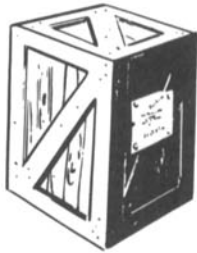
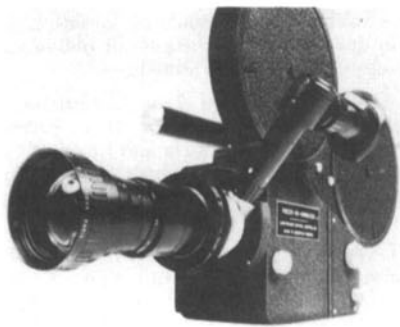


# new products

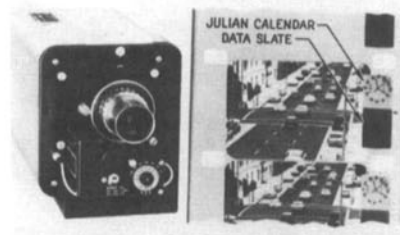
(and developments)



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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 no responsible for manufacturers' statements, and publication of these items does not constitute endorsement of the products or services.



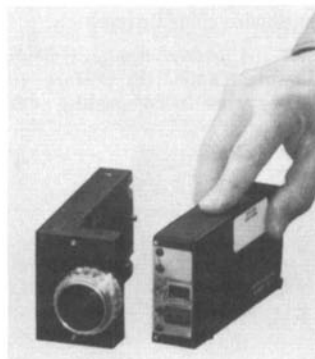
**Model LW-1**, a new lightweight (12½ lb) professional 16mm TV news sound/cordless motion-picture camera, has been announced by Frezzolini Electronics Inc., 7 Valley St., Hawthorne, NJ 07506. The camera has a Bach Auricon movement and a crystal-controlled dc Frezzi-Cordless internal camera drive system. It is balanced for handheld filming without use of a brace and can be used with either single- or double-system sound. The camera is supplied with an Angenieux 12-120mm zoom lens and V-30 1-in finder with TV reticle. It is accurate to dead sync for 1200 ft of 16mm. Running time is 2 h or 12 400-ft magazines per charge from quick-change 12-V plug-in internal battery. The camera can be purchased separately at a price of \$3,800 or as part of a TV Newsfilm Package including magnetic head and recording amplifier, portable Frezz-Lites, and other accessories, at a price of \$7,000.



**The Photo-Sonics 16mm-1P** data recording pulse camera has been announced by Instrumentation Marketing Corp., 820 South Mariposa St., Burbank, CA 91506. The camera operates in pulse mode up to 10 pulses/s and in cine at 15 to 100 frames/s. Applications include time-lapse

in traffic engineering, biomedical, microscopic and environmental studies, etc. The basic unit consists of the camera body and a data box. A Julian calendar and data slate allow identification of each frame, by day of year, down to the second, automatically, plus manual handwritten data. Optional equipment includes 200-, 400- and 1200-ft daylight-load magazines, Apex automatic exposure control, selection of Schneider lenses and others. The basic unit is priced at \$3,875.

**A synchronous phase lock 16mm camera**, a modification of the Photo-Sonics 16mm-1P intermittent pin-registered camera (*Journal*, p. 168, Feb. 1970) has been announced by Instrumentation Marketing Corp., 820 S. Mariposa St., Burbank, CA 91506. Daylight loading magazines holding 200-, 400- or 1200-ft films can be interchanged in a few seconds. The shutter is synchronized to an external signal and can also be phased. Operation is from 7½ to 120 frames/s. Applications include industrial and medical cine x-ray photography and recording of video CRT displays. The camera is priced at \$3,425 including the 200-ft magazine.



**The Photo-Sonics 16mm-1VN** miniature high-speed camera has been announced by Instrumentation Marketing Corp., 820 South Mariposa St., Burbank, CA 91506. Speeds are from 16 to 200 frames/s and pulse to 15 pulses/s. Features include intermittent pin-registration, daylight load 65-, 100- and 200-ft magazines that can be interchanged in seconds. The film transport has two register and two pulldown pins. The operating voltage is 28 V dc, 1.6 A at 200 frames/s. The heater requires 28 V dc. The shutter is 120°. Interchangeable fixed shutters 9° to 72° are optional. Price of the camera with 65-ft magazine is \$2,490.

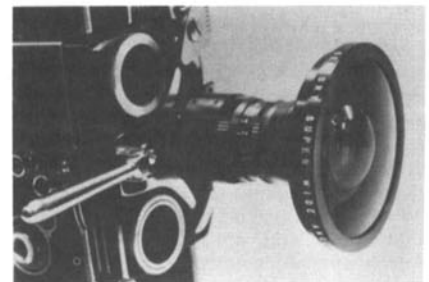
**The Cine-8, Model SP-1**, a super-8 high-speed/pulse camera, has been announced by Visual Instrumentation Corp., 239 W. Olive Ave., Burbank, CA 91502. Model SP-1 reported as "the first instrumentation camera designed expressly for super-8 film," has a pin-registered, intermittent film movement. The camera has continuously variable speeds from 10 to 250 frames/s. It utilizes standard super-8 film cassettes and "C" mount lenses. The price is \$1,200. Also available is the SP-1P super-8 pulse camera with speeds from 0 to 20 frames/s. It is priced at \$1,338.

**The Angenieux 9.5-57mm f/1.6** zoom lens has been announced by Hervic Corp./Cinema Beaulieu, 14225 Ventura Blvd., Sher-

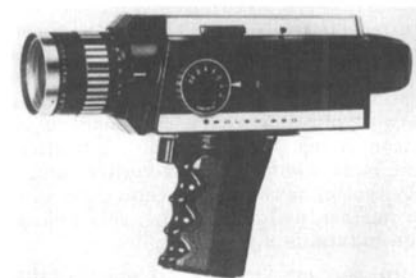
man Oaks, CA 91403. The lens weighs 29 oz and has an overall diameter of 2.68 in. Total length measured from the image plane is 7½ in. Total angular rotation is (1) focus, 182°; (2) zoom, 148°; (3) iris, 118°. Maximum image field is 0.5 in. The lens is priced at \$1,395.



**Four viewfinders** have been announced by Angenieux Corp. of America, 440 Merrick Rd., Oceanside, NY 11572, the AZO (10 in), AVC (7½ in), CVIII (3½ in) and V30 (1 in). The CVIII and the V30 have been designed especially for shoulder-held cameras which require the eyepiece to be located near the film plane in order to balance the camera properly on the shoulder. The eyepiece has been offset from the axis of the lens by about 4½ in permitting the eyepiece to be placed in a wider selection of positions than previously possible. The two shorter viewfinders may be interchanged with the 7½- and 10-in units on existing lenses.



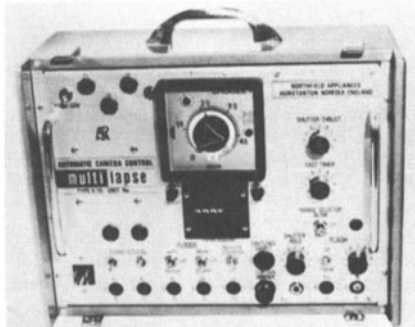
**A new 3.5mm f/1.8 super-wide-angle lens** for 16mm motion-picture cameras has been announced by Century Precision Cine/Optics, 10661 Burbank Blvd., North Hollywood, CA 91601. The lens covers an angle of 165° and covers a full 16mm frame without vignetting. It has 14 lens elements. The length is 3½ in and the diameter is 3¼ in. It weighs 12 oz. The price is \$495.



**The Bolex 280S Macrozoom**, a super-8 camera combining an 8:1 zooming range with macro-filming capacity, has been redesigned to accept all films with a sensitivity range of 25 to 160 ASA, it was announced by Paillard Inc., 1900 Lower Rd.,

Linden, NJ 07036. The camera provides continuous focusing from infinity to the point where the  $f/1.8$  7-56mm lens touches the subject. The zooming is done either manually or electrically. The electric power zoom has both a fast and a slow speed. The camera has only one power source, five 1.5-V power cells, for the drive motor, the power zoom motor and for the exposure meter. The exposure meter automatically operates through-the-lens with warning signals in the finder when the light is too strong or too weak. The camera weighs 3 lb 5 oz. It is priced at \$349.50.

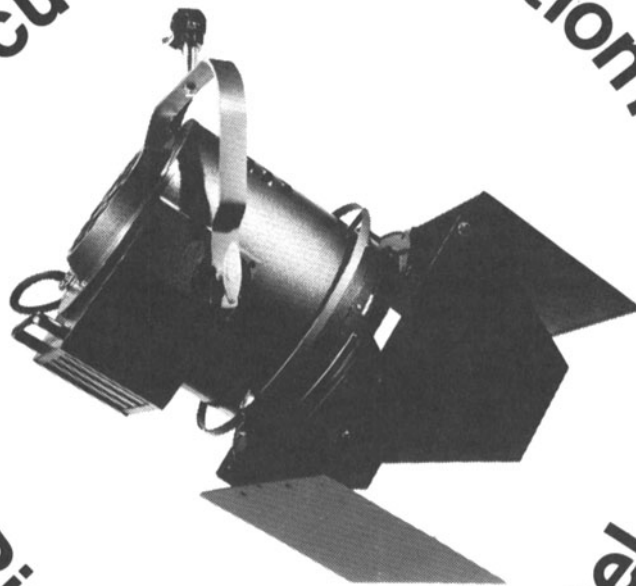
**The Jensen Model 505** Multisync crystal sync control for Arriflex BL cameras is now available in the United States, according to an announcement by Image Devices Inc., 811 Northwest 111 St., Miami, FL 33168. The device clips directly to the Arriflex BL motor housing cover, requiring no tools and utilizing existing cables and batteries. The unit is pre-wired for radio slating. It weighs 12 oz. Model 505 has a variable speed range from 10 to 50 frames/s and an accuracy better than 1/6 frame per 400 ft of running film (10 parts per million). Provisions are included for external sync reference so that equipment can be slaved from any pilot source, and an automatic out-of-sync safety stop (having a manual override) warns against loss of synchronization for any external reason without interfering with sound recording or requiring visual observation of "red light." The Multisync 505 is priced at \$750.



**The Hervic/Multilapse** automatic control unit for professional time lapse photography has been announced by Hervic Corp./Cinema Beaulieu, 14225 Ventura Blvd., Sherman Oaks, CA 91403. The unit has been designed to control the camera, flood lamps and electronic flash at any selected time interval from 4 frames/s to one frame every 24 hours. The unit can control most makes of motion-picture or motorized still cameras, the only connection being the cable release from the shutter release solenoid. Features include a built-in hold circuit, which allows the camera to expose up to 12 or more frames per cycle, and a release thrust control which varies from minimum to full power the thrust or power of the shutter release. The control unit has a slow timer, i.e., a six-stage timer which gives intervals of  $1\frac{1}{2}$  s up to 45 h, and a fast timer, which gives fast times of up to 4 or 5 frames/s and down to 1 frame/ $1\frac{1}{2}$  s. The unit is priced at \$1,595.

**A new Hervic tripod** has been announced by Hervic Corp./Cinema Beaulieu, 14225

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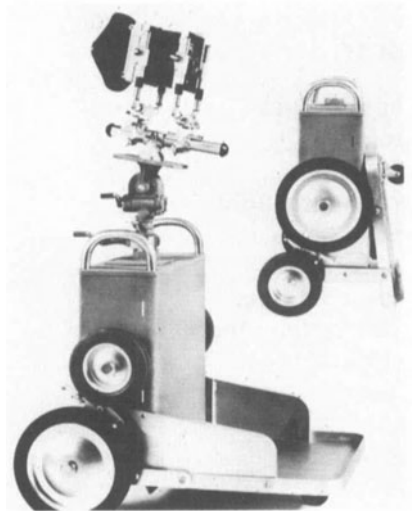
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Ventura Blvd., Sherman Oaks, CA 91403. The tripod is compact and light weight (11 lb). It is intended especially for the 16mm field cinematographer. A built-in bubble-level indicator permits positioning the tripod on rough terrain. Features include an integral ball head, a 360° pan head with drag lock and a sliding chain tension device for maximum rigidity of the tripod legs. The tripod measures 6 by 36 in when closed and it extends to 64 in. The price is \$199.95.

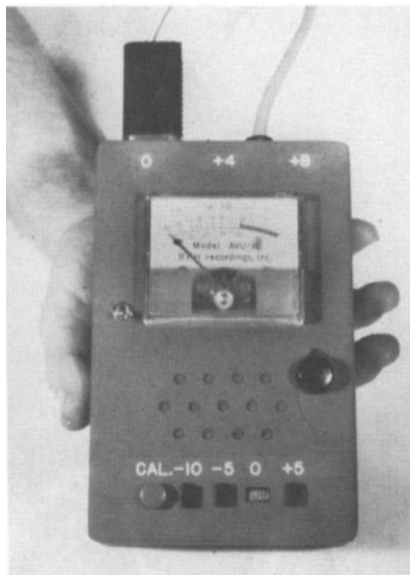


**The Timefram Time-Lapse System**, consisting of an interval timer and an ac-dc power supply unit, has been announced by Photographic Sciences Corp., 23 West Main St., Webster, NY 14580. The interval timer allows time-lapse exposures at infinitely variable rates from 2 frames/s to 1 frame every 50 min. The power supply unit includes a power supply battery with a charge life of 4 to 8 h, a built-in battery recharger, an ac power cord, house light and photo light control and a special cable release. The unit can be used with most 8mm, super-8, 16mm or 35mm cameras. The price is \$199.95.



**The Camera Caddy**, a camera stand and equipment carrier has been announced by Mobile Equipment Manufacturing, 3937 E. Hastings St., Vancouver, B.C., Can. The carrier is a self-contained unit with quick-change wheels for outside to inside location. Positive wheel locks permit it to be used as a camera stand. Features include a geared swing-tilt head and a detachable geared elevator column that can adapt to a tripod or stepladder for high angle shots. The Camera Caddy is priced at \$495.

**Vidichrome videotape** for 1-in helical recordings has been announced by Memorex Corp., San Tomas at Central Expwy., Santa Clara, CA 95052. The tape offers substantial noise resistance and a low dropout rate (reported at less than 10/min on an Ampex VR 5100). The tape has a signal-to-noise ratio of over 42 dB. A special binder formula provides resistance to heat and humidity and also reduces head wear and cinching. The tape is back-coated to reduce the possibility of static charge build-up which attracts foreign particles and causes dropouts. Capable of recording both color and black-and-white values, Vidichrome is available in lengths of 1500 ft (½ h) and 3000 ft (1 h).



**The AVU-11 Audible VU Meter**, primarily designed for use by the blind, has been announced by BPH Recordings, Inc., Box 9975, Chevy Chase, MD 20015. Although designed especially for use by the blind and visually handicapped persons in broadcasting, recording and telecommunication industries, the AVU-11 can also be used in applications where a standard VU or dB meter is employed to set or measure audio signal levels. The instrument provides audible tones at precise levels for monitoring purposes. The level is determined by position of the pushbutton range switch and by listening for tones at the program peaks. The unit is normally calibrated with a 4 dB "window" centered at each of four audio levels (-10, -5, 0 and +5 VU). For example, with the Zero VU button depressed, a tone (about 600 Hz) will be heard when the audio peak is in the range -2 to +2 VU. Below -2 VU the unit is silent and above +2 VU the unit emits a second tone (about 1200 Hz). The two tones distinguish level below and level above the selected range switch position. A normal level is indicated where the VU button is depressed and occasionally a single 600 Hz tone which means that the level is reaching 0 VU ( $\pm 2$  dB) but not exceeding this level. Audio quality of the program material may be monitored by listening to a source not included with the AVU-11. A range of input jacks is provided with each unit for various levels, together with an interlocked pushbutton ganged

switch to determine abnormal or special levels. The AVU-11 is priced at \$600.

**The Cinema Noise Reduction Unit**, Model 364, for use during film exhibition, has been announced by Dolby Laboratories Inc., 1133 Ave. of the Americas, New York, NY 10036. The system has been designed to reduce background noise of all kinds without affecting the integrity of the original signal. Designed for projection-room use, the unit contains a specially designed dynamic "clean-up" circuit for use with worn or noisy prints. It eliminates the need for external filters since it contains electrical reproducing characteristics for all optical and magnetic soundtracks, selected instantly by pushbuttons. Price range for Model 364 will be between \$750 and \$1000.

**The Catel SM-2200 Stereo Generator** and the FMX-2100 FM Modulator have been combined in a module-designed stereo transmission system to provide a solid-state origination system for cable FM in both CATV and closed-circuit systems, it was announced by Catel Div. of United Scientific Corp., 1030 W. Evelyn, Sunnyvale, CA 94086. The SM-2200 Stereo Generator provides a subcarrier oscillator, balanced modulator and channel amplifier to produce a left-right double sideband suppressed carrier signal together with the left-plus-right signal and the 19 kHz pilot signal. The unit's output is a multiplexed audio signal compatible with off-air monaural and stereo signals.

The FMX-2100 FM modulator is an FM crystal-controlled cable transmitter designed to operate on a customer-selected frequency in the FM band, making possible the origination of monaural programming from AM/FM tuners, tape decks, shortwave receivers and microphone preamplifiers. The SM2200-FMX-2100 Stereo Transmission System is priced at \$995.

**The new CA series** of audio amplifiers has been announced by Quad-Eight Electronics, 11929 Vose St., North Hollywood, CA 91605. The components are on 2¼" × 7-in printed circuit cards. The first three cards of the series are the CA 127, 227 and 272. The 127 is an operational amplifier input with +30 dBm transformer output and unity to 40 dB amplification. It may be used as a booster amplifier, utility amplifier and (with the CB28 accessory, a 28-input resistive combining network) has an active combining network. The 127 is priced at \$79 and the CB28 is priced at \$10.

The CA 227 is a transformer input and output (+30 dBm) with 30 to 56 dB amplification. It may be used as a microphone preamp, line amp and booster amp. It is priced at \$98.

The 272 consists of dual amplifiers, operational amplifier inputs, single-ended outputs (+24 dBm) and may be used as utility and mixing amplifiers. The price is \$74.

**A 7-in Reel Cover/Enclosure Conversion** for Nagra Tape Recorders has been announced by Stutz Design, Sound Div., 5707 Cahuenga Blvd., North Hollywood, CA 91601. The accessory, in kit form, is

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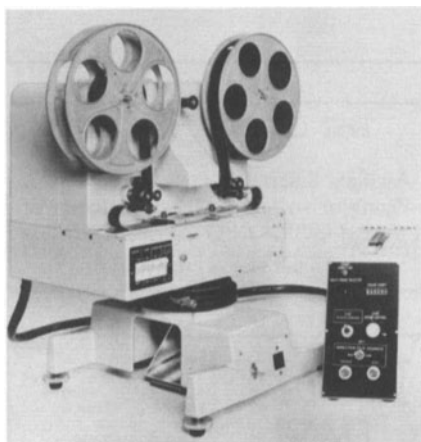
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available for Nagra models III and IV. The kit includes a clear plexiglass cover, a wraparound aluminum bracket with rubber dust seal, hinge, spacers and all necessary hardware. The kit can be installed without any drilling of holes or other modification of the Nagra. The price is \$175.

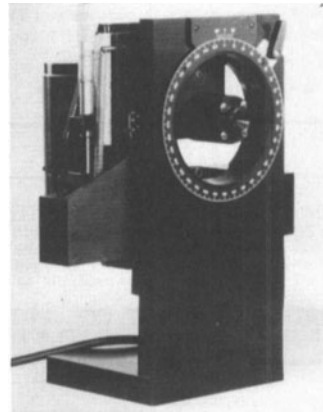


A 35mm motion analysis projector, Model M-35CF/S-1, manufactured by Vanguard Instrument Corp., has been announced by the exclusive distributors, Instrumentation Marketing Corp., 820 South Mariposa St., Burbank, CA 91506. Features include flicker-free projection from less than 1 frame/s to 25 frames/s, variable forward or reverse. It has a 1200-ft capacity. A frame counter adds, subtracts, has a pushbutton reset and a high-speed rewind. A first-surface mirror directs light horizontally. The head turns so that a projected image can be rotated 360° or locked in any position. The projector can be used for qualitative presentation for analyzing such films as cine x-ray or cine-fluorographic, instrumentation, etc. The price is \$6,130.

A take-up and rewind unit with a specially designed motor drive permitting a 2000-ft rewind of 8mm film in 80 s has been announced by Cal Film Equipment Co., P.O. Box 38733, Hollywood, CA 90038. The feeder and take-up reels are separate from and need not be fastened to the projector. When the projector is positioned between the two reels, immediate operation is possible without further installation. With a 16mm projector and 5000-ft reels, the complete rewind takes only 3¼ min. The unit is priced at \$450.

The Xenographic Model 500, a portable, high-intensity slide projection system, has been announced by Optical Radiation Corp., 6352 N. Irwindale Ave., Azusa, CA 91702. It is capable of projecting 4000 lm. The system consists of a Kodak Ektagraphics AV 433 Arc Slide Projector module, a specially designed high-intensity lamp-house, upon which the projector is mounted, and a separate compact power supply. When the projector and lamp-house are positioned on top of the power supply, the entire system occupies an area 12 in wide, 21 in deep and 15 in high. The system does not require permanent installation or special ventilation. It operates from a 115-V ac power source. The lamp-house contains a high-intensity, ozone-free lamp module consisting of a non-color sensitive metal reflector and bulb sealed in a metal safety housing with a life of 1500 h.

It is factory-focused for maximum light output and does not need alignment. A single six-position selector switch on the rear of the unit turns on the system fan, energizes the bulb and places the system in manual or any one of three automatic timer modes. Slides can be projected either forward or reverse from the projector, or remotely from a handheld remote control unit. The projector accepts Kodak Carousel slide magazines for projecting 126, 135 or 30.7 × 30.7mm slides in a 2- × 2-in mount. The Xenographic 500 is priced at \$1,645.



A motorized photomultiplier scanner, Model 2080A, a flexible, general purpose scanning mechanism used to convert a stationary light distribution into a time-varying electrical signal, has been announced by Data Optics, Inc., 115 Holmes Rd., Ypsilanti, MI 48197. The scanner includes a pinhole sampling aperture, a microscope focusing tube with optics and a photomultiplier detector. In operation, the pinhole is scanned across a stationary light distribution, producing a time-varying signal at the photomultiplier output lead which is proportional to the light distribution being scanned. The photomultiplier output is generally applied to a chart recorder to produce permanent records of the light distribution. Model 2080A is designed to operate at a nominal center line of 10 in above the working surface, but is adjustable to ±1 in by means of micrometer adjustment. The maximum scan length is 3 in and the scanning speed is adjustable in six discrete steps over a range of 50 to 1. The scan direction is adjustable over an angular range of 360° thus permitting scanning at any angle between and including horizontal and vertical. Model 2080A is priced at \$2,697.

The Vari-flector in an improved version has been announced by Lowel-Light Photo Engineering, 421 W. 54 St., New York, NY 10019. Called the Vari-flector II, Model 404, the unit has a new side-channel mechanism so that the reflector sheet can be more easily inserted. The sidechannels grip the sheet and the entire reflector assembly is held fast by a new crossbar locking lever, increasing structural integrity. The unit has been designed mainly as a sunlight reflector. Model 404 measures 42 by 27 in. It is priced at \$80. Together with the stand and case it is priced at \$175. A smaller unit, Model 202, measuring 24 by 18 in is available together with the case at a price of \$75. The price does not include the stand.