

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 WF-30 Fastax 16mm high-speed camera (Wollensak Optical Co., 850 Hudson Ave., Rochester 21, N.Y.) does not "incorporate an RFI-protected oscillograph," as erroneously noted in the October 1961 *Journal* (p. 856); it is RFI-protected so that interference with an oscilloscopic pattern being recorded is reduced or eliminated. The firm also has designed a high-speed oscilloscopic recorder, the WF-32 which has some specifications such as those for film and magazine which are the same as the WF-30, the high-speed motion-picture camera. Features of the WF-30 include a 1200-ft magazine, speed of 500 to 3000 pictures/sec (12.5 to 75 ft/sec), flat speed curve regulated to $\pm 4\%$, and special start-stop control.

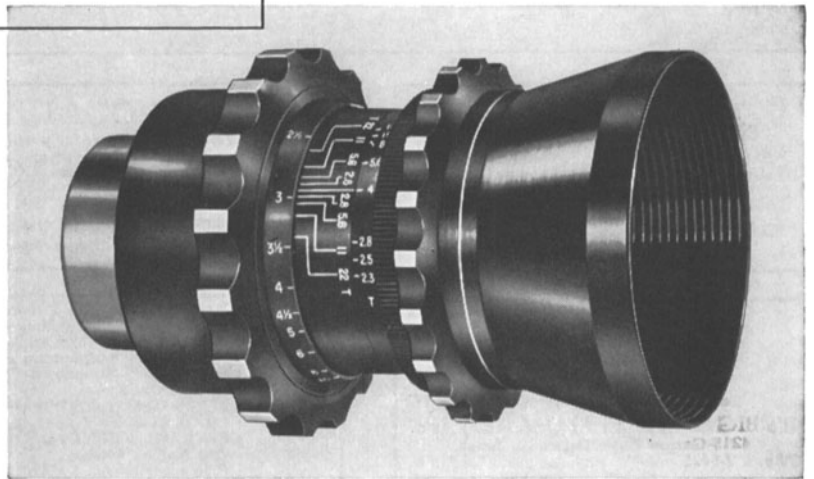
A photoinstrumentation system designed with self-contained facilities for the study of high-speed transient events with velocities up to 200,000 ft/sec and duration times as short as 5×10^{-9} sec has been introduced by Beckman & Whitley, Inc., San Carlos, Calif. The system, designated Model 339B, has been used, with special optical adaptation, to record the time required for a pulse of light to traverse a 6-ft space (6×10^{-9} sec). The system is designed around a sweeping-image camera with a high-speed rotating mirror which sweeps an image of the event under study past a slit and onto a stationary film strip. The speed range of the turbine-driven mirror is 200 to 2600 rps, at which speed the recording time is 131 μ sec total and the recording rate is 9.05 mm/ μ sec.

The film record occupies 46.5 in. of a 48-in. strip of 35mm film. The field of view is 0.053 in. by 18 in. at 10 ft and the maximum effective aperture $f/8.0$ at the film plane. The system is of the continuous recording type to eliminate necessity for synchronization between the event and the system.

A vacuum pumping system and the electronic circuitry are contained in the mounting stand of the sweeping-image re-

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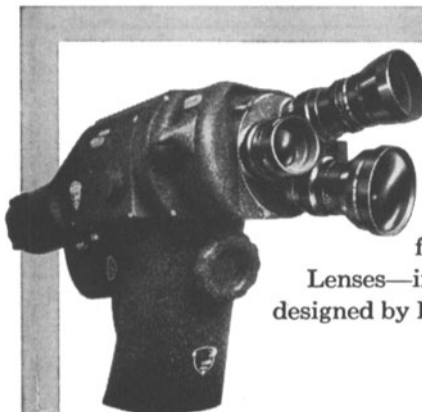
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order. Pushbutton controls for viewing, static exposure and instantaneous exposure are located near the microscope and the full-viewing eyepiece. Precision frequency-counter equipment and firing controls are located in a remote console which permits operation of the system from a distance when recording hazardous events. An additional high-voltage pulse unit is incorporated to provide a source of high-energy high-voltage electrical pulses for the instantaneous initiation or precise delay of exploding wire, spark gaps, electronic fuses, flash bombs, explosive shutters and lighting devices.

Typical applications include detonation explosive studies, plasma investigation, flash tube and spark discharge phenomena, simultaneity of plane-wave generation, shock-tube work, exploding-bridge wire observations and simulated nose-cone entry studies.

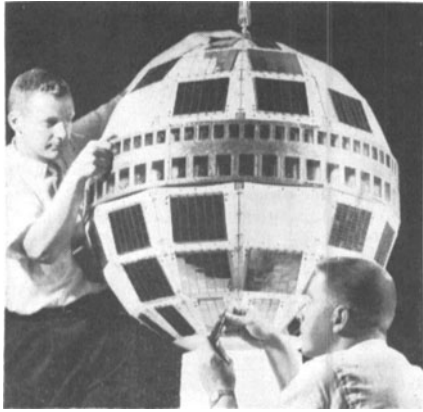
The new DBM 10 Camera has been designed and manufactured by the D. B. Milliken Co., Arcadia, Calif., to meet the requirements of the Project Bigshot, Echo A-12, recoverable capsule. It will be used for surveillance and measurements during the ejection of the Echo A-12 communications balloon. With a basic Milliken movement, the camera operates at 16 or 24 frames/sec with register pin for high definition, resolving in excess of 200 lines/mm. It is hermetically sealed for submerged or explosive environments in a housing manufactured to sustain an 80 G load.

A series of high-power oscillators covering frequencies from 5 mc to 1250 mc has been announced by Telonic Industries, Inc., Beech Grove, Ind. Manufactured in seven versions with various center frequencies, the oscillators are used for CW or sweep oscillation in instrumentation and other systems requiring power levels from 1 to 8 w. The units are equipped with a gear-driven tuning mechanism and dial assembly and an r-f low-pass output filter with a cutoff at the high end to reduce harmonic content. Power requirements are 50 to 100 ma at 400 to 900 v or 1.0 amp at 6.3 v. Price of the unit is approximately \$1750.

A new material — neodymium in calcium tungstate — has been found to be a good maser material through research carried out at Bell Telephone Laboratories, Murray Hill, N.J. The potentialities of this material were revealed by the discovery of a strong infrared fluorescence. With crystals pulled from the melt, an optical maser was constructed that operates at room temperatures with as little as 5 joules of input power. The emission line is in the desirable (photographable) part of the infrared region.

The new model 5Mc-2P/R dual gun compact oscilloscope, a product of Packard Bell Electronics, P.O. Box 337, Newbury Park, Calif., weighs 22 lb and contains only two types of vacuum tubes. It has two identical vertical amplifiers, each with a bandpass of d-c to 5 Mc and a sensitivity of 100 mv to 100 v continually adjustable. A built-in preamplifier increases the sensitivity of the lower amplifier to 1 mv/cm. The sweep is from a Schmitt Trigger with both internal and external triggering

capabilities. Linearity of the sweep is 1% from a constant current, RC network. The price is \$570.00.



A developmental model of a communications satellite, scheduled for orbiting next spring, has been constructed at Bell Telephone Laboratories. Used for communications experiments, it is located in a specially constructed laboratory simulating the radio environment of space. Designed for relaying overseas communications, including television and telephone calls, the 34-in. sphere is covered with arrays of solar cells which convert sunlight into electricity. Microwave receiving and transmitting antennas form a belt around the middle of the satellite.

The Pixicam, Model EC1, self-contained television camera for closed-circuit use, produced by American Telecircuits Div., Marsan Industries, Inc., 49 Edison Place, Newark, N.J., uses a new 2-in. camera tube, called the Pixicon. The camera employs a 7-tube circuit, and is said to be capable of 400 lines of video resolution. In addition to providing output signals at both video and r-f channel frequencies, the camera is designed to add sound automatically to the picture from a standard microphone, tape recorder or record player. Any standard television set can be used to receive the pictures. It is priced at about \$399.50 including an $f/1.9$ lens.

Audimax — the automatic level control device to maximize audio coverage — has just been introduced by CBS Laboratories Div. of Columbia Broadcasting System, Inc., Stamford, Conn. Average broadcast modulation is said to be increased by 6 db with a corresponding increase of 300% in radiated program power. A unique feature is a central memory section which retains a 10-sec past history of program content, compares the instantaneous program signal with this past history, and then adjusts amplifier gain to the most advantageous level.

A 20-w uhf translator was introduced by Adler Electronics, Inc., One Lefevre Lane, New Rochelle, N.Y., at the National Association of Broadcasters Convention held during October in Washington, D.C. Specializing in the design and manufacture of educational TV equipment, the firm has announced the new translator as having twice the power of previously developed units.



A 2-head transistorized industrial videotape recorder has been announced by Sony Co., Ltd., 351 Kitashinagawa-6, Shinagawa-Ku, Tokyo, Japan. The equipment uses transistors and diodes and its physical dimensions (900 × 600 × 900mm) are said to be less than one-tenth those of existing broadcast-use equipment. A maximum of 740 meters of 2-in. tape can be accommodated at a speed of about 180mm per second, giving up to 67 minutes of recording time. The low tape speed is said to reduce wear on the heads. The tape can be stopped for single-frame observation, or

run in slow motion. Price is approximately 3,000,000 Yen.

A 2-in. magnetic tape developed for use with the VR-8000 closed-circuit Videotape recorder has been introduced by Ampex Corp., Redwood City, Calif. Because the closed-circuit recorder employs a single-head, helical-scan recording technique, the oxide particles on the tape are magnetically aligned lengthwise along the tape. The tape is spooled with the oxide part on the outside because of the closed-circuit recorder's requirements. Tape for the VR-1000 is spooled with the oxide on the inside. The longitudinal orientation of the oxide particles is accomplished by passing the tape through a magnetic field.

A compact tape recorder has been designed by Radio Corp. of America especially for classroom and other educational uses. Called the TR-11, the recorder occupies only 10 sq ft of floor space. It has been installed in a van by Station WHA-TV (University of Wisconsin) for on-the-spot recording of state-wide events, such as laboratory experiments, demonstrations, lectures, etc. The new recorder is also in use at Maxwell Air Force Base, Montgomery, Ala., as part of a closed-circuit TV system for the instruction of some 2000 Air Force officers grouped at 165 viewing locations. The machine uses 2-in. magnetic tape and can record up to 96 min. on a standard reel of tape. The new recorder is a simplified version of the RCA standard tape recorder for commercial broadcasters.



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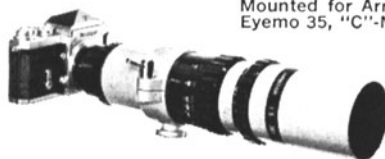
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Tapes made on either the TR-11 or the standard recorder are interchangeable.

A bandpass filter designed to provide pure sinusoidal reproduction of the fundamental input has been announced by CircuitDyne Corp., 480 Mermaid St., Laguna Beach, Calif. Called the FB-1, the retriever is said to provide 50 db minimum attenuation at and above the second harmonic of the input's lower band edge and the same attenuation at and below one-half the upper band edge. Band-edge response is held to within 2 db of center frequency and the output is reported to contain less than 1% harmonic distortion with second harmonics of up to three times the fundamental amplitude. Prices range from \$20.00 to \$60.00.

An 8mm color film balanced for photoflood illumination has been introduced by Ansco, a Division of General Aniline and Film Corp., Binghamton, N.Y. Called Moviechrome 8 Type A, the new film is designed especially for use under artificial lights. It can, however, be used under daylight conditions with an 85 (Type A) filter. Based on normal camera speed of 16 frames/sec, the exposure tables call for photoflood lamps or light bar in 300- or 375-w sizes. The colors in the new film are organic dyes tested for permanence and light fastness.

Hi-Impact Treatment FCP is the name of a new process developed by Peerless Film Processing Corp., 165 West 46 St., New

York 36, and 959 N. Seward St., Hollywood 38. This new treatment is reported to eliminate friction, and thus to prevent binding or jamming of continuous projection films, by holding apart the convolutions of the film. This process is designed to toughen the film so as to enable it to withstand repeated exposure to heat during projection without buckling and to make it resistant to dirt, scratches and brittleness.

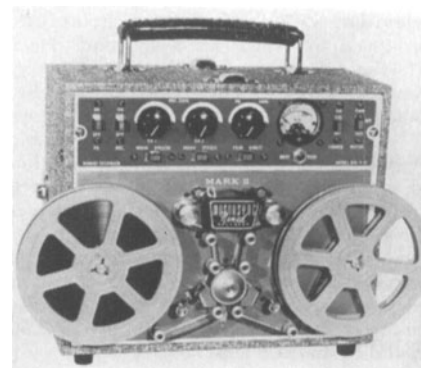


A wide-angle 70mm camera and a projector designed and manufactured by Benson-Lehner Corp., 1860 Franklin St., Santa Monica, Calif., will be used for the first time at the Century 21 Exposition Spacearium, in Seattle, Wash., beginning April 21, 1962. A 12-minute space voyage film produced by Cinerama will be projected onto a 75-ft diameter, 8000 sq ft hemi-

spherical screen designed to give the spectator the illusion of being within the environment of the film. The 70mm equipment is produced under contract with Cinerama. The camera is used with a wide-angle lens providing 160° field of vision in any plane. The Spacearium is sponsored jointly by Cinerama, the Boeing Co. and the U.S. Science Exhibit of the Department of Commerce.

A new shoulder support for mobile camera operation with the Arriflex 16 is announced by the Arriflex Corp. of America, 257 Park Ave. South, New York 10; and 826 North Cole Ave., Hollywood 38. It consists of an all-metal shoulder stock with pistol grip, usable with all models. The pistol grip is removable and, by means of a special counter-plate, may be used by itself on the Arriflex 16. The combination shoulder-pod pistol grip, available through all Arriflex dealers, sells for \$68.00.

A companion charging unit for the Dynamax Power Pack, a sintered-plate nickel cadmium storage battery, has been announced by Gordon Enterprises, 5362 No. Cahuenga Blvd., North Hollywood. The charger is said to re-energize a completely discharged battery overnight. The Power Pack, designed to supply from 6 to 24 v for motion-picture cameras and similar uses has a 6 to 10 amp/hr capacity and can be repeatedly recharged.



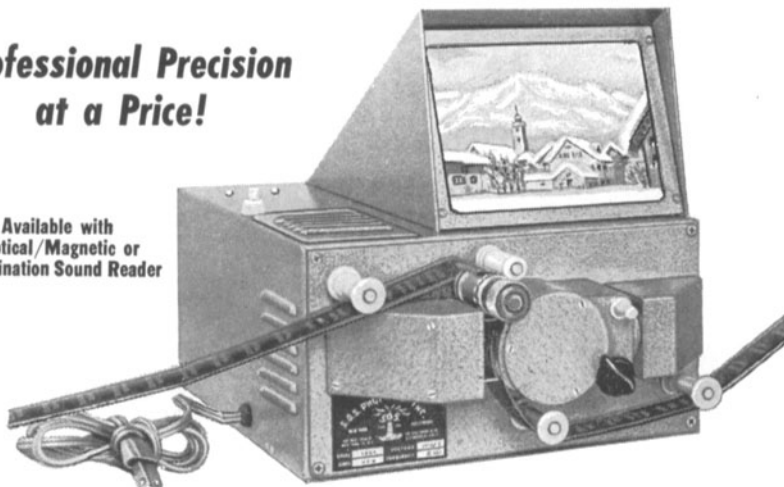
The Nomad Mark 2 is a new portable recorder/reproducer manufactured by Magnasync Corp., 5546 Satsuma Ave., North Hollywood, Calif. This transistorized equipment weighs 12 lb and operates with 20-w power. Other features include instantaneous "film direct" monitoring. Designed to produce at SMPTE Standards, the machine runs forward and reverse. It is equipped with a rewind, rechargeable battery and built-in battery charger. Projector interlocks are available. The unit records a 200-mil track on split 16mm Nomad film, 400-ft capacity. The standard model is priced at about \$985.00. Stereo models are available.

New sound and heater Barney's for the Eastman Kodak reflex camera have been announced by Birns & Sawyer Cine Equipment Co., 6424 Santa Monica Blvd., Hollywood 38. The sound Barney for the 400-ft load camera with synchronous motor is priced at \$124.50. Price of the heater Barney for the same camera is

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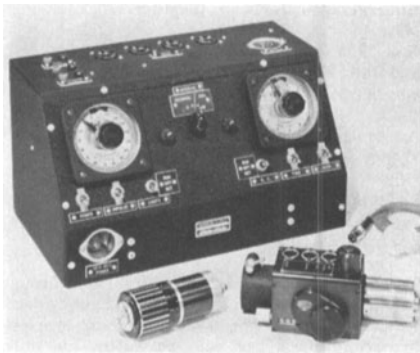
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\$184.00. The sound barney has a velcro-closure, located on the righthand side, which opens so that the operator has access to the camera controls.



A series of Master Intervalometers (available in four different models) for use with Arriflex cameras has been announced by the Arriflex Corp. of America, 257 Park Ave. South, New York 10. The equipment is designed to give framing rates adjustable from 1 sec to 25 min or, on special order, as long as 10 hr. Automatic exposure times of 1/10, 3/10 or 9/10 sec, or 1/4 or 1/2 sec are obtained directly from the standard single-frame drives. Two models of the Master Intervalometer, when used with specially adapted single-frame drives, will, in addition, provide adjustable time exposures. Time exposures may be set from 1 sec to 10 sec and, on special order, may be as long as 60 sec. All models automatically control lights and 115-v a-c auxiliary equipment up to a total of 1500 w. Two models have a built-in 8-v d-c supply also. The four models range in price from \$425.00 to \$710.00.

A complete line of transistorized audio/PA amplifiers has been announced by Continental Manufacturing, Inc., 1612 California St., Omaha, Neb. The Model LT-80, an 8-w continuous duty amplifier, is the first of the series to be available. It is specially designed for background music and public address applications. The Model LT-300, a 32-w transistorized amplifier, will be available shortly.

A solid state voltage reference device called the PR1 has been announced by Circuit-Dyne Corp., 480 Mermaid St., Laguna Beach, Calif. Features include isolation from line voltages in the order of 100 db. Each unit is packaged in an hermetically sealed container, 2 in. high and 1 1/4 in. in diameter. Output voltages for each unit are calibrated and stamped on the case. Price range is from \$30 to \$130.

A new form of crystal growth of silicon which may have important implications for semiconductor devices has been reported by Bell Telephone Laboratories, Murray Hill, N.J. In the process, silicon is reacted with iodine and hydrogen, together with small amounts of arsenic and nickel, at high temperatures in a closed tube. The ribbons, with silicon whiskers of a hexagonal cross-section, grow rapidly in the hot tube. They vary from 0.1 to 15 microns in thickness, are about 0.1 mm wide, and from 1 to 3 cm long.

employment service

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Cameraman—Optical Printing Specialist. Long experience Hollywood studios and East Coast laboratories; own bench optical printer assembled with Acme camera (35) and projector (35 & 16) printing Eastman Ektar, 1000-ft bi-pack for masters, plus all accessories, cost \$18,000. Seek association with producer or laboratory including equipment at nominal fee or will sell machine at less than half original cost. Last 8 yrs chief optical printing at Consolidated Film Industries, Fort Lee. Will relocate. W. G. Heckler, 21 West 58 St., New York 19. PL 3-7067.

Audio-Visual Specialist. Extensive communications background: motion pictures, radio, audio-visual techniques. Over 5 yrs experience in motion-picture production and direction, script writing, editing and industrial audio-visual department administration. Secondary experience as radio news, script and continuity writer and in editing and writing of technical reports, proposals and brochures. Age 29, married, B.S., M.S. in Audio-Visual Communications. Willing to relocate. Resume on request. P.O. Box 502, Stamford, Conn.

Positions Available

Electronic Engineer. To supervise Sound Maintenance Dept. of large modern motion-picture studio. At least 5 yrs professional experience in sound recording essential. Thorough knowledge of solid state and tube audio circuits, magnetic and optical sound recording systems, sensitometry and transmission measurement techniques required. Must have ability to do independent design work on special projects. Administrative experience desirable. Excellent working conditions in suburban Montreal. Send resume, with academic background, to: Personnel Dept., National Film Board of Canada, P.O. Box 6100, Montreal, Que., Canada.

Photographer with broad experience in high-speed cinematography. Must be familiar with 16mm Eastman High-Speed Camera, Arriflex and Cine Special. Knowledge of time-lapse, standard motion-picture and still photography techniques also desirable. Training and experience will determine starting salary in \$6000 to \$9000 range with excellent growth opportunities in growing in-plant department. All replies confidential. Send resume to: Photography Dept., Corning Glass Works, Corning, N.Y.

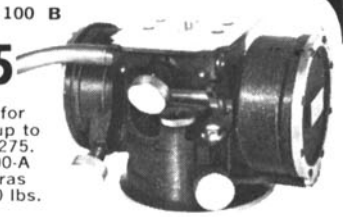
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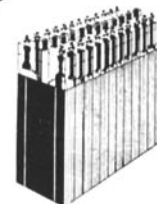
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