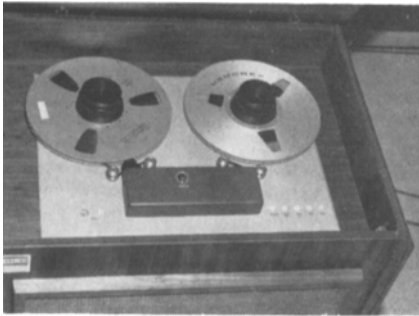


new products

(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.



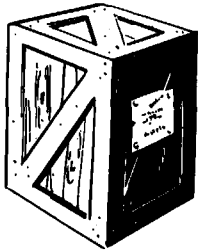
The Fairchild/Winston Television Tape Recorder is a new entry in the field of low-cost TV tape recorders for home use. Announced by the Winston Research Corp., a subsidiary of Fairchild Camera and Instrument Corp., 6711 S. Sepulveda Blvd., Los Angeles 45, Calif.

Designed to sell in the \$500 price range, the four-track machine records on $\frac{1}{4}$ -in. tape with a fixed head at a speed of 120 in./sec. It can be used to record programs from the screen or, with the use of a mobile hand camera, for making home television movies. Present reproduction quality is reported comparable to actual television viewing.

As a basic design approach, the mechanical portion of the recorder has been kept simple and noncritical. In effect, the announcement stated, many mechanical functions of existing television recording devices have been assumed by the proprietary electronic circuitry incorporated in the recorder.

All recorded signals are combined on a single track through multiplexing. The unit is color compatible in that it will also record and reproduce color broadcasts in black-and-white.

An automatic 8mm movie camera called the Moviflex has been introduced by the Zeiss Ikon Division of Carl Zeiss, Inc., 444 Fifth Ave., New York, N.Y. 10018. The all-electric camera features a newly developed variable focal length lens, the Zeiss Vario-Sonnar $f/1.9$, with a zooming range of 7.5 mm to 30mm. The reflex viewing of the 12-element lens system is said to be flicker-free and focusing is accomplished with the aid of a retractable split-image rangefinder that pivots into and out of the viewer as needed. Al-



though the camera is fully automatic, provisions are built in for manual setting of apertures. It is expected to be commercially available in June and the price will be around \$600.

The first lens in a new line of Nikkor lenses developed especially for photography of cathode-ray-tube displays has been announced by the Military and Special Products Div. of Ehrenreich Photo-Optical Industries of California, Inc., 701 Welch Rd., Suite 303, Palo Alto, Calif. Called the CRT P-11, it is a 50mm lens designed for higher resolution, sharpness, contrast and better transmission for phosphors in the range of 4,500 to 5,000 A. It is said to record distortion-free nanosecond traces on 35mm films.



A high-precision cinefluorographic camera system known as Model 926 has been announced by Photomechanisms, Inc., 15 Stepar Place, Huntington Station, New York. The camera is designed to be an integral part of a diagnostic x-ray installation and includes both a polarized, synchronous drive unit and a 100-ft capacity daylight loading magazine. In the Model 926 system the x-ray generator and the camera are so synchronized that the image intensifier is energized only on command from the camera. Radiation is emitted only when the shutter is open and the patient receives all possible protection from overexposure. The camera drive offers a choice of four frame rates, 60, 30, 15 and 7.5 frames/sec, but on special order rates may go as low as 1.875 frames/sec. The camera also has a mechanically polarized drive coupling that automatically rephases the camera on starting after removing the magazine or reloading it. The camera (without lens) is priced at \$1,525.

The Graph-Check Sequence Camera No. 300, designed for photographic analysis of high-speed motion, is produced by Photogrammetry, Inc., and distributed by Graph-Check, Inc., 12230 Wilkins Ave., Rockville, Md. The camera uses a Polaroid Land 4×5 film holder with standard 57 Polaroid Land film to produce an 8-frame stop-motion sequence print ready for viewing within 10 sec after the action has occurred. The camera is designed for outdoor use. One knob adjusts the 8 lens apertures simultaneously for desired exposure. Eight



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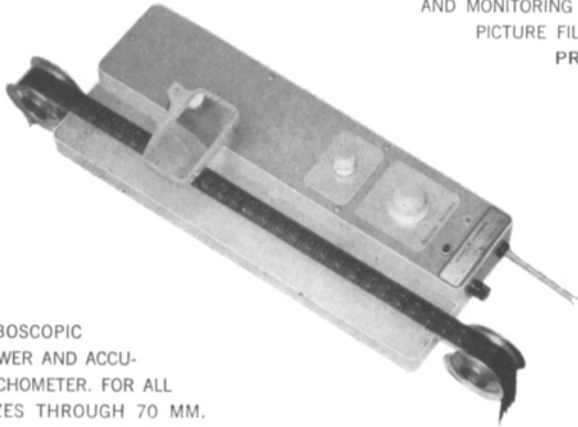
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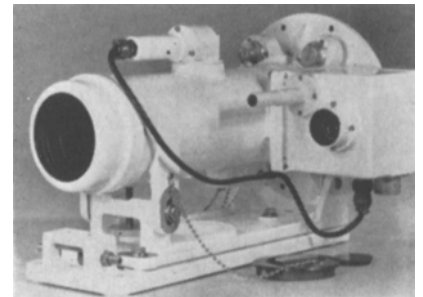
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identical spring-operated shutters of the single-leaf type are incorporated to fire in automatic sequence at 1/1000 sec. Pneumatic sequence control permits variable timing from 1/10 sec to 10 sec. Eight 50mm meniscus lenses are used and the lens system calibrated for universal focus. The camera is priced at \$395. Also available is the Graph-Check No. 400 for use indoors with artificial lighting at a price of \$445.

A hand-held television camera is being developed by Radio Corp. of America for the Apollo manned lunar mission for showing "real time" (live) television from space. A 4½-lb operating prototype built by RCA's Astro-Electronics Div., Princeton, N.J., is being tested in Downey, Calif., by the Space and Information Systems Div. of North American Aviation, Inc., Apollo system contractor to the National Aeronautics and Space Administration. The camera will use a 70° wide-angle lens for on-board viewing, or a 9 to 35° zoom lens for scenes taken of distant objects through a window. The camera may be mounted in either of two positions in the Command Module and installed in stations for different angles of the astronauts and spacecraft during liftoff, Earth orbit, lunar trajectory, and lunar orbit. Transmission will be received at a designated Earth station, video-taped, scan-converted for commercial television and released within minutes to the public.



Two new dual lens systems called the Mark V Mod O and the Mirrotel have been announced by the 3M Company, 2501 Hudson Rd., St. Paul, Minn. 55119. The lenses were developed by the firm's Revere-Wollensak Division plant in Rochester, N.Y. The Mark V Mod O is a combination 18-in. and 114mm (4½-in.) f/6 optical system designed for use with both TV and 35mm motion-picture cameras. It is used for tracking, surveillance and radar boresighting. The lens system serves as a camera objective to transmit the image of an object to either camera employed. The lens has remote focusing, pointing accuracy of 5 sec of arc, or less, a stable azimuth/elevation base and a ½× lens converter.

Selection of the lens and the focus control are remotely controlled from a manned station. Filter selection and iris diaphragm control are accomplished manually at the lens.

The Mirrotel catadioptric dual lens system, 40-in. - 8-in., is designed primarily for use with a TV camera as a radar boresight. It features an f/6.3 aperture, critical adjustment and azimuth-elevation base. Both systems contain auxiliary photocell operated shutters which protect the

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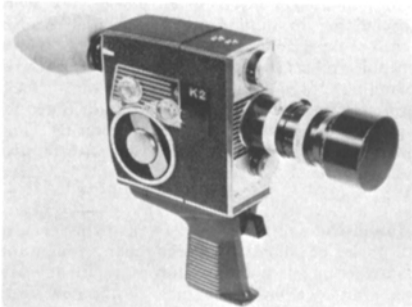
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vidicon from direct exposure to the sun and deterioration of the cathode-ray tube phosphor.

A zoom lens, the *f/1.9 Vario-Switar 36EE*, has been introduced by Paillard, Inc., 1900 Lower Rd., Linden, N.J., for use with the Bolex H-8 REX movie camera. The lens, which incorporates automatic diaphragm control, has a zooming range from 8mm to 36mm with constant lens opening and focus. When used with the H-8 REX the operator can focus through the lens with the diaphragm wide open and when the camera is operated the proper *f*-opening is automatically selected. For special effects or when panning into a light source, the mercury battery-powered photo resistor system can be limited to any *f*-stop range. Manual diaphragm control is also provided for. The lens is priced at \$375. When purchased in combination with the H-8 REX the price is \$710.00.

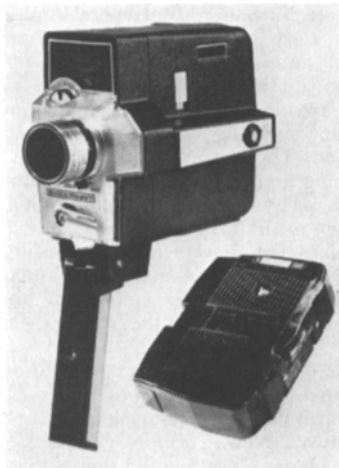
The **Andante 100**, a multi-exposure camera with a variable fixed lens and a 100-ft roll film capacity, has been announced by Precision Camera, Inc., 1609 Quentin Ave., Minneapolis, Minn. 55416. The camera operates by tripping the shutter and the film is advanced by turning a knob. The lenses are pre-focused and locked down at the factory to any distance required. The "locked distance" can be changed by the operator. Separate lenses for viewfinder and shutter may be adjusted to correct for parallax from 18 in. to infinity. The camera, when fully loaded, weighs only 7½ lb. Its application includes scientific and industrial recording.



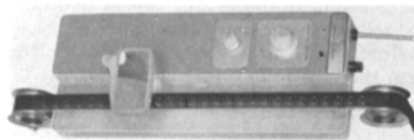
A new Bolex 8mm camera, the **K-2**, successor to the K-1 (*Journal*, p. 525, June 1963), has been announced by Paillard Inc., 1900 Lower Road, Linden, N.J. The new camera features a power zoom with dual buttons built into the camera housing to control the zooming. The lens (Kern Vario-Switar *f/1.9* zoom) is activated by microswitches and the complete cycle from wide angle to telephoto, or the reverse, takes five seconds. Power is provided by two batteries in the trigger handle. Manual zooming is optional. The camera is priced at \$490. Paillard has also announced the S-1 8mm electric-eye zoom camera with a Schneider Variogon *f/1.8* zoom lens with a range 9 mm to 30 mm. It is priced at \$250.

The 8mm **P-3 zoom camera** has been added to the line of Bolex cameras by Paillard, Inc., 1900 Lower Rd., Linden, N.J. The camera has a Pan Cinor *f/1.9* zoom lens with an 18mm to 40mm range.

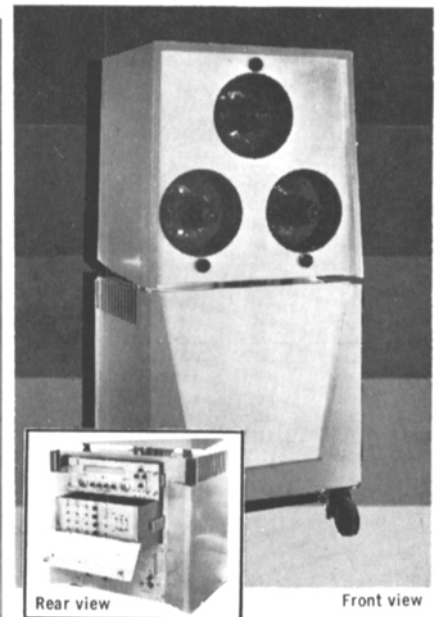
Two conveniently placed levers control an electrically driven zoom, with the complete cycle from telephoto to wide-angle or the reverse taking six seconds, the announcement stated. Manual zoom is also possible. Precise focusing is achieved by lining up the double image in the viewfinder. Called Compumatic, a through-the-lens light measuring system activates a needle, visible in the viewfinder. Adjustment of the diaphragm control until the needle stops in a cut-out marker assures proper exposure. The camera is priced at \$360.



A new model of the **315 Autoload camera** (*Journal*, p. 767, Sept. 1963) has been announced by Bell & Howell, 7100 McCormick Rd., Chicago 45. The new model, called the 315PZ, has a fingertip zoom control and built-in pistol grip. The camera has an 11-element, *f/1.8* lens which zooms from 9mm to 29mm; a 15-ft film run; and a spring motor winding indicator. The operator grasps the pistol grip and operates the zoom trigger with one hand and activates the film-advance button with the other. The pistol grip folds flat under the camera for carrying, storage or use on a tripod. It is designed to sell for less than \$150.



Model E Processing Pre-Viewer for viewing motion-picture films during processing has been announced by Gryphon Corp., Burbank, Calif. The pre-viewer is a stroboscopic instrument specifically designed for the inspection of films for quality and subject matter just prior to machine take-up, or at earlier stages where the light can be tolerated. A tachometer is incorporated for accurate and stable machine speed indication without physical contact with the film. Operating range is continuously variable to more than 350 ft/min for 35mm films. A 50-sq in. viewing panel accommodates films up to 70mm and a magnifier provides enlargement of a portion of the film being viewed. The instrument is 19 in. high, 7½ in. wide and 3 in. deep. It is priced at \$375.



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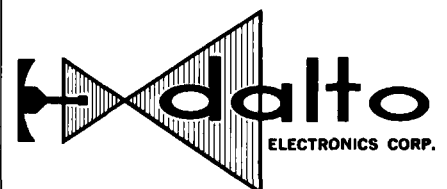
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A daylight conversion filter of the dichroic type requiring only $\frac{1}{2}$ -stop compensation has been announced by Novatech Corp., 282 Seventh Ave., New York, N.Y. 10010. Called the DY-1, the filter raises the color temperature of the company's Novatwin (*Journal*, p. 478, June 1962) when equipped with 3200 K bulbs to 6000 K to provide balanced lighting with all daylight color films. The DY-1 color filter is of the same size as the Novatwin diffusers and fits into the filter slot of the Novatwin barndoor assembly. It is priced at \$37.50.

The Anso Class I Microdensitometer has been introduced by General Aniline & Film Corp., Commercial Development Dept., Binghamton, N.Y. It is a photometric analysis system designed to sense, measure and record radiant energy and simultaneously to indicate the coordinate position. The system is a combination of a scanning and recording microdensitometer and a measuring engine. Information recording media may be in black-and-white or color. The density readings versus distance scanned is automatically plotted by a strip chart recorder and the X and Y values are presented on the reading drums.

A line of precision cells manufactured by the English optical works of Perkin-Elmer is distributed by Photovolt Corp., 1115 Broadway, New York, N.Y. 10010. The line includes more than 25 shapes made of glass, standard silica, and special far-ultraviolet and near-infrared transmitting quartz. The cells are made by a special process which eliminates bonding materials and the manufacturing tolerances are extremely narrow. The precision of the light path is reported to be within 0.01 mm. The cells fit standard spectrophotometers and are available in matched sets of 2 and 4.

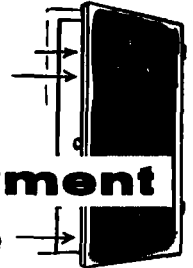
A heavy duty video tape called Reeves Soundcraft Video Tape has been introduced by Reeves Soundcraft Division of Reeves Industries, Inc., Great Pasture Rd., Danbury, Conn. The new tape is produced by a process called Micro-plate which gives the tape an extremely smooth surface for intimate tape-to-head contact to reduce headwear and tape or head fouling. In field tests conducted by the firm the new tape survived more than 700 passes with no sign of deterioration.



A traveling motion-picture exhibit on a curved structure of aluminum scaffolding for presenting several films simultaneously is manufactured by Up-Right Scaffolds, 1013 Pardee St., Berkeley, Calif. The structure measures about 70 ft long on an

arc and is 20 ft high and 10 ft deep. It houses 13 projectors with an intricate arrangement of mirrors for the viewing screens. The projectionist operates the projectors from a catwalk within the covered structure and a 9-ft vertical clearance enables spectators to walk between the scaffold legs and see the interior operation. It was used for the first time at the Montreal Outdoor Exhibit.

A new beaded screen called Micro-Flect has been announced by Radiant Manufacturing Corp., 8220 N. Austin Ave., Morton Grove, Ill. In this type of screen tiny glass beads are bonded to a special double-coated plastic base to assure brightness at all viewing angles and to resist fungus and flame.



employment
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These notices are published for the service of the membership and the field. They are inserted three months, at no charge to the member. The Society's address cannot be used for replies.

Positions Wanted

Audio Visual Aids Director. 18 yrs experience with Studebaker Corp. in all phases A-V work specializing in motion-picture production. Extensive experience in management of photographic and art studio. Thoroughly experienced in planning, organizing and budgeting. Background in both 35mm and 16mm films for public relations, sales, manufacturing and advertising fields. Age 43, married with family; will relocate. Edw. A. "Jack" Price, 2417 Crest Ave., South Bend, Ind. (219) AT 9-6839.

Motion-Picture Engineer. 14 yrs experience in all phases of laboratory work; repair, design and construction of motion-picture equipment; testing and evaluation of new equipment and products. Some production experience. Experienced in all phases still photography except aerial work. Speak, read and write German fluently. Desire more challenging position. Prefer Washington, D.C., area. Presently employed. Married. 909 North Greenbrier St., Arlington 5, Va.

Writer-Director. 7 yrs experience writing and directing dramatic feature films. Former Director of Cinema and Theatre Affairs in Iraq and member of the Iraqi Committee for Studying Movie Scenarios for Local Production. B.A. degree from Univ. of Baghdad, with special program in cinema at UCLA. Write: M. M. Al-Yasin, 10616 Wellworth Ave., Los Angeles 24, Calif.

TV Production. Wish to relocate in Los Angeles area. Young man, married, M.A. degree in TV production from major Midwest university. Experienced in TV direction, radio and TV announcing. Hold FCC Second Class Radiotelephone License—qualified in operation of color and monochrome cameras and terminal equipment, color and monochrome video tape recorders, film sound recording and mixing, and kinescope recording. Resume and references on request. Box 7373, Detroit, Mich. 48202.