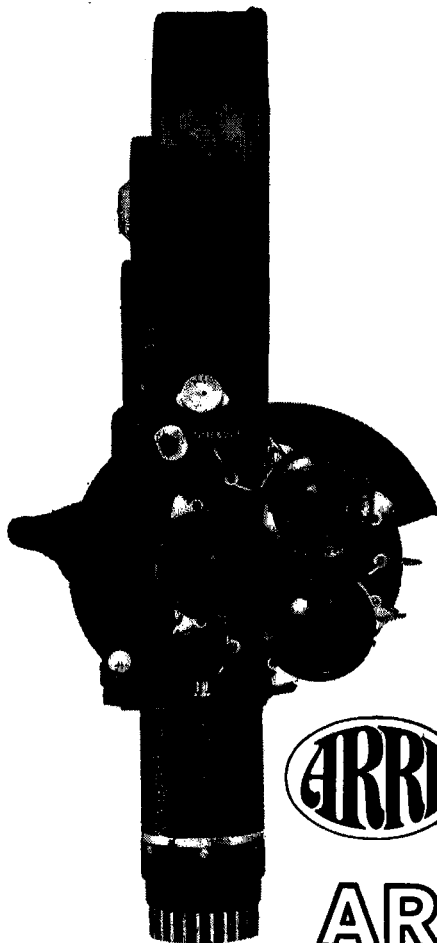
Moviola Mfg. Co. Booths 216, 217
5539 Riverton Ave., North Hollywood, Calif.

Exhibiting: 16mm Moviola Editing Machine equipped with 4 × 5-in. viewing screen attachment and composite soundhead. Moviola Crab Dolly for motion-picture or TV cameras. New portable 16mm powered viewer with 4 × 5-in. screen, complete with sound, capable of transporting film in cine mode up to 5 times sound speed, forward or reverse, with rapid rewind facility in both directions. New automatic power rewind for either 16 or 35mm film: "cores" up to 300 ft of 35mm film in less than 1½ min with no adjustments required during the rewind cycle. New audio reader for video tape "program" and "cue" tracks.

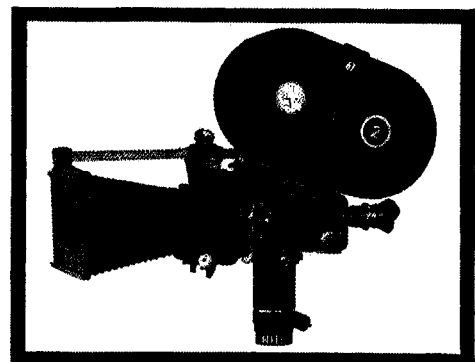
Personnel: George Kendall, Al Romoli, Pat Watson.

Neumade Products Corp. Booth 112
250 West 57 St., New York 19, N.Y.

Exhibiting: New models of video and audio tape storage units in addition to the regular Neumade line of 16 and 35mm film, filmstrip slide storage facilities and associated film-handling equipment such as rewinds, synchronizers, splicers, film cleaners, flanges, projection tables, editing tables, etc. Featured will be selected examples of tape storage units, representative of a line which ranges from open rack types for either video or audio tapes to individually

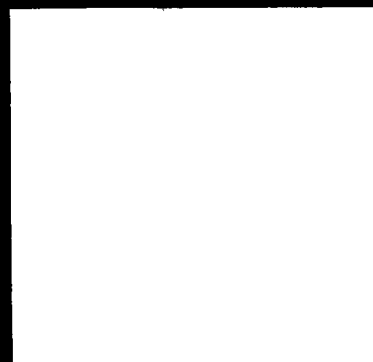


Having completed high-priority Government orders which required almost our entire 1961 production, we are pleased to announce that a limited quantity of Arriflex 35 cameras is available for immediate delivery.



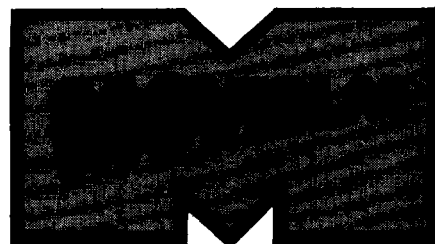
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Personnel: Lee Jones, Warren Clements, Robert Hempel, Lew Grofsik.

O'Connor Engineering Laboratories Booth 127
9862 Highland Ave., Alta Loma, Calif.

Exhibiting: O'Connor Fluid Heads.

Personnel: James T. Brodie

Photo Animation, Inc. Booth 218
34 So. West St., Mount Vernon, N.Y.

Exhibiting: Portman tilting column stand fully motorized for semiautomatic animation, three-dimensional animation, puppet animation and conventional cel animation. Large Portman stand with versatile range of accessories. New audio-visual projector for teaching by means of filmstrips, slides, 10 × 10 transparencies and opaque material.

Personnel: Warren C. Portman.

Photographic Instrumentation Development Co. Booth 210
19458 Ventura Blvd., Tarzana, Calif.

Exhibiting: Oscilloscope Recording Camera, Model OCP-5000; 35mm Slow-Speed Strip Recorder, Model OC-8000; High-Speed Strip Film Cameras, OC-1-35S (35mm); High-Speed Strip Film Cameras, OC-1-70S (70mm); Nega-Viewer; Oscillograph Trace Blanking Devices; Fonda Film Developing Machine.

Personnel: C. L. Sly, R. V. Jacobson.

Photo-Sonics, Inc. Booths 222, 223
820 S. Mariposa St., Burbank, Calif.

Exhibiting: Photo-Sonics High-Speed instrumentation cameras, including 16mm, 35mm and 70mm film formats; Acme special effects motion-picture equipment.

Personnel: John Kiel, Roy Edwards, Darrell Lasiter, Robert Lorenzen.

Plastic Reel & Core Co., Inc. Booth 201
612 Boulevard East, Weehawken, N.J.

Precision Laboratories Div., Booth 237
Precision Cine Equipment Corp.
928-930 East 51 St., Brooklyn 3, N.Y.

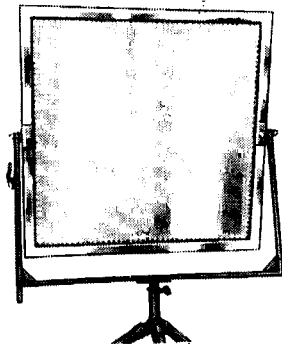
Exhibiting: Precision Sound Readers, optical and magnetic; Precision Unitized Synchronizers; Power Film Slitters; Film Slitters and Editing Equipment.

Personnel: Erwin R. Sheldon.

Prestoseal Mfg. Corp. Booth 124
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Exhibiting: Three different methods of splicing motion-picture film, Mylar and paper tape: 1. "Miracle Buttweid"—end-to-end splicing, using no cement, adhesive or tapes; 2. "Hercules"—

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Five brand new principles have advanced the art of using reflectors from an unwieldy, difficult process to an exact science with all the control and plasticity of using incandescent lighting equipment.

The FIREBALL is fabricated of two pressed aluminum sheets bonded to plastic materials and joined together at all four sides. The texture of the aluminum is formed by pressing with lenticular dies which form a myriad of tiny prisms. This magnifies to the ultimate the light-gathering power of the reflector. The envelope formed by the two joined reflectors is suspended from the frame and an air valve is tapped into one side. By pumping air into the envelope, the reflectors will "belly out", resulting in diffusion and spreading of the reflected light beam. As a result, the beam can be "focused" and controlled by the volume of air, just like a spotlight. The reflector surface is practically indestructible—it can be washed, polished, cleaned.

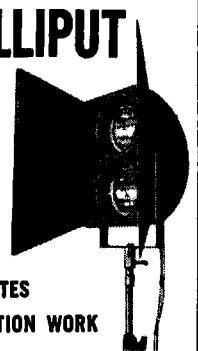
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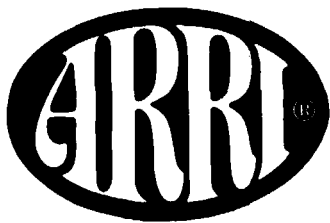
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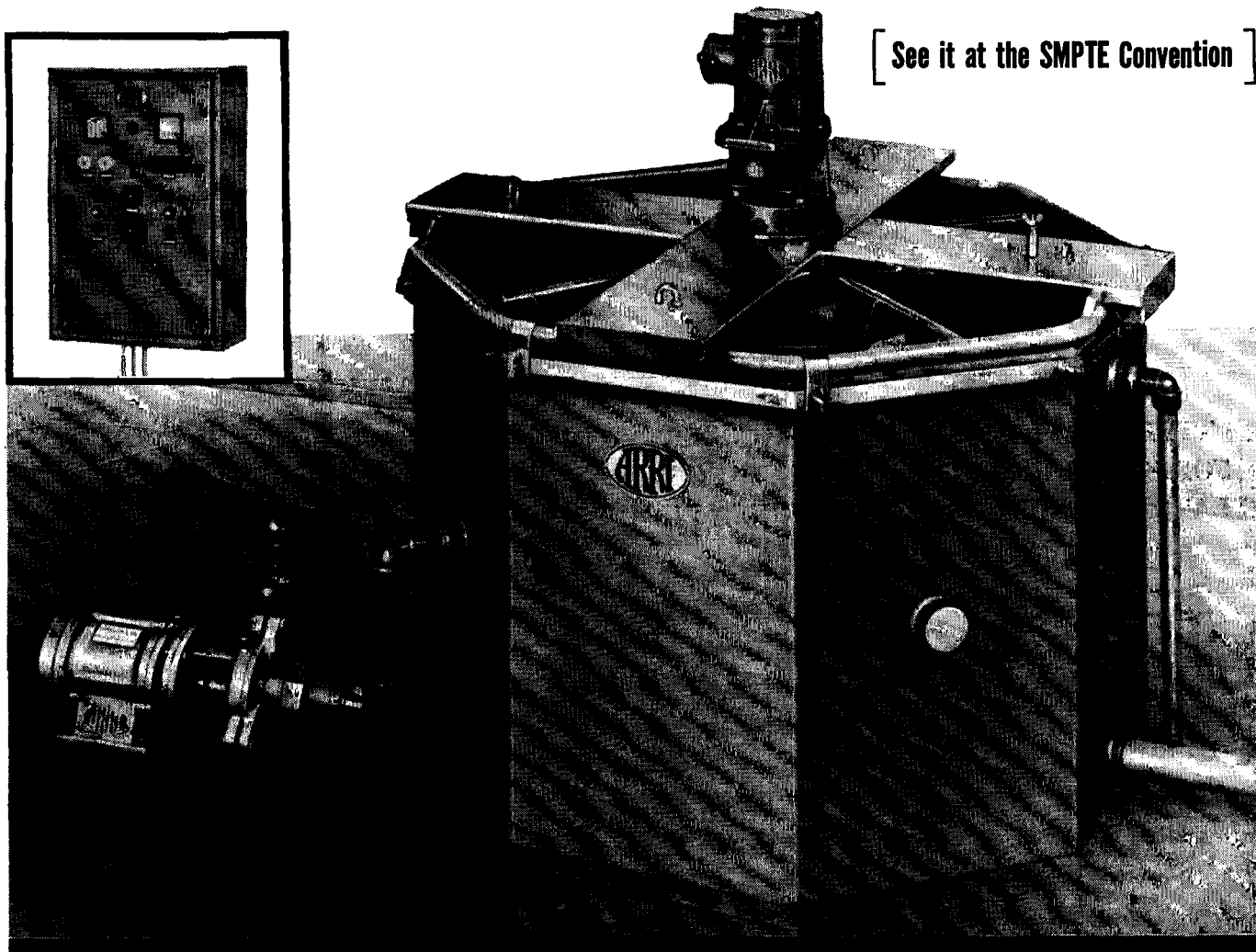
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25	25	2	17¾" 17¾"	19¾" 8¾"	1642.5 sq. in.	11 sq. ft.	250 liters
50	50	2	21¾" 21¾"	27½" 15¾"	2943 sq. in.	13 sq. ft.	500 liters
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reinforced splice, for intermix splicing or where extra strength is required, including darkroom and endless-loop applications; 3. Overlap, compressed method without cement, adhesives or tapes.

Personnel: Leonard A. Herzig, M. Michael Cerick, John Jacks.

Quick-Set, Inc. Booth 105, 106
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Exhibiting: Super Quick-Set—Samson—Hercules—Gibraltar, a complete line of tripods, pan heads, dollies, etc, for photo, 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 lb on tripods. Units include $\frac{3}{4}$ and full-length, with or without elevators, panheads incorporating friction and/or geared controls. Accessories include Pelco adapters, special apparatus for easier attachment of heavy cameras, and Lo-Hi units.

Personnel: Paul Mooney, Tony Briglia.

S.O.S. Photo-Cine-Optics, Inc. Booth 219
602 West 52 St., New York 19, N.Y.
6331 Hollywood Blvd. Hollywood 28, Calif.

Exhibiting: Tel-Animaprint Hot Press for Titling; Tel-Amatic 16/35mm Negative/Positive Film Cleaner; Tel-Amatic 16mm Printer; SOS 16mm

Viewers; SOS 35mm Viewers; SOS Lec-tronotch; SOS TG IV Titler; Moy Edge-Numbering Machine.

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

Stereotronics Corp. Booth 204
1717 N. Highland Ave., Hollywood 28, Calif.

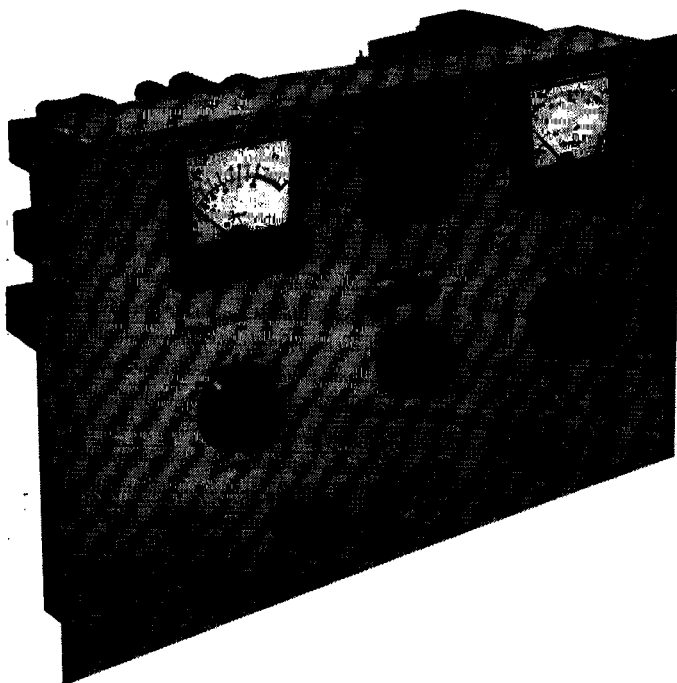
Exhibiting: **THREE-DIMENSIONAL TELEVISION:** This will be a live demonstration, in which visitors will be able to operate a manipulator by means of closed-circuit 3D TV. **COLOR TELEVISION:** An extremely simple and low-cost system of converting black-and-white television to full color.

Personnel: James F. Butterfield, John M. Flynn, Albert H. Steinweg, Donald D. Britton.

Stewart-Trans-Lux Corp. Booth 138
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Exhibiting: SEAMLESS front and rear-projection screens; screens for traveling-matte process photography as used by major motion-picture studios; rigid rear-projection screens for display devices and briefing rooms; aluminum tubing screen frames for professional use; "Porta-Pro" portable, professional front and

TYPE 92B PLAYBACK SYNCHRONIZER FOR SYNCHRONIZATION OF $\frac{1}{4}$ " 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 $7\frac{1}{2}$ 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 $12\frac{1}{4}$ " o 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.

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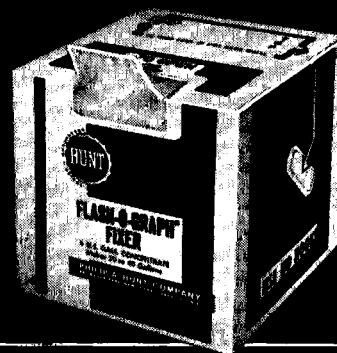
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Flash-O-Graph Fixer is buffered to extend its working life up to 20% beyond that of any other fixer. You get longer tray life—more negatives and prints per tray of fixer. Order from your nearest Hunt branch. Shipments made promptly.



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

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Exhibiting: The Strong X-16 lamp for motion-picture projection and other specialized applications. Using a 1600-w xenon short arc bulb, the system is complete with ellipsoidal mirror, igniter and silicon diode transformer-rectifier power supply. The ellipsoidal reflector re-images the light source with about a six-times magnification outside the confines of the lamphouse. When used for 35mm motion-picture projection the lamps produce about 9500 lumens through the aperture without shutter running with an F2.0 objective system. Application of this lamp for projection in small theatres, screening rooms, etc., on screens up to 30 ft wide is indicated.

Personnel: William White, Arthur J. Hatch.

Sylvania Electric Products, Inc. Booths 232, 233
1740 Broadway, New York 19, N.Y.

Exhibiting: Studio lighting apparatus and accessories: Professional Sun Gun—1000-w—all-purpose studio light; 30-v Battery Portable Sun

Gun—on-location, battery-powered movie light; special projection lamps and movie flood.

Personnel: Russ Barden, Jim Powers.

Telequip Corp. Booths 135, 136
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Exhibiting: Radical new line of lighting equipment, particularly scoops in sizes from 250 w, 500 w, 750 w, 1000 w and 1500 w, utilizing the new Westinghouse concept of single-unit source construction, lighter, cooler and brighter than conventional fixtures. A kinescope recorder designed specifically for tape-to-film transfer and for push-button medical and scientific kinerecording. A small 8-in. desk-top video monitor will also be shown.

Personnel: Howard L. Ryder, John W. Schlageter.

Traid Corp. Booth 220
17136 Ventura Blvd., Encino, Calif.

Exhibiting: High-speed 16mm motion-picture cameras; special lenses and optical systems; pulse cameras, 16 & 35mm; motion-picture cameras with special displays for instrumentation, 16 & 35mm; airborne, both air-frame and missile cameras, 16 & 35mm; missile mis-distance scoring systems, both photographic and electronic and combination photographic-electronic;



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receive 35mm and 16mm components, interchangeable without loss of optical centers or film alignment. Electro-mechanical drive. Compound movement on projector head.
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The Standard model printer for 35mm includes the following: Camera with manual dissolve, 35mm shuttle and sprocket assemblies, automatic take-up, 400-ft magazine, counter, superimposure viewing device, precision compound lens mount, 103mm f/2.8 Ektar lens; electronic drive, stop motion and continuous, operates forward and reverse for camera and projector.

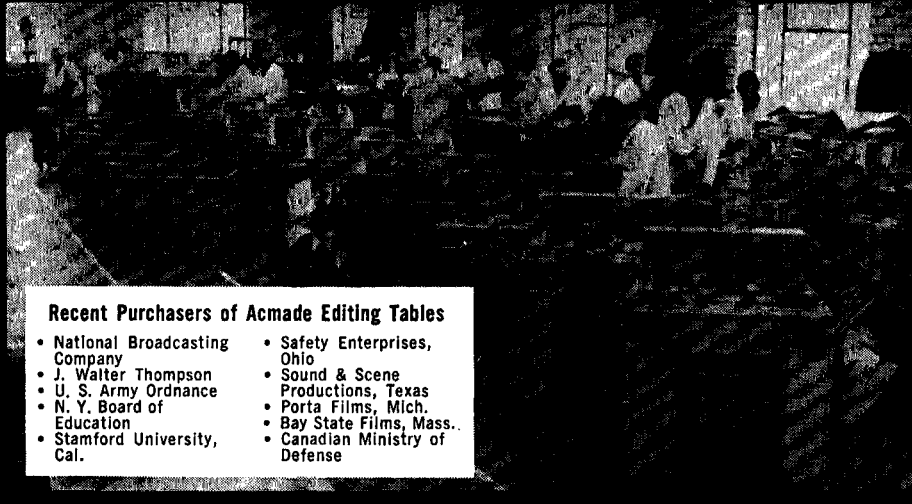
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- Porta Films, Mich.
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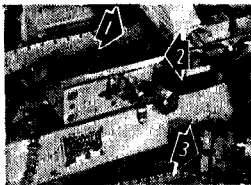
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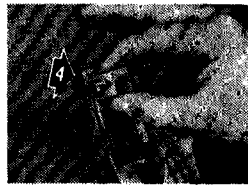
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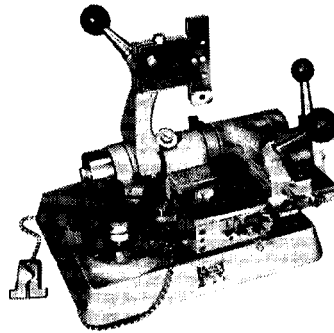
This moderately priced splicer incorporates new precision features which insure absolute accuracy and safety in splicing. Three models are available: Model 16-16mm., Model 35-35mm., Model 35-16 combination 35mm. and 16mm.



1. The combination 35mm.-16mm. Model features retractable 35mm. and 16mm. pins. This permits center placement of the 16mm. pins for A and B roll splicing.



4. Specially designed right-hand pressure block permits easy and accurate back-scraping on all models.



5. Tempered steel springs provide perfect pressure, positioning film firmly during scraping and splicing processes.

6. Thermostatically controlled heater maintains constant 100° temperature.

Model 16 — \$299

Model 35 — \$299

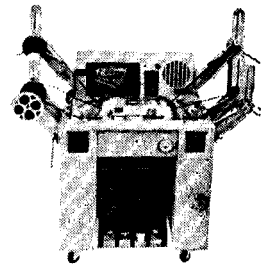
Model 35-16 — \$399

2. Stainless steel blocks are precision fitted with Tungsten-Carbide inserts for cutting. Cutting edges will remain sharp and last forever.

3. Attached scraper adjustable for depth — fitting jig incorporated on splicer base.

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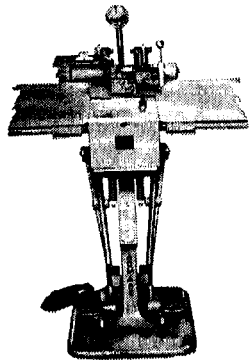
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Operation of this simple, efficient editing machine can be mastered in minutes. Continuous (non-intermittent) movement provides absolute protection for your film. Instant controls and declutching allows up to 50% greater speed for pic & sound editing. All combinations of 16mm and/or 35mm channels, plus magnetic and optical sound available.

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Acmade Foot-Operated Splicer with Tungsten Tipped Blades



Combination
16 mm-35 mm
Model . . .
\$1495

This splicer is constructed, as is usual with ACMADE products, of the finest materials and workmanship. All castings are of the best quality and the top body and cutter arms are seasoned to prevent distortion after machining. The machining is carried out to limits of $\pm .0005''$ in order that the cutter blades shall close in a dead parallel manner. The cutter blades are made from stainless steel with Tungsten Carbide inserts, and afterwards ground lapped and polished to a limit of $\pm .0002''$ thickness and the cutting edges relieved by 1° . The Tungsten Carbide inserts will have

indefinite life and will not require sharpening as with other types. A heater unit is installed in the top body of the machine. The top light in a well glass fitting is attached to the body of the machine and also an inspection light in the waste bin together with cement bottle and brush. A scraper block is supplied and also a scraper block setting jig and support shelf rubber-covered. The whole machine is finished in first quality grey hammer and all metal parts other than cutter blades are hard flash chromed.

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Personnel: Arthur H. Bolt, Robert King, Albert M. Uremovich, R. D. Freeborg, Carlos H. Elmer.

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Exhibiting: WESTREX 1200 Series Portable Magnetic Recording System; WESTREX RA-1621 Multiple Unit Magnetic Re-Recorder; WESTREX 3-C StereoDisk Recorder System; WESTREX Audio-Visual Unit, used in manufacturing to increase the efficiency of assembly operations.

Personnel: Ted L. Jacobsen, Frank E. Pontius, Ralph E. Lovell, Herbert A. Thurman.

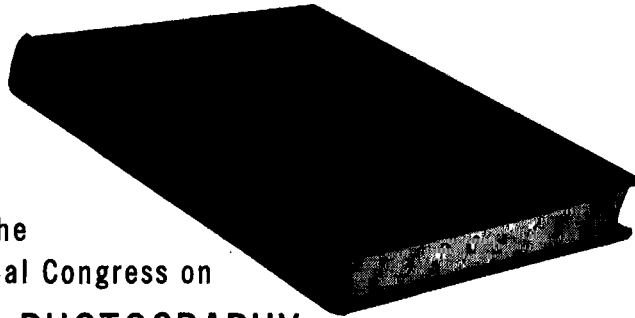
Wollensak Div., Revere Camera Co. Booth 113
850 Hudson Ave., Rochester 21, N.Y.

Exhibiting: Featuring new WF30 Fastax High-Speed Camera; 30 models Fastax-Fastair High-Speed Motion-Picture Cameras and accessories; reversal-negative 16mm portable film processor; Mirrotel lenses and boresights; Pro-Raptar lenses, 35mm and 70mm formats.

Personnel: Fred M. Emens, Charles Wade, Sr., Tom Bowman.

Education, Industry News

an SMPTE
publication . . .



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Washington, D. C., 1960 / Chairman: Max Beard

Edited by
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Society of Motion Picture and Television Engineers

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Film Effects of Hollywood has just completed the design and construction of the first "Type I" 70mm optical and contact registration special effects printer ever built, to be used on the first Cinerama theatrical motion-picture production. According to Linwood Dunn, President of Film Effects of Hollywood, this unique new printer was built on a crash program that saw completion and operation within five weeks time.

The operation, under the direction of Cecil Love and Don Weed, encompasses all printing and composite photographic effects for the intergalactic space travel film *Journey to the Stars* now being produced by Fine Arts Productions, of Hollywood. The 2¼-in. square camera aperture format produces 5.2 ten-sprocket frames per foot, and the film will be projected at the rate of 4.6 ft/sec onto the world's largest screen, a 360° x 160° dome 95 ft in diameter, now being installed in the Seattle World's Fair Spacearium.

Industrial products manufactured by Fairchild Camera & Instrument Co. will be distributed in the Western United States by Gordon Enterprises, 5362 N. Cahuenga Blvd., N. Hollywood. Products include high-speed cameras, Mini-Rapid processors, flight data analyzers, Oscillo-record cameras and Fairchild-Polaroid identification cameras.

Construction of a new plant near its Richmond, Va., headquarters has been announced by Flight Research Corp., a subsidiary of Giannini Scientific Corp. of New York. The one-story building, which is expected to be ready for occupancy sometime in 1962, will contain 14,500 sq ft of floor space. It is designed to house the general offices of the company and facilities for its Eastern Division's engineering and manufacturing operations. Plans include research and engineering laboratories, a precision machine shop, and specialized facilities for assembling and testing photographic and electronic instruments.

The magnetic striping services of Frederick F. Watson, Inc., were recently acquired by Cine Magnetics, Inc., 202 E. 44 St., New York 17. The firm specializes in 8mm and 16mm magnetic sound striping and also offers sound recording, editing and distribution services.