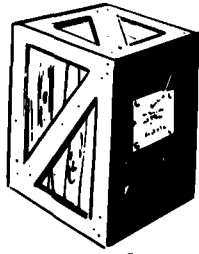
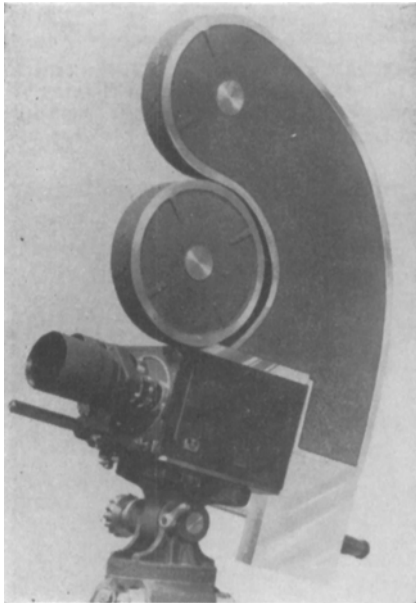


new products (and developments)



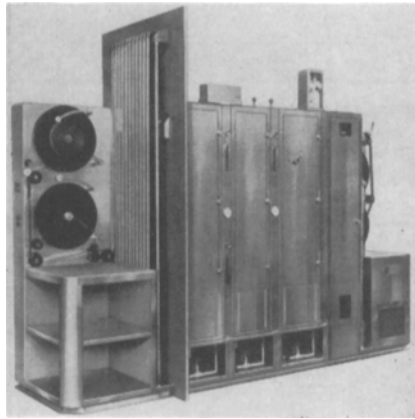
.....
Further information about these items can be obtained direct from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement of the products or services.



The Cine Speed Instant Film Processor which processes motion pictures instantaneously and simultaneously during the photographing, is a development of J. A. Maurer Co. of Long Island City for Cine Speed Inc., Roosevelt Raceway, Westbury, L.I., N.Y., which sponsored the project for the past ten years and has world-wide distribution rights for the processor. The object of the design project was to find a process whereby film, feeding through the sprocket, could be developed simultaneously as the photographing was going on. This process is intended to serve the dual purpose of eliminating laboratory costs and of saving valuable time in spot news photography. Presently available for 16mm, further adjustments are being made to provide a 16mm and 35mm processor. The processor can be purchased at an approximate price of \$2250.

A new 35mm Eastman Color Negative Film, Type 5250, has been introduced by Eastman Kodak Co. The new film has a similar structure but is said to have twice the speed of Type 5248, which it was designed to replace. The new film has exposure indexes of 50 tungsten and 32 daylight, with a conventional conversion filter. The color rendition is substantially

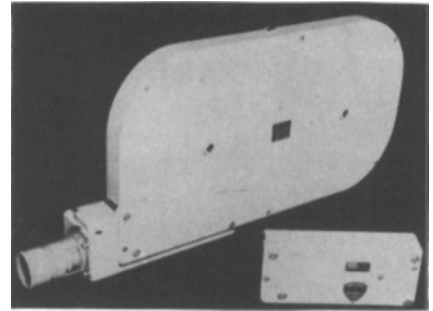
the same as with present materials with the exception of blues which exhibit a favorable decrease in brightness. Although it is primarily designed for 35mm, other widths to be available are 65mm and 70mm. Standard reel lengths are 100, 400, 1000, and 2000 ft. The high speed of the new film will permit motion pictures to be made in color under lower light conditions than before possible, with lower heat-illumination levels on motion-picture sets, and it is expected to help solve the numerous lighting problems encountered overseas in such underpowered areas as the Far East as well as in the North where daylight hours are limited. The new film was introduced at the Society's Convention in Miami Beach, May 3-8, in a paper by Merle L. Dundon, "A High-Speed Color Negative Film."



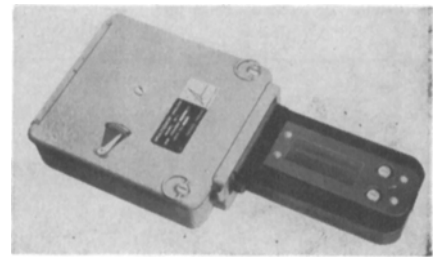
The Rapid Spray Film Processor introduced by Houston Fearless Corp., 11827 W. Olympic Blvd., Los Angeles 64, uses high-impingement spray application of the developing solution, fix and wash to achieve fast processing time of 150 ft/min for 16mm or 35mm black-and-white positive film or 100 ft/min for negative film. Complete processing time for positive film is reported as short as five minutes from dry to dry. Improved spray bars are incorporated to assure uniform results. Impingement drying is also employed. Other features include a direct film drive incorporating separate gear boxes for each compartment, automatic film tension control, accurate temperature control, a new type of air squeegees and electric tachometer. Price of a typical installation is estimated at \$30,000.00.

A new data analyzer, the Red Lake 35mm Stop-Motion Projector, is marketed by Red Lake Laboratories, P.O. Box 271, Mahopac, N.Y. The projector, designated model RL-35PS, features variable speed of 8 to 24 frames/sec forward and reverse, also single frame; easily reset frame counter; 1000-ft capacity reel arms; hand operation if desired; power supply 110-v, 60-cycle, 15 amp-line sufficient; 1000-w projection lamp. Standard projection lens is Wollensak 2½ in. focal length f/1.9 — others available. The price is \$149.00, f.o.b. Chicago.

The Photo-Sonics 16mm-lb high-speed rotating prism camera is a product of Traid Corp., 17136 Ventura Blvd., Encino, Calif. A 1200-ft film magazine is included to permit operation for a full 50 seconds



at a rate of 1000 pictures/sec. Featuring stop-start capability at any point in the film roll, the camera is especially suited to rocket engine test work. Other features of the camera include a disk shutter located behind the prism, and turning in synchronism with the prism. This combination is designed to mask off the less desirable portions of the image transmitted through the prism, and is said to result in high-speed motion pictures that closely approach in resolution those obtained from precision intermittent-type cameras.



A 200-ft capacity M-1 16mm film magazine has been added to the line of specialized photographic equipment produced by Flight Research Inc., P.O. Box 1-F, Richmond 1, Va. Designed to increase the versatility of the Flight Research 16mm Model III and III-B Multidata data recording cameras, the magazine can accommodate film lengths of 50, 100, or 200 ft. The magazine uses the same film transport as the 800-ft M-3 magazine. A drive member is supplied with the M-1 to make the M-3 and M-1 interchangeable.

High-resolution TV equipment operating on a Navy standard of 875 scanning lines has been developed for the Navy Bureau of Ships by General Precision Laboratory Inc., Pleasantville, N.Y. The equipment is designed to transmit and view information heretofore considered impossible or impractical. It is particularly applicable to the fast transmission of large quantities of printed matter, alphanumeric or symbolic information. The TV equipment has a bandwidth of 20 mc and provides a horizontal picture resolution of 1000 lines. Of rugged mechanical design, it uses JAN components for maximum reliability. The equipment is also reported to have such features as: 630-line vertical resolution; system geometry better than ±2%; aspect ratio variable between limits of 1 : 1 and 3 : 4 (height to width); sync generator to combine stability of binary counters and accuracy of delay line control of line rate pulse timings and widths; optimum corner resolution achieved by use of specially designed deflection components and focus modulation in both

ARRIFLEX® promotes your business... with ads directed to those who need motion picture films!

Throughout 1959, Arriflex advertising will be seen regularly by the nation's top management personnel. Fortune, Business Week, Management Methods, and Scientific American magazines will carry the message to a combined circulation of nearly 1,000,000 readers.

A milestone in ARRIFLEX advertising...this campaign is designed to perform a pre-eminent service to cinematography as a whole, and the professional producer in particular. A list of professional producers, who use ARRIFLEX to film quality motion pictures, accompanies the literature requested by potential motion picture users.

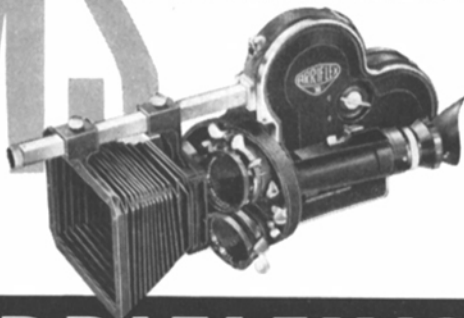
In this manner we say "Thanks" to you, the professional producers who have overwhelmingly accepted ARRIFLEX, and helped to make it "the choice of professionals all over the world."



MOTION PICTURE

FILMS

are the best means to
**sell...teach
...influence!**



Just a few of the hundreds
of satisfied Arriflex users

- Avco Mfg. Corp.
- Boeing Airplane Company
- Bendix Aviation
- Chase Manhattan Bank
- Chrysler Corporation
- Cook Electrical Research
- Dow Corning Corporation
- E. I. DuPont de Nemours
- General Electric Co.
- General Motors
- Grumman Aircraft Engr. Corp.
- Hughes Tool Co.
- International Business Machines
- International Harvester Company
- Kimberly Clark Corporation
- Kraft Foods Co.
- Lockheed Aircraft Corp.
- North American Aviation
- Pan American Airways
- Remington Rand
- Rocketdyne, Inc.
- Time, Inc.
- U.S. Bureau of Standards
- U.S. Army, Navy, Air Force
- Western Electric Co.

ARRIFLEX® 16

Find out why the motion picture departments of the nation's leading companies and professional film producers prefer the ARRIFLEX® 16...the world's most versatile, **money saving** production camera.

FREE: Mail this coupon for literature and list of professional industrial motion picture producers, to:



KLING PHOTO CORPORATION
257F Fourth Ave., New York 10, N. Y.

name.....
company.....
address.....
city..... zone..... state.....

MOTION PICTURE

FILMS

are the best means to
**sell...teach
...influence!**

Find out why the motion picture departments of the nation's leading companies and professional film producers prefer the **ARRIFLEX® 16**...the world's most versatile, **money saving** production camera.

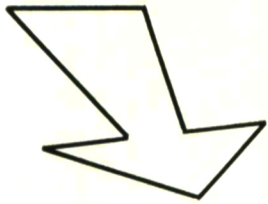


Write for
FREE literature
and list of
professional
industrial motion
picture producers.

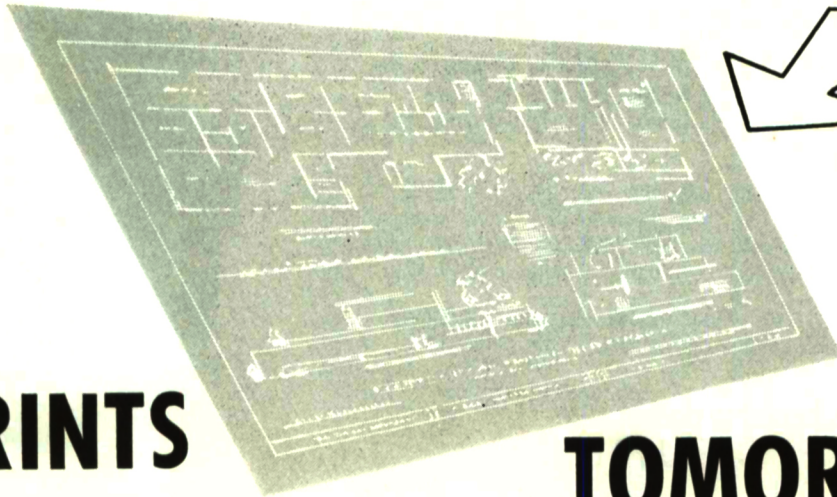
ARRIFLEX division of
KLING PHOTO CORPORATION
257 Fourth Ave., New York 10, N. Y.

name.....
address.....
city..... zone..... state.....

DU ART



TRI ART



BLUEPRINTS

TOMORROW



THE ULTIMATE IN SCREENING FACILITIES

New 60 seat theater and separate conference room
with 16mm projection.

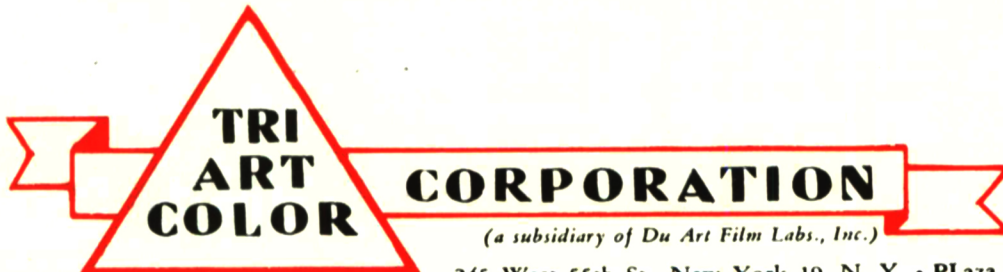


FIRST JET SPRAY COLOR PROCESSOR



TWO NEW FLOORS OF CUTTING ROOMS
AND OFFICES

ALL AVAILABLE IN EARLY SUMMER!



245 West 55th St., New York 19, N. Y. • PLaza 7-4580
IN CANADA: ASSOCIATED SCREEN INDUSTRIES, Ltd. • 2000 Northcliff Avenue, Montreal, Canada

cameras and monitors; power supply outputs regulated to minimize picture-quality deterioration with line voltage variations of $\pm 10\%$ from nominal 117-v; regulated high voltage supplies in monitors; field rate 60-cycle, frame rate 30-cycle (interlaced 2:1); variable aperture correction provides up to 10-db boost at 20 mc.

Color television playbacks with Ampex Videotape Recorders will be a feature of the Moscow Fair. The recorder was selected by the Department of Commerce as representative of American technology. Families attending the Fair can be "shot" by a TV camera and then watch an instantaneous playback of themselves. Part of the daily schedule of events at the Fair will be a playback of color tapes pre-recorded in the United States.

First production unit of the RCA television tape recorder has been installed at Station WBTV, Charlotte, N.C., where a pre-production unit had previously been installed. Six pre-production units are being used by National Broadcasting Co., New York, and the NBC Tape Center, Burbank, Calif. The new tape recorder was introduced at the Convention of the National Association of Broadcasters in Chicago last March. The new recorder has been designed for the broadcaster to start monochrome programming with five "stand-up" racks of equipment, with provision for color by the addition of a sixth rack of color gear.

Technicolor's TV bandwidth reduction system is the subject of a recent agreement between Technicolor Corp. and Marquardt Corp. to facilitate application of the system to military requirements. The result of five year's work, the Technicolor system presently reduces by four times the bandwidth required for TV signal transmission. This reduction is accomplished by translating the signal into a simplified form roughly similar to the sequence of dots and dashes of the Morse code and unscrambling the code on the receiving end. The new system is expected also to be applicable to transoceanic television. The present agreement entered into specifically for military purposes associates the resources of Technicolor in the field of photographic and electronic image processing with those of Marquardt in the field of electronics and advanced military systems. A paper by W. F. Schreiber, C. F. Knapp and N. D. Kay, "Synthetic Highs - An Experimental TV Bandwidth Reduction System," presented on October 23, 1958, at the Society's Convention at Detroit, is planned for early publication in the *Journal*. The paper describes the system in detail.

The Eidophor Projector (*Journal*, Feb. 1959, p. 104) is now owned by a newly formed company, Eidophor Inc., a subsidiary of CIBA, a world-wide drug, dye and plastics concern. Announcement of the new ownership was made in New York, May 27, by means of a pre-filmed speech by Roderic L. O'Connor, President of the new company. The speech was projected on a 17 by 13-ft screen. Patent rights to

the projector which operates on what is called a "control layer system" are owned by Ciba. In the "control layer" process, electrical impulses from the camera control an electron beam which bombards, and thus modifies, the surface of a film of oil on a concave mirror. Light passing through the resulting "wrinkles" in the oil film is projected through a special grating onto the screen. The principles and earlier equipment for the system were described in two technical articles in the April 1953 *Journal*, pp. 337-356, and initially in the *Journal* for April 1950, pp. 393-406.

The new company is reported to have ordered 40 black-and-white projectors and related equipment. It now owns two color projectors and a mobile unit for the production of color TV. Initial investment is about \$1 million. The new company has also entered into a contract with Teletalent, Inc., producers of TV programs. The New York firm will produce Eidophor Inc.'s programs in medical, scientific and educational fields.

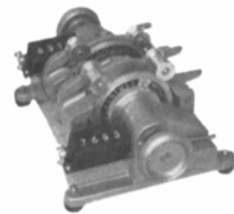


A new CECO Blimp designed exclusively for the Maurer Camera has been announced by Camera Equipment Co., Inc., 315 W. 43 St., New York 36. The new model features an external viewfinder. It is streamlined in styling and has a cam system for follow-focus parallax. Lenses from 15mm focal length can be used. It normally takes a 400-ft magazine. An additional hood for a 1200-ft magazine is available.

Optical-electronic techniques now being studied at RCA's David Sarnoff Research Center and other laboratories are expected to lead to high-speed data-handling systems that "read" print or pictures in the manner of the human eye, and process information in the form of coded light signals. The new methods are based upon the use of light-sensitive and light-emitting devices linked in networks to perform the coding, switching and information storage functions basic to electronic computing and data-processing. The studies were described by Egon E. Loebner, of RCA Laboratories, at a meeting of the Electrochemical Society in Philadelphia, May 6.

Dr. Loebner said that the systems might be constructed with various arrangements of image-processing panels comprised of photoconductive units which permit passage of current when they are exposed to light, and electroluminescent elements which emit light upon direct application of a

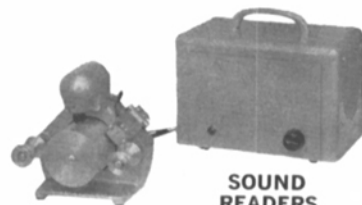
FIRST IN EDITING EQUIPMENT



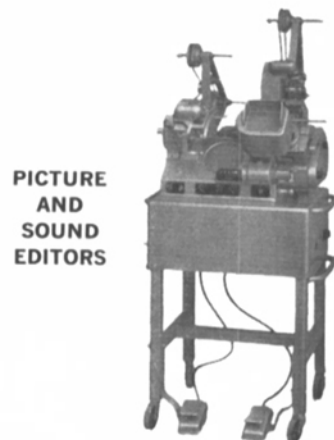
SYNCHRONIZERS



REWINDERS



SOUND READERS



PICTURE AND SOUND EDITORS

NOW A "CRAB" DOLLY

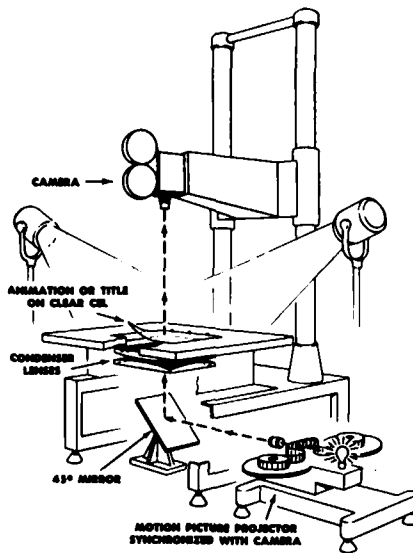


MOVIOLA
MANUFACTURING CO.
1451 GORDON ST.
HOLLYWOOD CALIF.

current. Both types of units are extremely small and consume little power, thus permitting use of many such elements in compact and economical systems capable of carrying on a variety of complex logic and switching operations simultaneously.

In operation, the flow of information would be controlled by the direction of light along optically selected directions to influence the flow of current to the electroluminescent units. In successive stages, the electroluminescent cells would themselves be the sources of light controlling further photoconductor cells and their associated electroluminescent units, creating a versatile network. The photoconductors would include a number of types with a variety of color responses. Different colors of light would then achieve various functions within the system.

An aerial image unit, designed by John Oxberry for use with animation stands has been announced by Animation Equipment Corp., 38 Hudson St., New Rochelle, N.Y. The unit, electrically interlocked with the camera, consists of a projector head, lens mount, stop-motion motor, precision-ground flat-surface mirror, a large condenser lens system, and all necessary controls. Film capacity is provided by four 400-ft chambers, two for feed and two for take-up, driven by electric torque motors. Fixed-pin shuttle movement has spring-loaded pressure plate that accommodated two films. Iris of the $f/2.8$ objective lens allows varying exposure on the projected film. Lamp wattage can be



adjusted from 100 to 750. Three filter slots are provided.

The unit's stop-motion motor runs continuously forward or reverse and may be operated independently or in step with the camera's stop-motion motor. With the aid of this unit the camera can photograph a top-lighted cell and an underneath projected image simultaneously. A title may be superimposed over a live background or a small product may be animated over a live action scene with a single exposure or one-pass method. In using the aerial image unit with an animation stand,

the ground glass in the table top is replaced with a clear glass. The light source of the unit projects through achromatic condensers, diffusing ground glass, color correcting filter (when required), to the black-and-white or color fine-grain film in the shuttle. An objective lens projects the film from the shuttle to form a $10\frac{1}{2}$ -in. aerial image at the top surface of the field lens condensers. The objective lens of the animation camera picks up the aerial image and records it on raw stock. The aerial image at the table top cannot be seen with the naked eye, but may be viewed through the ground glass of the rack-over camera, or may be viewed on a piece of tracing paper or ground glass placed on the table top. The aerial image is focused at the table surface and is picked up at the camera lens at a specific height.

The camera must be in a precise predetermined position to pick up the aerial image. The compound table is held stationary to assure alignment of the optical system.

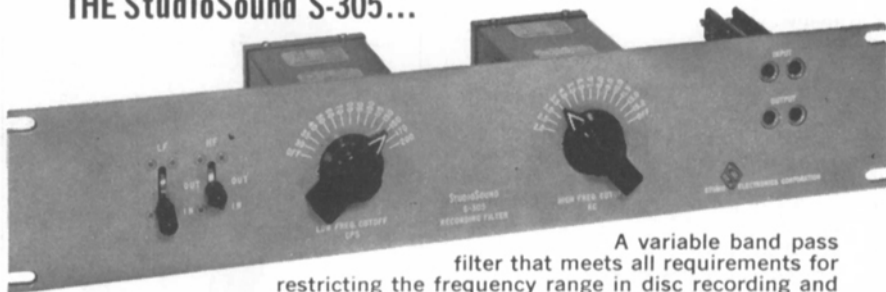


A 16mm camera with a self-contained magnetic sound system has been announced by Fairchild Camera and Instrument Corp., Robbins Lane, Syosset, L.I., N.Y., which has acquired exclusive marketing rights under an agreement with the Magnetic Sound Camera Corp., Chicago. Known as the Cinephonic, the camera is designed for maximum portability and, with its 100-ft magazine is easily handheld. The miniature, transistorized magnetic sound recorder is built into the unit. It records on conventional magnetic-stripped film. Sound inputs allow the photographer to record the subject and background while simultaneously adding his own narration, or additional sound through a mixer input. A volume-unit meter is built into the sight to allow simultaneous observation of both scene and sound. The camera is equipped with earphones, magazine, cables and microphones. Price range is \$1995 to \$2250, depending on magazines, accessories, etc.

Early development of the system was presented to the Society at its 1956 Spring Convention in New York by Lowell A.



LIMIT AUDIO BAND WIDTHS... IMPROVE FIDELITY WITH THE ULTIMATE IN RECORDING FILTERS, THE StudioSound S-305...



A variable band pass filter that meets all requirements for restricting the frequency range in disc recording and similar applications. Generally used in dubbing and re-recording. Close spacing of cut-off frequencies at each end of the spectrum permits limitless choice of settings for optimum range.

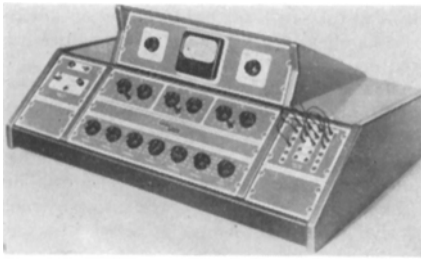
Furnished on complete panel with separate in and out keys for each section. In and out jacks normaled to terminal strip in rear of assembly. **CONTROLS:** Low frequency—15 positions; "off" and cut-off frequencies from 30 to 200 cps. High frequency—15 positions; cut-off frequencies 2 to 15 kc and "off." "Off" positions provide flat response. Two key switches permit independent insertion of either filter in and out of the line.

For further information on this and other quality StudioSound components such as Filters, Pads, Networks, Etc. please inquire in person or write to:

STUDIO SUPPLY CO.

711 So. Victory Blvd. Burbank, California. Box FW-5-59

Wilkins of the Magnetic Sound Camera Corp.

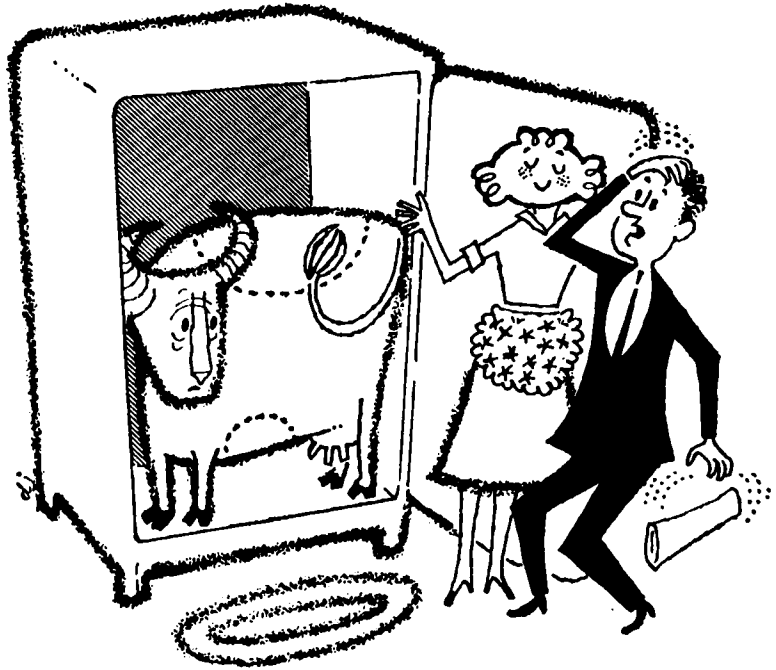


A miniaturized studio mixing console has been announced by Magnasync Mfg. Co., 5546 Satsuma Ave., North Hollywood, Calif. It has six input channels and patch bay selection of three program equalizers. The frequency response is 20 to 20,000 c, ± 1.5 db; signal-to-noise ratio, 70 db below program level; distortion, less than 0.5% total harmonic; output level, maximum 20 dbm; power consumption, 80 w. It is 34½ in. wide, 24 in. deep, and 14 in. high. The top door is hinged for accessibility to all components.



The TransFlyweight, a lightweight, professional, battery-operated tape recorder has been announced by Amplifier Corp. of America, 398 Broadway, New York 13. Ultra-low noise transistors have been incorporated to achieve a low-equivalent-input noise level of less than 0.25 μ v. Mechanical features include a multiple shielded motor with special auxiliary noise suppressors; two-section modular plug-in construction; high-speed electrical rewind; a precision-type adjustable reed-type governor, and transistorized VU indicator. Electrical features include push-pull ultrasonic bias oscillator; direct-coupled three-stage sections; interlooped a-c, d-c feedback; tuned ultrasonic bias high-Q trap; thermal stabilization; segmented circuit design, and high input dynamic range acceptance.

The Gaumont-Kalee "1690" Sound Recording Unit for the Arriflex 16 camera is available through Camera Equipment Co., 315 W. St., New York 36, recently appointed exclusive United States distributor. The "1690" is a transistorized magnetic sound attachment intended mainly for use in newsreel and documentary photography. It is designed for simplicity and portability and is especially



Why buy the Cow when you only need a quart?

Smart Pros rent their equipment from CECO*

Why invest a lot of money for expensive photographic equipment for which you may have only limited use? Do what the top Pros do—rent your cameras, lighting, sound recording and editing equipment from CECO's vast stocks. Everything is delivered to you "better than new"—because everything is checked out for perfect performance before it goes out on rental. You save on taxes, too. Ask us about rental-lease arrangements.

Cameras

16mm & 35mm—Sound (Single or Double System)— Silent — Hi-Speed

Lenses

Wide angle—Zoom—Telephoto—Anamorphic

Sound Equipment

Magnetic—Optical

Grip Equipment

Parallels—Gobos—Other Grip accessories

Dollies

Crab—Western—Portable—Panoram—Cranes

Lighting

Arcs—Incandescents—Spots—Floods—Dimmers— Reflectors—All Lighting Accessories

Generators

Portable—Truck Mounted

Editing Equipment

Moviolas—Viewers—Splicers—Rewinders

Projection Equipment

16mm & 35mm—Sound & Silent—Slide—Continuous

Television

Closed Circuit TV

*CECO Trademark of Camera Equipment CO

FRANK C. ZUCKER

CAMERA EQUIPMENT CO., INC.

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

The ultimate in DEFINITION!

The Most Accurate, Optically Perfect, Widest Range Lenses Ever Designed!

COOKE KINETAL

For 16mm Arriflex Cameras
16mm Mitchell Cameras
16mm "C" Mount Cameras

COOKE SPEED PANCHRO SERIES II

For 35mm Mitchell Standard NC & BNC Cameras • 35mm B & H Standard Cameras • 35mm Arriflex Cameras • 35mm Eclair Camerette

New Series of COOKE Lenses . . .

We can't help crowing about this latest achievement in lenses by TAYLOR-HOBSON-COOKE. Made of rare earth glasses, their new series is the "latest" word in lens design. Optically and mechanically perfect, they provide the sharpest definition. Ideal for Theatrical or TV Film work. Write for further information today.

CAMERA EQUIPMENT CO., INC.
315 West 43rd Street, New York 36, N. Y.

Professional Services

BERTIL I. CARLSON

Photoproducts Co.

Consultants, designers, builders
in PHOTO INSTRUMENTATION

Box 60, Fort Lee, N. J.

J. A. MATTHEWS I. B. MINTER

Professional Sound Recording Services:
Disk Mastering, Tape Editing,
Dubbing etc.

COMPONENTS CORPORATION,
Recording Division

Denville, N.J. Oakwood 7-0290

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: TWIN OAKS 5-4201

EAGLE FILM LABORATORY, INC.

(Established 1931)

A 16MM SPECIALIST LABORATORY

341 E. Ohio St., Chicago 11, Ill.
WHITEHALL 4-2295

16mm

Complete Color and Black & White
Motion Picture
Laboratory Services
including
Sound Recording

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

RENT

16mm, 35mm, 70mm
Motion Picture Cameras
High Speed Cameras
Special Cameras
Lenses
Lights
Processing Equipment
Editing Equipment

GORDON ENTERPRISES

5362 N. Cahuenga, North Hollywood, Calif.

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. AMherst 6-3061

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.

TUFF COAT

Multiplies the useful life of all types of preprint
and release film. Protects from scratches and
abrasions. Safe, easy to use. Kills static, cleans
and lubricates. Special type available for
Videotape, Magstripe and Lacquered footage.

Send for Brochure "S"

NICHOLSON PRODUCTS CO.

3403 Cahuenga Blvd., Los Angeles 28, Calif.
Ho. 7-1712

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. 52nd 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

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. 52 St., N.Y.C. - Cable: SOSOUND
Western Branch: 6331 Holly'd Blvd., Holly'd, Cal.

ALL 16mm PRODUCERS SERVICES

Equip. Rentals • Technical Crews

40 X 70 Sound Stage

16mm LABORATORY FACILITIES

Exclusive TRIAD Color Control

Additive Color Print Process, Plus B & W

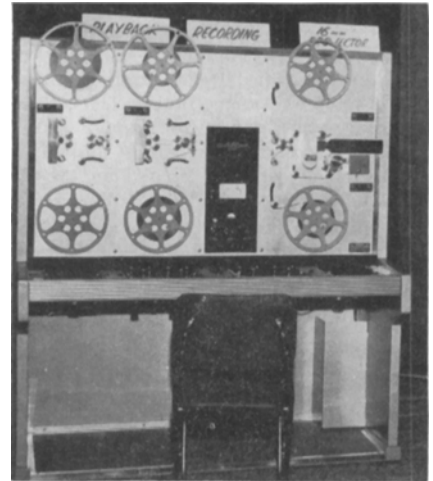
SOUTHWEST FILM CENTER

3024 Ft. Worth Ave., Dallas 11, Texas

Professional cards available to
members. 12 insertions, 2x1 in.,
\$60

useful for filmed interviews and on-the-spot news coverage. The unit is mounted between the camera and tripod head. The film is pulled through the soundhead by the take-up and hold-back sprocket on the camera. No other mechanical drive is required.

The 2-channel recording amplifier unit contains the recording amplifier with input mixer for two microphones and also a bias oscillator, monitoring amplifier and a volume indicator drive amplifier. The circuit employs 12 transistors which derive supplies from a 7.5-v battery inside the amplifier chassis. Camera and amplifier may be operated close together or up to 60 ft apart.



Bomar 16mm professional recording equipment for dialogue and mixing has been introduced in the United States by Vicom Inc., 70 Aberthaw Rd., Rochester 10, N.Y. The equipment, exhibited at the SMPTE Convention in Miami Beach, consists of a recording panel, a playback panel and a continuous projector with optical playback. The three units are mechanically interlocked and are driven from the same synchronous motor. Featured is a floating filter film transport designed to eliminate film stress. Early development of the system was described before the Society's Convention at Washington in 1957 and in the *Journal* in September 1957.

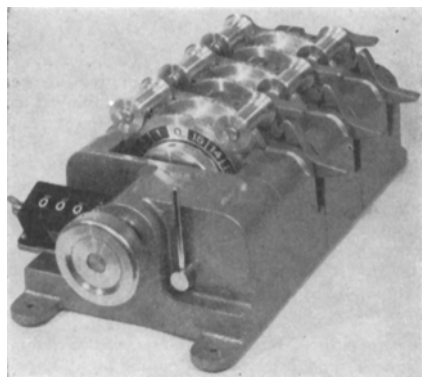
The PM-72 Portable Magnetic Recorder was introduced by Radio Corp. of America at the Society's 85th Convention (Miami Beach, May 5-9). The 40-lb, 12 by 10 by 20-in. unit uses transistorized audio components and can be supplied for 16mm or 17½mm magnetic film. Special clutches are used to drive the film take-up and rewind mechanisms while a simplified switching arrangement places controls within easy reach of the operator. The mixer can be employed in connection with four microphones carrying dialogue, sound effects or background music. The signals from any two of the four microphones can be blended onto the same soundtrack at one time with switching provided to shift the microphone combination.

RCA also exhibited its Dual Dubber designed for studio use, and it was described in a technical paper on the Miami

Beach Program by C. E. Hittle. Two magnetic sound film reproducers are contained in one cabinet to save space. Each reproducer operates independently of the other.

The Wave Dropout Analyzer Model 900, a product of Acoustronics Inc., 156 Olive St., Huntington Sta., N.Y., is designed primarily to determine the quality of magnetic tape by measurement of the dropout characteristics in a magnetic tape recording. The device has an operating range of 7.5 kc to 80 kc. The input impedance is approximately 100,000 ohms. The dropout amplitude calibration range is adjustable from 15% to 85% by means of a front panel calibration control. The dropout width calibration range is adjustable from 360 μ sec to 38 μ sec. Overall accuracy is within 3%. For each dropout detected with respect to amplitude and width (time duration) a 70-v, positive going, rectangular pulse is emitted. This pulse has a width of 30 μ sec. The unit weighs 30 lb and the relay rack measures 19 in. wide, 10 $\frac{1}{2}$ in. high and 10 $\frac{1}{4}$ in. deep. The only external equipment required for measuring dropouts is an accessory electronic counter and a sinusoidal signal generator for calibration purposes, which may be the same one used in making the magnetic-tape recordings.

A new 9mm high-intensity positive projector carbon has been announced by National Carbon Co. Division of Union Carbide, 535 Fifth Ave., New York 17. Amperage for the new carbon has been increased from the previous 75 to 85 amperage range to a top of 90 amp to make possible 10% more light at the same burning rate.

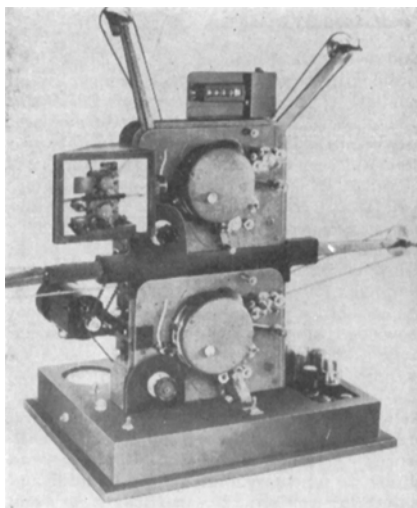


Precision Laboratories, a Division of Precision Cine Equipment Corp., 1037 Utica Ave., Brooklyn 3, N.Y., has designed a new line of synchronizers for motion-picture and television applications. The synchronizers are designed for ganging and can be purchased separately for adding as needed.

Two new viewers have been announced by S.O.S. Cinema Supply Corp., 602 West 52 St., New York 19, and were recently shown for the first time at the SMPTE spring convention in Miami Beach in May. The S.O.S. Sr. Viewer shows a 3 by 4 picture, has built-in focusing and framing controls, and will operate on



either 110 or 220 v. An editing pencil can be used directly on the film when the lighthead is lifted; in this position the editing lamp goes off and a work light automatically goes on. The viewer measures 6 by 10 by 10 in. and weighs 7 $\frac{1}{2}$ lb. It is priced at \$135. Combined with a sound reader it forms the S.O.S. Ediola, starting at \$357.50. There is also a Junior model of the viewer available.



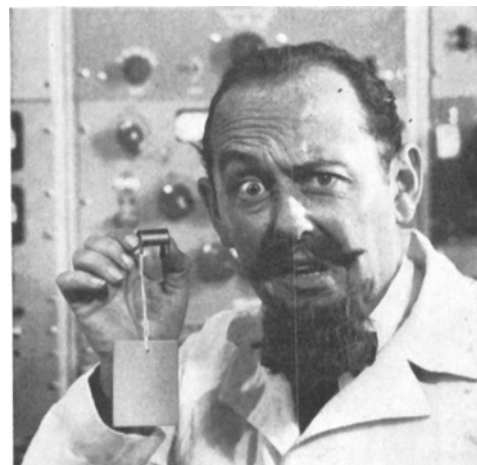
A portable 16mm double-system editor has been announced by Palmer Editors, Box 535, Radio City Sta., New York 19. The 50-lb machine may be used for either separate or interlocked operation of sound and picture film and it may also be used for standard sound film projection of a 3 by 4-ft picture. Hand-set knobs allow frame by frame movement and a Veeder counter reads in frames and feet and operates in both directions.

The New 1960 Emel Plume 8mm Camera has been announced by Akarex Corp., 80 E. 11 St., New York 3. Designed mainly for use by the advanced amateur, the camera features rewind key for double exposure; individual frame counter; parallax correction to 10 in.; Swedish power torque steel spring; locking turret device, and panning device with instant shutoff, regulated by a spring mechanism above button release. It is priced at \$179.50.

You are there – with Cinema...

Professor PETROV SPACENIK

(Somewhere east of the Oder)



"Is resembling some diabolic Amerikan secret elektronik weapon. But what, in Lenin's name? Much too small for second-rate atom bomb. And is much too big for new U. S. satellite. Maybe some crucial rocket part? No, here large-type printing is spelling out CINEMA. Comrade Informer-and-Borrower-for-Peaceful Usage is goofing again. Is not space capsule, but only bourgeois motion picture device from Hollywoodnik. Yes, smaller letters confirm my analysis for also reads MADE IN BURBANK. Is maybe camera? Impossible for so tiny. Or maybe is movie film inside small wire-wound can. Yes, is Short Subject no doubt. Ingeniously clever, this CINEMA."



Wrong, Professor. You're holding one of CINEMA ENGINEERING'S Precision Wire-Wound

Resistors used in missiles, computers, laboratory and industrial test equipment. Backed by more than 20 years of scientific experience and customer acceptance, CINEMA'S high-quality resistors stand up to long-range exposure and assure reliable performance. Write for our catalog 14R today.



CINEMA ENGINEERING

DIVISION AEROVOX CORPORATION
1100 CHESTNUT • BURBANK, CALIF.

CLASSIFIED ADVERTISING
First three lines \$5.00
Each additional line \$1.00
per inch \$13.00

WANTED: 16 or 35mm New or Used B & H Film Printer. MovieLab Film Laboratories, Inc., MovieLab Bldg., 619 W. 54th St., New York 19, N.Y.



A Vidicon Pan and Tilt Head for motion-picture cameras has been announced by Camera Equipment Co., 315 W. 43 St., New York 36. Originally designed for use with vidicon cameras weighing about 60 lb, it has been tested for motion-picture work. A built-in balance feature counterbalances the weight of the camera. Features include a large pan locking lever which affords sensitive control setting of friction for the operator's panning tension selection. A tilt lock lever provides the same type of friction control as the panning lever. The head fits all professional wooden and all-metal tripods. The head is priced at \$325. A wooden tripod is available at a price of \$150; the all-metal tripod is priced at \$260.

The Angenieux 12.5mm f/1.8 standard lens for the Camex Reflex 8 has been announced by Karl Heitz, Inc., 480 Lexington Ave., New York 17. The lens focuses from infinity to 10 in., while its depth-of-field reaches down to 6 in. Price of camera and lens together is \$309.00.

General Film Laboratories, a subsidiary of Pacific Industries, Inc., has announced expansion into the Midwest with the establishment of facilities in the Power and Light Bldg., Kansas City, Mo. Announcement was made by G. Carleton Hunt, President of the laboratories. Neal Keehn, formerly with Calvin Co., will be in charge of the new operation. Initially the new facilities will consist of cutting room, projection room and other producers services. The possibility of the addition of processing operations is contemplated.

Signal dropouts in magnetic tape are discussed in a 4-page bulletin, *Reduction of Dropout Errors in Magnetic Recording Systems*, Bulletin No. 37 in the *Sound Talk* series, available upon request from Minnesota Mining and Mfg. Co., Dept. E9-200, 900 Bush Ave., St. Paul 6, Minn. The booklet is illustrated with photomicrographs of common types of coated-in tape flaws, and photographs showing the effect of small dust specks on recorded data tracks.

Some Sources of 2 x 2 Color Slides (S-2), a 12-page pamphlet containing a list of producers and distributors of color slides, published by Eastman Kodak Co., is available in a revised edition. Fifty-eight firms in the United States, Alaska, Hawaii, Cuba, Mexico and Norway are grouped according to the general type of slides provided by each firm. The booklet is available without charge from Sales Service Div., Eastman Kodak Co., Rochester 4, N. Y.

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

Motion-Picture Engineer. 25 yrs responsible positions in large organizations. Expert in all technical phases motion-picture laboratory color or B&W. 2 yrs as technical director and sales engineer for representative of well-known motion-picture equipment. Motion-picture consultant to U.S. Govt. agencies in Washington. Will accept responsible position supervising laboratory operations in management, quality control, install new laboratories, etc., or as technical sales representative for motion-picture equipment. Will consider most sections of U.S. or certain overseas assignments. Excellent knowledge of three languages. U.S. citizen. Write: E.C.C., First Floor, 219-47 74th Ave., Bayside 64, L.I., N.Y.

Writer-Director. Experienced, imaginative, desires position with active motion-picture unit. Experience includes writing, directing and editing documentary films on agricultural and engineering subjects. 29, married, B.A. Penn State. Resume and samples available. Ted Kilman, 206 McDonald St., Blacksburg, Va. PR 2-8261, Ext. 452.

Director-Producer of business films and TV commercials in New York and Mexico City. 35, married, one child. 13 yrs experience in all phases film activity: writing, directing and producing, as well as handling clients and directing office details. Planning to return to U.S. April 30 after completing one yr assignment Mexico City reorganizing local film concern. Full command of Spanish, some Portuguese. Seek permanent position as director and/or production manager with film producer or advertising agency. Willing relocate anywhere in U.S. or Mexico. Have Mexican working papers. Write to: Frank J. Maguire, 35-45 78 St., Jackson Heights 72, N.Y.

Director-Cameraman, Editor of nontheatrical films. Experienced in all phases of production. Employed by Audio Visual Service USOM/L c/o American Embassy in Beirut, Lebanon as Program Advisor, Film Production Supervisor of 16 & 35mm Films. Now in U.S., wishes position with production company. Young (26),

married, willing to relocate. Resume on request. Write: Hrayr Toukhanian, 305 Hyde St., San Francisco 9, Calif.

Motion-Picture Cameraman, Director, Technician. 13 yrs experience in photography, last 9 yrs in motion pictures with both 35 & 16mm on location and sound stage; lighting; film editing; directing; processing; customer relations; cost-time estimates; high-speed, micro and macro photography. Presently employed with large industrial firm. Desires position in motion-picture field. Age 27, married, willing to relocate. Resume on request. Write: William C. Mace, Jr., 308 Benham, Richland, Wash.

Industrial Photographer, Manager, Producer. Also experienced in lab management. Desires position with vigorous film production outfit in either production or organization. Will accept heavy project responsibility. Presently serving with U.S. Army Signal Corps as Chief, Motion Picture Branch, Signal Missile Support Agency, White Sands Missile Range. Prior service at Army Pictorial Center, New York, with chief duties to coordinate the maintenance, modification, design and installation of lab equipment. Thoroughly familiar with military photographic requirements. Experienced in all phases of motion-picture production. Single, willing to relocate. Military service ends July 31. Resume on request. Write: Lt. Avrum M. Fine, Navy BOQ, White Sands Missile Range, New Mexico.

Motion Picture Cameraman, Technician. 7 years actively engaged in 16mm motion-picture work. For the last 4 yrs have been employed as head of technical operations of a company producing films primarily for TV and educational usage. Experience includes work in practically every technical phase of motion-picture production. Desire connection with a producer of industrial, education, scientific or travel films. Age 30 and an active member of SMPTE. Résumé on request. G. Kenneth Futrell, 678 Pope Street, Memphis 12, Tenn.

Engineering Aide. 32 yrs talkies, radio, audio, magnetic tape, intercom. Attending night school for degree. Desires R&D position with sound or cine organization. Salary \$2.35 per hour. Teachable, studious, no drink or smoke. Los Angeles only. Frank W. Mango, 1211 N. Berendo St., Los Angeles 29.

Audio-Visual Aids Specialist. Six yrs experience full-time with City of N. Y. in the City Colleges and 3½ yrs as supervising technician at Columbia Univ. and NYU. Matriculated university student with courses in cinematography, motion-picture production and its history. Considerable experience with operation of 16mm sound projectors, operation and service of filmstrip and slide projectors, professional tape recorders. Demonstration of audio-visual equipment to prospective teachers or college faculty and students. Richard I. King, 270 Convent Ave., Apt. 8E, New York 31. WA 6-1910.