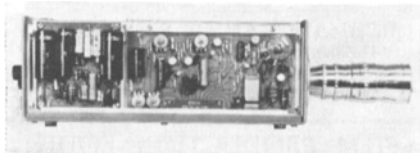


new products

(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.

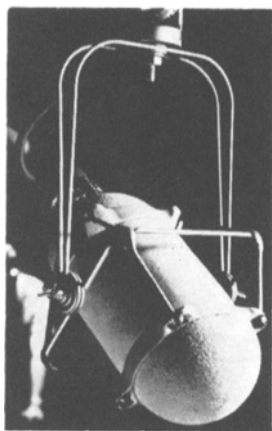


A complete closed-circuit camera system, described as "smaller than a shoebox," has been announced by Du Mont Laboratories, Divisions of Fairchild Camera and Instrument Corp., 750 Bloomfield Ave., Clifton, N.J. The camera has its own regulated power supply in a small, lightweight package, ruggedized against environmental shock, vibration, and temperature extremes. Features include horizontal resolution of 700 lines and high signal-to-noise ratio. It is reported that useful pictures can be obtained with scene illuminations as low as 1 ft-c. The camera system may be fed directly to a conventional TV receiver. An additional output provides for interconnection with any high-resolution monitor. The camera is priced at \$899.



A new television system called the 520 Broadcast Chain has been announced by Dage Television Co, Dage-Bell Corp., 455 Sheridan Ave., Michigan City, Ind. The system consists of a solid state vidicon camera with 800 lines minimum horizontal resolution and program center control with a console grouping including camera control unit, waveform monitor, video switcher/fader, audio mixer system, film chain projector control, and master console control with pulse-cross monitor. The camera is transistorized and weighs less than 70 lb. A film and slide projector multiplexer with an integral film chain camera which can be operated live and

with optional audio panel at the multiplexer is included.



A special windscreen made of a porous material called Acoustifoam (TM), manufactured by the Foam Div., Scott Paper Co., Chester, Pa., is incorporated in a number of professional microphones manufactured by Electro-Voice, Inc., Buchanan, Mich. Acoustifoam is a porous ester-type polyurethane foam which has no exterior surface membranes to block passage of sound. With 97% of its volume consisting of air space, the foam is made of thousands of interconnecting strands which break up the air stream, thus substantially reducing velocity. Combining the polyurethane windscreen with an external filter is said to eliminate almost all microphone pickup of windscreen surface noise. The material is also reported to be effective in control of noise caused by wind striking the diaphragm. The windscreen also serves to keep airborne dirt particles away from the microphone and protects against shock damage.

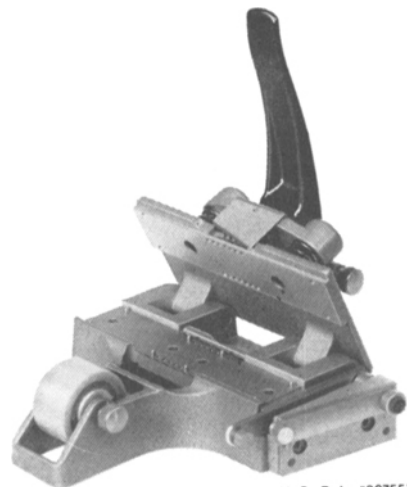


A conversion top for the Arri Universal Glass Blimp to accommodate the Arriflex-16M camera with 1200-ft magazine has been announced by Arriflex Corp. of America, 257 Park Ave. South, New York, N.Y. 10010. The blimp accepts the Arriflex-16S and M models with their 400-ft magazines. Divisible hinges allow easy removal of the 400-ft top and replacement against the larger 1200-ft top. The 1200-ft top is priced at \$325.

Two new tripods, the Super Husky IV, which extends to 72 in., and the Super Hi-Boy IV, which extends to 90 in., are products of Quick-Set, Inc., 8121 Central Park Ave., Skokie, Ill. 60078. The tripods are sturdily constructed, portable, and can position and hold securely large cameras up to 8 by 10 in. Pan head features include separate controls for pan and tilt, larger camera plate (2 $\frac{3}{4}$ by 3 $\frac{3}{4}$ in.), and quick-

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acting Fastite camera screw. The Husky IV has 3-section legs and weighs 7½ lb. It is priced at \$51. The Hi-Boy IV has 4-section legs, weighs 8½ lb, and is priced at \$57.

The new **B & S Bodypod**, announced by Birns & Sawyer Cine Equipment Co., 6424 Santa Monica Blvd., Hollywood, Calif. 90038, is provided with locking knobs for 3-position variable adjustments to permit convenient use of the device with almost all professional motion-picture cameras. The bodypod is made of rugged lightweight aluminum castings, with foam rubber shielding on the shoulder and body

support plates. The center support is knurled for positive hand gripping. It is priced at \$59.50.

The **Kinoptik 9.8mm f/1.8 Tegea** lens for 35 mm has been announced by Karl Heitz, Inc., 979 Third Ave., New York, N.Y. 10022. The lens covers the 35mm single frame with an angle of view of 108°. Optical construction is said to combine excellent contrast and critical definition with a remarkably even illumination over the entire field. Distortion is well corrected (0.7% for a field of 100°). Apochromatic correction provides precise color fidelity. The equidistant T-stops color match the

9.8mm lens with the complete set of more than 20 other Kinoptik lenses. The lens is available for 35mm Arriflex motion-picture and TV cameras as well as for Alpa 35mm single-lens reflex cameras. The price is \$519.

An **all solid state 6 kmc microwave system** capable of relaying color or black-and-white television signals over more than 500 miles without the use of vacuum tubes has been announced by the Microwave Dept. of the RCA Broadcast and Communications Products Div., Camden, N.J. The CW-60V equipment is said to be suitable for common carrier and community antenna TV sys-

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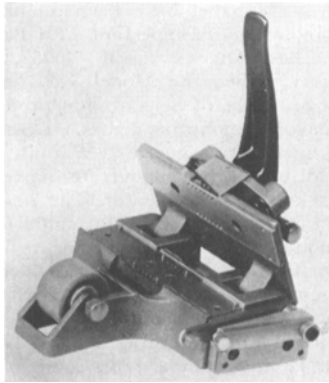
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tems and to be especially suitable for long-haul use because the signal is not demodulated at repeater stations. The new system uses the heterodyne principle to eliminate level stability and distortion problems; it operates directly from a 48-v battery, thus precluding high voltages and inverters and keeping power drain low.

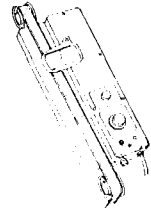
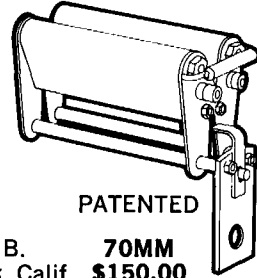
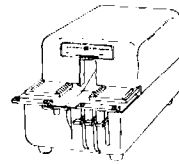
A micrologic television sync generator, said to be the smallest presently available, has been announced by Du Mont Laboratories, Divisions of Fairchild and Instrument Corp., 750 Bloomfield Ave., Clifton, N.J. The generator, Model FR-2, is 1½ in. high, 8½ in. wide, 9½ in. long and weighs 4 lb. It has a self-contained solid state regulated power supply and is used to produce standard EIA synchronizing, blanking and drive signals. The binary counter circuitry utilizes the micrologic elements, and the FR-2 has AFC circuitry with an optional provision for a crystal controlled oscillator. The unit can be strapped to operate at 525, 625, 875, 945, or 1029 lines/frame.



The Guillotine Film Splicer introduced by Parliament Equipment Corp., 630 Ninth Ave., New York, N.Y. 10036, uses blank or nonperforated Mylar tape to splice any perforated film base. The device perforates and cuts the tape after it is applied to the film. The unit consists of two machined aluminum castings hinged together by means of precision dowels to maintain accurate co-alignment. The base casting has a recessed splicing block to edge-guide the film onto precision registering pins. Film cutters are located at one end permitting picture frame line cutting as well as diagonal cutting for magnetic film splicing. The base includes a tape dispenser to hold any tape roll having a 1-in. diameter core. The top section of the splicer has a raised surface that interlocks with the recessed splicing block when closed. Clearance holes permit it to close over the block's registering pins, thus locking the film in position as a means of providing the required accuracy for the perforating and cutting of the applied tape. Models are available for 8mm, 16mm, 17½mm and 35mm perforated film, as well as for nonperforated microfilm. Prices start at \$175.

Du Pont's 16mm motion-picture films for sports and television newsreel photography are now available for 8mm use in Bolex H-8 cameras, according to an announcement from E. I. du Pont de Nemours & Co., Wilmington, Del. 19898.

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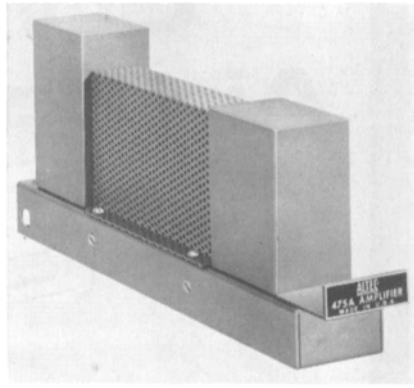
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The films, Type 930 rapid reversal, and Type 931 high-speed rapid reversal, are manufactured specifically for use in the H-8 cameras and are on 100-ft spools with 8mm perforations. Type 930 has an ASA rating of 64 daylight and 50 tungsten; Type 931's ratings are 160 and 125.

The new Tel-Amatic 4-position transistorized mixer, a companion to the 2-position mixer (*Journal*, p. 75, Jan. 1964), has been announced by S.O.S. Photo-Cine-Optics, 387 Park Ave. South, New York, N.Y. 10016. The new mixer, called the Model MX-2, measures 7 by 5 by 4½ in. and weighs less than 2 lb. It is designed with a sloping control panel for ease of operation. A stereo/monaural switch separates the mixer into two isolated amplifiers, if desired, each with two low-impedance, 50- to 250-ohm microphone inputs. Included are two speech/music equalization switches with a pair of microphones on each switch. Dual isolated 50- to 600-ohm outputs, with no interaction, for recording through two separate amplifiers, permit double system recording while simultaneously recording the same signal through a single-system amplifier. The MX-2 is priced at \$149.50.

A solid state amplifier, a direct plug-in replacement for the tube-type Altec 458A Preamp and 459A Program Amplifier used in the firm's 250 SU Control Console, has been announced by Altec Lansing Corp., 1515 S. Manchester Ave., Anaheim, Calif. Designated the Altec 475A Am-

plifier, the new unit employs all silicon transistors which permit the amplifier to operate continuously at 185° F without



derating, while still providing operational stability. A transistor circuitry along with astatically balanced transformers enables the amplifier to reach a noise figure of -127 dbm, with unterminated input. The unit has been designed, electrically and mechanically, to function as a pre-amplifier, booster amplifier or program amplifier.

The Type 1565-A Sound-Level Meter, a product of General Radio Co., West Concord, Mass., uses all solid state circuitry and is contained in a package that includes a new GR-made ceramic microphone. The instrument, small enough to fit in the palm of the hand, weighs 1½ lb and is reported to run 35 hr on a single C

battery. Its aluminum and plastic case is tapered at the microphone end to minimize the effect of diffraction. The front panel has two knobs, one to indicate sound-level range, and the other to select weighting and meter speed and to allow the battery to be checked. The output jack takes a standard telephone plug. A threaded insert in the bottom of the case can be used for tripod mounting. A carrying cord can also be fastened to the insert. The meter is priced at \$240.

The Specialist Autoload Filmsound Model 545 projector has been announced by Bell & Howell, 7100 McCormick Rd., Chicago, Ill. 60645, as the lowest-priced automatic-threading 16mm sound projector that the company has ever marketed. The projector is designed to sell for \$666. It weighs 31 lb and has a 2-in., f/1.6 lens and a 750-w projection lamp. Controls are arranged conveniently on a vertical panel.

A remote-control focus accessory and a new control panel have been announced by Spindler and Sauppe Inc., 2201 Beverly Blvd., Los Angeles, Calif. 90057. The accessory, called the Model 715, fits the firm's SL series of Selectroslide projectors and bayonet mounting lenses. Described as a heavy-duty, gear-driven unit, it is said to be strong enough to move the longest and heaviest lenses. The new accessory replaces the complete manual focusing mount of the projector. Forward and reverse focusing buttons are provided for local control. The unit is priced at \$75. Adapter cords are available. A new control panel, incorporating a Single-Dual switch is now standard on some of the Selectroslide projector models, the announcement stated.

A three-panel screen made of one seamless 9-ft high, 36-ft wide projection screen has been designed by Stewart Filmscreen Corp., Torrance, Calif. The screen design requirements stemmed from the use of three 3,000-w slide projectors, each developing an image 9 ft by 12 ft. To minimize separation of related, adjacent images and yet provide enough masking to overcome the effects of the inevitable slight misalignment of the adjoining images, an integral matte-black stripe was designed into the white matte seamless screen, designated Luxmatte. The lightweight aluminum frame and special perimeter "shadow-box" masking was designed so that the two side images are at 15° to the central picture, the whole being suspended on cables 9 ft from the floor.

The 580/585 Spectroradiometer is a portable device developed by Edgerton, Germeshausen & Grier, Inc., 170 Brookline Ave., Boston 15, for measuring absolute irradiant power and energy at discrete wavelengths. The system combines the firm's 580 Radiometer for measuring absolute irradiance with the newly developed Monochromator which provides spectral characterization of the source output. The system includes a charge and current measuring device called an Indicator Unit. Spectral char-

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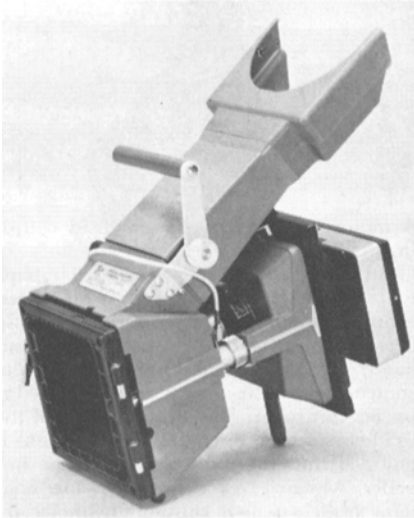
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An oscilloscope camera, Type C-27, has been announced by Tektronix, Inc., P.O. Box 500, Beaverton, Ore. 97005. The camera, designed for general-purpose utility and performance, is compact enough for multiple stacking on 7-in. rack-mount oscilloscopes. Lift-on mounting is provided for quick camera set-up as well as swing-away hinging to give unrestricted cathode-ray-tube viewing for normal oscilloscope operations. Controls have been made readily accessible. For efficient use of film, the back rotates for vertical or horizontal positioning and also slides into any of nine detent positions for multiple-exposure photography. An $f/1.9$, 1:0.85 lens is supplied. A pack film back is provided for convenient loading and picture development. The camera is priced at \$420.

The MCRT-2 (Multichannel Rotary Transformer) has been introduced by S. Himmelstein and Company, 6015 N. Ridge Ave., Chicago, Ill. 60626. The device employs a method (for which a patent is pending) of flux coupling across the rotor/stator air gap to achieve "previously unattainable" bandwidths with very low noise and crosstalk levels, according to the announcement. The elimination of brush/ring frictional contact reduces needed driving torque while extending operating life and reliability manifold. The MCRT-2 is produced in three modular housings capable of handling 4, 8, or 16 channels of power or data. It is said to operate at any speed from 0 to 30,000 rpm with at least a 54-db signal-to-noise ratio.

A specialized interferometer system employing a gas laser light source has been developed by West Coast Operations, Perkin-Elmer Corp., 2930 Bristol St., Costa Mesa, Calif., for highly sensitive studies of shock, exhausts, plasmas and other phenomena, and for studies of optical materials. The first instrument system was built for the Air Force Weapons Laboratory. The instrument, called the Model 734 Mach-Zehnder Interferometer-Schlieren System, can be used in wind tunnel tests to obtain air density patterns; for monitoring propagation of shock waves from exploding wires at frame rates in the nano-

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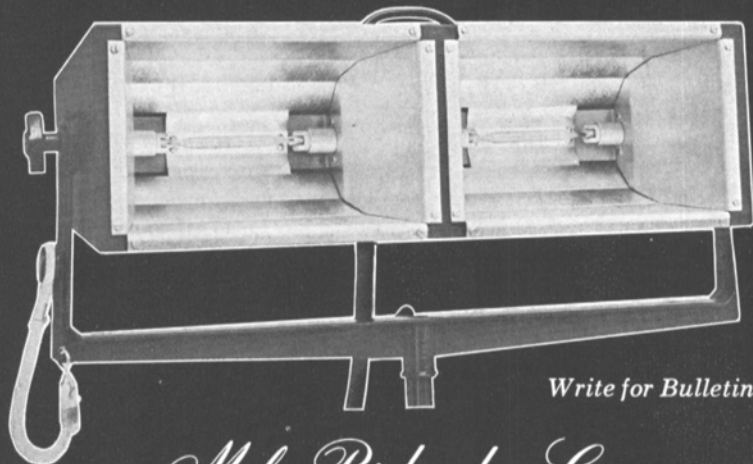


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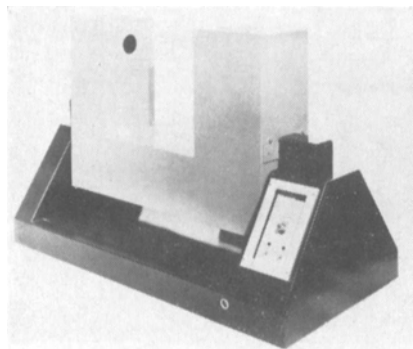
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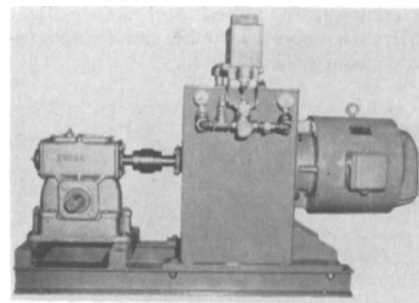


and recording of interference fringes. Its long coherence length provides high contrast fringes in almost any optical configuration. If desired, a giant pulse laser can be attached to the unit. The optical system is diffraction limited for high performance in the schlieren mode. A simple mechanical transfer is incorporated for change to a Mach-Zehnder mode.

A fast-writing cathode-ray tube with fiber-optic faceplate (Type K2427) has been developed by Du Mont Laboratories, Divisions of Fairchild Camera and Instrument Corp., 750 Bloomfield Ave., Clifton, N.J. Designed for extremely

high deflection sensitivity, high-resolution electrostatic focus and deflection, the tubes are said to enable fast-transient information, directly coupled to the signal plates, to be contact printed in sharp detail through the fiber-optic faceplate. Capable of a writing speed of 10^{12} trace widths/sec at an overall acceleration potential of 10 kv, the tube is designed especially for operation in space-saving equipment required to withstand severe environmental conditions. Performance characteristics include resolution of 500 trace widths/in., and deflection factors of 3 and 10 v/cm in the signal and time axes. Defined in terms of trace widths, the tube is capable of deflection sensitivities of 15 and 50 mv per trace width in the signal and time axes. Useful scan is 500 trace widths in each scan direction with negligible defocusing at the scan extremes.

The Giant Pulse Laser System, a compact modular unit for use with a laser to produce outputs in the gigawatt range, is a product of Kappa Scientific Corp., 4416 Hollister Ave., Santa Barbara, Calif. The system consists of a 0- to 35-kv power supply, thyatron control unit, and 0- to 2,000-micro sec Kerr shutter delay, all rack mounted in an enclosure for the safety of the operator. A high-voltage pulse generator for the operation of the Kerr shutter is connected by cable. A Glan-Kappa polarizer and Kerr cells are provided to complete the system which is available as a unit or as individual components.



A motorized variable-speed fluid coupling called Aqua-Vari is a product of Fluid Drive Engineering Co., 313 Hibbard Rd, Wilmette, Ill. 60091. The speed change is accomplished by varying the slip between impeller and runner. The unit includes a motor and an electric remote control for remote operation from a 3-15-psi air controller. The bottom third of the welded steel case contains oil which is pumped into the fluid coupling. The impeller, which is keyed to the motor, contains orifices which continually meter oil out of the active circuit. Reducing the rate of flow into the active circuit produces a new lower level of oil and reduces the output speed. The oil is continually circulating and the excess oil raises the oil level in the reservoir. Controls are available for maintaining a preset output speed regardless of load fluctuations.



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Motion-Picture Cameraman—Laboratory Technician—Sound Recordist—Film Director. Over 13½ yrs television film experience. Looking for connection with progressive motion-picture studio, college film unit or television station film department. Have supervised all phases and can set up and direct your operation. In latest position installed and supervised high quality reversal processing laboratory at major market television station for over 2 yrs. Have own motion-picture cameras, lenses, tripods, etc. Desire position with congenial organization that's going places. Best industry references. Active Member SMPTE. Frank E. Sherry, 1841 West French Place, San Antonio, Texas 78201.

Producer-Cameraman, American, available for motion-picture assignments in Europe from July 15 to October 15, 1965. Dependable, responsible, highly organized and reasonable. Fully equipped mobile 16mm and 35mm Arriflex units. Five years experience, business and industrial films plus dramatic filming. Four languages. Work experience in 11 European countries. Co-Producer, cameraman "U.S.-Europe Educational Film Expedition 1963." Contacts with major European associates.

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