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THIS SMALL**



2 ¹¹/₁₆ inch
LONG

³/₄ inch
DIAMETER

WEIGHS
ONLY
1.3 ounce

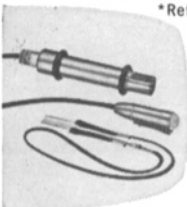


**NEW TV
649
LAVALIER
DYNAMIC**

So small—so light—you hardly know it's there! Designed for concealment and mobility, the E-V 649 Miniature Lavalier Dynamic Microphone has remarkably efficient pick-up. Response is smooth, peak-free, 70 to 13,000 cps. Output —62 db.* Can be hung on neck cord close to chest for free use of hands; or used on desk stand or in the hand to meet varying program requirements. Extra-rugged for constant everyday use.

Omnidirectional. Pop-proof wire-mesh grille minimizes wind and breath blasts. Indestructible Acoustalloy diaphragm. Impedance 50 ohms, easily changed to 150 or 250 ohms.

*Referred to .0002 dynes/cm²



High-tensile aluminum case finished in TV gray. Supplied with 30 ft. cable, neck cord assembly and belt clip.
Model 649. List, \$115

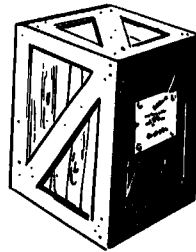
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new products

(and developments)

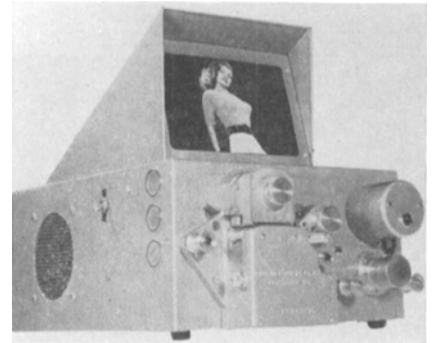
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Further information about these items can be obtained direct from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement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

A robot that can function as a motion-picture projectionist has been introduced by G.B.-Kalee Ltd., Mortimer House, 37-41 Mortimer St., London W.1. Called the Projectomatic System, "it" has reportedly been successfully used at a motion-picture performance in Great Britain. The machines switched on the lights, opened the curtains and regulated the sound. The human projectionist had nothing to do but mark the film, load it onto the projector and set the unit. The sequence in which the various operations are carried out is determined by the arrangement of pins set in a rotating drum or in the case of changeover operation by marks on the film. Once the drum has been set up and the film marked, the show will run continuously without further action by the operator other than to clean and lace the projectors, renew carbons and change discs.

The equipment consists of a main control cabinet and a number of relay units which are operated by signals received from the main control unit, and which in turn control the various switching functions on the projection equipment. In addition, special rollers are fitted on the projectors to detect the film marks and to operate an emergency stop circuit in the event of a film break or mechanical failure.

A new developing agent known as Pheni-done, is manufactured by Ilford Ltd., Ilford, Essex, Eng. It is used in place of metol as an activating agent for hydroquinone with the resulting developer reported as having a lower rate of exhaustion than that of comparable M.Q. developers and better keeping properties.

Bell Telephone Laboratories has announced that it has developed thermistor materials that have large positive temperature coefficients. One material has a positive temperature coefficient from about -50 C to 110 C, with the coefficient reaching a value as high as 9%/°C. Another material of slightly different composition was found to have a positive temperature coefficient from about 50 C to 225 C with a maximum coefficient of 14%/°C. These materials in general consist of barium titanate or barium-strontium titanates to which small amounts of lanthanum have been added.



A new Professional 16mm Viewer has been introduced by Camera Equipment Co., 315 W. 43 St., New York 36. The viewer has been designed especially for professional use by use of a large picture size. It operates left to right, and has been designed to give a well illuminated picture and not to scratch the film. A frame and footage counter and a sound reader are available as accessories.



The General Precision Laboratory ii-TV or institutional and industrial closed-circuit system, is now serving in the training of advanced students in the Nebraska Psychiatric Institute at Omaha. The Institute's use of closed-circuit television enables the student to observe actual psychiatric treatment of even the most difficult cases without disturbing doctor or patient and therefore is expected to speed up the training period now required to graduate qualified psychiatrists.

Three cameras are used, each mounted with its control cabinet and monitor in a small cart, providing three completely mobile pickup units. The equipment is compact, the camera measuring 9 × 5½ in. and weighing 5 lb. The cameras are set up to cover three treatment rooms. The sound is picked up by microphones permanently installed in the ceiling of each treatment room. At the control room, the three pictures are monitored and the treatment selected for transmission to the auditorium. The entire operation of the system is carried on by Institute staff members.

Anticipating a wider use of the system, GPL has arranged with the Altec Service Corp. of New York to provide a nationwide, franchised maintenance service for its industrial television equipment.

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"Auricon Pro-600"
with Single-Lens "C" Mount,
Tele-Finder Objective, plus
Standard Auricon Finder.



"Auricon Pro-600"
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"Auricon Pro-600"
features Push-Button "On-Off,"
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"Auricon Pro-600"
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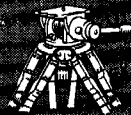
MANUFACTURERS OF SOUND-ON-FILM
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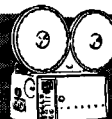
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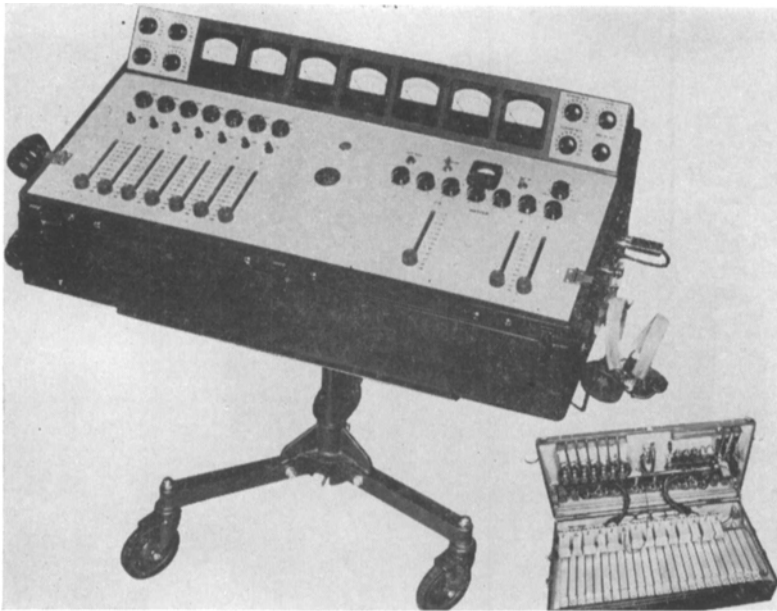
TRIPOD
\$325.00



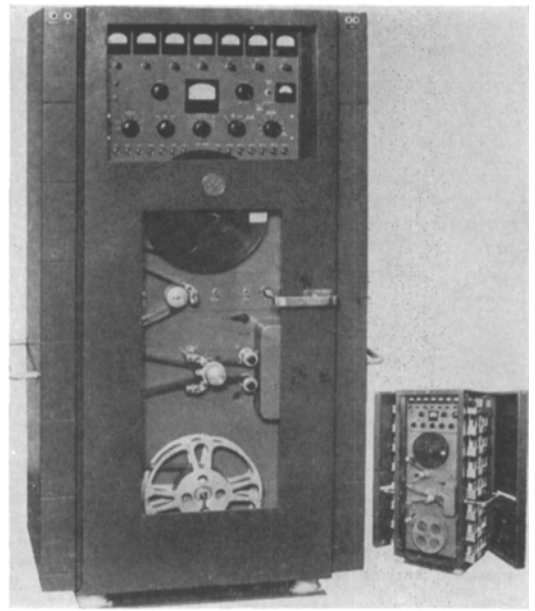
SUPER 1200
\$4652.15



SOUND RECORDER
\$3359.00

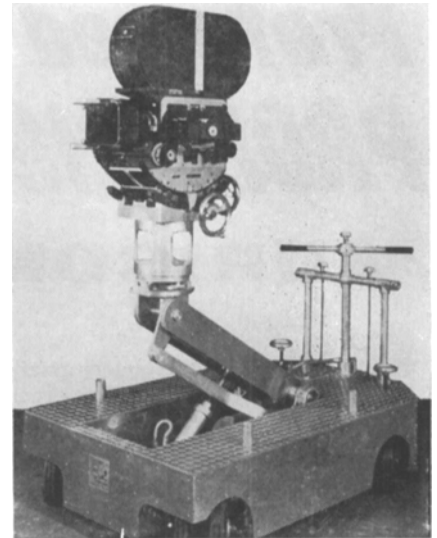


A completely transistorized multi-channel mixer for motion-picture sound recording has been introduced by RCA. It is a 7-channel portable unit (MI-10121) containing 23 amplifiers and one oscillator. In addition, the unit accommodates filters, slide wire attenuators, and filter controls. It is claimed to use 25-times less power than would be needed for similar tube-type equipment. The case measures $34 \times 17 \times 7\frac{1}{2}$ in.



Another recent RCA development is a 7-channel magnetic recorder (MI-29529), which operates at film speeds of 146.25 or 90 ft/min. It is especially designed for all motion-picture techniques using up to 7 separate tracks. The recorder is reported available for operation at any of the speeds employed by the industry. Seven magnetic playback amplifiers and main recording amplifier are mounted on specially designed shelves at the right of the recorder rack, as

shown in the inset at right in the illustration. Bias oscillator and amplifiers are similarly installed on the left of the rack.



The Crab-Hydroly is manufactured by National Cine Equipment, Inc., 209 W. 48 St., New York 36. Cast aluminum is used in the construction of the chassis and the camera boom arm. An adjustable vertical leveling arm holds the camera level in all positions. The dolly has dual wheels for both crab and conventional steering. A hi-hat is provided that gives added height to a maximum of 56 in. Without the hi-hat the maximum height to the top of the mounting head is 48 in., and the minimum height, 21 in. The dolly weighs approximately 750 lb.

A new Model 649 Miniature Lavalier Dynamic Microphone is announced by Electro-Voice, Inc., Buchanan, Mich. Designed for TV, the microphone measures $2\frac{1}{4} \times \frac{1}{4}$ in. It is omnidirectional and can be hung on a neck cord to free the hands of the announcer or performer. Alnico V and Armco magnetic iron are used in its construction in a nonwelded circuit. Frequency response is reported uniform from 70 to 13,000 cycles/sec.

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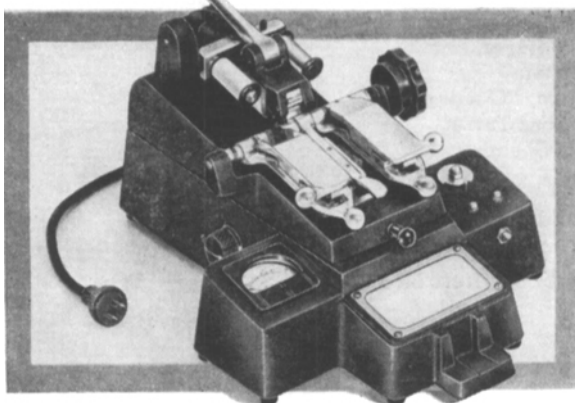
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Spliced in seconds!

A film-fusion (butt-weld) end-to-end.

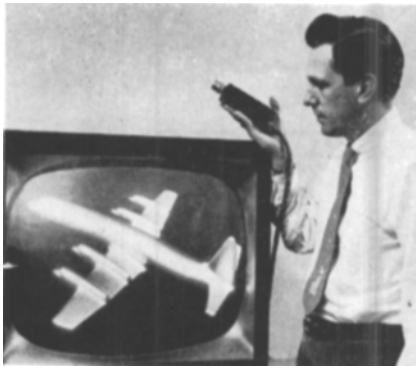
No drying; No overlap. No light required.



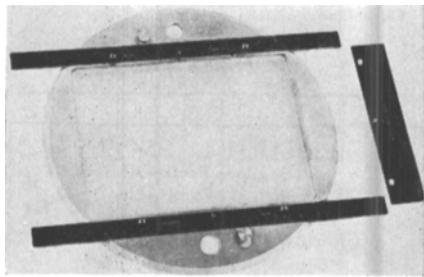
"Deluxe Miracle" Model

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A tiny TV camera that measure $1\frac{1}{2} \times 2 \times 5$ in. has been developed by Lockheed Aircraft Corp., Burbank, Calif. It weighs $1\frac{1}{2}$ lb with 8mm film attached. It was designed especially for use in testing new aircraft both in flight and on the ground and can operate in temperatures up to 180° . This miniature camera makes it possible for research and flight test engineers to observe tests that otherwise could not be watched safely. Development of the camera took two years of work by Lockheed's electronic scientists. The aim was to produce a miniature camera rugged enough to withstand extremes of heat and cold and other forces present in flight testing.



The Animation Equipment Corp., 38 Hudson St., New Rochelle, N. Y. has announced a new line of Oxberry registration devices, designed specifically for animated film production. There are 11 units in the group, including two 22 in. \times 17 in. planning cel tables, 3 drawing boards, 2 punches, and various peg bars and pegs. Type 92 drawing board is a $17\frac{1}{8}$ -in. diameter aluminum disc with a glass center. When mounted on a drawing table, a $16\frac{3}{8}$ -in. diameter hole is cut in the table to permit lighting from below. There are 2 moving peg bars with locks, one above and one below the field. Two sets of Oxberry standard pegs or pegs of customer selection are furnished. Moving peg bars permit this unit to be used as a limited planning board.

A new 11mm high-intensity positive projector carbon has been announced by National Carbon Co., 30 E. 42 St., New York 17. Designed to produce about 10% more light than other carbons operated at the same current, the 11mm \times 20 in. projector carbon is recommended for operation in the 110- to 120-amp range. The new carbon is claimed to have greater durability, lasting from 20 to 25% longer than other carbons operated at the same current.

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