

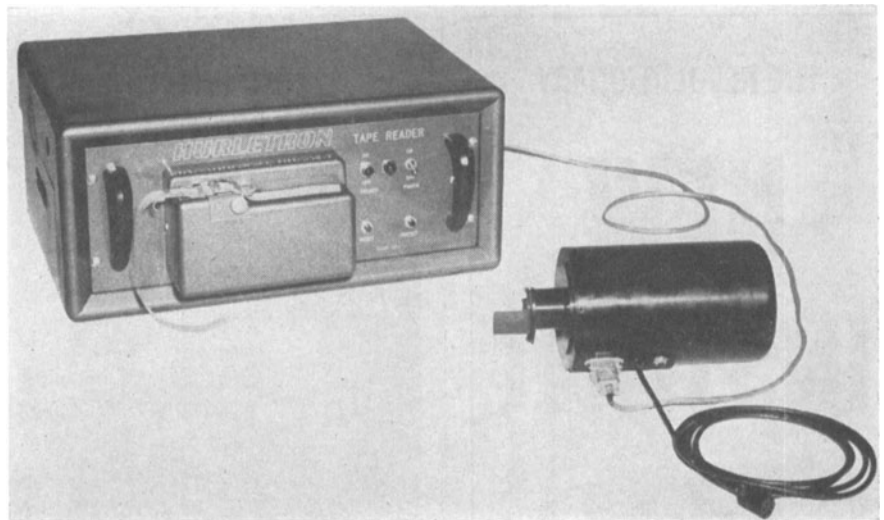
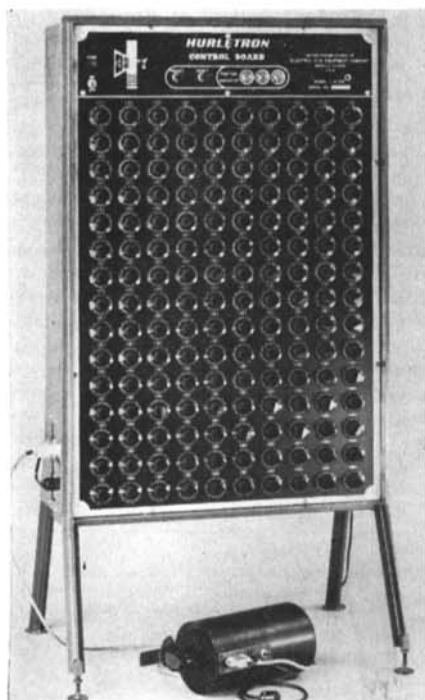
new products

(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.

The Hurlatron Automatic Shutter, a product of Electronic Systems, Inc., a subsidiary of Electric Eye Equipment Co., 1938 E. Fairchild St., Danville Ill., is applicable to two types of control systems. The punch-tape control system combines memory and reader in one compact unit, using one-inch paper tape standardizing with codes corresponding to the Bell & Howell punch tape used on the color additive printer. These tapes provide control for necessary printer-shutter functions such as automatic start, light intensity, dissolves, fade lengths and automatic stop. This reader can be adapted for use with any punch-tape system. The shutter mechanism is designed to fit both Model D and Model J printers.

The Hurlatron Control Board System, also illustrated, stores program intelligence set by the operator for as many scene changes as desired up to 150. The unit was primarily planned for use in the laboratory for printing from a loop tree. The system is designed to reset automatically



from any selector position allowing it to recycle, making an indefinite number of

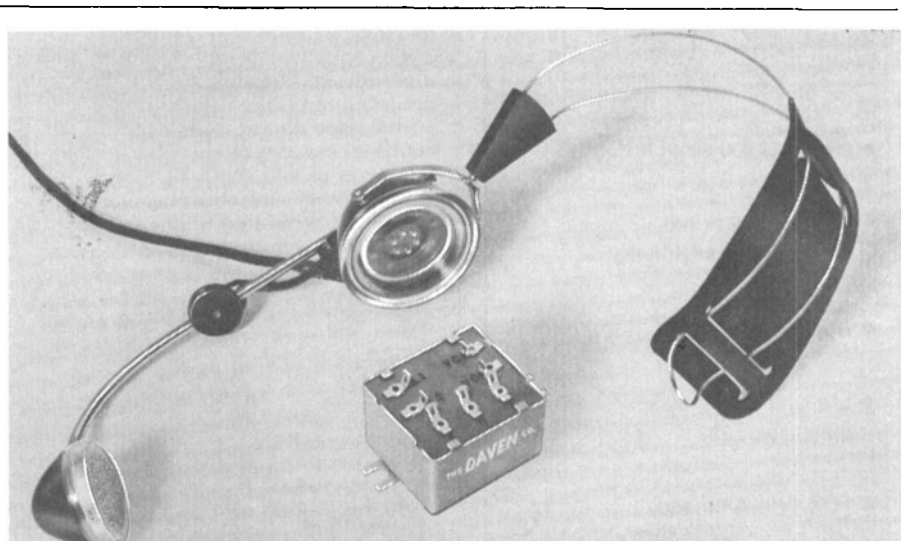
A new air-to-ground TV system will be used to provide television coverage of the U.S. Air Force 7th Annual World-Wide Weapons Meet (Project William Tell) at Tyndall Air Force Base, Fla., Oct. 14-23. The program coverage will be provided by Dage Television Div., Thompson Ramo Wooldridge Inc., Michigan City, Ind., in cooperation with the U.S. Air Force at Tyndall.

Book-size transistorized TV cameras used in military supersonic jets will be the airborne "eyes" of the spectators as they watch

prints. Both units operate from any presently accepted cuing system.

jet drone launchings, interceptor aircraft in flight, the interceptor attack and the firing of missiles from up to 150 miles away. Broadcast cameras, Dage Model 320-B, will be the "eyes" of the spectators on the ground.

TV cameras, both airborne and on the ground, will be fed to a giant TV control center located in a mobile trailer adjacent to Base Operations on the flight line. From this trailer, cameras will be switched and a picture signal fed to a broadcast transmitter.



New transistorized headset amplifier for TV studio communication

Daven announces a new Transistorized Interphone Amplifier, Type 90, which provides a marked improvement in studio communications. As a companion unit to the Western Electric Type 52 headset, advantages of this transistorized amplifier over the normal induction coil are:

1. A gain of 20 db.
2. Mounts directly in place of the induction coil.
3. Sidetone automatically adjusts when additional stations join the circuit. Receiver level min-

imizes local acoustical interference.

4. No significant increase in power consumption.
5. Permits up to 32 stations.
6. Manual control with external variable resistor, if desired.
7. Operates from 24 volt "Talk Bus" independent of polarity.

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Improved quality of British suppressed-frame kinescope recording is announced by Rank Precision Industries, Ltd., through the use of a phosphor with a long afterglow, thereby causing the image of one field, scanned during the film pulldown period, to remain on the screen during the subsequent field when the shutter is open. The fully interlaced frame is therefore recorded during the interval that the shutter is open and the film is stationary in the gate.

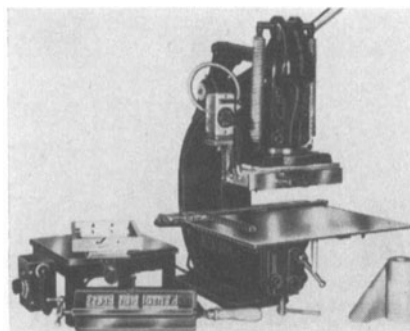
The particular phosphor chosen, having a persistence extending to 20 milliseconds, produces an orange colored image instead of the blue image customary in telerecording. However, this may be overcome by the use of panchromatic film stock.

The problem of obtaining uniform exposure is complicated by the fact that one

field has been newly scanned while the previous field, which was scanned during the pulldown of the film, is already decaying. Both these effects are compensated by suitably modulating the signal fed to the recording cathode-ray tube.

The modulating waveform required for the process of equalizing exposure is derived from an accurately cut mask rotated by the camera driving shaft. By means of a photocell and a suitable lamp the profile of this mask is used to derive the required electrical waveform.

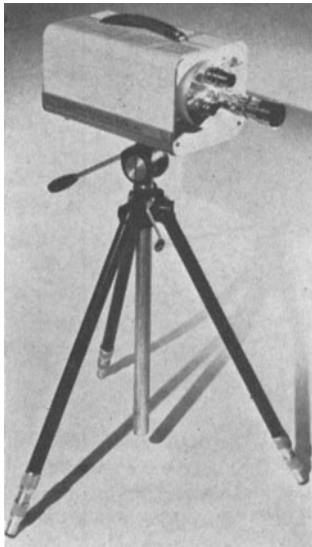
By means of this "stored field" system, conventional cameras such as the Newall camera pictured here, may be used for 35mm photographic recording of the 25-frame/sec British TV picture images.



The **Kensol Hot Press** for producing opaque titles on posterboard, paper, cellulose acetate, photographs, cloth, etc., has been announced by Camera Equipment Co., 315 W. 43 St., New York 36. The stamping head of the press is designed to swivel up to a 90° angle to permit "crawl" work and to get special angular effects. The preheating hot plate is thermostatically controlled for consistent stampings. The stamping foil is available in 17 different colors in 200-ft rolls. A type kit with popular sizes and faces for TV and Film titling is also available. There are several models, beginning at \$450.

An electronic method of minimizing the "howling" and "singing" in public-address systems caused by acoustic feedback of room reverberations has been developed at Bell Telephone Laboratories. The development is based on a constant-frequency shift device, called a frequency shift modulator. It is inserted into the circuit between microphone and loudspeaker. When the input signal's frequency shift is made equal to the mean distance between the major peaks and adjacent valleys of the room's gain response characteristic, energy generated at the gain peaks is quickly absorbed in the valleys of the response characteristic after one trip of the sound energy around the acoustic feedback loop. Use of this method is said to permit a two-fold increase in the loudness of a conventional public-address system without incurring instability.

Membership Certificates (Active and Associate members only). Attractive hand engrossed certificates, suitable for framing for display in offices or homes, may be obtained by writing to Society headquarters, at 55 West 42nd St., New York 36, Price: \$2.50.



A 15-lb vidicon-type camera for closed-circuit television has been announced by Sylvania Electric Products Inc., 730 Third Ave., New York 17. Designed for ease of operation and economy, the camera has been announced as requiring no special lighting and able to transmit an image on any selected channel from 2 through 6 to any standard home-type receiver. It is equipped with a turret mount to accommodate three different lenses but is available with one, two or three lenses as required. It is designed to sell at a price of approximately \$545.

A variable programming circuit designed to control and change the sequence of functions in automatic equipment where several functions must be performed in sequence has been announced by G. H. Leland, Inc., 123 Webster St., Dayton 2, Ohio. The circuit employs a Ledex Rotary Selector that uses an inverse-homing, tab-type control-wafer switch. The control wafer, in conjunction with a hold-in resistor, will cause the selector, when impulsive, to skip over unwanted positions. Variations in the positioning of the selector are accomplished by placing a toggle switch between the hold-in resistor and each homing contact. An open toggle switch permits the selector to step past that position automatically when the impulse switch is closed.

ColorTran products, manufactured by Natural Lighting Corp., 630 S. Flower St., Burbank, Calif., is distributed in Europe by Mole-Richardson of England. The recently signed agreement calls for immediate establishment for rental centers in England, France, Italy, Germany and Austria, with production of the equipment in Europe to begin within the next 12 months.

Houston Motion Picture Service of San Diego, Calif., has been acquired by Houston Fearless Corp. and will be operated as a division of the parent company. Houston Fearless has recently reorganized under a new management group and is currently expanding its component work in industrial and military electronics.

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Professor Rudolph Rancid

(Somewhere in Lower California)



- Q. — "What's that you have in your hand, Doctor?"
 A. — "This here? Why it's a CINEMA Custom Modular Switch. And I'm not a doctor."
 Q. — "Oh. Are you an electronic physicist?"
 A. — "No. I'm an avocado farmer."
 Q. — "My, that certainly is a strange combination."
 A. — "Sure is, and I'm going right down to patent my new tree that grows these things."
 Q. — "Do you think every tree should bear CINEMA Custom Modular Switches?"
 A. — "They better not or I'll have to go back to farming those darn avocados."



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but unlike an avocado it doesn't grow on a tree. Years of exhaustive experimentation and development have gone into CINEMA switches, whose reliability has been measured, weighed and forecast. Ruggedly constructed and precisely designed, they are available in a wide range of sizes made to individual pole and position requirements at low cost. Contact our local representative, or write for our catalog 17S.

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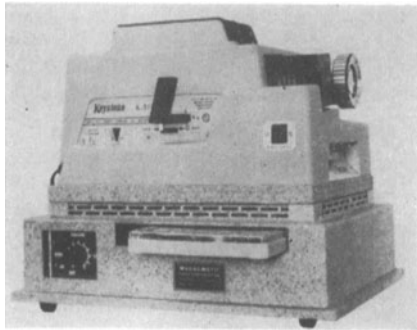
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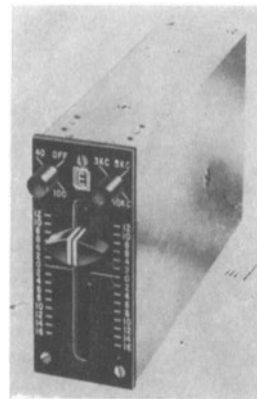
A closed-circuit television system designed for rugged, continuous duty operation has been announced by Kintel, division of Cohu Electronics, Inc., 5725 Kearny Villa Rd., San Diego 11, Calif. The system features automatic operation and is reported to be self-adjusting for light level variations up to 2000:1 and to provide automatic adjustment to $\pm 1\%$ linearity. The cameras are designed to operate in temperatures up to 150 F without protection and a specially designed camera, the 1986CN, operates in noise levels up to 145 db. The equipment can be supplied on a lease-purchase plan.



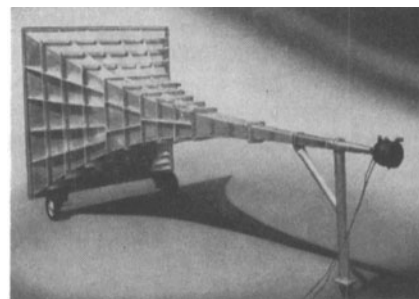
An automatic sound-synchronized slide projector has been announced by Amplifier Corp. of America, 398 Broadway, New York 13. The new unit features a one-piece integrated construction of an automatic

tape-cartridge record-play mechanism and a 500-w projector. Models are available with monophonic or stereophonic record-play facilities utilizing two, three, or four tracks on $\frac{1}{4}$ -in. magnetic tape. Depending upon tape speed, record-play time of the various models ranges from 30-min to 8 hr. A separate built-in recorder (on record-play projectors) permits programs to be produced with the projector and subsequently played back on the same or other playback projectors. Each slide change automatically puts a 20-cycle control tone on the same, or on an adjacent track. During playback, the control tone automatically changes the slide in synchronism with the original timing. The firm is working with Keystone Camera Co. on this new line of slide projectors. A number of models will be available with prices beginning at \$359.00.

An optical material called Irtran, developed by Eastman Kodak Co., is transparent to infrared radiation and is expected to have important applications in the construction of missile systems. The substance, which looks in ordinary light like translucent glass, retains its transparency to infrared radiation and temperatures beyond 1200 F, according to the results of tests conducted by Kodak scientists. The material can be ground and finished with methods normally used for glass. The substance is said to transmit 90% radiant energy at certain wavelengths and to have improved transparency as far as 8 microns into the infrared portion of the spectrum.



The 251-A Equalizer, a miniature instrument for corrective equalization in recording and reproduction of sound, is a product of Electrodyne Corp., 503 South McClay St., Santa Ana, Calif. Dimensions are $3\frac{1}{2}$ by $1\frac{1}{2}$ by $5\frac{1}{2}$ in. It weighs $1\frac{1}{2}$ lb. The instrument is a passive, L-C-R, bridged-T network with two sliding levers for attenuation and equalization; one for low frequencies and one for high, adjustable in 2-db steps at specified frequencies with a maximum equalization of 12 db and a maximum attenuation of 16 db. It is priced at \$260.



An air-modulated loudspeaker capable of producing 2000 acoustic watts of power has been manufactured by Altec Lansing Corp., Anaheim, Calif., a subsidiary of Ling Electronics, Inc., for Boeing Aircraft Corp. It will be used for the testing of panels and electronic components used in missiles and aircraft. The high-intensity sound generated by the loudspeaker will duplicate that which may be encountered during flight. The horn section of the unit is 15 ft long with a 36 sq ft opening at the mouth. It generates energy by electrically modulating a powerful airflow (25 lb per sq in. at 150 ft/min). A 50-w amplifier triggers the air supply from the air compressor.

A stage lighting technique introduced by TelePromTer Corp. utilizes two portable vertical screens, 15 by 20 ft, and two Telepro 6000 rear-screen projectors with specially adapted beam rotators. The technique was first used during a cross-country tour of Harry Belafonte. Specially designed background settings were automatically flashed on the screen to eliminate the need for stage curtains and to reduce the number of technicians usually required for operating background lighting and stage effects.

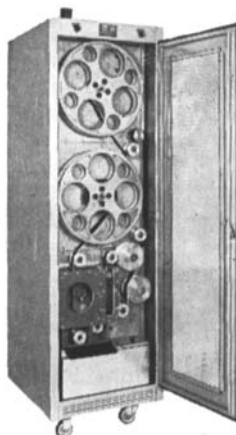
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