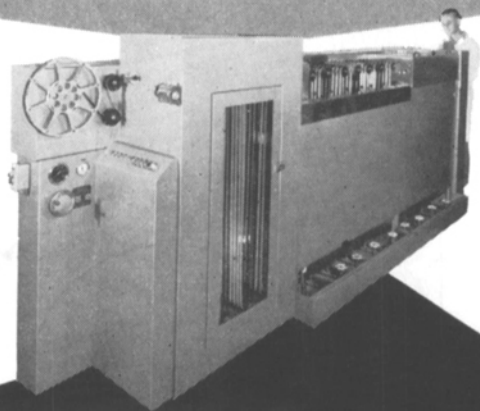


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- DURABLY ANTI-STATIC
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- NO OPTICAL EFFECT
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- PROTECTS  
ALL TYPES OF FILM
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- PROTECTS  
EMULSION AND BASE

### Inevitably . . . a Best!

In all of the techniques, processes and products used by industry there emerges a *best*.

Among the materials and methods for protecting and cleaning photographic film, TUFF COAT is *best* in these important characteristics: 1—Maximum scratch and abrasion protection to both emulsion and base; 2—Greatest reduction of gate friction; 3—*Best* for soil removal; 4—More durably anti-static; 5—Faster, easier to use; 6—Most permanent film lubrication; 7—Safe for originals, negatives, inter-negatives, etc.; 8—Less expensive.

TUFF COAT was developed with the close cooperation of leading Hollywood laboratories and studios and is presently used by over 90% of them.

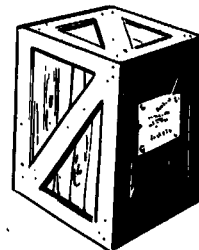
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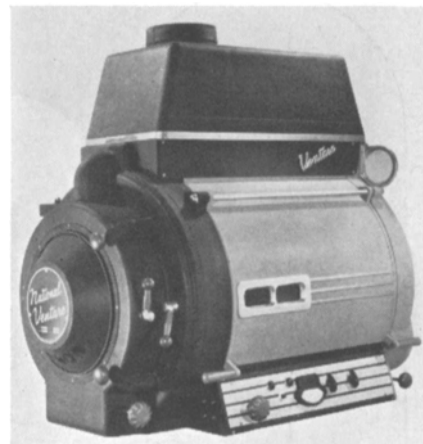
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## new products

(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.



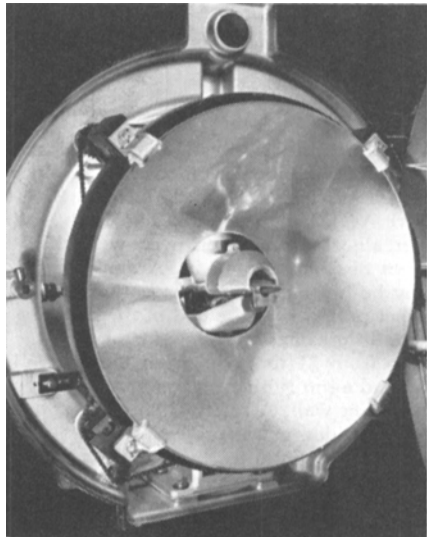
The Strong Jetarc Projection Lamp recently announced by Strong Electric Corp., 31 City Park Ave., Toledo 1, Ohio, is a reflector type projection lamp employing the "blown arc" invented by Dr. Edgar Gretener, Zurich, Switzerland (*Journal*, Oct. 1950, pp. 391-413). The "blown arc" was so named because the form of the arc is changed by air pressure from jets arranged in concentric circles around the positive carbon so that they stroke the burning end of the electrode. The air pressure is supplied by a blower which is an integral part of the lamp.

In the process of reshaping, the arc stream is constricted and thus greatly increases the brilliance of the light source. Because of the cylindrical shape of the arc, the light pickup angle can be increased to more than 260°. In the new lamps, an auxiliary 6-in. spherical mirror is positioned behind the positive carbon to supplement the usual 160° pickup angle. When projecting small aperture 35mm pictures, the lamp is reported to deliver 46,000 lm; for CinemaScope 35mm, 55,000 lm; for MGM 65mm and Todd-AO 70mm, 56,000 lm; and for Fox CinemaScope 55mm, 65,000 lm. Distribution of light over the entire screen area can be operated from a minimum of 80% up to 100%.

A 10mm by 27-in. nonrotating Ultrex positive, which passes through the center opening in the auxiliary mirror, is burned with a rotating  $\frac{1}{8}$  by 12-in. solid graphite-negative carbon at 140 to 160 amp and 70 to 78 v. Also, 10mm by 25-in. Hitex positives may be burned at 125 to 140 amp

or 10mm regular positives at 110 to 125 amp.

The lamp employs a 21-in. glass cold mirror with a 6½-in. focal length and 42-in. working distance. It has been made an integral part of the rear door and need not be exchanged for the projection of film of any width. The position of the burner is not changed since all focusing is done by shifting the main reflector. The lamp, which is 45 in. long by 29 in. wide by 43 in. high, is reported to be cool in operation, with heat at the aperture no greater than when burning an 8mm copper-coated trim at 70 amp without a heat filter. Water cooling is used for the auxiliary reflector and the positive and negative carbon heads. The cooling agents must be operating before the lamp can be energized.



A 220-v, 3-phase selenium rectifier, designed as companion equipment for this blown arc lamp, can be located at any desired distance from the lamp and the power adjusted remotely by means of a control on the lamp instrument panel.

A paper describing the construction and design of lamps employing the blown-arc principle is scheduled for presentation at the 83d Convention by Russell Ayling and Arthur J. Hatch of the Strong Electric Corp. A demonstration truck will be in Los Angeles during the Convention and a special exhibit is planned for Thursday, April 24, following the evening Session. The demonstration will take place at a large drive-in theater in the Los Angeles area.

**A magnetic film recorder/reproducer** designed especially for master recording and re-recording, in the field or studio, has been announced by Stancil-Hoffman Corp., 921 N. Highland Ave., Hollywood 38. The recorder, Model S7, features a large single film sprocket coupled to the drive system through a magnetic clutch. This permits a free-wheeling sprocket for high-speed forward and high-speed rewind while threaded, while providing a positive lock when the clutch is engaged. A selector switch is provided for "A" and "B" film wind. High-speed automatic rewind is available, arranged so that dynamic braking is applied to the reels upon completion of the rewind cycle to prevent film spillage.

Switches located in the tight loop section automatically disconnect the magnetic

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eye  
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was born  
at

*Elgeet* OF ROCHESTER

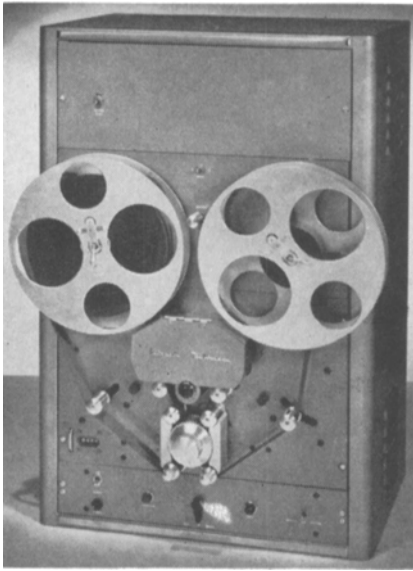
U. S. Navy CZR-1  
Bowen-Knap Camera

American missiles streaking through the ionosphere are followed in flight by the precision optics of an amazing ELGEET 10-inch f3.5 lens. Other ELGEET lenses... aimed at the face of space... pegging details of Earth's topography... or forming the video image for TV cameras are an important element in American industrial might. Let ELGEET lenses be part of your industrial or scientific achievements. ELGEET engineers gladly consult on optical problems with you. For further information, write to:

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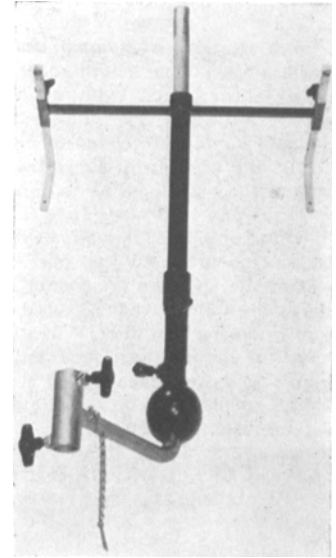
EL11



clutch and torque motors when the reel ends or if the film should break. The same switches operate a "ready" light which indicates on the unit and at a remote location that the film is properly threaded. A knob adjustment is available on the front panel to center the stabilizer arms for the most effective filtering. The switching is handled by a single bar knob control. One position is designated as "Thread" which applies a dynamic braking to both torque motors. In the "Cue" position, both torque motors are energized and the film sprocket is "free-wheeling." The film sprocket may then be rotated by hand or torque-motor

driven for fast forward and rewind "start-mark" location. In the "Ready" position the required take-up and supply voltages are applied to the torque motors and the magnetic clutch is locked. All operations may be remotely controlled from a console position. The master recorder and dummies may be driven by their synchronous motors and/or interlock motors. The synchronous motors have reserve power to drive 16mm projectors through interlock, eliminating the need for a motor distributor system. For large 35mm installations, motor distributors are available as accessory equipment to handle ten or more slave units and projectors. Electronic sections available for single- and multitrack applications may be of vacuum tube or transistor design. The unit is priced at \$2350.00.

**An automatic graphic high-speed power level recorder, designated Model SL-2,** is a product of Sound Apparatus Co., Stirling, N.J. The instrument performs basically the function of a vacuum tube voltmeter and in addition produces a permanent record of the measurement under investigation. It is designed particularly for acoustical and electroacoustical measurements with special reference to reverberation, sound intensity, vibration, sound decay measurements, frequency-response measurements of microphones, loudspeakers, filters and other impulses or phenomena that can be converted into an electrical signal. The recorder features electronically controlled writing speed, push-button operated chart movement and provision for mechanical and electronic connection to associated apparatus.



**An adjustable set wall arm called the Type 1731 Junior Trombone** is a product of Mole-Richardson Co., 937 North Sycamore Ave., Hollywood 38. The 11-lb wall arm allows for hanging over wall thicknesses of from 2 to 12 in. A Junior lamp may be hung either top or bottom in the socket provided at the end of the swinging arm. Two extensions allow for placing the lamp from 21 to 61 in. from the set wall top and a soft rubber ball prevents damage to the set wall. A safety chain with cotter pin provides extra protection when the lamp is hung from the bottom of the swinging arm.

**A high-speed electrical eraser** announced by Radio Corp. of America is designed to remove magnetically recorded sound or pictures from a complete reel of tape or film within 30 sec. The unit consists of an automatic turntable on a sliding carriage which transports the tape or film into a large air-core erasing coil mounted on one end of the instrument. The erasing is produced by automatic rotation of the tape or film reel inside a strong alternating magnetic field generated by a 60-cycle current passing through the coil. The effect is to neutralize or "wipe off" all magnetic traces from the tape which can then be used for recording fresh material. Dimensions of the eraser are: 48 in. long, 22½ in. wide and 15 in. high.

Available in two models, video (MI-10891-H) and audio (MI-10891-F), the machine is designed to provide 30-sec erasing of 4800 ft of video magnetic tape up to 2 in. wide; 2400 ft of 6mm film; 2000 ft of 35mm film wound on a film core, or any narrow-width film or tape in rolls up to a maximum of 15 in. in diameter. Each model is priced at \$1375.00. Further information is available at the Film Departments of RCA at 411 Fifth Ave., New York 16; and 1016 N. Sycamore, Hollywood 38.

**Prestoseal splicers** are now handled exclusively for export by Reeves Equipment Corp., 10 E. 52 St., New York 22. The manufacturer is Prestoseal Mfg. Corp., 3727 33 St., Long Island City 1, N.Y. The company designs and manufactures splicing equipment for motion-picture film, magnetic tape and microfilm.

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# AUTOMATIC TRI-FILM PROCESSOR

UP TO SIX FEET A MINUTE WITHOUT LOSS OF QUALITY!



**T**HE transportable Mark 3 Automatic Tri-Film Processor develops and dries 16, 35 or 70 mm. film at 1½, 3 or 6 feet a minute! Four 400-ft. 16 mm. films can be handled simultaneously—or two 400-ft. 35 mm films—or one 400-ft. 70 mm length. The various film sizes are accommodated by simple adjustments of film separators. Separate temperature control of the processing solution is possible on each tank from 60 to 110 degrees F., within ± 1 degree. The latest high temperature chemical resistant plastics and Type 316 stainless steel are used in all chemical areas. Processing is controlled by a mechanical program unit after the film is loaded into the machine—no special “leader” or continuous tapes, chains or sprockets are used.

The need for stop baths and interbath rinses, normally required in many processes, is virtually eliminated because of a positive squeegee roller design.

A high-efficiency blower system and electrical heating ensure rapid drying in the machine. The Processor is perfect for newsreels, TV news on film, motion picture “rushes” in the field,—in all cases where speed plus quality are essential.

Write for literature and quotations.

## SPECIFICATIONS

### AUTOMATIC TRI-FILM PROCESSOR TYPE T246 Mk3

Size: 54" long, 22" wide, 51" high  
 Weight: 400 lbs.  
 Power Consumption: 5 KVA maximum single-phase: 110 volts, 45 amps, or according to customer requirements  
 Process Capacity: 1 to 4 rolls 16 mm length  
 1 or 2 rolls 35 mm to  
 1 roll 70 mm 400 ft.  
 Rate of Processing: 1½, 3 or 6 ft. per min.  
 Temperature-controlled solutions and dryer. Daylight operation except loading of film into magazine. Processes perforated or plain film.

## Canadian Applied Research Limited

(formerly PSC Applied Research Limited)

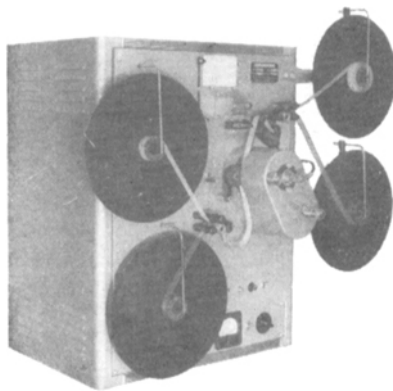
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MEMBER: A. V. ROE CANADA LIMITED & HAWKER SIDDELEY GROUP



# 16mm Continuous Motion Picture Printer

MODEL 1557A



This printer makes contact prints from 16mm negatives onto 16mm positive, or from 16mm reversal onto 16mm reversal printing films. It is sprocket driven and will operate at a rate of 40 feet per minute.

**Among its many features,** it has a semi-automatic mechanical light change mechanism, a light card indicator, a 40-tooth printing sprocket, a constant speed gear reduction motor, and an electrically operated footage counter. A high current low voltage lamp is used as the light source.

**The frame** of the printer is housed in a steel cabinet. This cabinet features doors both in the top and in back to give full access to the rear of the printer for ease of maintenance.

**Any one of four apertures** can be selected: sound, negative to positive picture area only, reversal to reversal picture area only, or full aperture.

**Weighted rollers** precede the printing sprocket on both negative and positive films. This and a pressure roller over the printing aperture ensure excellent contact between the films during printing.

**Prices:**

Model 1557A (shown above)  
with lamp control . . . \$1,728.00

Model 1557  
without lamp control . . . \$1,630.00

F.O.B. Culver City, Calif., and  
subject to change without notice

For full information, write

**Frank Hennfeld Engineering Corp.**  
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Three new sound-synchronizing kits for adapting the Kodak Pageant Magnetic-Optical Sound Projector for lip-synchronized sound recording have been announced by Cine-Kodak Equipment Sales, Eastman Kodak Co., Rochester 4, N.Y. The kits include the Synchronous Motor Kit; 2-Projector Synchronizing Kit and Synchronizing Brake Kit. The Brake Kit provides for on-set recording of sound effects and dialogue in synchronization with the taking camera. It consists of a nylon spool and a braking strap which permits the projector to be set at a recording speed of precisely 24-frames/sec, or sound speed. A rotating stroboscopic pattern on the spool is adjusted by means of the friction braking device until the pattern appears to stand still when viewed under neon or fluorescent light. The projector is then in-sync with the taking pattern. The Synchronous Motor Kit is an automatic version of the manual braking kit and the 2-Projector Kit is designed especially for firms that edit their own films. The Synchronizing Brake Kit is priced at \$14.50, the 2-Projector Synchronizing Kit at \$42.25 and the Synchronous Motor Kit at \$86.75. The development and design of these equipments were described in detail in a paper by Lee T. Askren and Raymond J. Dwyer, "Recording Lip-Synchronized Sound Using a 16mm Magnetic-Optical Sound Projector," in the *Journal* for January 1958.

**A newly-developed 114-ft traveling-wave TV transmitting antenna** has been announced by Radio Corp. of America. The antenna, which weighs more than 23,000 lb, has been engineered to eliminate all external antenna elements. It features streamlined, slotted-cylinder construction, built-in radiating elements and simplified feed system. The antenna requires no external feed lines and is available with gains from 8 to 18. The first of the commercially available antennae was purchased by Station KGHL-TV, Billings, Mont. The antenna will be mounted on a 417-ft RCA/Ideco tower to provide more than 4,200-ft elevation above sea level.

**The Lumitron Infinite Preset System** is a lighting control system announced by the Lumitron Div., Metropolitan Electric Mfg. Co., 2250 Steinway St., Long Island City 5, N.Y. It consists of electronic digital readers used in conjunction with printed, pre-marked cue cards of the computer-card type. The cue sheet is marked in pen or pencil, depending upon the degree of permanency desired. If desired, circuits may be set up manually so that the cards may be automatically marked by an auxiliary printing device. The notation system consists of digits 1 through 9 and secondary digital adders "1/3" and "2/3." A minimum of two card readers are supplied with each system. Depending on the position of the manual fader, the readers are alternately in "active" or "preview" condition. Custom designed and manufactured to individual specifications, the system is self-contained in a control console. It may be used with any suitable type of power amplifier bank for the control of light intensity, or with any suitable servo-mechanism for the control of light and color, focus and position.

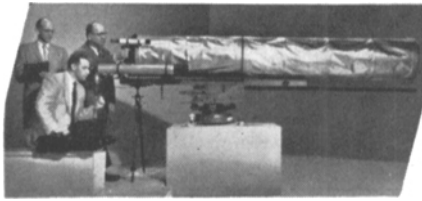


**An Outside Broadcast Television Camera Dolly** designed for out-of-studio mobile camera mounting has been introduced by W. Vinten Ltd., London, England. Constructed of steel and aluminum alloy tubes, the dolly has been designed to combine light weight with sturdy construction. A fully compensated steering mechanism allows it to be turned in its own length. The operator's seat assembly can be adjusted for height from 37 in. to 57 in. from the ground. Further information is available from Cinematograph Export Ltd., 715 North Circular Rd., London, N.W.2.

**The Cinekad Fishpole Microphone Boom** has been announced by Cinekad Engineering Co., 763 Tenth Ave., New York 19. It extends from 6½ to 12 ft, permitting effective microphone placement in situations where a perambulator or stand-mounted boom is unsuitable because of inaccessibility or awkwardness. A monopod feature reduces operator fatigue. A microphone cable is installed inside the boom to eliminate cable noises.

**The D. B. Milliken Co.**, 131 North Fifth St., Arcadia, Calif., has announced two high-speed, intermittent-movement 16mm cameras with pilot-pin registration, suitable for rocket sled and airborne applications. The intermittent movement is designed so that the film is stopped completely during each exposure and locked in place by a register pin. Tested to 100 G's, both models are powered by a 28-v d-c or 115-v a-c motor and operate at two standard speeds, 200 and 400 fps, and are also available for 4, 8, 16, 32, 64, and 128 fps. Dimensions (less lens) of the smaller model, DBM III, are: 6½ in. long, 4 in. wide, 5½ in. high, weighing 6 lb. This model has a 100-ft film capacity. The DBM IV is 7¾ in. long, 4 in. wide, 5¾ in. high and weighs 7¾ lb. It has a film capacity of 200 ft.

**A new type of thin-gauge Mylar polyester film**, called 50 Mylar T, has been announced by E. I. du Pont de Nemours & Co., Wilmington, Del. Reported to have almost double the tensile strength of standard Mylar, the new tapes provide 2400 ft of tape on a 7-in. reel. The new tape has the same qualities of resistance to moisture and temperature extremes possessed by the standard tape and is unaffected by lengthy storage. At present the film is available in limited quantities. It is priced at \$4.50 per pound.



**Research in the field of aerial haze penetration** has been advanced by the use of a 9-foot-long telecamera designed by Eastman Kodak Co. This research is particularly important to the development of aerial reconnaissance film and cameras. The camera has a 95-in. focal length. The long focal length is possible because of the use of reflector combinations that cause the light from the subject to travel the length of the camera three times. Pictures taken through the camera at a distance of approximately two miles from the subject reveal important data, such as the differences from normal contrast between a black and a white target due to atmospheric haze. Information about aerial haze penetration by visible and infrared radiation has also been obtained through use of the camera.

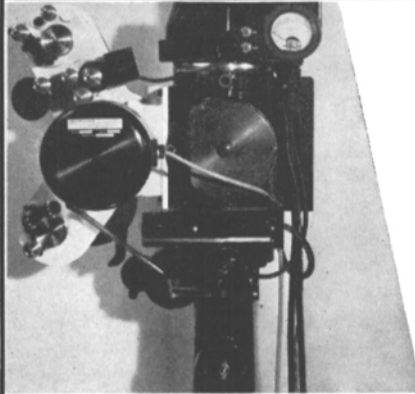
**"Satellite" tape**, a magnetic tape manufactured by the Minnesota Mining and Manufacturing Co., 900 Bush St., St. Paul 6, Minn. was developed especially to record data from the IGY earth satellite launched by the Naval Research Laboratory's Vanguard rocket. This tape has also been used to record signals from U.S. Army satellites and Russian Sputniks as part of the International Geophysical Year program. 3M has reported that its Satellite tape production is based on research and development done earlier for video tape which is more difficult to manufacture.

Various sensing devices aboard the satellites measure temperature, surface erosion and other phenomena. The information is recorded on tape which is sent to a computer center in Washington, D.C., for data processing and analysis.

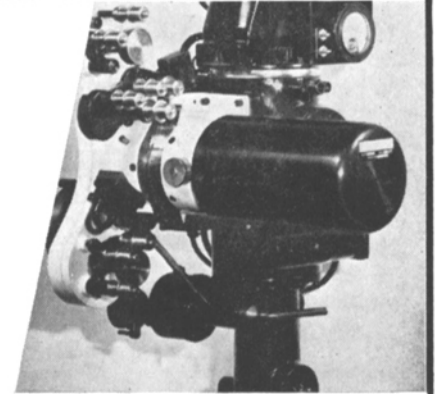
Each of the tapes supplied for the satellites is  $\frac{1}{2}$  in. wide and 2500 ft long. It is used to record seven data channels at tape speeds of 30 in./sec on instrumentation-type magnetic tape recorders. The tape has a maroon, high-potency magnetic oxide coated on a 1.5-mil polyester film base to a thickness of 0.35 mil. More than 100 quality control checks are said to go into the production of this tape. When the first Vanguard instrumented satellite was launched, three of the seven channels recorded on tape were expected to be used for recording the telemetered data. Three others were to be used for recording timing information, while the seventh channel was to be held in reserve.

Two of the three data channels record conventionally and linearly detected signals by direct recording methods and the third channel on the tape uses pulse-width recording. Of the three timing channels, one records a precision standard frequency for use in accurate pulse width measurements. The second records in code the time of day at which the recording was made and the third records synchronizing signals for correct synchronization of the tape playback speed.

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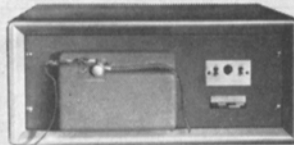
BELL & HOWELL MODEL D



BELL & HOWELL MODEL J

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PUNCH-TAPE CONTROL SYSTEM OR PROGRAMMING BOARD CONTROL SYSTEM

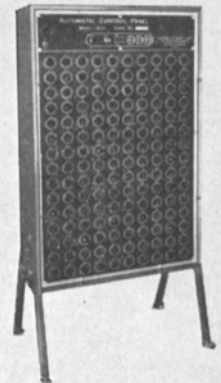


TAPE READER CONTROL\*  
MODEL TC210



DIAL-MATIC PERFORATOR\*  
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AUTOMATIC CONTROL BOARD\*  
MODEL LB10A



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SHUTTER ACTUATES FROM ANY  
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BLADE RESPONSE TIME: 3m/secs.

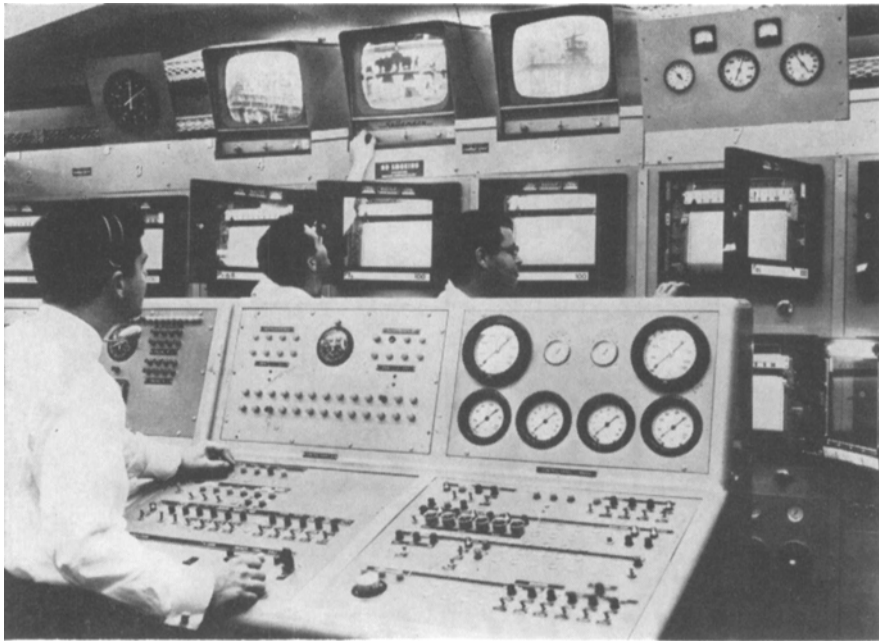
\*Patents pending

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One of the largest closed-circuit TV systems in the United States is installed at Aerojet-General Corp.'s rocket engine test facility at Sacramento, Calif. The system was manufactured by Hallamore Electronics Co., Anaheim, Calif., a division of Siegler Corp. The \$300,000 system is made up of 36 complete camera-receiver chains

built to monitor hazardous static rocket firings in the liquid and the solid propellant rocket plants. Features include all-electric camera controls at the viewing site and a two-way, built-in sound system. Technicians in blockhouses situated at safe distances view the static firings on 17-in. screens mounted beside data-recording instruments.

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Each additional line \$1.00

per inch \$13.00

**FOR SALE:** 16mm animation and titling Saltzman stand with reconditioned Kodak Cine Special and heavy-duty stop-motion motor. \$2500. Roger Wade Productions. 15 West 46 St., New York 36. Tel: Circle 5-3040.

A spray called Krylon Crystal-Clear Acrylic Spray acts as a deterrent to corrosion and pitting of the metal parts of film processors. A product of Krylon Inc., 18 West Airy St., Norristown, Pa., the newly developed spray coats the metal areas with a protective shield that resists the corroding action of photographic chemicals.

The RCA Test and Measuring Equipment Catalog, 2nd ed., contains up-to-date information on the company's line of audio, video, transmitter and general purpose test equipment. The 76-page catalog also includes a discussion of recommended test procedures. It is illustrated and contains diagrams and specifications of the equipment. Published by the Broadcast and Television Equipment Dept. of RCA, Camden, N.J., it is priced at \$1.00.

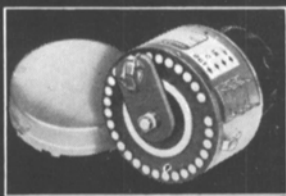
A 16-panel folder called *Which Tape Type Are You?* is available without charge from Minnesota Mining and Mfg. Co. Dept. A8-89, St. Paul, Minn. The folder describes each of eight types of Scotch magnetic tapes with information on playing time, special features, backing thickness and applications. A playing time chart and suggestions on dry lubrication are included.

Howard S. Meighan has announced his resignation as Vice-President of Columbia Broadcasting System to accept the post of Special Consultant to Ampex Corp. He also announced formation of two companies to produce video tape commercials. He is associated in this venture with Ampex Corp. The two companies are Video Tape Productions of New York, Inc., New York; and Video Tape Productions of California Inc., Hollywood. A third company, to be known as Video Tape Productions Midwest Inc., is being planned.

Products described in data sheets issued by Traid Corp., 17136 Ventura Blvd., Encino, Calif., include the No. 652 Correlation Counter which correlates film records from many separate cameras; the No. 450 Fotoscope for photographing cathode-ray tube and auxiliary data; and photo-periscopes developed by Zoomar Inc. The data sheets are published as supplements to the company's publication, *Traid Winds*, which has recently been issued in a larger format.

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