

ATTENTION!

Camera Mart Starts Inventory Sale!

CAMERAS, 16mm

AURICON SUPER-1200 sound camera, variable shutter with TV kine attachment, auto parallax finder, variable den. galvo, amplifier, mike, headset, cables, 2-1200' mags, Auricon tripod, camera case, mag case, value over \$6500. Exceptionally fine condition, specially reduced to...
.....\$4,595.00

AURICON PRO-600 sound camera, variable density galvo, amplifier, mike, headset, cables, zoom door, case, 1-600' mag, value over \$2600. Excellent, special.....\$1,995.00

AURICON CINE VOICE 100 ft. sound camera, variable area, amplifier w/accessories, case. Value over \$1100. Special.....\$695.00

BERNDT MAURER professional camera, 2-400' mags, finder, sunshade, sync motor, prismatic rackover, registration pin movement, value over \$3000. Special.....\$995.00

JA MAURER type 05, 1-400' mag, finder, sunshade, sync motor, 24fps DC motor, body rackover system, value over \$6000. In excellent condition, special.....\$1,995.00

Custom built blimp w/follow focus for either of above Maurer cameras...
.....\$195.00

CINE SPECIAL model II w/specially converted chamber and 600 ft. Mitchell type mag, large Mitchell type erect image finder, value over \$1800. Special.....\$895.00

CINE SPECIAL model II, 100 ft. chamber, 25mm Ektar f1.4, excellent...
.....\$595.00

CINE SPECIAL 200' chamber, exc.....\$295.00
200' chamber, less finder.... 250.00
100' chamber, early..... 95.00
100' chamber converted to use with Mitchell 400' mag..... 149.50

Kodak side optical zoom type finder.....\$59.50

AURICON blimp and sync motor for Cine Special, w/follow focus exceptional.....\$299.50
good condition.....\$249.50

AURICON sync motor for Cine Special.....\$99.50

B & H Filmo model 70DA, good.\$89.50
Filmo model DAF for use with 400' mags.....\$149.50
Filmo hi-speed, 128 fps.....\$99.50

Listing Continued on Pages 474, 476, 478

the **CAMERA • MART, inc.**

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to CCIR standards. Studio equipment will include three Mark IV image-orthicon camera channels, four vidicon camera channels Type BD 871, a transistorized sound control console Type BD 968, picture monitors, master control equipment and film projectors.

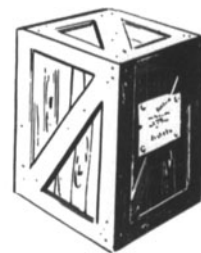
Rollo Gillespie Williams has been appointed National Sales Manager of Century, Inc., 521 W. 43 St., New York 36. He has been with the firm since 1953, his most recent post having been Director of Color Research and Lighting Consultant. Among Mr. Williams's published works are two textbooks on illumination: *The Technique of Stage Lighting and Lighting for Color and Form*. He has also published numerous technical papers, several of which have appeared in the *Journal*.

Dean F. Lawson, Manager of the Kodak Processing Laboratory, Washington, D.C., has been appointed Sales Manager of Eastman Kodak's color print and processing organization, effective about July 1. He will be stationed at Kodak Park Works, Rochester, N.Y., and in his new post will engage in sales promotion activities relating to Kodak processing operations throughout the United States. His successor in the Washington, D.C., laboratory will be Wesley R. Sandell, presently production supervisor of the Kodak processing laboratory in Atlanta, Ga.

George J. Mueller has been appointed Chief of the Applied Research Section, Research and Development Dept., Cannon Electric Co., Costa Mesa, Calif. Dr. Mueller's previous experience includes service with Allen B. DuMont Laboratories as Technical Director; Chief of Test Support Dept., Ramo Wooldridge Inc.; Director of Engineering, Technical Products Div., Packard Bell Electronics; and Chief of Development Planning for the Nortronics Division of Northrop. In his new post he will engage in original and comparative research for the company's electronic research and development program.

Photo-Consultants, 12 E. 37 St., New York 16, a newly organized firm engaged in photographic engineering, research and development, offers consultation services to firms requiring such services in photographic technology and allied fields. Director of Research is Maurice Duitz; Robert L. Strickman is in charge of Chemical Research; and L. W. Koster is in charge of Medical Photography and Microscopy.

Plans for an extensive expansion program have been announced by General Film Laboratories, 1546 N. Argyle Ave., Hollywood 28. A recently opened wing in the firm's Hollywood plant represents the first step in the expansion, the cost of which is estimated at \$½ million. A fifth projection room is now under construction and orders have been placed for about \$140,000 worth of printing equipment for additional production rooms. Included in the new wing are 13 negative-cutting rooms and a new reception area.



new products

(and developments)

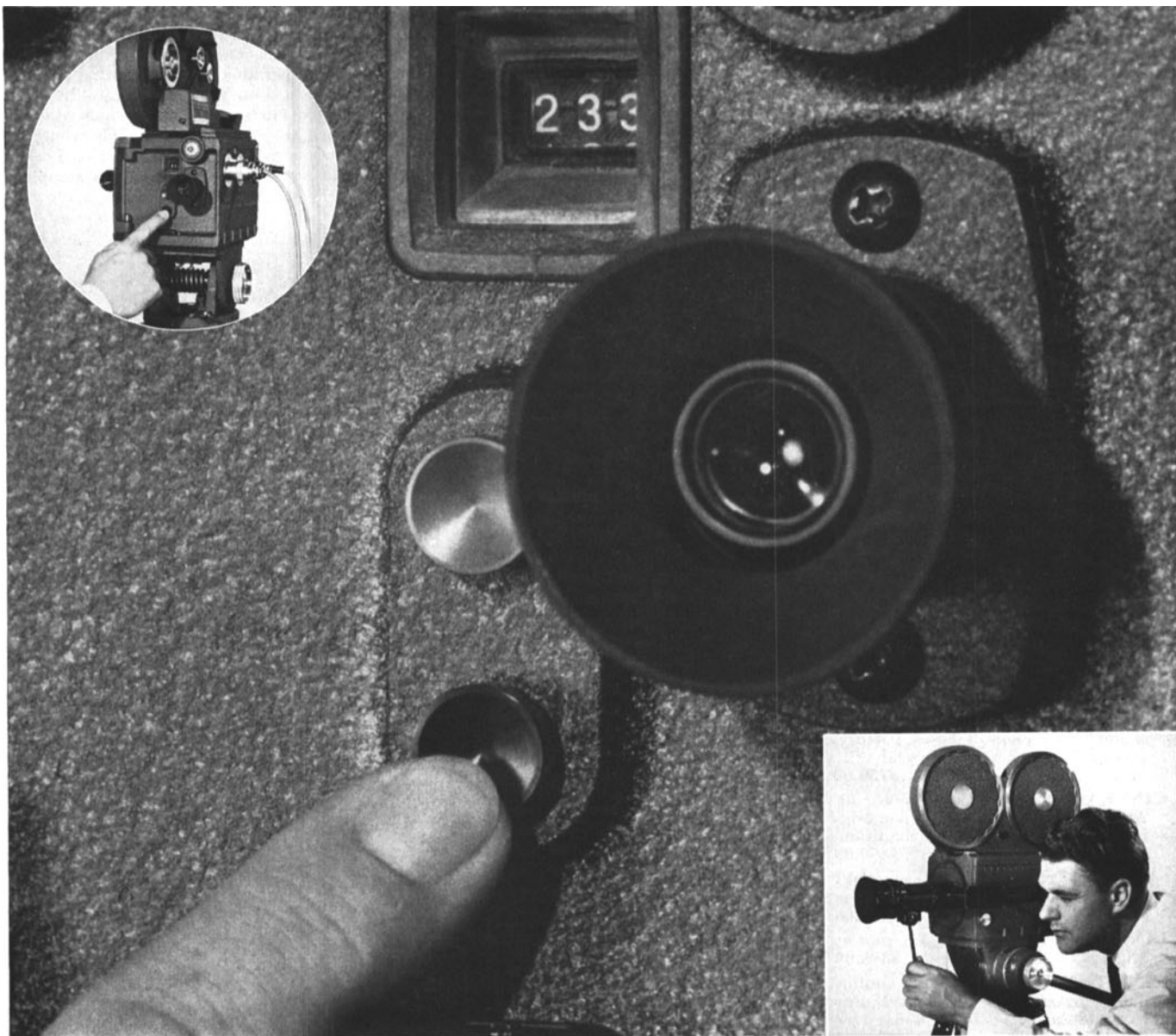
.....
Further information about these items can be obtained direct from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement of the products or services.

Erratum: \$15,850.00 is the price for the 2-in-1 Zoomar tracking system (erroneously given as \$15,585.00 on p. 234, March, 1962 *Journal*), described in a 4-page folder of instructions available from Zoomar, Inc., Glen Cove, L. I., N. Y.

Two new films, Eastman Color Negative Film, Type 5251 (35mm) and Eastman Color Print Film, Type 5385 (35mm) and Type 7385 (16mm) have been announced by Eastman Kodak Co. Type 5251 has the same speed as Type 5250, which it supercedes, but provides greatly reduced graininess. This film will be available in July for general commercial distribution. Type 5385 and Type 7385 will be available in September. Between July and September, prints will be made on the current color print film, Type 5382 and Type 7383. The new film has approximately the same granularity and definition as the current color print film with an effective printing speed increase of four times with improved color reproduction. Both films were introduced at the Society's 1962 Spring Convention in Los Angeles and described in a paper by Walter I. Kisner.

Eastman Magnetic Recording Film is now available in 35mm and 16mm sizes, according to an announcement by Eastman Kodak Co. Sales are being handled by the W. J. German Co. The tape will also be available in 17.5mm widths at some future date. The tape has a triacetate base, superior conformance to the recording heads, a high level of uniformity and manufacturing requirements to meet motion-picture industry requirements for slitting and perforating tolerances. The 35mm width is now available in 1000-ft rolls and 16mm in 1000-ft and 1200-ft rolls.

The Soundcraft Uni-Lube tape, a 1-mil, Mylar base tape, oxide coated on one side and lubricated on the other with Permagraph, a lubricant designed for friction-free operation, has been introduced by Reeves Soundcraft Corp., Great Pasture Road, Danbury, Conn. The lubricant, developed by the firm to have the properties of cohesive strength and adhesion to the Mylar base, is said to have highly efficient antistatic and antifriction characteristics. The lubricant coating is extremely



AURICON PRO-600 SPECIAL
400 FT., RUNS 11 MIN.
\$1295 UP

EVEN THE ON-OFF BUTTON IS MUTED

-- one of many reasons an Auricon 16mm Pro-600 Special gives you perfect sound without a heavy, expensive blimp

Silent operation is built into the Pro-600 Special. As a result, you can get high-quality sound even under difficult acoustic conditions without a blimp. You save as much as 75 pounds and \$1800!

A superb photographic instrument, the Pro-600 Special gives you a rock-steady picture with perfect frame-line registration. Takes a 400- or 600-foot magazine; records either optical or "Filmagnetic" single system sound, as well as double-system sound.

You can carry twice the weight and pay three times the price, but you can't get better 16mm sound-on-film pictures than you get with an Auricon. Investigate the Auricon Pro-600 Special now.

GET THE FULL STORY



WRITE FOR YOUR FREE COPY OF THIS 74-PAGE AURICON CATALOG.

GUARANTEE







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

BACH AURICON, Inc.
8948 Romaine Street
Hollywood 38, California



The BACH Auricon Line

MANUFACTURERS OF SOUND-ON-FILM RECORDING EQUIPMENT SINCE 1931

					
CINE-VOICE II \$967.00 & up	AURICON PRO-600 \$1456.25 & up	SUPER 1200 \$4149.00 & up	TRIPOD \$406.25 & up	PORTABLE POWER SUPPLY UNIT \$269.50	SOUND RECORDER \$3643.00 & up

**SOME ITEMS
50%—80%
OFF LIST PRICE!**

**Don't Take Our Word. Check
this list & See for Yourself!**

CAMERAS, 35mm

- MITCHELL** 35mm Standard, completely reconditioned, 2-1000' mags, matte box, 110v sync motor, 12v wild motor, 40, 50, 75, 100mm Baltar coated lenses, viewfinder, cases, value over \$10,000. Exceptionally fine condition, special.....\$4,995.00
- BELL & HOWELL** Standard, unit I and hi-speed shuttles, 3-400' mags, 110v AC-DC motor, 4 lenses, cases, value over \$4500. Excellent, reduced to.....\$1,895.00
- DEBRIE SUPER PARVO** blimped studio camera, 220v 3 phase sync motor, 6 lenses, finder, magazines, tripod, cases, excellent, with new 220/110v reverter and power supply, value over \$7,000, special..\$3,495.00
- ARRIFLEX** model IIB, 16v motor, sunshade, 2-200' mags, 28, 50, 75mm Schneider lenses, battery, case, value over \$3,000. Exceptionally fine condition, special.....\$1,995.00
- ARRIFLEX** model I, 12v motor, sunshade, 2-200' mags, 3 lenses, battery, case, value over \$1000, special.....\$750.00
- CINEKAD** blimp and sync motor for Arriflex model I camera above, originally over \$1500. Good condition, special.....\$450.00
- SPECIAL PACKAGE** Arriflex model I and Cinekad blimp and motor as above.....\$1,100.00
- CINEFLEX** reflex camera, 12v motor, 3 lenses, 2-200' mags, case..\$395.00
- CINEFLEX** reflex camera, 24v motor, 35mm Apogar, 50 & 75mm Baltar lenses, 2-200' mags, case, value over \$1,200. Excellent condition, special offer.....\$595.00
- TOBIS SCHLECTA** studio camera, 220v motor, 3-400' mags, prismatic rackover, 28, 50, 100mm lenses, value over \$1500. Excellent condition, specially reduced to.....\$395.00
- DEBRIE INTERVIEW** model, 400' mags, 2" lens, continuous and single frame hand crank, adjustable shutter, stop motion motor, case, value over \$1,000. Special.....\$195.00
- DEBRIE** Interview model, 400' mag, 2" lens, continuous and single frame hand crank, adjustable shutter, motor shaft.....\$95.00
- ERNEMAN** similar to Debie, no lens, continuous and single frame hand crank, adjustable shutter, excellent.....\$95.00

Listing Continued on Pages 476, 478

the CAMERA • MART, inc.

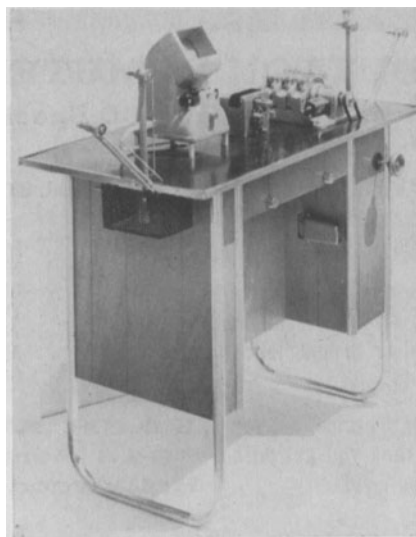
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thin (less than 0.00005 in.) and the short wavelength sensitivity of the tape is said to be from 3 to 5 db higher than that of many standard tapes.

A monochrome video alignment tape, designated RCA Alignment Tape MI-40793, has been developed by the RCA Broadcast and Communications Products Division for use in evaluating the performance of quadruplex TV tape recorders. The tape is wound on an 8-in. reel and contains five minutes of multi-purpose test signals consisting of stair step, multiburst, window, and sine squared pulses. The sine squared pulses form a vertical stripe pattern of narrow lines affording convenience in the observing of skewing, scalloping and quadrature error. The tape is available from the Broadcast and Communications Products Div., RCA, Camden, N. J., and is priced at \$150.00.

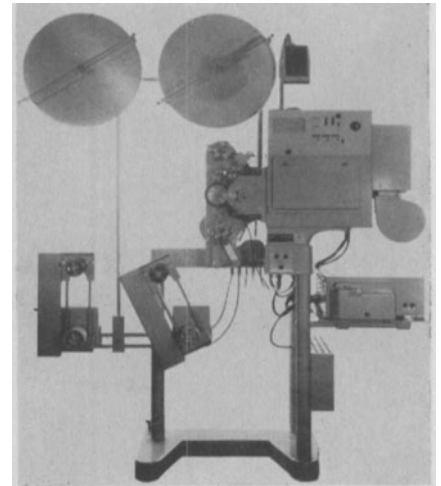
Amplifiers weighing only 1/20 oz, and equipment for testing and evaluating the quality of magnetic tape are among products recently developed in Great Britain and reported by the British Information Services in New York. The miniature amplifiers are produced by Ardent Acoustic Laboratories Ltd., 8-12 Minerva Rd., North Acton, London N. W. 10, England. The amplifiers contain three transistors, five capacitors and six resistors and are said to have a power gain of more than 4000 times. They are priced at about \$14.00.

The testing equipment for magnetic tape has been developed by Data Recording Instrument Co., 33 Woodthorpe Rd., Ashford, Middlesex, England. Called the DR Tapetester Type 536, it is designed to accept all known thicknesses of tape and to give, in one pass, full statistical analyses of all imperfections falling outside of adjustable limits of quality specified on its control panel.



An editing table, 36 in. long, 20 in. wide and 31 in. high, having automation features has been announced by Palmer Editors, 73-40 Vleigh Pl., Flushing 67, N.Y. The table has a quiet motor drive and mechanically interlocked parts. Soundhead and amplifier are for magnetic track and

optical sound is optional at additional price. A release clutch permits use of a hand knob to inch the film forward, frame by frame. Operation is from a sitting position and start, stop and reverse are by knee operated latching switches which do not require hold-down pressure. The viewer is the Zeiss Moviscop. An electromagnetic brake is used for instantaneous stopping. Price is \$1245.00.



A fully automated additive color printer, introduced at the Society's 1962 Spring Convention in Los Angeles by Bell & Howell Co., 7100 McCormick Rd., Chicago 45, is capable of making extremely short scene-to-scene color corrections at high speed. Available in models for any width of film from 16mm to 70mm, the printer has a wide range of color correction with 72 variations in each of the three primary colors. Controlled by pre-punched, 1-inch program tape of the kind used in accounting machines, the printer prints from a color negative or color internegative onto a color positive of the same film size at speeds up to 180 ft/min. The pre-programming of the tape is done by a technician who inserts the tape into the printer and monitors the voltmeter, but all other operations are automatic. If the negative or film breaks, the printer will stop. Operation is on the additive light control principle. The light from a single 1000-w printing lamp is split into red, green and blue components by selectively reflecting mirrors. The printer is expected to have wide application in films for industry, medicine, education, and other fields where accurate color reproduction is important. The first Hollywood feature film to use the new printer in the 70mm size is the 20th Century-Fox film *Cleopatra*.

The Optomechanism Series 380 Rapid Film Processor, produced by Optomechanisms, Inc., Engineers Hill, Plainview, L.I., N.Y., operates at a processing time of less than six seconds from camera to finished film. The machine is used for acquisition and display of data as well as to provide a photographic record within seconds after an event has taken place. Operation of the equipment is automatic and operator attendance is not required except for loading film and chemicals and for periodic cleaning.

The system consists of a camera, a specially designed processing head and a



ARRIFLEX®!

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Dow Chemical
CORPORATION



BGEING



Remington Rand



TWA



IBM



Ford



Arco



*Of the fifteen 1960 Industrial Photography Film Awards, ten went to films shot with Arriflex 16mm and 35mm cameras!

What do these leading firms have in common? They all have "in-plant" film departments...they all own Arriflex cameras!

What makes the Arriflex so popular? Primarily, its incredible adaptability to industry's ever-varying requirements. No matter where Arriflex goes—in the plant, in the laboratory, in the office, or out on location—it always does the job better and more easily, faster and more economically than any other motion picture camera.

No wonder the Arriflex keeps winning the warmest praise from cinematographers in hundreds of leading corporations! And industrial films shot with Arriflex keep winning more awards than any others.*

Try one of these world-famous cameras soon. You'll be in the best company when you use an Arriflex.



For literature and/or demonstration of Arriflex 16mm and 35mm cameras, with no obligation, write to:

ARRIFLEX CORPORATION OF AMERICA
257 PARK AVENUE SOUTH, NEW YORK 10, N. Y.

CAMERA MART SAVES YOU MONEY!

Check this list carefully

RECORDING & PROJECTION EQUIPMENT

MAGNASYNC 602E two case magnetic 16mm recorder and amplifier, completely reconditioned, value \$1500, special.....\$1,195.00

CAMART custom built magnetic 17.5 mm recorder operates at 90 ft. per minute, 3 channel mixer, playback amp & speaker, footage counter, erase, cost over \$2000. Specially priced at.....\$795.00

BRUSH BK 443 tape recorder, value over \$300. Excellent, special. \$69.50

MAGNEMITE model 610C portable battery operated 1/4" recorder, dual 3 3/4" track, mike, headset, list \$255, special.....\$79.50

HOLMES 35mm sound projector, 2000' cap, 1000 watt lamp, 4" lens, less amplifier and speaker, excellent... \$295.00

HOLMES 35mm sound projector as above, in good condition, special... \$145.00

ACME, Beacon or Devry 35mm silent portable projectors, 500 watt lamp, excellent for screening work prints, your choice at remarkably low price of \$69.50 each.

CAPITOL 16mm continuous projector, built in 9" x 12" screen, 300 watt lamp, good condition, special. \$59.50

BODDE Background 4 x 5 slide projector, 2000 watt lamp, step-up transformer, stand, 9 ft. by 12 ft. translucent background screen w/frame. Value over \$1600. Excellent condition, specially reduced to...\$1,195.00

BELL & HOWELL model 185 sound projector built in detachable speaker, excellent, value over \$500. Special. \$269.50

BELL & HOWELL model 185 sound projector, built in detachable speaker, B&H custom fitted sync motor, value over \$750.00, specially reduced to...\$345.00

BELL & HOWELL model 399K Specialist projector w/special analyst single frame crank, hours counter, like new.....\$425.00

B&H power amplifier and speaker, list \$167.00, like new condition...\$69.50

BELL & HOWELL model 179 sound projector w/12" speaker and Cordomatic reel. Value over \$600. Excellent buy at.....\$225.00

Listing continued on page 478

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projector mounted into a single unit, together with film feed mechanisms and other associated hardware. The machine is 19 in. wide, 14 in. high and 8 in. deep. In its usual mode of operation a single-frame photograph is made of the object under study on either a pre-programmed basis or at random commands from some outside source. The exposed frame is indexed into the film processing stations, while a fresh photographic frame is simultaneously positioned within 1/10 sec, ready to make a new exposure. The previously exposed frame is advanced through the three stages of processing and then projected with any required degree of magnification.

Processing chemicals are stored in stainless-steel tanks. The fluids are pumped from the storage tanks through the processing head by a single peristaltic pump which handles all three fluids but does not mix them. Pump and drive motor may be mounted at any desired distance from both processor and storage tanks. Color-coded polyethylene tubing and nylon fittings are used for fluid interconnections, and the pump is self priming and self cleaning.



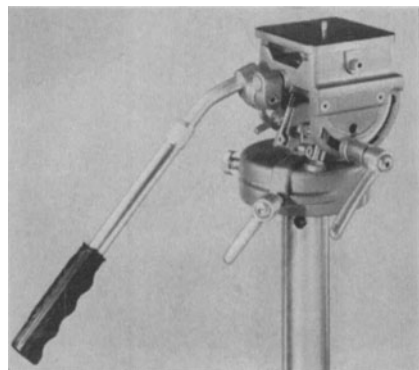
The Macbeth QuantaLog Densitometer Model TD-100, has been announced by Macbeth Instrument Corp., P.O. Box 950, Newburgh, N. Y. The instrument, designed for black-and-white measurements has a range of 3.0 and is designed around a photomultiplier circuit. The instrument is designed to reduce operator fatigue, having a linear meter scale positioned close to and directly in line with the area where the sample is being read. The light collecting assembly is positioned so that it is always perpendicular to the sample.

Ruby laser rods having flat and parallel end faces have been made commercially available by Valpey Crystal Corp., Holliston, Mass., in three separate grades with a choice of 2-, 2 1/2-, or 3-in. lengths in the two highest grades. The highest grade is made from synthetic rubies selected by densitometer and spectrometer analysis. The 2 1/2-in. length is priced at \$445. The second grade, used for less critical experimentation, is priced at \$225 for the 2 1/2-in. length. The third grade, fabricated from synthetic boules not meeting first or second quality standards, is intended for use in preliminary or basic studies. Available only in the 2 1/2-in. length, it is priced at \$225.

Two sensitometers, the Mark VI and the Mark VII, have been announced by Edgerton, Germeshausen & Grier, Inc., 160 Brookline Ave., Boston 15. Both instruments are designed to expose instantaneously the full tonal range of a film, producing a series of accurately controlled exposure patches. Either instrument can be used to test almost any photosensitive silver halide material, including the very slow emulsions. Exposure range of the Mark VI is up to 1/10,000 per sec. It is priced at \$600. The Mark VII, priced at \$1200, has an additional exposure time of one-millionth of a second.

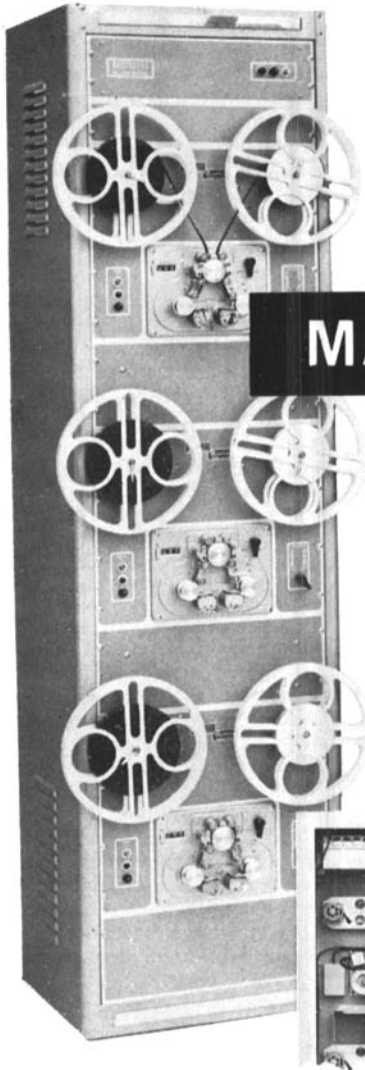
The Sachtler & Wolf Double Gyro Head and Tripod is available in the United States from Florman & Babb, Inc., 68 W. 45 St., New York 36, which has been appointed exclusive distributor. The gyro head is available in two models, the KA, designed for the Arriflex-35, and the UK designed for use with professional 16mm cameras. Both models have a 180° maximum angle of tilt; adjustable gears; full circular panning (360°); easy release of pan and tilt action by two separate levers; ruggedized for use in cold, hot, or dusty situations; and surface treated for use in either tropical or arctic climates. Each model is priced at \$795.00.

The Rebikoff color temperature meter is a pocket-size (2 1/2 by 3 1/2 by 1/2 in.) Swiss precision instrument that, by means of an electronic circuit, determines the color temperature of the light source. When the meter is held toward the light source an arrow on the dial indicates the degrees Kelvin. The proper color correction filter can then be selected from the chart. The meter is available from Karl Heitz, Inc., 480 Lexington Ave., New York 17. It is priced at \$49.95.



A new friction pan head called the Dualok has been announced by Quick-Set, Inc., 8121 N. Central Park Ave., Skokie, Ill., for use with the firm's Hercules tripod. The new pan head features quick acting lock levers and wide range drag controls on both pan and tilt movements. The drag adjustment is independent and is not affected by locking or unlocking. The lock levers are adjustable for rotation and can be set to be locked tight in a preferred position. The Dualok is priced at \$155.00.

The firm has also announced a still camera pan head with worm gear tilt to fit Samson tripods. The mechanism is contained in a compact unit on the left side of the pan head base to permit full camera



*"building blocks"
for
sound engineers*



MAGNASYNC DUBBERS

Producers have found that the use of a single recording channel is only a small part of the tremendous savings possible with magnetic film recording. The next step for the organization seeking quality, economy and independence is to equip to handle their own transfer work, assembly and magnetic mixing of dialogue, music and sound effects.

Magnasync dubbers are of "modular" design and are available individually or in combination of two or three units mounted in an enclosed rack cabinet that requires only 22" of floor space.

Single Dubbers, from **\$1190**

Triple Interlocked Dubbers, from **\$3910**

Rear interior view of Selsyn motor electrical interlock

FEATURES:

- Plug-in preamplifiers with balanced 600 ohm output at zero vu.
- Individual synchronous drive motors.
- Torque motor take-up guarantees smooth film handling and hi-speed rewind.
- Electrical interlock assures absolute "sync" with projector from dead start.
- Wired for remote control, start and stop.
- Fast rewind, fast forward.
- Position for second playback head for transfer of both edge and center track recordings.
- Available with 16mm, 17½mm or 35mm transports.

GENERAL SPECIFICATIONS:

Frequency response: 50 cps to 8,000 cps, ± 2 db (16mm, 36 fpm), 50 cps to 12,000 cps, ± 2 db (17½mm or 35mm, 90 fpm).

Signal-to-noise ratio: > 50 db.

Flutter and wow: 0.12% maximum RMS in any single band.

Distortion: < 0.18% maximum RMS overall total harmonic.

Send for free 41-page catalog describing recorders, dubbers, consoles and accessories.

Authorized Dealers

CHICAGO, ILL.
Behrend Cine Corp.
161 E. Grand, MI 2-2281
Zenith Cinema Service, Inc.
3252 Foster, IR 8-2104

DAYTON, OHIO
Salem Camera Co.
335 Salem, BA 3-7206

DENVER, COL.
Western Cine Service, Inc.
312 S. Pearl, SH 4-1017

HIALEAH, FLA.
Camera Equipment Co., Inc.
51 E. 10th, TU 8-4604

HOLLYWOOD, CALIF.
Birns & Sawyer Cine Equipment
6424 Santa Monica, HO 4-5166
Camera Equipment Co., Inc.
6510 Santa Monica, HO 9-5119
S.O.S. Photo-Cine-Optics, Inc.
6331 Hollywood, HO 7-2124

KANSAS CITY, MO.
Barnard's, 4724 Broadway,
Country Club Plaza, LO 1-7761
Crick's Camera Shop
6320 Brookside Plaza, HI 4-3390

MINNEAPOLIS, MINN.
Century Camera Shops, Inc.
26 S. 7th, FE 8-5857

NEW YORK CITY
Camera Equipment Co., Inc.
315 W. 43rd, JU 6-1420
Florman & Babb, Inc.
68 W. 45th, MU 2-2928
Pictronics Corporation
236 E. 46th, YU 6-3713
S.O.S. Photo-Cine-Optics, Inc.
602 W. 52nd, PL 7-0440

PHOENIX, ARIZ.
Wilson Camera Sales Co.
130 W. Adams, AL 4-0662

ST. LOUIS, MO.
Stanley Photo Service
106 N. Broadway, CE 1-7840

SAN FRANCISCO, CALIF.
Brooks Cameras, Inc.
45 Kearny, EX 2-1902

SAN MATEO, CALIF.
Foreman's
121 Fourth Ave., DI 3-1869

SOUTH AFRICA
Photo Agencies Pty. Ltd.
9 Kerk St., Johannesburg

ARGENTINA, Buenos Aires
Estudios Ion S.R.L.
Diaz Velez, 3891

AUSTRALIA, Sydney
Sixteen Millimetre
Australia Pty. Ltd.
49 Market, New South Wales

BOLIVIA, La Paz
Casa Kavlin
Casilla 500, Calle Potusi 261-263

BRAZIL, Rio de Janeiro
Mesbla, S.A.
Rua do Passeio 42/56

BURMA, Rangoon
G.K. Theatre Supply Co., Ltd.
57 Lewis Street

CANADA, Islington, Ontario
Alex L. Clark, Ltd.
3751 Bloor St., W.

DENMARK, Copenhagen CHL
Kinovox Electric Corp.
Jenslousvej 2

ENGLAND, London
Delane Lea Processes, Ltd.
12 Moor St., (W-1)
Gordon Cameras, Ltd.
45 Kensington High, (W-8)

FRANCE, Paris
Brockliss-Simplex S.A.
6, Rue Guillaume Tell

GERMANY, Hilden Dusseldorf
Gerhard Johansen
3 Lessingstrasse

GREECE, Athens
Christos Axarlis
50 Stadium St.

INDIA, Bombay
Kine Engineers
26, New Queen's Road

ITALY, Rome
Reportfilm, di J.M. Schuller
Via Antonio Bertolini 31

JAPAN, Tokyo
J. Osawa & Co., Ltd.
5, Ginza, Nishi 2-Chrome, Chuo-ku

NEW ZEALAND, Auckland
Kerridge Odeon Industries
St. James Building, Queen St.

PAKISTAN, Karachi-3
Film Factors, Ltd.
27 Victoria Rd., Rex Annexe

SOUTHERN RHODESIA, Salisbury
William Over & Co. Pvt. Ltd.
Kingsway & Manica Road

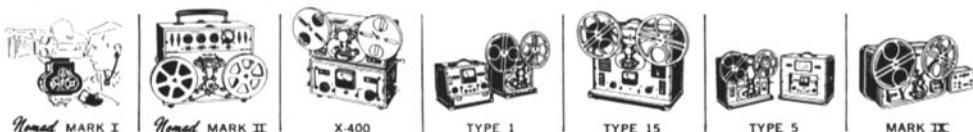
THAILAND, Suriwong, Bangkok
G. Simon Radio Co. Ltd.
30 Patpong Avenue



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MAGNASYNC
CORPORATION

5546 Satsuma Avenue, North Hollywood, California • TRIangle 7-0965 • Cable "MAGNASYNC"



International leaders in the design and manufacture of quality magnetic recording systems

CAMERA MART SAVES YOU MORE MONEY!

EDITING EQUIPMENT

MOVIOLA model UCS, 35mm picture on 3" bullseye, separate 35mm opt-mag sound, light well, no take-ups, rebuilt, value over \$1200. Specially reduced to.....\$495.00

MOVIOLA model UDS three heads, 35mm picture on 3" bullseye, two separate 35mm opt-mag sound heads, light well, no takeups, value over \$1500. Excellent, special...\$645.00

MOVIOLA model UDS 35mm picture on 3" bullseye, separate 35mm optical sound, with take-up arms, excellent.\$695.00

SYNCHRONIZERS

MOVIOLA 2/35mm black....\$ 49.50

NEUMADE 2/35mm..... 45.00

3/35mm..... 49.50

4/35mm..... 69.50

1/16-1/35 comb 49.50

1/35mm

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Heavy duty rewinds, geared end 35mm, some with brakes, Neumade, Wenzel, or Goldberg, list over \$45.00 per pair, specially offered at...\$19.95 per pair

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SPLICERS

BELL & HOWELL 16/35mm hot splicer, list \$339, used,.....\$125.00

SCHOEN/Hollywood automatic 35mm mylar tape splicer, list \$195, like new\$99.50

ACE Standard 16/35mm Mylar tape splicer, straight and diagonal, original list \$69.50, like new.....\$49.50

ACE CLEARVISION Deluxe 16/35mm mylar tape splicer, straight and diagonal. List \$125. Special offer of brand new splicer with Ace serrated cutter bar, only.....\$69.50

GRISWOLD Senior model 16mm or 35mm cement splicers, list \$36. Used.....\$15.00

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movement in all directions without interference. The pan head is priced at \$45.00.

Filters for adapting older models of 8mm electric eye cameras for use with higher-speed color films have been announced by Bell & Howell, 7100 McCormick Rd., Chicago 45. Expected to become commercially available in the near future, neutral density filters will be made in both turret and single-lens styles for all of the firm's electric eye models manufactured before the introduction of color films with advanced ASA ratings.

Synchronous drives for automatic operation of 16mm cameras at preset times or when triggered have been announced by Lafayette Instrument Co., Lafayette, Ind. Consisting of a gear-driven Bodine motor with Geneva movement, each drive is part of an assembly that includes a metal base with a tripod mount fitting and coupling for a Bell & Howell camera. Available for various speeds, for continuous or intermittent operation, and with remote control or other triggering device, the drives operate on 115-v a-c, 60 c. The price range of the drives is from \$125.00 to \$665.00.

Three Zeiss Planar lenses having focal lengths of 16mm, 25mm and 50mm have been announced by Arriflex Corp. of America, 257 Park Ave. South, New York 10, as an addition to the line of Arriflex-16 lenses. The 50mm lens is rated at f/2 and the 16mm and 25mm lenses are rated at f/2, T2.2. All three are calibrated in both feet and meters and each is priced at \$225.00. The lenses are said to produce extremely sharp, crisp pictures.

An 18mm, f/2, C-mounted Kinoptik lens has been added to the series (1.9 to 500mm) available from Karl Heitz Inc., 480 Lexington Ave., New York 17. The new 9-element apochromat Kinoptik is priced at \$199.00.

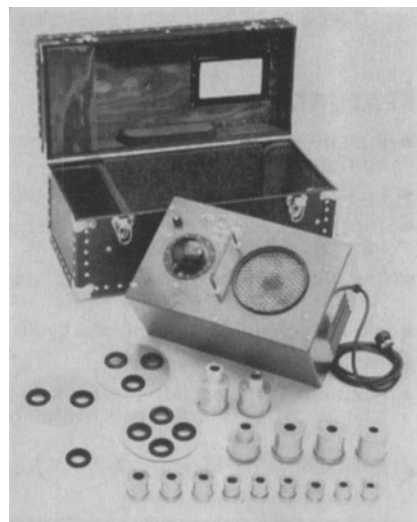
The ColorTran Heat Filter is made of molded glass with heat-absorbing properties incorporated in the glass during molding. When placed over the lights the filter is said to absorb up to 85% of the infrared heat generated by any light source without appreciably affecting the usable actinic photographic visible rays. Designed mainly for the sake of the comfort of actors on a motion-picture set, the heat filters are also used in plant photography, medical studies and other situations where heat is a problem. A product of ColorTran Industries, 630 S. Flower St., Burbank, Calif., the heat filters are available in a wide range of sizes and prices, varying from 30 cents for a heat filter 1/4 in. in diameter to \$218.00 for the 20-in. size mounted in holder for use in front of lights. The average high-intensity motion-picture light has a diameter of 14 in. for which a heat filter would cost \$120.00.

A metallic-vapor lamp said to be considerably more efficient than conventional incandescent lighting and of comparable whiteness has been developed by the General Electric Research Laboratory,

Schenectady, N.Y., and is now undergoing a series of tests. One "secret" of the new lamp is said to be the use of small amounts of metallic elements other than mercury, including sodium and thallium. Luminous efficiencies ranging from 70 to 110 lm/w have been obtained in laboratory tests, in contrast to about 52 lm/w obtained with mercury alone, and 56 lm/w by the addition of a phosphor to the bulb wall.

The Nova Twin, a lightweight, high-intensity professional lighting unit, is now available commercially, following a series of tests by the Department of Defense. The unit, produced by Novatech Corp., 282 Seventh Ave., New York 1, employs a 3200 K quartz iodide lamp with a light intensity said to be 500 ft-c at 10 ft. The average lamp life is reported by the manufacturers at about 200 hr and power consumption of 1250 w. The unit weighs 3 1/2 lb and a light stand, also weighing 3 1/2 lb extends to 9 1/2 ft and collapses to 31 in.

The Dreamlitter Deluxe 1000, a miniaturized light dimmer designed to control up to 1000 w of incandescent lighting by the turn of a knob, is produced for theater lighting systems by Electro-Solid Controls, Inc., 8001 Bloomington Freeway, Minneapolis 20, Minn. Easily installed in any standard double-gang wallbox, the light dimmer, a solid state, semiconductor device, is said to provide gradual, smooth and uninterrupted selection of any degree of incandescent lighting intensity from absolute off to maximum brilliance. The dimmer is also available in smaller versions.



The Windhowler, a Moleffects device, can simulate the sound of a moaning, whistling or shrieking wind. It can make sounds like the wind blowing through a ship's rigging, across the desert, in the forest, over the mountains. It can sound like the winter wind, a weird wind, or winds in a hurricane. It can also make sounds like a jet engine. The sound effects are produced through various combinations of resonators inserted in discs with the required number of holes. A rheostat provides a means of adjusting the sound to the desired level. The device is a product of Mole-Richardson Co. 937 N. Sycamore Ave., Hollywood 38.

Pink-Noise Filter, Type 1390-P2, produced by General Radio Co., West Concord, Mass., translates the white-noise output of an audio-frequency random-noise generator into pink noise, i.e., noise with constant energy per octave. Designed to plug directly into the GR Type 1390-B Random-Noise Generator, the filter can be used in any circuit where such a characteristic is desired, provided the source impedance is less than 1000 ohms and the load impedance is at least 20 kilohms.

A **hold-back and brake system** for professional tape recorders has been announced by Magnasync Corp., 5546 Satsuma Ave., North Hollywood. The assemblies are ready for mounting on the tape transport panel and include a torque motor and a brake and reel hub. The motor is designed for continuous 24-hr operation. The solenoid-operated brake consists of a stainless-steel drum and band with Dycron band lining. Price is about \$100.00.



A **multichannel recording/reproducing system** called the Model T-1510 has been introduced by Magnasync Corp., 5546 Satsuma Ave., North Hollywood. Featuring a "fail-safe" device that instantaneously detects mechanical or electronic failure and automatically starts a standby recorder, the machine, using 1/2-in. tape, records up to 10 simultaneous audio transmissions. Suggested applications include language laboratories, airport, law enforcement, fire department, military communications centers, and similar applications. The price of the Model T-1510, including dual transport and automatic changeover, is \$5,475.00.

A **portable television tape recorder** using 1-in. tape has been announced by Mach-Tronics, Inc., 185 Evelyn Ave., Mountain View, Calif. The recorder, called the MVR-10 is said to weigh less than 100 lb and to occupy only 2.3 cu ft, including a built-in 8-in. video monitor with an integrated audio channel. The compactness of the machine is possible because of solid state electronic circuitry and a specially designed transport mechanism, the report stated. It is reported that more than an

The superiority of new Altec Dynamic Microphones is all the more amazing when you discover their moderate price!

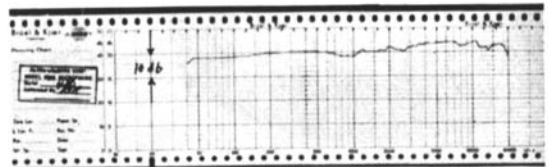
There are six dynamic microphones in Altec's new professional studio series. Each sets new standards of performance and durability in its class. Each offers distinctive features of significant value to the professional user, especially since the highest price model is yours for under \$100.00! Let's take a look at some of these features:

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For specific engineering details, call your nearest Altec Distributor (listed in your Yellow Pages) or write Dept. SM6

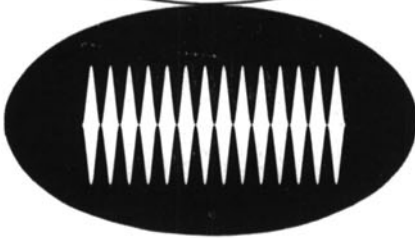
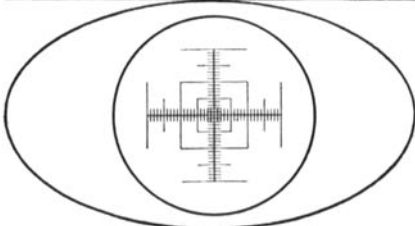
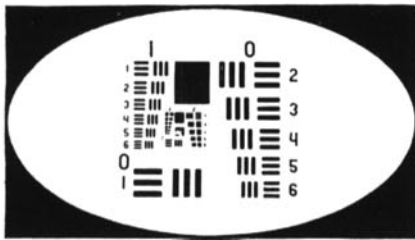
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A new line of static standby a-c electric power systems for industrial and business applications has been announced by Exide Industrial Marketing Division, Electric Storage Battery Co., Rising Sun and Adams Aves., Philadelphia 20. The equipment was developed by Tapco, a division of Thompson Ramo Wooldridge, Inc., Cleveland, and is manufactured for Exide under a recent agreement between the two divisions.

Lead-acid batteries, described as "maintenance-free," have been announced by Exide Industrial Marketing Division of The Electric Storage Battery Co., Rising Sun and Adams Aves., Philadelphia 20. They are to be produced in two basic types, one for use in portable power systems and the other for heavier stationary systems. Designed to be used as complete power-package systems, both the portable and stationary types are coupled with automatic charging devices. The electrolyte of the portable type is entirely contained within the units; thus, the batteries can operate upside down or in any other position without risk of corrosive fuming, spray or leakage.

A package of 50 $\frac{1}{4}$ -w nuvistor triodes, the whole shipment weighing less than $1\frac{1}{2}$ oz, has been delivered to the Bureau of Ships, U.S. Navy, by the Radio Corp. of America. Development of these minute electron tubes, described as "no larger than a vitamin capsule," was sponsored by the Navy. It is expected that the miniature nuvistor triode will be evaluated for use in antisubmarine equipment, aircraft-proximity warning systems, and other systems where compactness, light weight and low power consumption are essential.

A multilayer flat cable called Lamoflex has been developed by the Plastic Products Division of International Resistance Co., 401 N. Broad St., Philadelphia 8, for use in rugged environments. The conductors are bonded between plastic insulation and the cable is reported to have bond strengths of more than 7 lb per inch of width. Applications suggested by the manufacturer include missile and satellite systems, computers, telephone and other communications equipments, and other situations with special space, weight and reliability requirements.

A 75-ohm version of Spir-O-Foam coaxial cable for community and closed-circuit applications has been developed by Prodelin Inc., Hightstown, N.J. The cable is available in continuous lengths to 1000 ft and is supplied on nonreturnable reels.

The A.P.I. "no break" generator unit has been developed by Automatic Power, Inc., 205 Hutcheson St., Houston, Tex., to provide continuous power to critical loads when commercial power fails. The unit has been tested on a 140-station radio microwave system and according to the announcement supplies constant standby power in any weather and in any terrain.

The Electrostore Recording Storage Tube System, Model 207, is a product of Image Instruments, Inc., 2300 Washington St., Newton 62, Mass. Operating at standard EIA television scanning rates, the unit stores and instantly reads out for continuous display a single television frame. Readout is nondestructive and the stored picture may be repeatedly displayed on a TV monitor for about ten minutes. Dimensions of the unit are 77 in. high, 22 in. wide and 24 in. deep. It weighs 470 lb. The price is \$14,400.

A loaded plastic material called Ferroxdure has been announced by Ferroxcube Corp. of America, Saugerties, N.Y. Formed into a TV picture shift magnet, the new plastic is said to reduce power consumption from components within the TV receiver. The magnet is placed on the neck of the cathode-ray tube in back of the deflection coils in place of the usual metallic sheet materials such as low percentage cobalt, chrome or tungsten steels. The material provides higher electrical resistance and coercive force, resulting in greater magnetization force from the deflection coils.

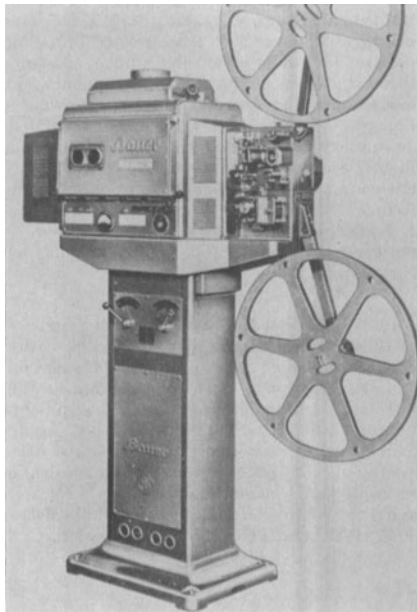
Improved thin-film resistors have been developed in Bell Telephone Laboratories by means of a new technique of sputtering tantalum films in a partial nitrogen atmosphere. The tantalum-nitride technique is reported to provide resistors with a stability and reliability formerly available only in larger and more expensive hermetically sealed devices. In "sputtering," ionized gas molecules bombard a cathode of a refractory metal, such as tantalum, dislodging its atoms which then redeposit on nearby surfaces. Very precise miniature resistors can be produced on glass or ceramic bases by this technique when used in conjunction with a photolithographic etching process.

Wireless speakers for drive-in theaters based on the principle of magnetic coupling have been introduced by Wiancko Engineering Co., 255 N. Halstead Ave., Pasadena, Calif. Developed by Harold W. Rosenberg, the speakers are said to be the first major change in drive-in sound systems since 1932. The new system, called MC Sound System, combines high fidelity sound and mobility of the speaker by transferring sound through magnetic signals from a completely buried generating loop. The signals can be received by the speaker anywhere inside the loop and around the perimeter of the loop.

The EMI Color Camera Chain Type 204 is a product of the General Communications Division of EMI/US, 1750 N. Vine, Los Angeles 28. The camera uses three vidicons to give red, green and blue signals for encoding on NTSC or for closed circuit. Each tube has its own objective lens and a system of dichroic and front-surface mirrors is used to split the incident light into its color components. The camera is said to have extremely stable operation and to give broadcast-quality pictures within ten minutes after a cold start. The complete chain consists of the camera,

camera control unit, remote control panel, amplifier, power supply and waveform monitor. The camera controls have been made compact to permit the operator to concentrate on picture composition.

An experimental color TV camera developed by RCA employs a 4½-in. image orthicon, the 7295A, to pick up the black-and-white signal and three 1-in. vidicons, Dev. Types C74016, are used for the red, blue and green picture information. The imposition of the black-and-white signal from the one image orthicon onto the three primary color signals is said to enrich picture hues and provide sharper definition.



The Bauer 16mm Selection Projector incorporating a specially designed xenon lamphouse is produced by Eugen Bauer Co., of Germany, and is available in the United States from Camera Equipment Co., 315 W. 43 St., New York 36, a division of CECO Industries. The projector is designed for operation in permanent installations, such as schools, auditoriums, both industrial and public.

The lamphouse is designed to provide more than 1500 hours of continuous operation. The xenon lamp is instant starting and is said to require no maintenance or adjustment throughout its life. A cold mirror, developed by Bauer, is made to reflect only the light of the xenon bulb and to allow the heat to pass through it and out of the back of the lamphouse as a means of extending film life. The light output of the projector with the 2000-w lamphouse is said to be 4100 lm measured at the screen.

The projector is equipped with both magnetic and optical soundheads, set at the turn of a switch; optical/magnetic pre-amplifiers and a 15-w power amplifier; a CECO 110-v, 60-c, two-speed synchronous motor for 16 and 24 frames/sec; and a Maltese Cross design film pulldown system. The projector is fitted with arms to accept 5000-ft reels. It is 4 ft, 6½ in. in length and weighs about 264 lb. The approximate price is \$7500.00, depending on choice of lens and auxiliary equipment.

A TV studio camera that can use either a 4½-in. or a 3-in. image orthicon has been introduced by the Technical Products Operation of General Electric Co., 212 Division St., Syracuse 8, N.Y. The camera has design features such as regulated voltages and extensive use of transistorized circuits for stability and reliability. Other products recently introduced by GE include a video switcher which eliminates transient signals by switching in the vertical blanking interval, and a heterodyne 2000-mc TV microwave repeater.

The Island of Bokn in Stavanger Fiord is the site of a television station which is operated by remote control from the mainland of Norway by means of a vhf radio link. Established by the Norwegian Telegraph Administration, the station's transmitters, two 4-kw vision and two 1-kw sound, manufactured by Marconi Wireless Telegraph Co., Chelmsford, Essex, England, are suitable for unattended operation. Marconi also supplied and installed program input and ancillary equipment. The remote control facilities over the vhf link include the independent on-off switching of all four transmitters; control of blanking level (including the on-off switching of blanking level feedback), and control of video and audio gain. An indication of power output at normal, high and low levels is also provided over the link. Adjustments to the controls are made in conjunction to a waveform display derived from a high-grade receiver and oscilloscope located at the remote control position on the mainland.

An x-ray image intensifier used in combination with an RCA closed-circuit system is being tested at John Hopkins Hospital, Baltimore, Md., with the aim of establishing a diagnostic technique. The TV camera is mounted on an x-ray image intensifier in an examining room; as the examination proceeds the TV pictures are relayed by cable to a tape recorder in a nearby room. At the same time the pictures appear on a monitor in the examining room where they may be viewed by the physician and, in some instances, by the patient. The tape recorder and auxiliary equipments were purchased with funds from a National Institutes of Health grant. It is planned to equip a special viewing room with a TV monitor for group consultations. This use of x-ray TV is expected to be especially useful in diagnostic or research studies where motion is important to a determination of organic malfunction as, for example, in diagnosing heart ailments.

Silicon solar cells made by forming a thick layer of n-type semiconductor on a base of p-type semiconductor have been found to be the simplest and among the most useful devices available for measuring high-intensity radiation, according to a recent release from Bell Telephone Laboratories, 463 West St., New York 14. For most applications all that is necessary is to solder wires to the solar cell and connect them to an ammeter. For example, one million rads per hour of x- or gamma radiation would produce a current from the cell of 37 microamperes, easily measurable on a moderately sensitive meter.

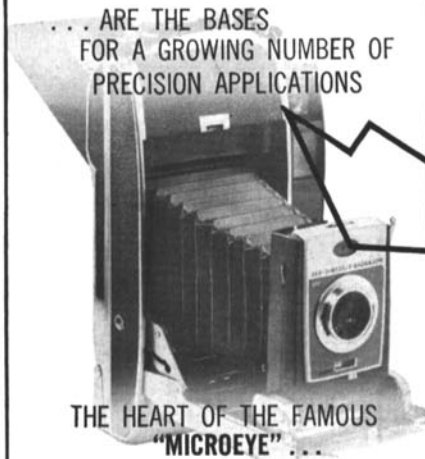
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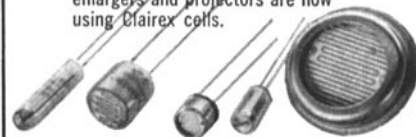
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