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frequency and audio-frequency noise in the solution of engineering problems. Areas covered include definition and interpretation of probability density, probability distribution, ensemble average, time average, ergodic process, variance, standard deviation, normal or Gaussian function, autocorrelation function, spectral density and the concept of white noise.

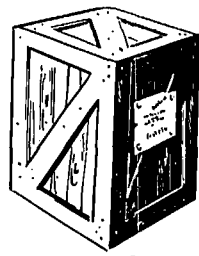
Special lenses for use in such fields as aerospace, aerial mapping, aerial reconnaissance and photominiaturization are described in seven technical data sheets available from G. P. Goerz American Optical Co., 461 Doughty Blvd., Inwood 96, L.I., N.Y. The information includes suggested applications, resolution values, distortion, mechanical configurations and cutaway design drawings.

A detailed description of the new FCC-approved economical 2,500 mc closed-circuit service for instructional TV is avail-

able upon request from Industrial Products Div., Adler Electronics, Inc., 1 LeFevre Lane, New Rochelle, N.Y.

Futura projection arc lamps are illustrated and described in a leaflet available upon request from Strong Electric Corp., 79 City Park Ave., Toledo, Ohio 43601. The lamps are designed to meet requirements of 35mm and 70mm projectors and can be changed from one film width to another by turning a knob.

Oscilloscopes and cameras are described in a short-form catalog available from Scientific Instrument Dept., Du Mont Laboratories, Divisions of Fairchild Camera and Instrument Corp., Clifton, N.J. Oscilloscopes, oscilloscope record cameras, pulse generators, probes and accessories are illustrated and described. Specifications are included on current instruments including the new transistorized high-frequency 765 series together with plug-ins.

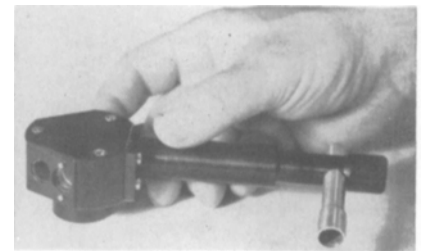


new products (and developments)

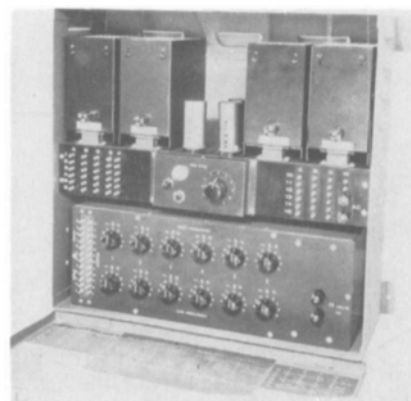
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Further information about these items can be obtained direct from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement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

Erratum: The producer of the Woodruff/Albert 35AV1 All-Format Automatic Camera (p. 73, January, 1964, *Journal*) is Woodruff/Albert Camera & Instrument Corp., 141 West 42 St., New York, N.Y. 10036. This information was inadvertently omitted.

Projector Corp., a Division of United Industrial Syndicate, Inc., 729 Seventh Ave., New York, N.Y. 10019, to provide a fast and accurate means of adjusting the frequency characteristics of multiple-channel theater sound systems for controlled sound reproduction. It is designed as a compact unit said to have no insertion loss and not to require changes in system gain or amplification. It can be added to almost any multichannel sound system. The input is a bridging type having an impedance of about 100,000 ohms. The output is high impedance and will connect to the input of power amplifiers having input impedances of 1,000 ohms or higher. It can be used at a remote distance (in the auditorium) by using shielded cables for the connections.



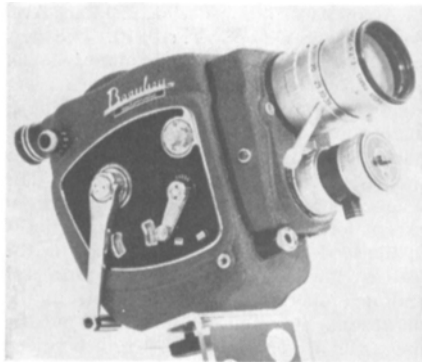
A compact equal-path interferometer, a precision testing tool for industrial and laboratory optics, has been announced by Perkin-Elmer Corp., Main Ave., Norwalk, Conn. It is used to measure deviations of optical path in lens systems, mirrors, prisms and raw glass. The unit consists of the basic interferometer, mercury-arc light source and power supply, positioning adjustments and mounting stand. The complete instrument weighs 14 lb and measures 12 x 17 in. (maximum dimensions). The basic instrument measures only 2 x 2 x 6 in., but is said to be capable of testing optics up to the largest size. The unit is priced at \$1,995.



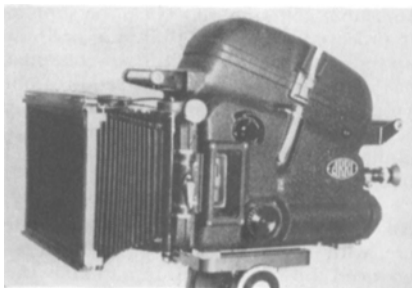
The Century Theatre Acoustic Compensator has been designed by Century

An instrument designed for precise testing of large complex optics has been developed by the Electro-Optical Division,

Perkin-Elmer Corp., Norwalk, Conn. The instrument consists of Perkin-Elmer's Modce 5200 gas laser combined with its Modified Twyman-Green Interferometer. Studies conducted by the company have been directed toward demonstrating the usefulness of the laser interferometry technique in the inspection of the synthetic crystal rod materials used in solid state lasers. Using this technique, extremely high fringe contrasts have been observed in large synthetic ruby and other crystal rods. It was reported that the gas laser is an ideal source for interferometer illumination due to its monochromaticity and long coherence length. Even at an output power of 1 mw, the gas laser's continuous beam is capable of producing some 3,000 times more useful light energy than a conventional arc light source. It is commercially available as a fully equipped unit at a price of about \$10,000.



The Beaulieu MCR8 8mm camera has been announced by Cinema Beaulieu, 921 Westwood Blvd., Los Angeles 24, Calif. Features include the Beaulieu 45° mirror-shutter which intermittently transmits light to the film, with no prisms or partial reflecting mirrors interposed, and to the variable focusing 20X eyepiece. Combined with a special ultraluminous ground glass, the shutter is designed to ensure exact "no parallax" reflex viewing with constant depth of field control. A variable shutter device permits fade-in or fade-out with a complete film stop. Other features include a frame counter, total film rewind and a precise front seating arrangement to ensure microscopic precision alignment and seating of all "D" mount lenses. The camera is available with the Angenieux Super Zoom (6.5 mm to 52 mm) at a price of \$399.50, or with the Angenieux K2 Zoom (7.5 mm to 35 mm) at a price of \$359.00. It will be on display at the 95th SMPTE Conference, Los Angeles.

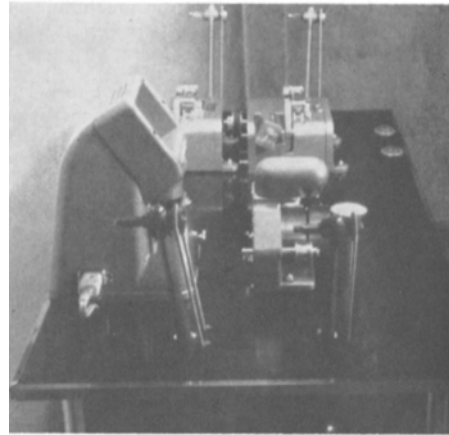


A new model 120S special blimp for the Arriflex-35 has been announced by the Arriflex Corp. of America, 257 Park Ave. South, New York, N.Y. 10010. Features

OPTICAL

NEW

PICTURE



MAGNETIC

COMPOSITE

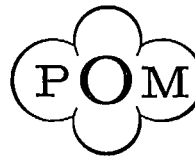
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NOVA 1200-Foot Magazine

Photo-Kinetics Inc. has a 1200-foot magazine for the Nova 16mm high-speed camera which is designed to take 200 to 3200 pictures per second continuously variable.

The control, a servo-loop design, operating on 115 v, 60 cycles, is designed to control speed of camera to within 1 percent at all speeds.

Lens plates are available to accept Fastax and Fairchild 16mm high-speed camera lenses.

Weight, approximately:
 Magazine. 60 lbs. without film.
 Control:20 lbs.
 Delivery:90 to 120 days

This is the "NOVA" THE MOST VERSATILE ROTATING PRISM HIGH SPEED CAMERA

100' Camera from 55 pps to 8,500 pps.*

with 400' mag. from 55 pps to 10,000 pps.*

with 1200' mag. from 200 pps to 3,000 pps.*

Infinitely variable controlled speed

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include a rectangular front port large enough to clear the fields of wide-angle lenses to 18mm, externally controlled diaphragm settings, a follow-focus mechanism which can be operated from three different positions, and interchangeable filter holders to suit every lens requirement. The blimp is said to be extremely quiet and suitable for the strictest sound stage requirement. It has the Arriflex "floating" camera base on which are integrated the Arriflex-35 camera, motor and a newly designed focus and diaphragm mechanism. An integrated electrical system provides for either a-c line operation or d-c battery operation. Overload switches and fuses protect the motor against accidental overloads. Other features include a connection for a remote-control stop-start switch, interior lights for scales and controls, a special film-threading light which is automatically cut off when the motor is started, and an electrical chassis on which all major controls and components are combined. The blimp, together with camera, motor and 400-ft magazine, weighs about 88 lb. Dimensions are 24 × 16 × 18 in. It is priced at \$3,360.

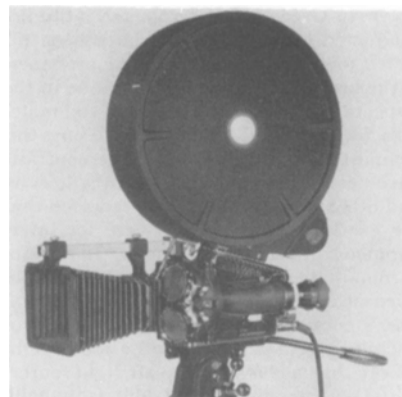
A Conversion Kit which adapts the Arriflex Universal Fibre Glass Blimp for use with the Model 120 Angenicux, mounted on either Arriflex-16S or Arriflex-16M, has been announced by Arriflex Corp. of America, 257 Park Ave. South, New York 10. The new kit includes a long, extended front port, to accommodate the length of the lens, and mechanical parts to modify

the blimp's regular focus/diaphragm controls so that the model 120 Angenicux may be focused and zoomed from outside. Installation requires no machining and no special tools. The kit is priced at \$375.

A special adaptation stand to accommodate 1000-ft magazines on Arriflex-35 cameras has been announced by Arriflex Corp. of America, 257 Park Ave. South, New York, N.Y. 10010. The new stand supplements the Model 1000 Blimp, the announcement stated. The adaptation stand is designed so that the Arri-35 camera may be driven by either the standard Arri-35 synchronous motor on geared base or by the Arri 24-v d-c governor-controlled motor on geared base. The stand is equipped for Rangertone, Pilotone, or similar synchronous sound recording systems. A special universal motor (24-v, a-c or d-c) is built into the Arri stand and drives the magazine take-up. A take-up belt switch and interlock is incorporated into the stand. Total weight of the stand plus sync motor, camera and 1000-ft magazine is about 50 lb. Price of the stand alone is \$1,850.

A 1200-ft magazine for the Nova 16mm High Speed Camera has been announced by Photo-Kinetics, Inc., 1624 Stillwell Ave., Bronx 61, N.Y. The camera is designed to take from 200 to 3,000 pictures/sec, continuously variable. The control is a servo-loop design operating on 115 v, 60 cycles. It is designed to control the speed of the camera to within 1% at all speeds. The

camera weighs 60 lb without film and the control weighs 20 lb.



A new M 1,200-ft gear-driven magazine for the Arriflex-16M has been announced by Arriflex Corp. of America, 259 Park Ave. South, New York, N.Y. 10010. The new magazine is a double-compartment type, all gear-driven. The two compartments are arranged coaxially. After the magazine is loaded, mounting on the camera is said to have the same speed and convenience as the M 200-ft and M 400-ft magazines. The magazine may be threaded in daylight except for placing the film on the spindle in the feed compartment and drawing the leader down through the feed sprocket channel, operations that are done in the darkroom. Overall dimensions of the magazine are 15 × 14 × 3½ in. It is priced at \$640.

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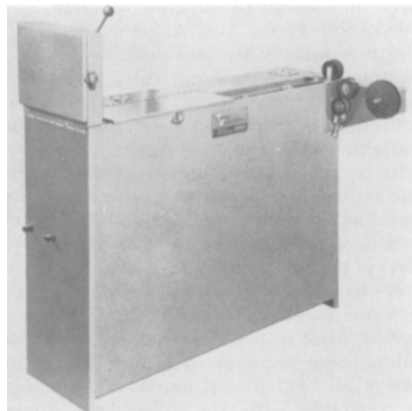
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A compact black-and-white processor called Model MT-10 has been announced by Trisc Engineering, Inc., 1949 First St., San Fernando, Calif. The processor, which occupies 3 × 5 ft of floor space, processes negative or positive, 16mm, 35mm, or 16/35mm combination. It can be supplied to process 35mm up to 10 ft/min or 16mm up to 20 ft/min. The unit is self-contained, has daylight operation, and requires only simple plumbing and electric plug-in. Models are available especially for microfilm, radiology and television station operations. Prices start at \$3,150.

An Angenicux 10:1 Viewfinder lens for use with vidicon cameras has been announced by Zoomar International Inc., Glen Cove, N.Y. The lens is an adaptation of the 15mm-150mm f/2.8 lens. The viewfinder model can be mounted to any portable TV camera which operates without an electric viewfinder.

An Angenieux 10:1 zoom lens for the Kodak Reflex Special Camera has been announced by Zoomar International Inc., Glen Cove, N.Y. The lens has a range of 12mm to 120mm, *f*/2.2 and is delivered with a special Kodak Type R mount of hardened steel to ensure proper alignment over extended periods of use. A 4:1 reduction crank for slow smooth zooming and a lever for rapid zooming are supplied.

The new model 250 Angenieux lens will be supplied in factory mounts for all models of Arriflex-35 cameras according to an announcement by Arriflex Corp. of America, 257 Park Ave. South, New York, N.Y. 10010. The lens, which zooms through 10 focal lengths from 25 to 250, is priced at \$2,290. The special Arriflex cradle is available at an additional cost.

Edicomp, an editor computer developed by Videotape Productions of New York, Inc., 101 W. 67 St., New York, N.Y. 10023, and the Editec developed by Ampex Corp. have been incorporated into an electronic editing system called Edimation.

Edimation is designed to eliminate entirely any cutting and splicing of tape and also is designed to bypass any intermediate time-consuming film editing process. In this system, the magnetic tape, which is the central element of computer systems and automation systems as well as audio and video recording systems, is used to carry, remember and implement complex and precise editing instructions as well as to remember and reconstruct pictures and sound.

The Edicomp is designed to carry and put into effect many and complex instructions involving relatively long periods of production time and numerous changes and scene sequences by retaining a reference point in time from which all changes are computed. During and after a long production, for example, instructions as to good and bad takes, or changes, are recorded on the video tape so that the process of "save" or "reject" later becomes virtually automatic.

The Editec, used mainly for television commercials, is a device for "pushbutton editing" for the electronic splicing of two successive scenes to an exactness measurable in thirtieths of a second. In combining the two devices into the Edimation system, both the Editec and the Edicomp have been improved and adapted to more extensive use.

An improved version of the SeAQUartz underwater light, called the Mark II, has been announced by Birns & Sawyer Cine Equipment Co., 6424 Santa Monica Blvd., Los Angeles, Calif. 90038. Tested at a depth of 1000 ft underwater, a new model incorporates such improvements as aluminum housings chemically plated with Kanigen, a 92% nickel alloy; a pyrex glass disc placed directly in front of the quartz iodide lamp to absorb the initial thermal shock; and a specially tempered glass for the front lens to withstand pressure at 1000 ft. Other models are available for use at depths of 350 ft or less. The underwater light is 7½ in. square and weighs

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7½ lb. It is reported to deliver 5,000 w of exposure. The aluminum housing includes a 65,000 candlepower quartz iodide Sylva-nia Professional Sun Gun lamp and reflector. The Mark II 1000 is priced at \$450; and the Mark II 300, at \$295.

A double system sound package for the H-16 and H-8 Bolex cameras has been announced by the Sonex Engineering Co., Box 1189, Glendale, Calif. The package includes a sound blimp, a sync motor and a pulse signal kit said to make most ¼-in. tape recorders usable for soundtrack recording. Two series of sound blimps and motors are available, the professional type priced at \$299.50, and a semi-pro version priced at \$149.50. Pulse signal kits are priced at \$29.95 for stereo machines and \$99.50 for monaural machines.

The Tymeter is a digital readout clock movement announced by Tymeter Electronics, Pennwood Numechron Co., 7249 Frankstown Ave., Pittsburgh 8, Pa. The device shows ¼-in. digits with front panel time reset facility; the digits can be reset individually. It is 3 in. high, 5½ in. wide, 3¼ in. deep and weighs 2 lb. It is priced at \$16.00.



employment service

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