

# NEW!

The first film specifically designed for blow-up color negatives from 16mm originals . . .

## Eastman Internegative Type 5270

- Higher color quality
- Lower graininess
- Perfect contrast
- Maximum definition

The first feature film blown up on this exciting new film, and soon to be released . . .

### Lo — the Indian!

*Theater of Life Productions*

In preparation

### The Mating Urge

*Howard C. Brown Productions*

.....

SPECIALIZED LABORATORY SERVICES

DIRECT REVERSAL BLOW-UP THEATER PRINTS

SPECIAL EFFECTS

QUALITY DUPING

## FILMEFFECTS of Hollywood

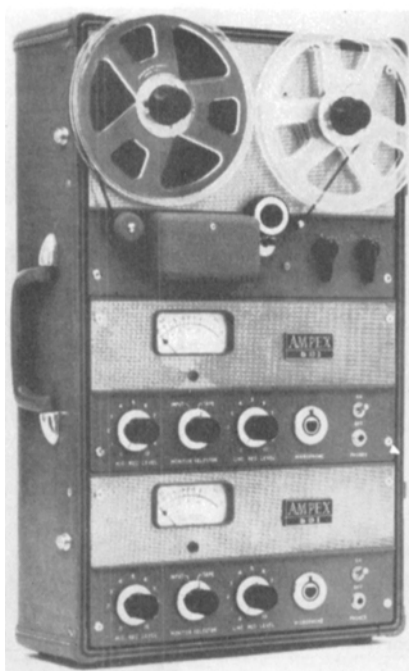
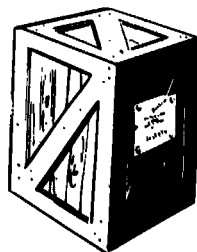
1153 NORTH HIGHLAND AVENUE  
HOLLYWOOD 38, CALIF.

Linwood Dunn, ASC    Cecil Love  
30 years of Major Studio Experience

## 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.



**Ampex Model 601-2** is a portable 2-track stereophonic recorder which uses precision in-line heads for recording and reproducing. Interchannel crosstalk is reported below the inherent noise level. Separate microphone and line inputs and level controls on each channel permit stereophonic mixing. The unit records both stereo and single-channel tapes and plays back stereo, full or half-track tapes. It is contained in a carrying case and priced at \$995.00. Further information is available from Ampex Corp., 934 Charter St., Redwood City, Calif.

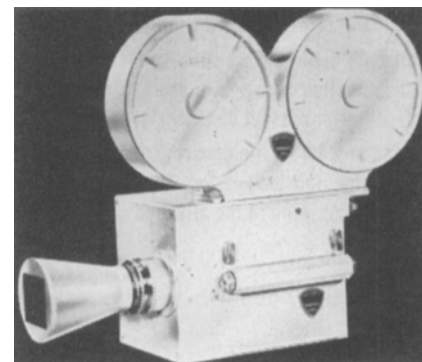
The **Elwood Densitometer and Light Meter** is a product of Fotomatic Corp., 2603 Kessler Blvd., North Drive, Indianapolis 22. It is an instrument for measuring light quantities and light qualities. It consists essentially of a light-sensitive crystal, a meter, and a mercury-type battery power supply. There are no electronic tubes or parts. The crystal is cadmium selenide, reported to be "ultra-stable" as a result of recent developments in mounting and

production. In operation, a voltage is applied to the crystal and a microammeter in a series circuit. A tap switch is used to apply 6 different voltages to the circuit. The switch provides on-off operation of the meter.

The meter is not calibrated to any one application. It is made to read in per cent, with blank scales provided for inserting with particular calibrations. A lens tube is included as an extra attachment. The sensitive crystal probe may be inserted in the tube and the unit used as a light meter for measuring small areas of light from a distance. The lens tube contains a lens and a diffusing glass. The diffusing glass is located at about the center of the tube so the scene or subject aimed at is observed in fine detail on the glass. A slot is provided in the tube so the crystal probe may be in between the lens and the diffusing glass. The probe is clear plastic so the small crystal appears on the ground glass as a small black spot. To measure a part of the scene, it is covered by the black spot on the ground glass.

Suggested uses include contact printing, enlarging, x-ray analysis, light measurements and color printing. It is priced at \$118.00.

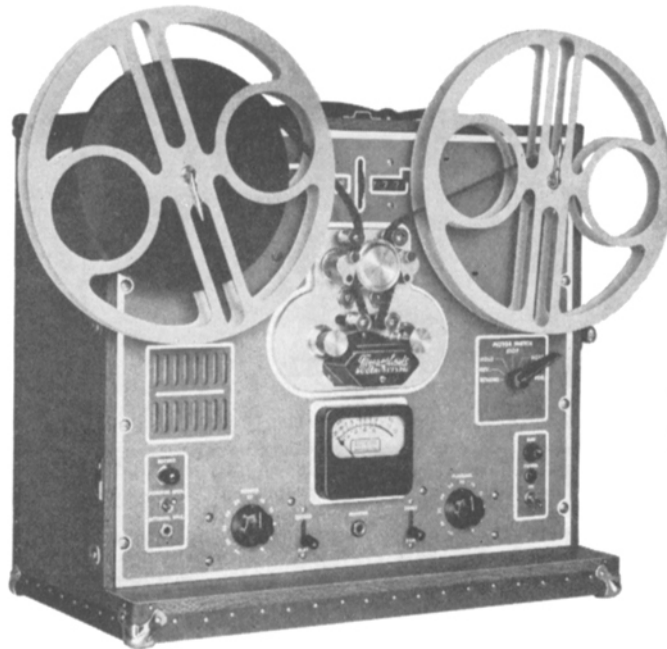
A **lenticular projection screen**, designed to show motion pictures, slides and TV under normal room lighting conditions, is manufactured by the Universal Screen Co., Clinton, Mass. It was exhibited for the first time at the National Audio Visual Association Convention held July 19-24 at Chicago. The screen is reported to have complete directional control enabling a viewer at 45° from the projection axis to receive the same reflective brilliance as a viewer at 15°. The lenticular design was constructed to give maximum reflection of projected light and at the same time to resist outside light. The screen is especially applicable to classroom viewing in that it makes unnecessary the installation of special "black-out" devices.



The **Photo-Sonics 4B Camera**, manufactured by Photo-Sonics, Inc., has been designed for research in missile and related rapid-motion projects. It is a rotating-prism camera, with a rotating disk shutter provided in interchangeable units with openings of from 5° to 60° available. A film capacity of 500 ft is provided in a removable film chamber. Further information, including cost, is available from the distributor: Gordon Enterprises, North Hollywood, Calif.

# NEW MAGNASYNC-MAGNAPHONIC ALL-IN-ONE SOUND SYSTEM

*cuts set-up time for on-the-go producers*



TYPE 15, series 400  
price \$1385.00

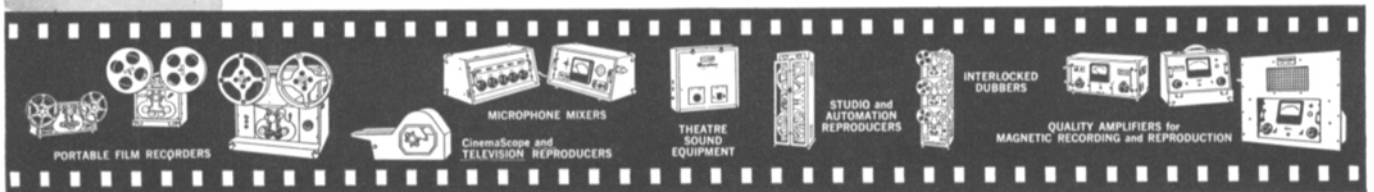
Here, in a single portable case, is a complete, top-quality sound system. Playback monitor amplifier, loudspeaker and recorder are all built into this one compact package. Just open the case and you're in business!

## FEATURES—

- Accurate, easy-to-read footage counter.
- Direct coupled torque motors.
- Simplified single-switch for motor control functions.
- Simultaneous film monitor
- "RECORD" indicator lamp.
- 1200-foot film capacity.

Panel size: 19" x 15 3/4"; Weight 59 lbs.

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



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

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NEW YORK—Camera Equipment Co., 315 W. 43rd St.  
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CHICAGO—Zenith Cinema Service, Inc., 3252 Foster  
Ave., Chicago 25, Ill. IRVING 8-2104.

SAN FRANCISCO—Brooks Camera Co., 45 Kearney St.,  
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- Simplified camera attaching method with easily accessible knob
- Adjusting telescoping pan handle with adjustable angle, and sockets for left, right or reverse tilt
- Special pan tension adjusting knob, independent of pan lock
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- Self-aligning double leg locking knobs

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



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35mm Hi-Speed  
35mm NC • 35mm BNC

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Combination

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all models single system  
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McAlister CRAB  
Platform • Western  
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(shadowless lite)  
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Barn Doors  
Diffusers  
Dimmers  
Reflectors  
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Tables • Splicers  
Viewers (CECO)  
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Reeves Magicorder  
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Portable Power Supplies to  
operate camera and recorder

FRANK C. ZUCKER

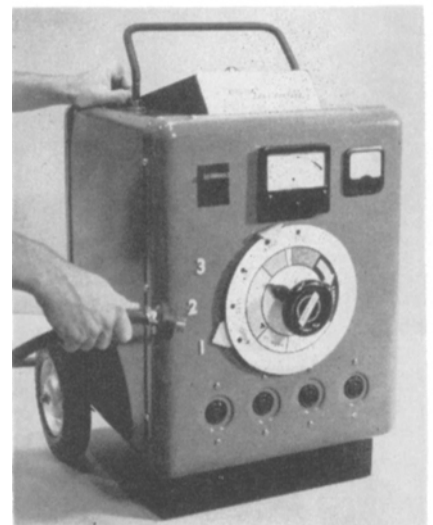
**CAMERA EQUIPMENT CO., INC.**

Dept. 15 315 West 43rd Street,  
New York 36, N. Y. JUDSON 6-1420

A monobath for films developed by Harry S. Keelan, Research Associate, Boston University Physical Research Laboratories, Boston 15, is reported to eliminate many of the disadvantages of earlier processes, such as instability, uneven development, excessive softening of the emulsion, loss of speed and higher fog. A description of the monobath was presented before the American Chemical Society at its meeting in Miami in April 1957.

In developing his process, Mr. Keelan used sodium aluminate both as buffer and alkaline hardener to eliminate the disadvantages with the exception of speed and higher fog. Subsequently the addition of compounds of extremely high redox potential, such as triaminophenol trihydrochloride, eliminated loss of speed. Finally the availability of phenidone along with Panatomic X film eradicated the remaining disadvantage — fog.

Panatomic X film was simultaneously developed and fixed in 90 sec at 90 F to a gamma of 1, an ASA Exposure Index of 25, a fog of 0.25, with a resolution for more than 70 lines/mm. At 68 F, the processing time is 3 min, the gamma 0.80, and the fog 0.21.



The Forney Cinetron, a power source reported to be adequate to the lighting requirements of any normal set, either sound-stage or on location, has been announced by Forney Industries, Box 563, Fort Collins, Colo. Features are combination 110-230 v input, three-in-one "Color Kelibrator," heavy-duty power cords with twist lock receptacles, 60-amp breaker, and zero load adjustment. It is priced at \$349.00 f.o.b. Fort Collins, Colo.

The Vanguard Instrument Corp., 184 Casper St., Valley Stream, N.Y., has announced that the Vanguard M-16C Motion Analyzer is now available with provision for mounting automatic data readout to the X, Y and frame count outputs. This enables the operator, after manually positioning the crosshairs, to feed readings to IBM card punches, punched tapes or electric typewriters. Readings are initiated by depressing a foot switch.

A television tube that uses an extremely thin transparent phosphor layer instead of a coating of phosphor powder was exhibited by the General Electric Research Laboratory, Schenectady, N.Y., at the Western Electronics Show and Convention held Aug. 20-23 at San Francisco. The company has also announced a color tube called the "penetron" which is made by applying transparent layers of different phosphors to the tube face and changing the operating voltage to produce the desired color.

The announcement describing the method of coating the tube with a phosphor layer stated that it had been "invented several years ago" by Dominic Cusano and Frank Studer. The "penetron" was announced as having been developed by Lewis Koller. The three scientists are associated with the GE Laboratory.

A device described as an image-orthicon life-extender has been announced by the General Electric Co. Technical Products Dept., Syracuse, N.Y. Designed to prevent burn-in and sticking of images on image-orthicon tubes, it is expected to extend greatly the life of the tubes which now ranges from about 200 to 1000 hours. The "life-extender" operates with an electronic deflecting system used to move or "wobble" the image inside the tube. To offset the wobble, a scanning beam inside the tube follows and automatically compensates the wobble, causing the transmitter picture to appear as a normal, stationary image on TV receivers. The complete unit comprises about 50 small parts, including 6 capacitors, a synchronous resolver and a drive motor. With cover closed, it is about the size of a cigar box.

A report on a station test showed the device as enabling a tube to be used effectively for more than 1400 hours. It will be priced at about \$1,200.00.

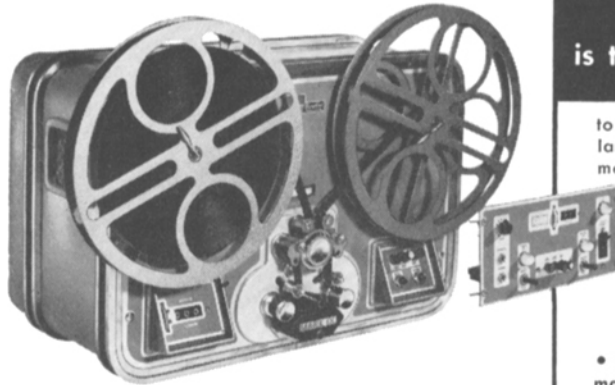
TV camera designed for military use on land, in the air and underwater has been announced by Admiral Corp., 1191 Merchandise Mart, Chicago 54. The camera is reported to be so sensitive that it can "see" as much by the light of a match as a man with normal vision by the light from a 150-w bulb. The image-orthicon camera weighs approximately 75 lb and measures 26 in. long, 13 in. wide and 17 in. high. The optical system of the camera is located on the bottom and it is built to operate at depths up to 1000 ft.

Two new types of vidicon TV tubes have been announced as in production and immediately available by General Electrodynamics Corporation, Garland, Texas. These are the GEC 6198-A, intended primarily for industrial use, and the 6325-A, a studio-quality tube for film-scanning and live broadcast purposes. New design features include the elimination of the side tip which characterized earlier models and attachment of a special particle shield to keep any loose particles of cathode and getter material from falling on the light-sensitive surface. This makes it possible for these GEC Vidicons to be operated in the face-down position, previously not recommended.

# CAMERA EQUIPMENT COMPANY

presents the new Magnasync

## Magnaphonic Sound Recorders



The New MARK IX

### MAGNAPHONIC SOUND SYSTEM, SYSTEM "A"

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

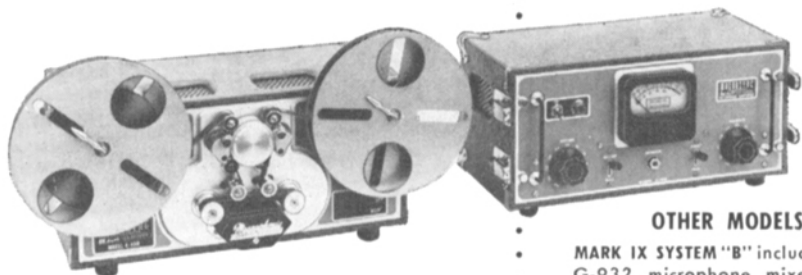
For quality & economy  
**MAGNASYNC**  
is the perfect answer—

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

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

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

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



Model X-400

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

\$985.00

Prices subject to change without notice

### OTHER MODELS:

MARK IX SYSTEM "B" includes Model G-932 microphone mixer with 2 channel slide wire attenuators.  
**\$2,820.00**

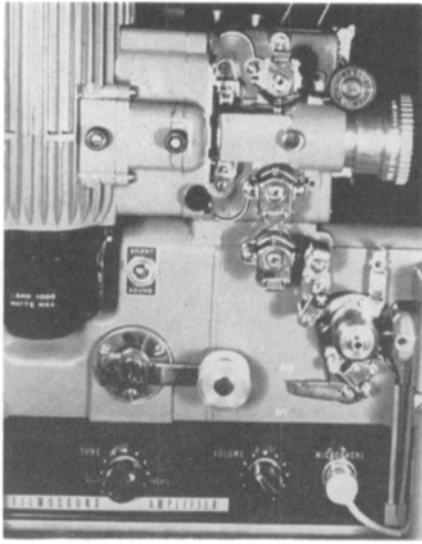
MARK IX SYSTEM "C" includes Model G-924 microphone mixer and remote control assembly packaged in matching portable case.  
**\$2,520.00**

TYPE 5 features built-in Monitor amplifier, separate overdrive torque motor, record gain control, and playback control. Priced from  
**\$1,570.00**

FRANK C. ZUCKER

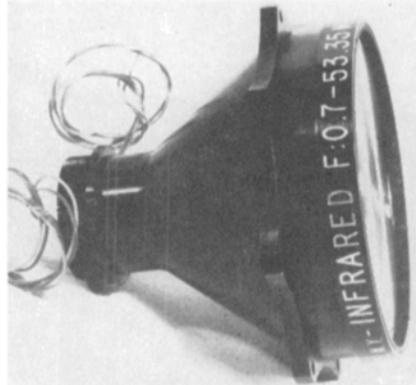
# CAMERA EQUIPMENT CO., INC.

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



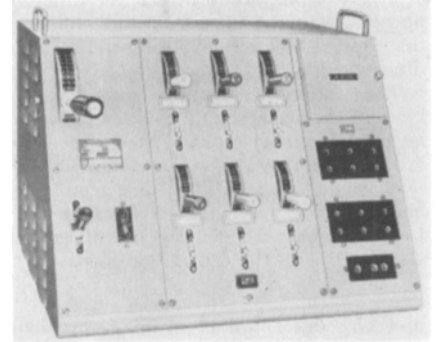
**A Magnetic Playback Conversion Unit** for the Bell & Howell Filmosound Projector, for erase-proof magnetic playback, has been developed by Binghamton Magnetic Industries, Inc., Binghamton, N.Y. The unit permits the reproduction of magnetic and optical soundtracks individually or simultaneously with no change in threading. It is designed to scan at 28 frames and with frequency response conforming to SMPTE standards. It is priced at \$99.50. The distributor is Williams, Brown and Earle of Philadelphia.

**The Picto-Scope**, an anamorphic lens announced by the Apex Specialties Co., Providence 4, R.I., is designed in three models: the Professional for 8mm and 16mm motion-picture cameras and projectors; the Imperial for 16 mm zoom lens or studio or location 35mm camera work; and the Imperial Model F.M. for 35mm theater projectors or 35mm camera work. The lenses are suited for color or black-and-white film.



**High-speed optics** designed for use in earth-satellites have been developed by Zoomar, Inc., Glen Cove, N.Y., for the Army Engineering Laboratory. Mounted opposite each other, the optics will alternate in facing the earth's surface as the satellite rotates. Including the housing, they have a speed of  $f/0.7$  with a diameter of 3 in. and a weight of  $2\frac{1}{2}$  oz. The optics

will pick up infrared radiation reflected from the clouds and will be focused on a very small detector unit. Solar batteries will activate each unit as it faces the earth's surface, and will turn off the equipment when the satellite is on the dark side of the earth. The information collected by the devices will be telemetered back to earth.



**Packaged Luxtrol** light control equipment which can be used as a portable unit or stacked to build a large switchboard is a product of the Superior Electric Co., 83 Laurel St., Bristol, Conn. The DC-2500 series is recommended for schools, theaters and other applications which require individual circuit control up to 2500 w. The company's Bulletin LI57P, a 28-p catalog, describes the units which come as 3, 4, 5 and 6 controllers with individual controller ratings of 2500 w is available from the company.

## Educators...

- Make sure you get the most out of your 16mm sound films
- Use the standard tests your own projector repairman uses
- Measure your projector's performance yourself with the . . .

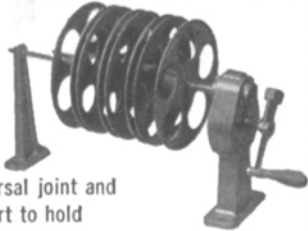
## 16mm SOUND-SERVICE TEST FILM

- Points up both projection and sound troubles
- Instruction booklet supplied with the film
- Test instruments are not required. Write . . .

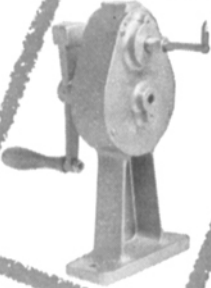
**SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS**  
55 West 42nd Street, New York 36, New York

**HF**  
**REWINDS and ACCESSORIES**

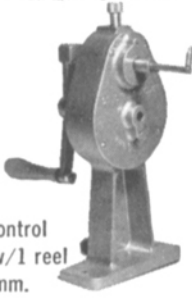
**REU-1**  
 rewind w/universal joint and end support to hold up to 5 - 35mm reels.




**RE-1**  
 rewind w/1 reel 35mm shaft



**REF-1**  
 friction control rewind w/1 reel shaft 35mm.



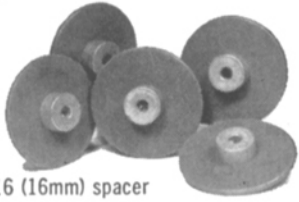
**RETWC-1**  
 rewind w/16 - 35mm combination tightwind



**SB-1**  
 swivel base attachment for rewind



**SP-16 (16mm) spacer**  
**SP-35 (35mm) spacer**



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 35mm aluminum shaft male or female cores  
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400-1200 MAGAZINE OPERATION  
The finest job at the lowest price with  
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**HAROLD'S MOTION PICTURE LABS.**  
Serving the big upper Midwest in  
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The most illumination for the least investment  
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ELIMINATES COSTLY SHIPPING  
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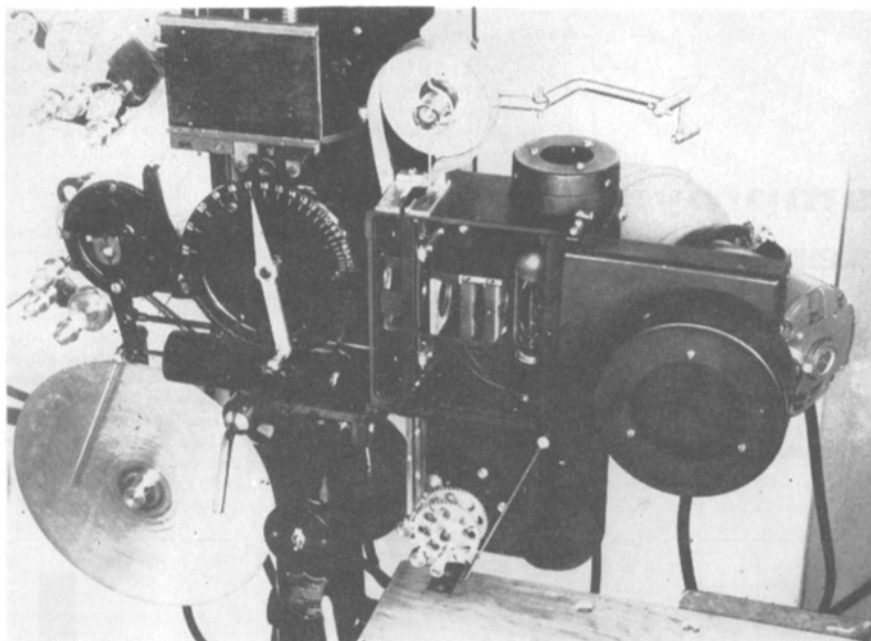
**The Graybar Guide to Industrial TV-With Equipment Selector** is a 64-page illustrated catalogue issued by Graybar Electric Co., 420 Lexington Ave., New York 17. The catalogue is divided into 7 sections: (1) A Guide to Industrial and Closed Circuit Television; (2) Video and Optical Equipment for Closed-Circuit TV System; (4) Audio Equipment for TV Systems; (5) Transmission and Distribution Equipment for ITV Systems; (6) Servicing and Maintenance of ITV Equipment; (7) Engineering Data for ITV Systems. The first section includes an account of the many applications of industrial TV, ranging from training and educational uses to theft detection. The catalogue is available upon request from the company.



**GPL Model PD-500**, a self-contained, closed-circuit TV camera has been announced by General Precision Laboratory, Inc., Pleasantville, N.Y. It weighs 12 lb. and is 12 in. long, 5 in. wide and 7½ in. high. Included within that space are the camera, camera circuitry and camera controls. Priced at \$1,250, including camera tube and a 3-lens manually operated turret, it complements the company's Model PD-150 camera chain.

**A technique for the dynamic measuring** of small-signal characteristics of each transistor before using it in a new design has been developed by the Cubic Corp., 5575 Kearney Villa Rd., San Diego 11, Calif. The technique enables the circuit designer to examine simultaneously a series of electrical parameters in the circuit laboratory. Employing a multipurpose switching circuit composed of two transistors, the newly developed examination technique permits quantitative measurements using a calibrated oscilloscope for rapid design analysis. In making the desired measurements, a curve tracer is used. In a typical circuit laboratory setup a family of curves of transistor characteristics is displayed on the face of a standard cathode-ray oscilloscope. The specific range of examination can be controlled so that one or more characteristic curves can be selected and the inclusive electrical boundaries of the curves as presented can be varied over wide limits.

**General Radio Co.**, 275 Massachusetts Ave., Cambridge 39, Mass., has issued a supplement to Variac Bulletin O which describes recent additions to its Variac series. The bulletin is obtainable upon request from the company.



**A traveling mat filter-changer** for conversion of black-and-white printers to color has been introduced by Houston Fearless, 11801 West Olympic Blvd., Los Angeles 64. Manufactured for use with Bell & Howell D and J printers, the unit consists of a high-intensity lamphouse, master pack, optical system, mat transport and rewind mechanism and edge printing light. An electrical control panel, complete with rectifiers and

transformers, is designed for ease and precision of operation.

**The Saint Cecilia Co.**, Westwood, N.J., manufacturer of Bel-Cleer tape for musical recording, has announced its expansion into the field of magnetic tape for instrumentation, telemetering and video tape recording. The company is a subsidiary of Durby Laboratories, Inc.

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