

new products (and developments)

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

A 3-dimensional color TV system, announced as the "world's first" by General Electric Co., Schenectady, N.Y., has been developed for remote servicing of reactors used in research for a nuclear aircraft propulsion system. The "first" refers to the use of color in a stereo system. The system was developed for the company's Aircraft Nuclear Propulsion Dept., Evendale, Ohio, and is not, in its present stage, adaptable for other than closed-circuit uses.

In use, the TV camera will be positioned inside the radioactive area. The viewing screen will be located a considerable distance away, behind thick shielding walls and near the controls of a mechanical manipulator. Movements of the manipulator inside the radioactive area will be directed by a technician from the 3-D color picture appearing on the screen. The technician will view this picture through special polarizing glasses similar to those used with recent 3-D motion pictures. Included with manipulator controls will be one used to aim and focus the twin lenses of the camera.

The observer's viewpoint is effectively transferred to that of a camera equipped with a dual-optical system having perspective similar to that of the two eyes of the observer; however, instead of presenting the pictorial image to two sensitive surfaces, as the human eyes do, the stereo-TV system presents two images to a single sensitive surface, a TV tube, on a time-sharing basis.

The frequency of the time sharing is at the picture rate of the TV system, in this case 90 pictures/sec. by alternating 45 pictures/sec for each eye, engineers have eliminated any objectionable flicker. A rotating shutter in the special color-TV camera alternately transmits the scene as viewed from two points to the camera's tube. The distance between the two points corresponds approximately to twice the distance between a person's eyes.

In the viewing console, light from the television image formed on the cathode-ray tube passes through a drum composed of alternate segments of polarizing filters with axes of polarization at right angles to each other. The drum revolves in synchronism with the TV frame rate of the camera and polarizes alternate frames vertically and horizontally. Thus all left-eye pictures are polarized in one direction and all right-eye

the
"head
start"
that
gives
you
truer
transfers

SOUND CRAFT

FULL-COAT MAGNETIC FILM

The truer your initial recording...the truer will be your final release. Only Soundcraft Full-Coat Magnetic Film, with its greater output, and higher signal-to-noise-ratio...can give you the fullest fidelity original sound track!

"Oscar"-winning Soundcraft oxide formulation plus the original Soundcraft Uni-level® Coating and Micro-polishing® processes—result in the exceptional frequency response and defect-free recording surface of Soundcraft Magnetic Film—to give you transfers—free of drop-outs, noise, distortion and fuzziness.

| Results of comparative tests of Soundcraft and competitive magnetic film at 1000 cps. | Relative Output Levels: |
|---|---|
| | Soundcraft— +27db Brand X— +24db Brand Y— +23½db |

COMPARE THE UNIFORMITY AND OUTPUT DIFFERENCE!

These Soundcraft Full-Coat and Magna-Stripe Films will speed your sound production, improve your sound quality—and save you money.

FOR ORIGINAL RECORDING

35mm—1000 and 2000 ft. lengths • 17.5mm—1000 and 2000 ft. lengths
 16mm (single or double perforated)—400, 800 and 1200 ft. lengths

Soundcraft Full-Coat
Magnetic Film

FOR EDITING AND RELEASES

Soundcraft Magna-Stripe
and Magna-Stripe Raw Stock

WRITE FOR SOUND CRAFT MAGNETIC FILM BROCHURE

DO YOU USE RECORDING BLANKS? ... YOUR BEST SOURCE IS SOUND CRAFT!

REEVES SOUND CRAFT CORP. 10 East 52nd St., N. Y. 22, N. Y.
 W. Coast: 338 N. LaBrea, L. A. 36, Calif.

pictures are polarized in the other direction.

An observer viewing the screen — with his polarized spectacles — sees the left optical path with his left eye and the right optical path with the right. The 45-frame/sec rate gives him stereovision without an objectionable flicker.

A new television screen developed by Dr. Charles Feldman in the Naval Research Laboratory, Washington, D. C., as part of a program for improving aircraft instrumentation is expected to have far-reaching effects on the TV industry.

The basis for the new screen is a process of depositing phosphor on the face of the TV tube in the form of a thin transparent film instead of the opaque white powders now in use. The research which brought about this development was aimed at im-

proving the quality of daylight viewing. In addition to achieving this goal, a resulting simplified approach to color television is expected to contribute to the development of 3-dimensional viewing.

In applying this process to color TV, phosphor films that create different colors can be deposited one on top of the other and may be lighted separately or mixed by controlling the speed or direction of the electrons in the tube. By using one film of each of the three primary colors, the complete color spectrum can be obtained by proper mixing.

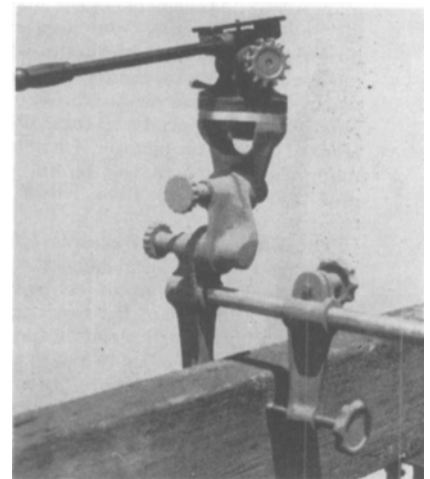
Initial research had the purpose of developing a transparent luminescent screen for use in the cockpit of an airplane. Part of aircraft development is aimed at replacing the present windshield with a thin transparent display medium which will

enable the pilot simultaneously to receive visual and electronic information.

The process of producing the screen involves the evaporation of the highest grade commercial phosphorus in a vacuum bell-jar system. It is then condensed on a heated glass surface, with precautions being taken to eliminate all sources of impurities. The phosphorized glass is then fired and baked.

Detailed descriptions of the process and the steps taken in the research leading to the discovery will be presented by Dr. Feldman at the Society's Fall Convention in Philadelphia. Before accepting the Navy assignment, Dr. Feldman's main interest had been in basic research in solid state physics.

Moeller Anamorphic Lenses for 8mm and 16mm wide-screen motion-pictures are distributed by Paillard, Inc., 100 6th Ave., N.Y. 13, manufacturers of Bolex equipment. The lenses attach by bracket to cameras and projectors. The system gives a $1\frac{1}{2}$ time expansion factor. The ratio is 2:1. For the 16mm camera the system has a focusing range of 3 ft to infinity. It can be mounted in front of the Switar 16mm, the Switar, Pizar and Lytar 1-in. lenses, the Yvar 3-in. and 4-in., as well as the standard and telephoto lenses of other makes provided their front diameter does not exceed 30mm. The same anamorphic lens is used in front of a regular projection lens with a focal length of 30mm or more. Two lens systems are available for the 8mm camera, focusing or fixed focus. The focusing model has a range of 2 ft to infinity.



The Cinekad Camera Clamp uses a C-type bracket to fasten a motion-picture camera to restricted locations such as trees, windows, wild life shooting hide-outs, wind tunnels or rockets. The head of the clamp revolves and tilts in all directions and accommodates 16mm and 35mm cameras. It is made in two models: C-16 which will take a load up to 60 lb; and C-35, to 120 lb. Further information is available from Cinekad Engineering Co., 763 10 Ave., New York 19.

A license agreement on certain aspects of Electrofax has been granted by Radio Corp. of America to Photo Research Corp. of Hollywood. Karl Freund, President of Photo Research, recently announced his

For Film Libraries SUMMERTIME is RECONDITIONING Time...

Summer is with us...and your prints are out of circulation for a while. So this is the ideal time to have them restored to good condition through Peerless servicing:

- inspection and cleaning • scratches removed
- defective splices remade • perforations repaired • curl or brittleness corrected

Then, thoroughly rejuvenated, your prints will be ready for hard use in the fall.

Send us your prints *now*

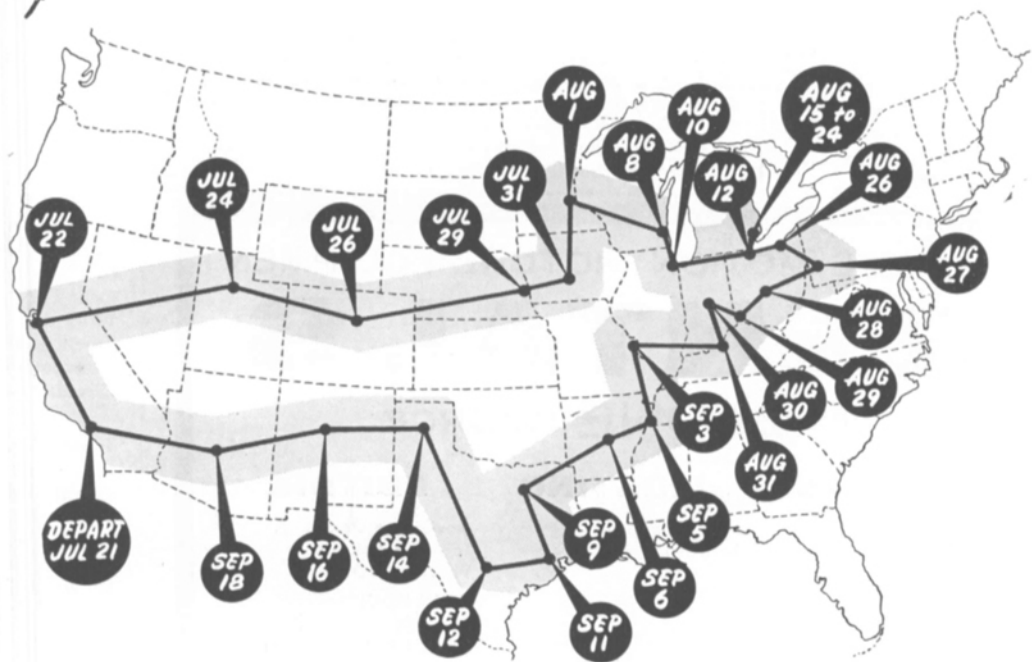
PEERLESS
FILM PROCESSING CORPORATION
165 WEST 46th STREET, NEW YORK 36, N. Y.
959 SEWARD STREET, HOLLYWOOD 38, CALIF.



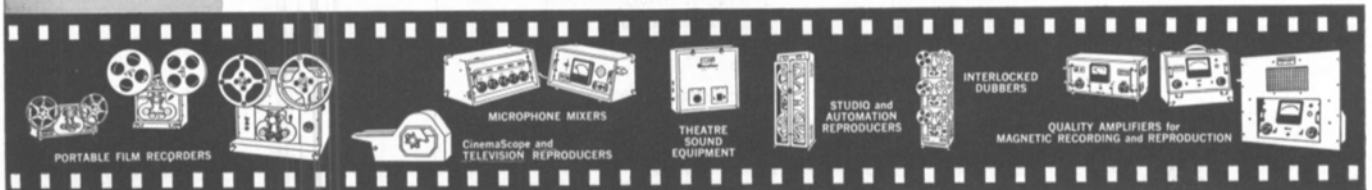
hitting the trail July 21

THE 5TH ANNUAL NATIONWIDE

MAGNASYNC SOUND SAFARI



INTERNATIONAL LEADERS IN THE DESIGN AND MANUFACTURE OF QUALITY MAGNETIC FILM RECORDING DEVICES



MAGNASYNC MANUFACTURING CO., LTD., 5546 Satsuma Ave., North Hollywood 2, Calif.

DEALERS

NEW YORK—Camera Equipment Co., 315 W. 43rd St. New York 36 JUdson 6-1420. Cable Address CINEQUIP.
CHICAGO—Zenith Cinema Service, Inc., 3252 Foster Ave., Chicago 25, Ill. IRving 8-2104.

SAN FRANCISCO—Brooks Camera Co., 45 Kearney St., San Francisco, Calif. EXbrook 2-7348.

INDIA—Kine Engineers, 17 New Queen's Rd., Bombay India.



NOW—The Tripod that Sets New Standards

The
Newest

PROFESSIONAL JR.*
TRIPOD Obsoletes all others

Always considered the ultimate in tripod performance, the newest PROFESSIONAL JR. incorporates these great, up-to-date improvements:

- Simplified camera attaching method with easily accessible knob
- Adjusting telescoping pan handle with adjustable angle, and sockets for left, right or reverse tilt
- Special pan tension adjusting knob, independent of pan lock
- Cast in tie-down eyelets
- Self-aligning double leg locking knobs

With all these remarkable improvements, PRO JUNIOR still maintains the precision workmanship which has made it world famous, still offers America's greatest tripod value. **THERE IS NO INCREASE IN PRICE.**

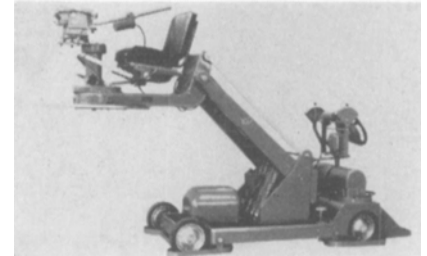


SALES
SERVICE
RENTALS

*Reg. U. S. Pat. Off. Pat. No. 2318910

ADDITIONAL CECO PRODUCTS: Complete line of 16 and 35mm Motion Picture Cameras—Mole Richardson & Colortran Lighting Equipment—Sound Equipment—PHOTO RESEARCH Color Temperature Meters—Moviola—Dollies—Ace Clear Vision Splicers—Editing Barrels—Editing Rocks—Electric Footage Timers—Exposure Meters—Silent & Sound Projectors—Screens—Film Processing Equipment—Film Shipping Cases—Film Editors Gloves—Marking Pencils—Retractable Grease Pencils—Rapidograph Pens—Flomaster Pen Sets—Kum Kleens Labels—Blooping Tape—Blooping Ink—Dulling Spray—Alpha Ray Plutonium Lens Brushes—Filters—Used Number & Letter Punches.

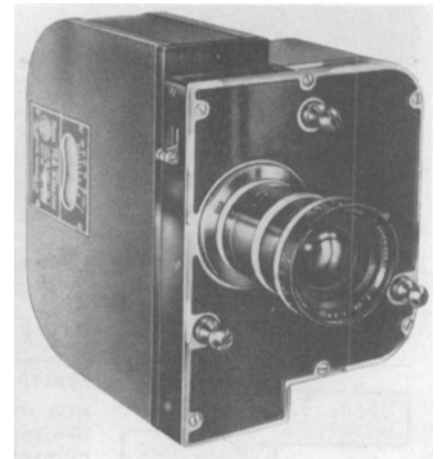
firm's entrance into communications electronics and related fields. Photo Research has been primarily engaged in manufacturing light-measuring instruments, a field in which Dr. Freund has been an active inventor. Other activities have been optical engineering and electronic instrument development. Electrofax, as a new improved process of magnetic printing, is involved in some of the firm's new activities.



The Mark II is a new version of the power-operated camera crane truck for television made by W. Vinten Ltd., London, Eng. The new equipment is reported to be more flexible than the original with greater speed range. A 10-speed control for forward and backward tracking permits a maximum speed of approximately 150 ft/min and a minimum of 27 ft/min with a further reduction possible by application of a foot brake.

The truck is operated by two 1/4-hp electric motors which drive the rear wheels and a 1/4-hp motor operating the jib. Maximum height is 6 ft 3 in.; minimum, 1 ft 11 in. Maximum length is 11 ft 9 in.; approximate weight, 1742 lb. It has a turning circle of 15 ft 6 in. The entire camera head and the operator's seat can be rotated through 360°, with provision for control by applying friction and also by a positive lock. The equipment is designed to operate 110-v d-c, and a rectified unit is available. Further information can be obtained from Cinematograph Export Ltd., 715 N. Circular Rd., London N.W.2, Eng.

Type 232 Mark 7 Instrumentation Camera, designed for automatic recording on 35mm film over a wide range of exposure and interval times, is a product of Canadian Applied Research, Ltd., 1500 O'Connor Dr., Toronto, Can. The camera is designed for flexibility in instrumentation and all types of air photography. The new camera forms the basis for a series of cameras, the



COMPLETE MOTION PICTURE EQUIPMENT

RENTALS

FROM ONE SOURCE

CAMERAS

MITCHELL

16mm
35mm Standard
35mm Hi-Speed
35mm NC • 35mm BNC

BELL & HOWELL

Standard • Eyemo • Filmo

ARRIFLEX

16mm • 35mm

WALL

35mm single system

ECLAIR CAMERETTE

35mm • 16/35mm
Combination

AURICONS

all models single system
Cine Kodak Special
Maurer • Bolex
Blimps • Tripods

DOLLIES

Fearless Panoram
McAlister CRAB
Platform • Western
3 Wheel Portable

LIGHTING

Mole Richardson
Bardwell McAlister
Colortran
Century
Cable
Spider Boxes
Bull Switches
Strong ARC-Trouper
10 Amps 110V AC 5000W-
2000W-750W
CECO Cone Lites
(shadowless lite)
Gator Clip Lites
Barn Doors
Diffusers
Dimmers
Reflectors
ZOOMAR 35mm

WE SHIP VIA AIR, RAIL OR TRUCK

EDITING

Moviolas • Rewinders
Tables • Splicers
Viewers (CECO)

GRIP EQUIPMENT

Parallels • Ladders
2 Steps • Apple Boxes
Scrims • Flags
Gobo Stands
Complete grip equipment

SOUND EQUIPMENT

Magnasync-magnetic film
Reeves Magicorder
Mole Richardson Booms and
Perambulators

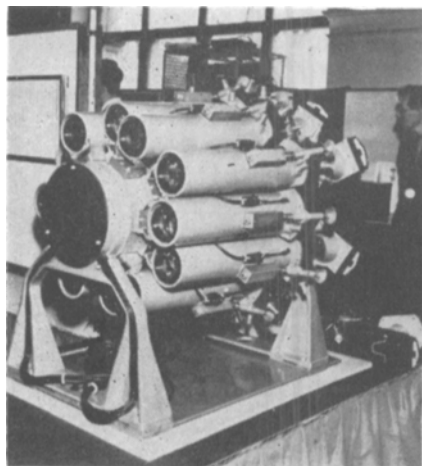
Portable Mike Booms
Portable Power Supplies to
operate camera and recorder

FRANK C. ZUCKER

CAMERA EQUIPMENT CO., INC.

Dept. JS 315 West 43rd Street,
New York 36, N. Y. JUDSON 6-1420

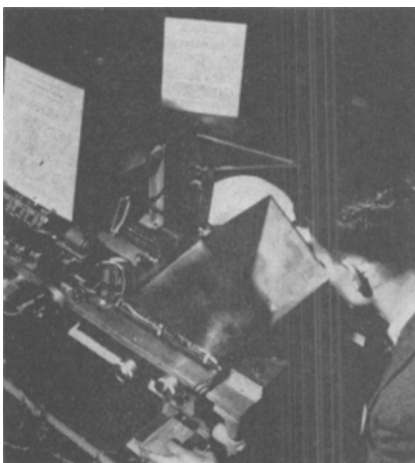
main components and assemblies of which are made on the module system for ease in conversion from one type of camera to another. Dimensions are $7\frac{1}{2} \times 5\frac{7}{8} \times 6\frac{1}{2}$ in. The weight is $13\frac{1}{2}$ lb.



Two devices having application to high-speed photography were exhibited at the British Physical Society Exhibition held last March in London. The Armament Research and Development Establishment of Great Britain exhibited a high-speed camera and the Cavendish Laboratory, Cambridge, exhibited an instrument for automatic calculation of tracks of nuclear particles.

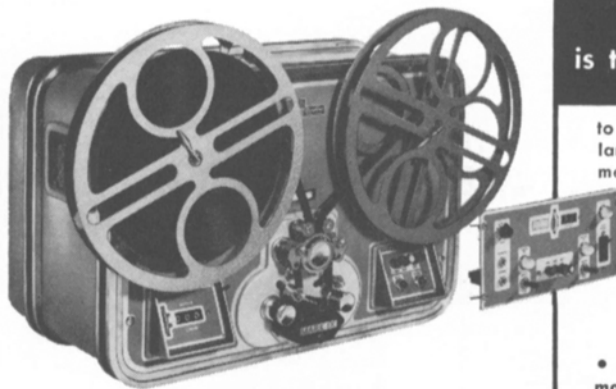
The high-speed camera, which is actually an assembly of 12 cameras, takes pictures with exposure times as short as a ten-millionth of a second and at intervals of between a fraction of a millionth and a thousandth of a second. The timing is entirely electrical. The camera was designed primarily for studies of the early stages of explosions. It can also be used with artificial illumination supplied by a high-intensity light flash.

The large number of photographs available showing the tracks of nuclear particles presents a problem to the physicist. To use the new device, the operator need only line up corresponding points on pairs of stereo-photographs and press a button. The instrument then punches out on teleprinter tape all the information needed for calculation. The tape is then fed into an electronic computing machine which calculates automatically the lengths, angles and curvatures of all tracks.



CAMERA EQUIPMENT COMPANY

presents the new Magnasync
Magnaphonic Sound Recorders



The New MARK IX MAGNAPHONIC SOUND SYSTEM, SYSTEM "A"

with built-in record play amplifier and remote control assembly is an engineering achievement with exclusive features found in no other recorder. Has recording, playback, and bias oscillator circuits enclosed in separate plug-in assemblies; easy accessibility to all amplifier components; push-button motor controls; remote control footage counter, record-play & film-direct monitor switches. Available in 16mm, 17½mm & 35mm priced from \$2,145.00

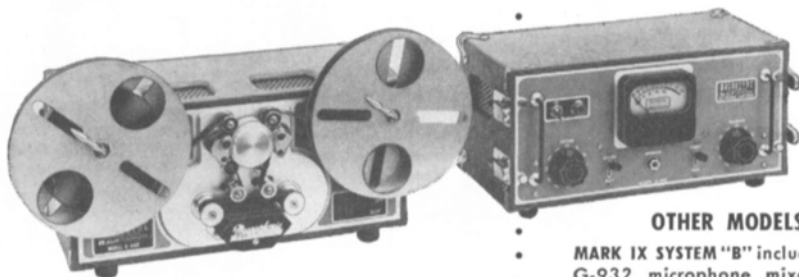
For quality & economy
MAGNASYNC
is the perfect answer—

to the needs of film producers, large or small, feature or commercial, because—

- It delivers clean, distortion-free sound.
- It is compact, lightweight, portable, meets the latest SMPTE standards.
- It serves every segment of motion picture and spot TV production.
- Purchaser is not required to pay royalties on footage consumed.

BUT MOST OF ALL, the MAGNASYNC MAGNAPHONIC line contains exclusive features found in no other recorders, yet all carry low, low price tags.

Trust your own ears—trust your Sound Man's judgment. Switch to MAGNAPHONIC SOUND.



Model X-400

is a completely synchronous 16mm Magnetic film recording channel, professional in every detail. Can be operated in "console" position, as shown, or stacked as one unit. Features simple camera or projector interlock, instantaneous "film-direct" monitoring, and low power consumption. Ideal for the low budget producer.

\$985.00

Prices subject to change without notice

OTHER MODELS:

- MARK IX SYSTEM "B" includes Model G-932 microphone mixer with 2 channel slide wire attenuators. \$2,820.00
- MARK IX SYSTEM "C" includes Model G-924 microphone mixer and remote control assembly packaged in matching portable case. \$2,520.00
- TYPE 5 features built-in Monitor amplifier, separate overdrive torque motor, record gain control, and playback control. Priced from \$1,570.00

FRANK C. ZUCKER

CAMERA EQUIPMENT CO., INC.

Dept. JS 315 West 43rd St.,
New York 36, N. Y. JUdson 6-1420

Twenty cameras are used in a TV system that enables test engineers to observe static test firings of high-thrust, liquid propellant rocket engines. The tests are being carried out by Rocketdyne, a division of North American Aviation, Inc., 6633 Canoga Ave., Canoga Park, Calif., at the company's Propulsion Field Laboratory in the Santa Susana mountains. The cameras are shock-shielded on permanent mounts and are remotely controlled from the test stands. Mounted at 120° angles from the stands, the TV cameras monitor test firings at close focus, enabling engineers to get an unrestricted view of the engine's performance during "hot tests."

Ten independent distributors have been appointed to represent the industrial TV products line recently announced by Allen B. Du Mont Laboratories, Inc., 750 Bloomfield Ave., Clifton, N. J. They are: Audio Equipment Co., Detroit; Engineered Electronics, Inc., Pittsburgh; Hunter and Bell, Inc., Buffalo, N.Y.; A.B. Loudermilk Co., San Francisco; John A. Morefield Co., Camp Hill, Pa.; New Jersey Communications Corp., Kennilworth, N.J.; Research Instruments Corp., Richmond, Va.; Sound Systems, Inc., Long Island City, N.Y.; J. H. Sparks, Inc., Philadelphia; and TESCO Telephone Electronic Sound Corp. St. Louis.

Anochrome Professional Camera Film Type 242, a 16mm motion-picture color film has been announced by Ansco, 175 Clinton St., Binghamton, N.Y. It is a soft-gradation, fine-grain color film with an Exposure Index of 10 under 3200 K illumination. Additional information can be obtained from Ansco Sales Offices in New York, Hollywood or Binghamton.

Special Gaumont-Kalee sound equipment has been designed, built and installed by Rank Precision Industries Ltd. for the Michael Todd film, *Around the World in 80 Days*, shown at the Astoria Theater in London. The film shown at the Astoria has the sound and picture on separate films.

The projection equipment is linked to six individual Gaumont-Kalee "21" amplifier channels, and sound from the screen is reproduced through five large Duosonic speaker assemblies. The effects channel incorporates a modified integrator unit and three separate power amplifiers feeding the more than 40 effects-speakers situated to the rear, above, and to the sides of the audience.

The projection equipment made especially for this "CineStage" production is based on the "21" projector, with water-cooled picture gate adapted for the special film and with Mole-Richardson, Gaumont-Kalee high-power arcs with their self-contained water circulating system. Each projector is mounted on a tandem-drive assembly linked by selsyn power transmitter to a studio-type follower head capable of reproducing the recording on 6-track film. Modification has been made to the lens-holders to accommodate special lenses. The projector installation also included the provision of special stands giving a lower optical center.

Bulletin 34 and 35 in the "Sound Talk" series are now available from the Minnesota Mining and Mfg. Co., Dept., M7-181 St. Paul 6, Minn. Bulletin 34 is 5 pp. on "Various Aspects of Tape Noise" and Bulletin 35 is 4 pp. on "Physical Limitations of Magnetic Tape" discussing the effects of heat, humidity and tension on magnetic tape.

Industrial Sound Films, Inc., is a new firm located in Atlanta, Ga. Owners are George M. Kirkland, President of International Sound Films; and H. McKinley Conway, Jr., President of Conway Publications, both of Atlanta. The new company will offer industrial film production services and will supply field camera crews, script and soundtrack personnel and technical and research facilities.

The Mixer Magnesound has been announced by Victor Animatograph Corp., Plainville, Conn. The attachment will be produced in the Plainville plant of Kalart Co., with which Victor Animatograph recently became affiliated. Designed to permit magnetic film recording and playback on all Victor 16mm optical sound projectors, major components include a magnetic sound drum incorporating separate record-playback and erase heads, microphone, and magnetic amplifier. The equipment is available through Victor distributors and lists at \$199.45.

OUR EXPERIENCE IS YOUR KEY TO
SERVICE & DEPENDABILITY



CAMART DUAL SOUND READER

- Edit single and double system 16 or 35mm optical sound.
- Edit single system Magnastripe or double system Magnetic sound.
- Use with any 16mm motion picture viewer to obtain perfect lip-sync match-

- ing of picture to track.
- Works from left to right or right to left.
- Magnetic Model **\$185.00**
- Optical Model **\$195.00**

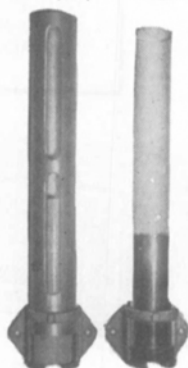
CAMART CORE DISPENSER

Attach to wall or on table, keeps cores handy at all times.

Plastic Clear Vue
16"..... **\$12.50**

Aluminum
16"..... 9.50
24"..... 11.50
36"..... 14.50

Easily adjustable for 16 & 35mm.



GOSSEN METER

Color Temperature Meter/Filter Indicator

- Eliminates costly trial exposures.
- Meter shows color temperature of light source (2600 & 20,000° K)
- Indicates correct filter required for correct color balance with any color film.
- With leather case and neck chain **\$39.95**



ECCO FILM CLEANER

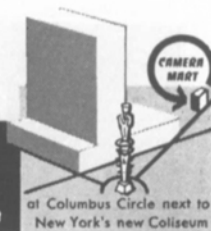
Ecco #1500 Speedroll applicator—an efficient time-saving method to clean film. **\$29.50**

Ecco cleaning fluid per gal. **\$9.60** Ecco

#2000 NEGATIVE film cleaning fluid for cleaning negative film safely. **\$6.50** per gal.

the **CAMERA MART** inc.

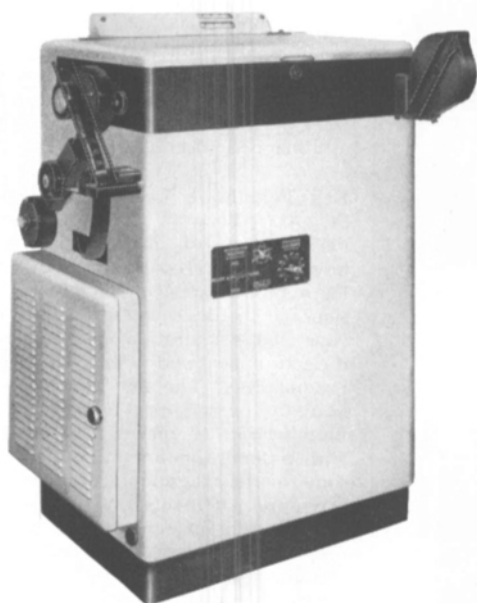
1845 BROADWAY (at 60th St.) NEW YORK 23 • PLaza 7-6977 • Cable: Cameramt





"We have just purchased two Aiglonne processors..."

reports Sidney P. Solow,
Vice-President and General Manager
Consolidated Film Industries
A Division of Republic Pictures Corp.



"The Andre Debrrie Aiglonne daylight processor has three points of superiority which are the qualifying factors in our purchase:

1. The machine is always ready for service regardless of the intervals between periods of use.
2. There is no leader used in the Aiglonne since the unique film drive and film path lead in the good film by itself.
3. There is no chemical control problem whatsoever since the solutions used for any length of film are continually discarded as they are exhausted."

Find out today why leading motion picture and television executives like Mr. Solow call the Aiglonne Model "D" "the most important advance in motion picture processing in three decades."

Wire, phone or write for complete literature.



ANDRE DEBRIE

MANUFACTURING CORPORATION

39 WEST 32ND STREET, NEW YORK, N. Y., TELEPHONE: PENNSYLVANIA 6-6924

A SUBSIDIARY OF BELOCK INSTRUMENT CORPORATION: COLLEGE POINT, L. I., N. Y.

WEST COAST: GORDON ENTERPRISES, 5862 N. CAHUENGA BLVD., N. HOLLYWOOD, CALIF.

SOUTHEASTERN STATES: CLIFFORD E. MATTOX, 209 BEVERLY ROAD, COCOA BEACH, FLORIDA.

CANADA: ANDRE DEBRIE COMPANY (CANADA), 33 ST. JAMES STREET, E., MONTREAL.

Kinoptic Apochromats, lenses for 16mm cameras, are distributed in the United States by Karl Heitz, Inc., 480 Lexington Ave., New York 17. The lenses, which are described as providing correction of all primary colors, are in a matched series ranging from 12.5mm up to 500mm. Prices range from \$169 for 25 mm *f*/2 to \$499 for 500 mm *f*/5.6.

"Let's Cover the Broad Facts About Narrow Tooth Sprockets" is the subject of Bulletin No. 10 available without charge from Charles H. Thonsen, 3124 Homehurst Ave., Pittsburgh 34. The one-page bulletin discusses the advisability of re-grinding 35mm sprockets to narrow-tooth type.

Fotoptica, Sao Paulo, Brazil, has announced the completion of its new photographic laboratory which offers all types of professional photo finishing services. The laboratory specializes in prompt attention to tourists' requirements and offers many professional services including microfilming, printing and reduction of motion-picture films.

Gordon Enterprises, 5362 N. Cahuenga Blvd., N. Hollywood, is conducting a series of workshop sessions for military personnel. The first session was attended by Naval Reserve photography specialists who visited the plant as part of a 2-week conference held at the U. S. Naval Air Station, Los

Alamitos, Calif. Topics covered in the sessions will include a discussion of emergency repairs while in flight, and demonstrations of repair services performed at the plant. Discussions of equipment will include intervalometers, stereo viewers, various types of aerial cameras, high-speed and radar cameras, aerial lenses and shutters.

Standard Electronics, 29-01 Borden St., Long Island City 1, N.Y., a division of Dynamics Corp. of America, has announced that it has leased a newly constructed building of 170,000 sq ft to house its communications operations, including the recently acquired stock of Radio Engineering Laboratories, Inc. The company manufactures various types of communications equipment including television transmitters and amplifiers for the broadcasting industry.

"**Audio Frequency Equalizers**" is a 16-page catalog issued by Cinema Engineering Div., Aerovox Corp., 1100 Chestnut St., Burbank, Calif. The catalog contains product illustrations and charts showing response characteristics, dialogue and variable equalizer diagrams. It also includes eight case studies which describe actual problems and their solutions. The catalogue is available upon request to the company's manager, James L. Fouch.

Aerovox-Pacific, 1100 Chestnut St., Burbank, Calif., will act as the Southern California sales office for Aerovox Divisions which are in New Bedford, Mass.; Olean, N.Y.; Myrtle Beach, S.C.; West Orange, N. J.; Burbank, Calif.; and Santa Ana, Calif. Aerovox-Pacific will handle product sales of Aerovox Cinema Engineering Division through the already established Cinema sales representatives and export division. Products under the new sales setup will include Aerovox carbofilm resistors, modules, filters and capacitors, H-Q capacitors, Crowley ceramic products, Cinema Engineering wire-wound resistors, equalizers, instrument switches, audio equipment and magnetic degaussers.

Bell Telephone Laboratories, 463 West St., New York 14, have announced the development of new ferrite materials having properties particularly well adapted for a broad range of microwave applications. The desirable properties include controllable saturation magnetization, low dielectric loss, and a high degree of reproducibility. The new materials are essentially magnesium, manganese, aluminum ferrites or nickel manganese ferrite with a small amount of copper replacing some of the magnesium or nickel. Microwave measurements on the new ferrites indicate that in general they are comparable to or better than similar materials containing no copper. Applications include microwave gyrators, isolators and similar devices.

General Precision Laboratory's new test building was formally opened June 3 at Pleasantville, N.Y. Completed at a cost of \$450,000, the 23,200 sq ft building contains facilities for testing military and commercial electronic equipment. Devices to simulate extremes of temperature, altitude, humidity, acceleration, vibration and shock are used in the testing.



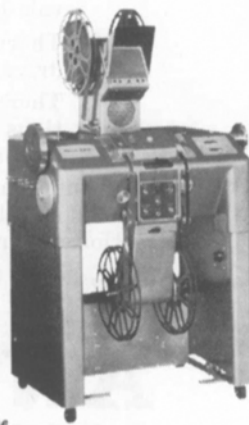
**PROFESSIONAL
QUALITY
IN 16MM
IS HERE!**



Today's expanding 16mm production requires precise and dependable equipment such as the new Westrex Recorder-Reproducer and the Academy Award-winning Westrex Editor to match Hollywood standards and to keep costs down.

THE WESTREX 16MM MAGNETIC RECORDER-REPRODUCER (Type RA-1552-G) is easy to control and operate. It records, re-records and reproduces. Fast rewind, minimum maintenance and full 2400-foot reel capacity are only a few of the features that make this equipment so valuable for high-quality 16mm production.

THE WESTREX 16MM EDITOR (Type RA-1527) is a versatile editing machine. Every feature to simplify viewing and synchronization is incorporated. Projection-viewing which requires no adjustment of the normal optical system is provided. It was designed in co-operation with leading Hollywood studios. It won an Academy Award for scientific and technical achievement.



Write today for further information about the complete Westrex line of 16mm studio equipment.



Westrex Corporation

111 Eighth Avenue, New York 11, N. Y.
Hollywood Division: 6601 Romaine Street, Hollywood 38, Calif.

STUDIO
RECORDING
SYSTEMS
THEATRE
SOUND
SYSTEMS

NOW in the East it's...

MOVIELAB

for

COLOR

- 16mm-35mm **EASTMAN COLOR**
Negative-Positive Processing
- Staffed by experienced **COLOR**
technicians.
- Also **KODACHROME** and **ANSCO-**
COLOR Printing.



COLOR CORPORATION

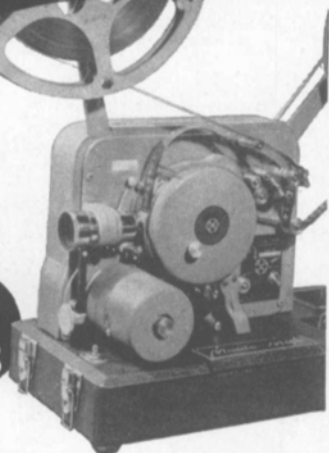
MOVIELAB BUILDING, 619 W. 54th ST., NEW YORK 19, N. Y., JUDSON 6-0360

FOR *Your* EVERY NEED
THE EASY TO USE

SENSATIONAL NEW
Movie-Mite
Supreme

Custom features at mass produced price

SAVE
1/3



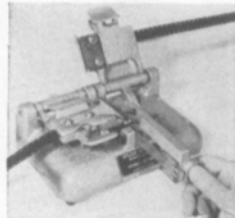
SMPTE MEMBERS

Here's a quality projector designed for professional use with rugged, precision construction. Guaranteed a lifetime. Easiest to use. Easiest to carry. Only 27½ lbs.

Complete \$298.50



SPLICE-O-FILM



The finest hot automatic splicer in the world. Fastest, strongest professional splices. Only \$99.50



Harwald STORAGE CABINETS



for Beauty
Safety
Convenience
Efficiency
Economy.



Moviscop VIEWER

The very finest 16mm action viewer. Precision German mechanism. For producers—T.V.—Labs.



Please check squares above for complete information on any or all items shown and mail this ad to:

THE HARWALD CO.

1216 Chicago Ave., Evanston, Ill.
Phone: Davis 8-7070

An 8mm automatic motion-picture camera, reported to be the first to use light energy alone to power the lens-setting mechanism, has been introduced by Bell & Howell Co., 7100 McCormick Rd., Chicago 45.

The current is transmitted directly from the photoelectric cell to a mechanism controlling the lens iris. No batteries, motors or springs are used for the exposure setting. The electric eye, which adjusts to changing light faster than the human eye, sets the lens for proper exposure before the starting

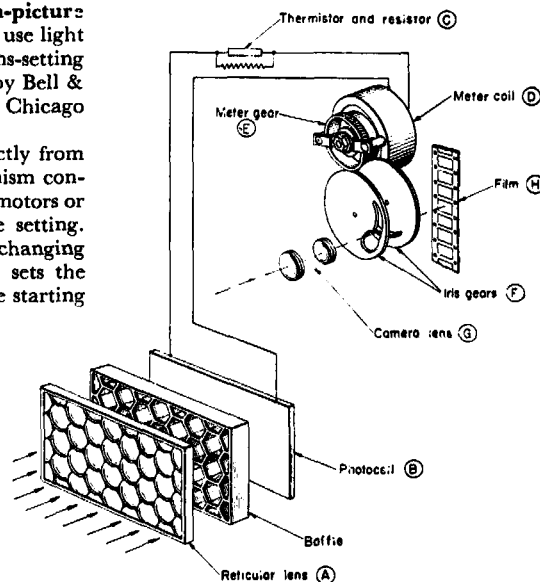


Figure 1

button is touched. It can operate the lens through its full range from $f/1.9$ to $f/16$ in less than one second.

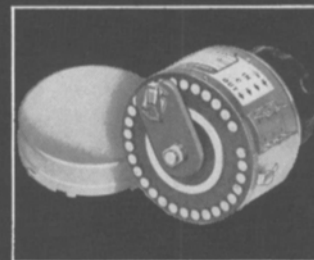
The camera can also be operated manually when it is desirable to set the lens for under- or overexposure for special effects.

Figures 1 and 2 show how the camera operates. The light enters the reticular honeycomb lens combined with a baffle (A), its angular coverage controlled to match the coverage of the camera lens.

The light then reaches photocell (B) and generates an electric current (the more intense the light, the stronger the current). The electric current flows through an electrical circuit, passing through a resistor and thermistor (C) which compensate the current for temperature variations.

When the current reaches the meter coil (D) it rotates or deflects the meter according to the strength of the current. On one end of the coil is the meter needle or needle pointer on the face of the camera. A gear

EVERYTHING NEW
IN ATTENUATOR
DESIGN
HAS COME
FROM DAVEN



Write for the most complete catalog on attenuators in the world.

NOW CARRIED IN STOCK BY YOUR LOCAL JOBBER



THE **DAVEN** CO.
LIVINGSTON, NEW JERSEY

WORLD'S LARGEST MANUFACTURER OF ATTENUATORS

Bausch & Lomb

**NOW
AVAILABLE!**

BALTAR

LENSES



IN ARRIFLEX 35 MOUNTS...

We are pleased to announce the immediate availability of the following Baltar lenses (F/2.3, T/2.5) for the Arriflex 35:

30mm 35mm 50mm 75mm

They are supplied separately or complete with new Arriflex 35 cameras. Baltar lenses are precision mounted by Arri to match camera specifications and also feature Arri follow-focus wings.

Baltar lenses will make the world-famous Arriflex 35 even more desirable for American Cinematographers.

Sold only through franchised ARRIFLEX dealers

KLING

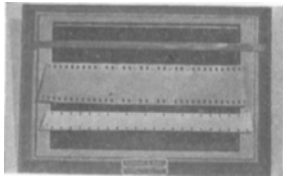
PHOTO CORPORATION

257 FOURTH AVENUE, NEW YORK 10, N. Y.

7303 MELROSE AVENUE, LOS ANGELES 46, CALIF.

Arriflex is a member of the Kling family of fine West German photographic products.

F&B FILM REPAIR AND SPLICING BLOCK SAVES DAMAGED FILMS



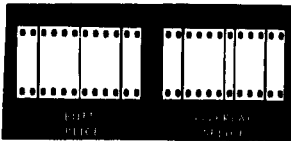
19.95

Used with **NEW MAGIC MYLAR SPROCKETED TRANSPARENT SPLICING TAPE**

- **ECONOMICAL**—Repairs torn slide films and movie films, without loss of a single frame.
- **EFFICIENT**—replaces torn or missing perforations—without loss of a single frame.
- **SAFE**—prevents regular lap splices from opening.
- **INGENIOUS**—makes butt splices in 16mm or 35mm film.
- **VERSATILE**—includes a complete 1/4" magnetic tape splicing block.

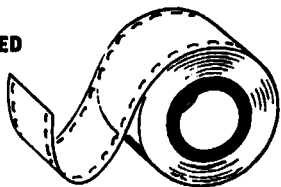


- **ACCURATE**—provides 100% registration of sprocket holes.
- **NON-MAGNETIC**—aluminum construction insures perfect safety for handling magnetic or magna striped film.
- **INVISIBLE**—optical transmission of spliced or repaired frames unaffected.
- **DURABLE**—tear strength greater than film.
- **CLEAR**—self-sticking—no cements required, no adhesive bleed.



- **SUPER-THIN**—only 1.5 mils thick—passes thru projectors easily.
- **SOLVENT-RESISTANT**—commonly used film cleaners will not loosen tape.
- **UNIVERSAL**—can be used on all types film base.

MAGIC MYLAR SPROCKETED TRANSPARENT SPLICING TAPE



| | |
|--|------|
| 16mm—single or double perf. 66 foot roll | 5.00 |
| 35mm—66 foot roll | 9.00 |
| BOXES OF 100 PRE-CUT STRIPS | |
| 16mm—single perf. | 3.00 |
| 35mm—double perf. | 4.00 |

| | |
|-------------------------------|-------|
| For magnetic-tape—66 ft. roll | |
| 16mm—white or colored | 6.00 |
| 35mm—white or colored | 11.00 |

ORDER NOW FOR IMMEDIATE DELIVERY
F & B carries a complete stock of motion picture and audio-visual equipment.

For more information and catalogs—write—dealers inquiries invited.

FLORMAN & BABB, INC.
Dept. SM, 68 West 45 St., N. Y. MU 2-2928

Professional Services

REVERSAL FILM CHEMICALS
for **FILM** and **TV LABORATORIES**
ATKINSON LABORATORY
7070 Santa Monica Blvd.
Hollywood 38, California

MITCHELL CAMERAS
16mm—35mm—70mm and accessories
for all applications
Studios—Industry—Science—Research
CHARLES AUSTIN
Technical Representative
521 Fifth Ave., New York 17, N. Y. OX 7-0227

BERTIL I. CARLSON
Photoproducts Co.
Consultants, designers, builders
in **PHOTO INSTRUMENTATION**
Color Processors • Cameras • Projectors
Box 60, Fort Lee, N. J.
N.Y. Tel. TWining 9-4823

CRITERION
FILM LABORATORIES, INC.
Complete laboratory facilities for 16 & 35mm black-and-white and color
33 West 60th St., New York 23, N. Y.
Phone: Columbus 5-2180

ELLIS W. D'ARCY & ASSOCIATES
Consulting and Development Engineers
Xenon-Arc Applications
Motion-Picture Projection
Magnetic Recording and Reproduction
Box 1103, Ogden Dunes, Gary, Ind.
Phone: Ogden Dunes 2451

FISCHER PHOTOGRAPHIC
LABORATORY, INC.
EUclid 6-6603
6555 North Ave., Oak Park, Ill.

FILM PRODUCTION EQUIPMENT
RENTALS SALES SERVICE
Cameras, Projectors, Recorders
Lighting, Editing, Lab. Equipment
Our Overseas Dept. Equipped for Fast
Foreign Delivery
Free Catalogs Available
FLORMAN & BABB
68 West 45th Street New York 36, New York
Cable: FLORBABB, New York MU 2-2928

AURICON CONVERSIONS
400-1200 MAGAZINE OPERATION
The finest job at the lowest price with
ball-bearing magazine smoothness built in!
EVERDAY REVERSAL 16MM PROCESSING
KODAK TRI-X, PLUS-X, DU PONT FILMS
HAROLD'S MOTION PICTURE LABS.
Serving the big upper Midwest in
SIOUX FALLS, S. DAK.

COLORTRAN CONVERTER
LIGHTING EQUIPMENT
The most illumination for the least investment
CROSS COUNTRY RENTAL SYSTEM
ELIMINATES COSTLY SHIPPING
write for catalog
NATURAL LIGHTING CORP.
612 W. Elk, Glendale 4, Calif.

PHOTOGRAPHIC
INSTRUMENTATION
Specializing in
HIGH-SPEED
Motion-Picture Photography
Photographic Analysis Company
100 Rock Hill Rd., Clifton, N. J.
Phone: Prescott 8-6436

PROFESSIONAL MOTION PICTURE
PRODUCTION EQUIPMENT
Cameras, Sound Recording, Editing,
Laboratory and Affiliated Equip.
Consulting Services by Qualified Engineers
Domestic and Foreign
REEVES EQUIPMENT CORP.
10 E. 82nd St., NYC
Cable: REEVESQUIP

SUPPLIERS
PHOTOGRAPHIC CHEMICALS
and
Consultants in Photographic Chemistry
L. B. Russell Chemicals, Inc.
14-33 Thirty-First Avenue
Long Island City 6, New York
Yellowstone 2-8500

WILLIAM B. SNOW
Consulting Engineer
Acoustics—Electronics
Stereophonic Recording
1011 Georgina Avenue
Santa Monica, California
EXbrook 4-8345

FILM PRODUCTION EQUIP.
The world's largest source of supply for practically every need for producing, processing, recording and editing motion picture films.
Domestic and Foreign
S.O.S. CINEMA SUPPLY CORP.
Dept. TE, 602 W. 82 St., N. Y. C.—Cable: SOSOUND
Western Branch: 6331 Holly'd Blvd., Holly'd, Cal.

VIDEO FILM LABORATORIES
Complete Laboratory 16MM Service for
Producers Using Reversal Process
Also 16MM Negative and Positive Developing
Writes for Price List
Video Film Labs are now located at
380 W. 80th St., New York 19. JUdson 6-7196

ROCKY MOUNTAIN HEADQUARTERS
For 16mm Film Services
B&W and Anscochrome Processing
Printing—Recording—Editing
Production—Rental—Sales
All types of film in stock
Write for Price List
WESTERN CINE SERVICE, INC.
114 E. 8th Ave., Denver 3, Colo. TAbor 5-2812

Professional cards available to members 12 insertions, 2 x 1 in., \$60

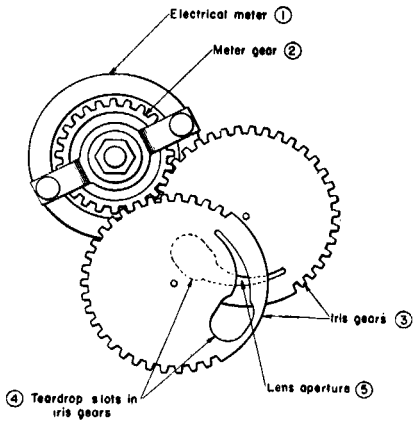


Figure 2

on the meter (E) engages the two iris gears or blades which create the iris opening (F). The rotation of the meter opens or closes the iris. The iris opening now permits the exact amount of light for correct exposure to come through the lens (G) to the film (H). All this has taken place in the fraction of a second.

Figure 2 shows how the iris gears or blades form the lens aperture. In the electric meter (1) the meter gear (2) rotates according to the current generated by the photocell.

A clockwise rotation from the point shown in the illustration will cause a counter-clockwise rotation of both iris blades (3). Each iris gear or blade has a

"teardrop" slot (4). The points where the slots overlap creates the lens aperture (5). A counterclockwise rotation of the iris blades cause the aperture to enlarge. If the meter rotates counterclockwise from the point shown in the drawing, there will be a clockwise rotation of both iris blades and the aperture will decrease in size.

Dimensions of the camera are: 5½ in. high, 4¼ in. deep, 2¾ in. wide, weight 2¼ lb. It uses an 8mm roll with a film capacity of 50 ft. Camera speed is 16 f/sec. It is priced at \$169.95.

Bell & Howell also announces a new 16mm camera, the 240EE, which it claims is the world's first spool-loading motion-picture camera to incorporate a photoelectric cell for automatic exposure setting. Otherwise the new model embodies the same features as Bell & Howell's regular 240 line, including a 32-ft spring run and completely automatic threading. The price is \$329.95.

The RCA Components Division has issued a 22-page brochure, "RCA Electronics Components," describing electronic components and test equipment sold through distributors. Included are photographs and illustrations covering new line service test equipment and accessories. The test equipment section presents application information and operating capabilities for service, commercial, school and laboratory use. The brochure is available to RCA Components Division independent distributors through their RCA representative or from the Division's office at Camden, N.J.



**employment
service**

These notices are published for the service of the membership and the field. They are inserted three months, at no charge to the member. The Society's address cannot be used for replies.

Positions Wanted

Film Writer-Editor, with directorial experience, now engaged in post-graduate work at City College Institute of Film Techniques. Three years experience in direction of off-Broadway theater. Has written scripts for NBC-TV and industrial films. Experienced with all 16mm cameras and editing equipment. Formerly with Screen Gems, Inc. Willing to relocate. Write: Lawrence G. Cohen, 55 Nagle Ave., New York 40.

Producer-Director-Cinematographer. Comprehensive background in all phases of motion-picture production: creative, technical and artistic. More than 13 years in motion-picture, live-television and radio production. Independent producer 6 years. Experience also includes writing, editing, acting and narration. Very fluent Spanish including technical terms. Desires position with production company or in motion-picture department of large industrial corporation. Interested in the United States, Central or

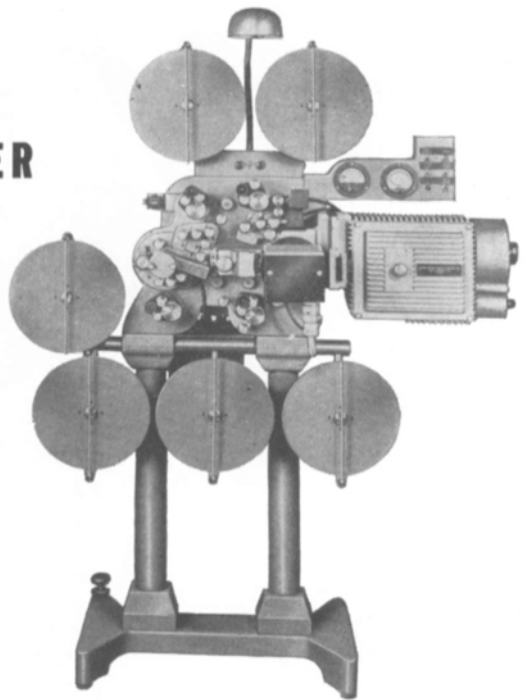


DOUBLE HEAD CONTINUOUS CONTACT PRINTER

Model 16-C-60, 16mm, for Color or B&W

Also 35-C-72, 35mm

Prints Picture & Sound In One Operation



*The Peterson Continuous Contact Printer has been specially designed to produce high quality prints at the fastest possible rate of production. We guarantee that no other printer can match its speed and convenience...no other continuous printer can give you better picture quality. Only high quality materials and finest precision workmanship have been used throughout. It is built to give you a lifetime of dependable and profitable service.

*This printer can be equipped with a two-channel electronic cueing system that will eliminate all edge-notching of film.

*This printer can also be equipped with an automatic fade unit. This fade has a shutter mechanism which permits increasing or decreasing the light at a uniform rate

Send for Catalog
of Motion Picture
Printing Equipment
and Accessories



MOTION PICTURE PRINTING EQUIPMENT CO.
Mfrs. of Optical and Continuous Printers and Accessories
1007 NORTH RIDGEWAY AVENUE • SKOKIE, ILLINOIS

Write today
for prices
and complete
literature.