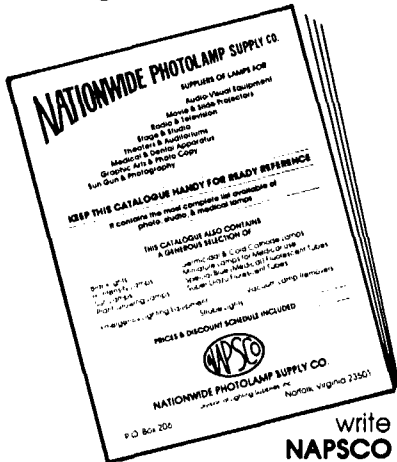


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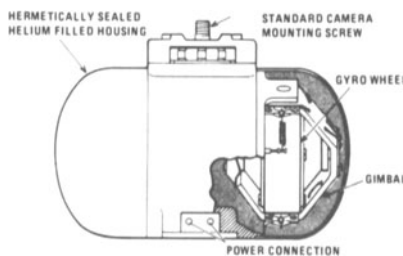
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# New Products & Developments



A new super-8 sound camera, the Bolex 5122, has been announced by the Photo Products Division of Ehrenreich Photo-Optical Industries, Inc., 101 Crossways Park West, Woodbury, NY 11797. The camera has a 6-72mm *f*/1.8 zoom lens with capability for shooting wide-angle panoramas such as scenic shots or working in crowds at news events. In addition to normal focusing extending from 5 ft to infinity, the lens also has macrofocusing for extreme magnification at working distances so close that the subject may actually touch the front lens element. The lens may be operated by hand or by a variable speed power zoom. The automatic exposure control is based on a CdS cell with through-the-lens light metering. The camera has three operating speeds — sound film at 18 and 24 frames/s and slow-motion filming at 36 frames/s. Features also include single-frame and time-sequence filming. Single-frame filming enables the moviemakers to shoot one or more frames at will. Sequential filming by means of the built-in timer enables the moviemaker to adjust the interval between exposures from 1 to 60 s. The Bolex 5122 is priced at \$700. The price includes an omnidirectional microphone with a wind screen and 15 ft of cable. A distinctive-directional boom microphone which can be mounted on top of the camera is available as an accessory.



Kenyon Gyro Stabilizer systems, designed for use on any handheld optical device to remove tremors damaging to target identification and photographic detail sharpness, have been announced by Ken-Lab, Inc., Old Lyme, CT 06371. Twin rate gyros mounted on crossed axes sense these motions and dynamically resist displacement through gyroscopic precession. The gyros operate in a low vacuum helium atmosphere within an hermetically sealed casing providing (1) protection from hostile environment, (2) motor heat conduction to the surface,

and (3) reduction of aerodynamic drag of the gyro wheel to attain 20,000 r/min.

Special brushless alternating current motors, designed for continuous maintenance-free operation, produce no electrical noise to interfere with electronic equipment. Various models are available. The Commander KS6, designed to handle the most difficult assignments, is said to provide steady sequences with smooth panning from helicopters or other moving vehicles. It can be attached to motion-picture or television cameras. The price is \$1278.

The Explorer KS2 adds stability to the optical systems of devices up to 5 lb. A special inverter is incorporated to provide a system that can operate from any 12-V dc source. The price is \$540.

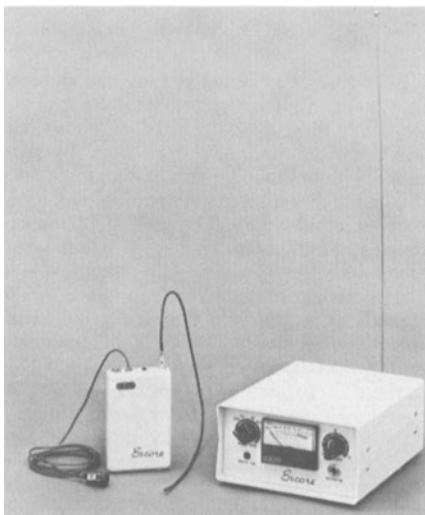


The Photo-Sonics Model 80 automatic film reader has been announced by Instrumentation Marketing Corp., 820 South Mariposa St., Burbank, CA 91506. The system accepts 16mm, 35mm and 70mm film. It can track electronically specific targets and can identify and read any discrete data matrix and fiducial markings anywhere on the film in any format. Manual intervention is convenient on non cooperative targets. The image is clear and bright and can project to the screen 200-line pair per millimeter at 40X magnification. The film reader is priced at \$400,000.



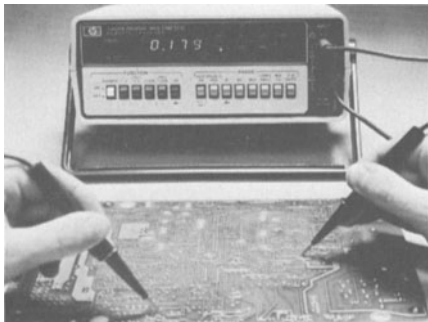
The Arriflex 16-SR has been combined with the compact Nagra SNN to produce a one-man camera and sync recorder package, according to an announcement from Victor Duncan, Inc., 2659 Fondren, Dallas, TX 75206. The unit allows a one-man film crew to produce double system sound. The unit, called the Nagra Caddy, permits all functions to operate from the camera trigger. The Nagra Caddy can be readily detached from the camera if it is not needed.

Conversely the recorder may be used as an independent "wild-sound" recorder while on or off the camera. When the camera and recorder work together the Nagra Caddy conversion contains electronics to bring both the camera and the recorder up to speed simultaneously. An automatic start mark is provided to the film while the tape is "blooped." A 30-Hz crystal oscillator is supplied to make both the camera and recorder crystal accurate. The Nagra Caddy is priced at \$1200 as an original installation. As a retrofit to an existing camera the price is \$1800. The price does not include the SN recorder. Accessories are available to support a microphone and condenser preamplifier.



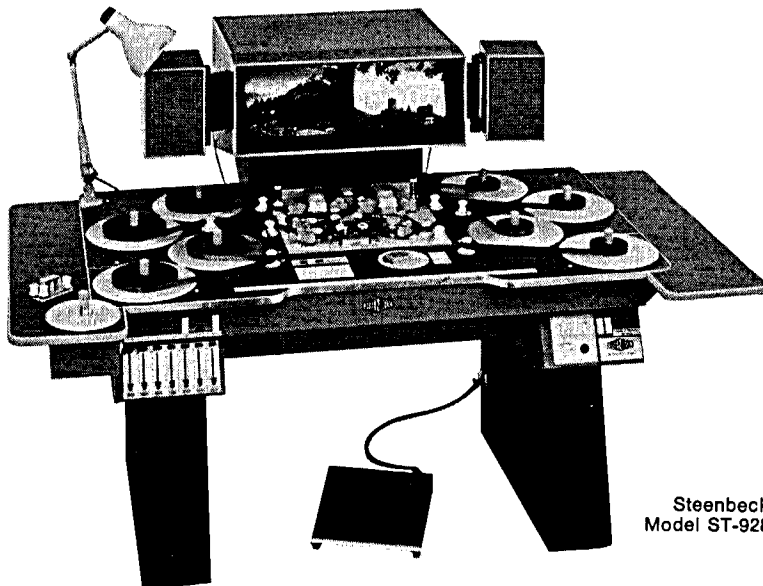
A wireless microphone transmitter/receiver, the Encore Pro-1/3 system, has been announced by Edcor, 3030 Red Hill, Costa Mesa, CA 92626. The system is of the VHF high-band type. It has two selectable RF power levels and an adjustable non-clipping compressor. The soft compressor provides natural sound with a wide dynamic range. Any electret or dynamic microphone can be used with the system. The transmitter requires one standard 9-V alkaline battery. The receiver has a calibrated meter for VU, RF and battery condition. The Encore Pro-1/3 system is priced at \$1614.

A 4 1/2-digit, five-function autoranging digital multimeter, Model 3466A, has been announced by Hewlett-Packard, 1501 Page Mill Rd., Palo Alto, CA 94304. The instrument measures dc from 1 mV to 12 kV full scale with a mid-range accuracy of  $\pm 0.03\%$  of reading + 1 count. The true rms ac measurement range is 200 mV to 1200 V with 10  $\mu$ V sensitivity and a mid-range accuracy of  $\pm 0.3\%$  of reading + 20 counts over a 20 Hz to 100 kHz bandwidth. Wideband, true rms ac voltage and current measurements may



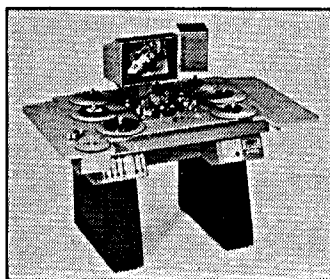
be made using either ac or dc coupling; ac coupling eliminates any dc component. However, in the case of a badly distorted waveform where it

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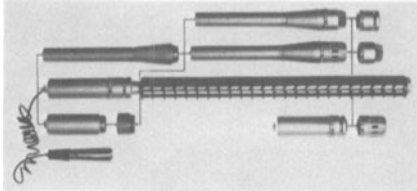
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becomes necessary to measure true rms ac plus dc, dc coupling can be selected. The current range for ac and dc is from 10 ns to 2 A. Current accuracy for dc in all ranges except the 2 A range is  $\pm 0.15\%$  of reading + 2 counts. The ac current value constitutes a true-rms measurement over a frequency band of 50 Hz to 10 kHz with an accuracy of  $\pm 0.9\%$  of reading + 35 counts on all ranges except the 2 A range.

A new diode test measurement capability measures forward drop across diode junctions. The display shows the voltage drop across the diode junction in the forward direction. The user can measure germanium, silicon, light-emitting and Schottky diodes in volts even though the instrument is in the ohms function. Price of the 3466A is \$650.



System C, a modular professional microphone system, has been announced by Electro-Voice, Inc., 600 Cecil St., Buchanan, MI 49107. The system consists of a number of elements which can be interchanged to fit specific applications. Elements in the system include two electronic preamplifiers — one for handheld applications and one for boom use. The boom preamplifier operates from either phantom or AB remote power. Four interchangeable capsules are available — omnidirectional, cardioid, hypercardioid and Cardiline® shotgun. Prices for the

system range from about \$633.60 to about \$234. A number of accessories including windscreens and shockmounts are also available.

Electro-Voice also announced a professional condenser tie — clasp microphone, the CO90, having a diameter of  $\frac{3}{8}$  in and a length of  $\frac{7}{8}$  in. The CO90 is supplied with a tie bar mount, windscreen, storage pouch and a 6-ft cable that connects the microphone to its belt-clip battery/transformer housing. It is priced at about \$111. A repair kit, the CO9R, is priced at \$18. A similar model, the CO90E, can be powered directly from wireless transmitters. It is priced at about \$75.



An add-on tape noise reduction system for Nagra IV-S portable stereo recorders has been announced by dbx, Inc., 71 Chapel St., Newton, MA 02195. Designated the dbx 193, the unit requires no power supply of its own. It provides two channels of simultaneous noise reduction as well as a two-channel audio amplifier that can be used to drive small field monitor speakers. It weighs 5 lb. Four separate signal-processing circuits, two for record and two for playback, permit the noise reduced normalized signal to be monitored while recording. The system uses a mirror image 2:1/1:2 compression/expansion circuit, linear in decibels over a 100-dB dynamic range. No level matching is required for accurate record/playback tracking. RMS level sensors eliminate compressor/expander tracking errors due to phase changes added by the re-

recorder. The dbx 193 provides the Nagra with an additional 10 dB headroom and in excess of 30 dB noise reduction. It bolts directly to tapped holes in the Nagra case, using hardware supplied. Price of the dbx 193 is \$850.



A pitch correction system has been announced by Twenty-Fourth Frame, P.O. Box 2167, Christiansburg, VA 24073, for its 35mm and 16mm editing machines. High-pitched noises resulting from running sound at high speed and the deep sounds characteristic of low speeds have been largely eliminated. From 0.5 to 2.5 times sound speed (12 to 60 frames/s) the pitch remains normal.

The drive and take-up systems of the firm's flatbeds are engineered to be gentle on film at all speeds from inching to 210 ft/min. In high-speed rewind, the take-up plates can rewind 1200 ft of film in 55 s. In addition to sync capabilities the consoles have a limited ability to drive film in opposite directions simultaneously. All machines are of a 2-picture, 3-sound, 8-plate configuration with reach limited to 17 in at the middle picture gate and 26 $\frac{1}{4}$  in at the rear gate. 35mm consoles are priced at \$9500; 16mm machines at \$7600. Pitch correction systems can be added to either machine for \$400.

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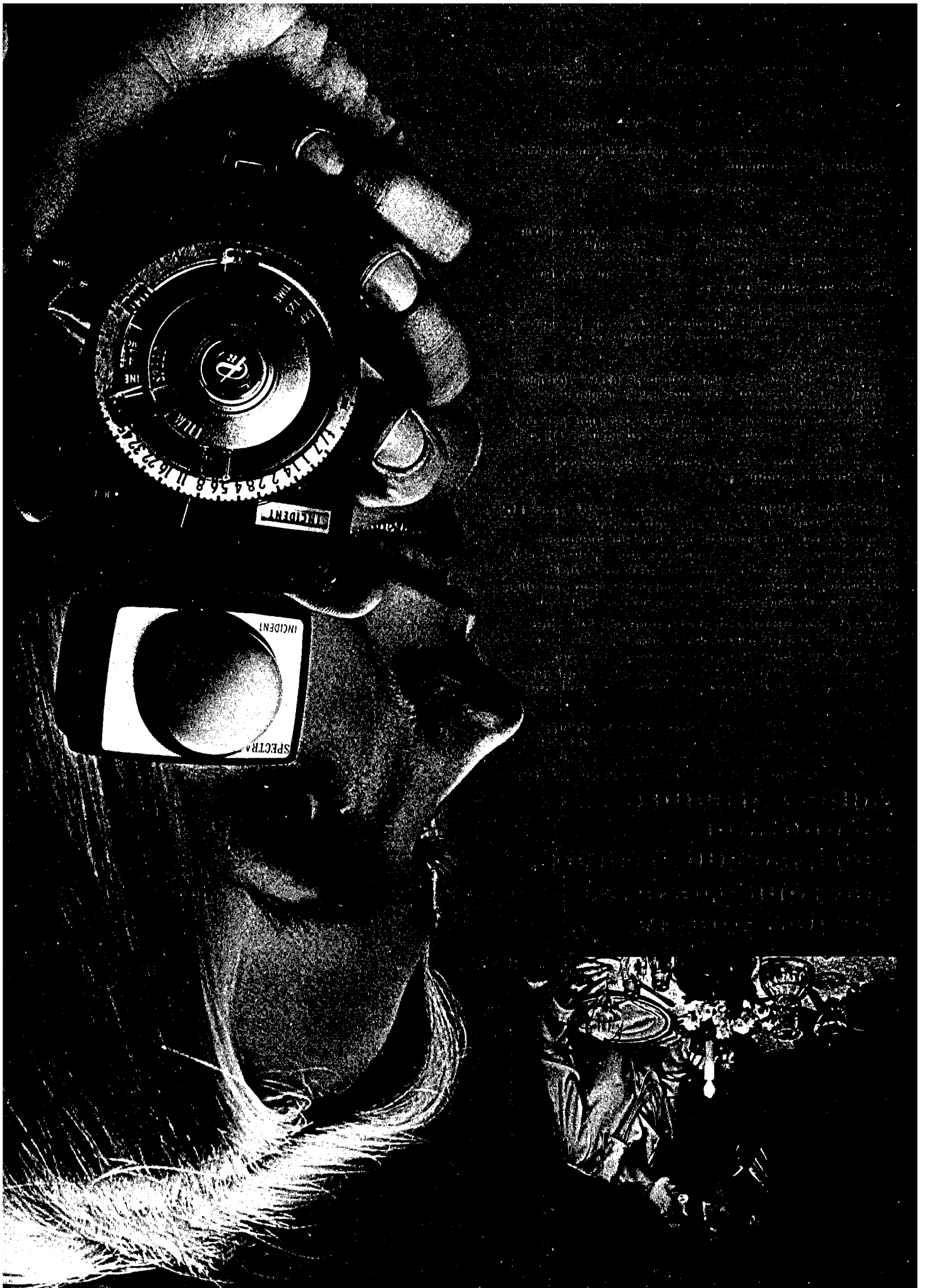
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The Vu-Graph® II, an overhead projector designed for use in classrooms, lecture halls, etc., has been announced by Charles Beseler Co., 8 Fernwood Rd., Florham Park, NJ 07102. The projector was designed around the ENX-style lamp, described as "power-conservative." A 360-W quartz halogen dichroic reflector lamp is said to consume less power and to provide a cooler stage temperature than conventional projector lamps. At a normal brightness setting of 2000 lm, typical lamp life is about 160 h. A light control switch permits high brightness for



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projecting in lighted rooms. Price of the Vu-Graph II is \$250. It is available with a standard 355 mm EF lens or with a wide-angle 318 mm EF lens. Options include a 3 1/4" X 4-in magnification attachment, a 2- X 2-in adapter, light filter and 4-way roll attachment.

Unity Power Systems Transient Protectors have been announced by Unity Power Systems Northeast, Inc., 401 Hackensack Ave., Continental Plaza, Suite 707, Hackensack, NJ 07601. The device is a very soft clamping, compact, passive unit which eliminates powerline voltage spiking activity. Under laboratory testing the unit withstood voltages in excess of 40 kV and 25,000 J. The response time is 6 ns. The high energy handling capability of the device combined with the soft clamping operational characteristic enables it to suppress effectively all voltage spiking before the disturbance reaches measurable levels. Eight models of the Transient Protectors are available at prices ranging from \$195.20 to \$552.50.

A new family of microfilm products designed for economy and ease of operation has been announced by Eastman Kodak Co., 343 State St., Rochester, NY 14650. Mainstays of the new product line are the Kodak Oracle retrieval terminal and a microfilmer that codes the film so the terminal can keep track of it, and the Kodak Starvue reader and reader-printer. The Kodak Oracle microfilmer and retrieval terminal provide extremely fast random access of documents by means of a digital code exposed on the film. The Kodak Starvue Reader and reader-printer have been designed for economy and ease of operation.

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