

# New Products & Developments

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A modular closed-circuit color television camera, the XC-300U, designed in four detachable sections for use in five different situations, has been announced by Sharp Electronics Corp., 10 Keystone Pl., Paramus, NJ 07652. With all four units attached it is a self-contained camera. The camera control unit can be removed and rack mounted giving the camera remote control capability. The 4.5 viewfinder can be replaced by a 1.5 optional viewfinder, hand grip and shoulder pad, making possible Electronic Field Production capability. The XC-300U can also be used as a film chain camera or mounted on a microscope. The camera's flexibility is due to its construction in four separate and detachable modules — C-Lens mount, camera head, camera control unit and 4.5-in viewfinder. Color resolution is a minimum of 400 lines with 46 dB SNR. Maximum illumination is 150 lx with the +6 dB switch on. A color bar generator is included. The XC-300U has a simplified method for color registration and white balance is accomplished by centering two easy-to-read meters at the rear of CCU. The XC-300U is priced at \$5995.



The GSMO, a new 16mm mini-camera weighing 9 lb 7 oz when fully loaded with 400 ft of film and plug-in battery pack, has been announced

by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. The camera is a sophisticated, sync-sound quiet, reflex camera featuring quick-change coaxial 100-ft, 200-ft and 400-ft magazines. The optical system has been patterned after that of the CP-16R reflex camera with two differences — the rotating mirror shutter is of the single blade full-speed type that provides a 180° shutter opening, and the mirror clearance is such that the camera can accept any reflex type lens that fits on any of the existing Arri and Eclair cameras.

The basic lens mount of the camera is the standard CP mount patterned after the BNCR mount with its positive rotating locking ring. All of the electronics are located on a compact circuit board and liberal use is made of hybrid ICs, making possible crystal-controlled speeds of 24/25 frames/s as well as step variable speeds ranging from 12 to 64 frames/s.

Applications include documentary films for television, military combat camera applications, industrial films and student filmmaking.

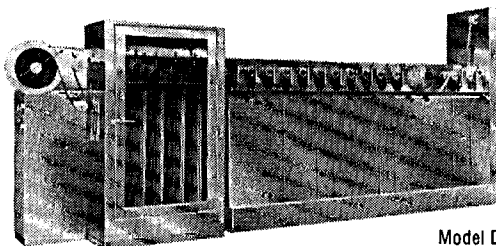
The Steadicam/Arri 35BL modification package has been announced by Cinema Products Corp.,



2037 Granville Ave., Los Angeles, CA 90025. The package includes a specially designed stabilizer support arm to accommodate the additional weight of the Arri 35BL, and a pair of rods that are 3 in longer than the standard rods that space the Steadicam camera mounting platform from the lower assembly which contains the viewing monitor and battery pack. The package also contains a Cinevid video-assist unit for picking off the reflex image from the Arri 35BL viewfinder so that it can be seen on the Steadicam viewing monitor.

The Conversion Kit for the Steadicam film/video camera stabilizing system, designed to provide the operator with a greater degree of freedom

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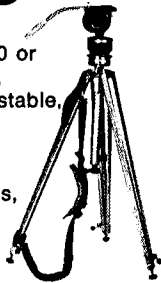


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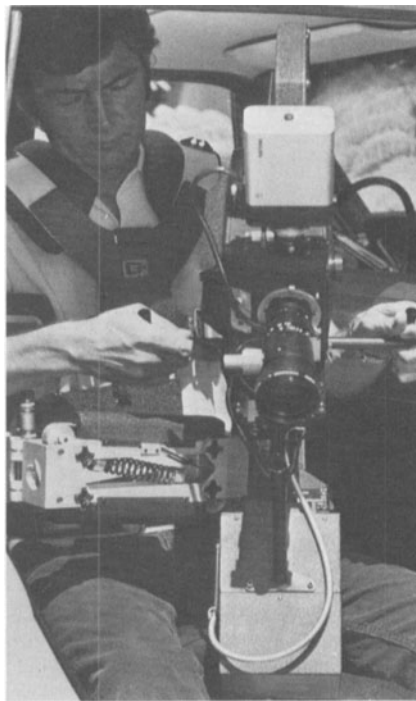
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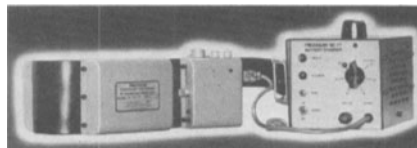
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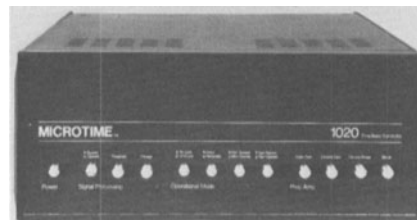
**Frezzolini Electronics Inc.**  
7 Valley St. Hawthorne, N.J. 07506 USA



and control while shooting in tight quarters inside a vehicle, such as a compact car, small airplane, boat, helicopter, etc., has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. The kit consists of an adjustable camera mounting platform, two shortened support rods for the camera mounting platform, removable side handles, and a ball joint pivot assembly. The kit is priced at \$950.

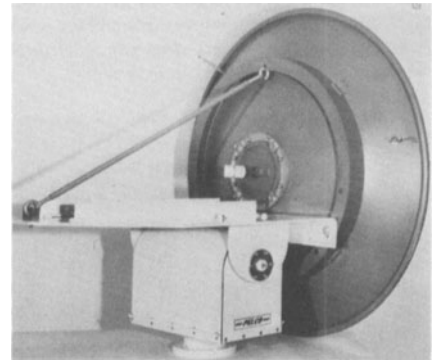


The Frezzi Model BC-77 Rapid Charger designed to recharge, in an hour or less, Frezzi-Belt™ Battery Packs used to power Ikegami HL-77 or 37 handheld video cameras, has been announced by Frezzolini Electronics Inc., 7 Valley St., Hawthorne, NJ 07506. The charger weighs 7 lb and is housed in a metal cabinet 9½ in long, 5¾ in wide and 6¼ in high including the carrying handle. All cables and plugs are permanently attached. An input power of 150 W from a 115 V, 50/60 Hz ac source is required. The price is \$395. Models operating from 115/230 V or from 230 V are available.

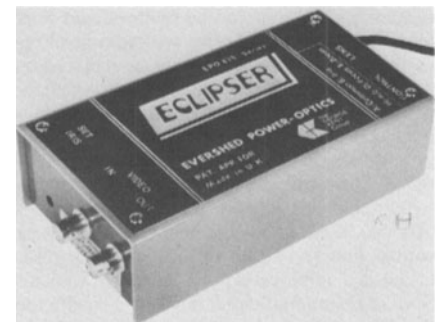


The 2020 Plus™ Total Signal Corrector, the 1020 stand-alone digital Time Base Corrector, and Image Plus Image Correction System have been announced by Microtime, Inc., 1280 Blue Hills Ave., Bloomfield, CT 06002. The 2020 electronic signal processor includes the Image Plus™ System licensed exclusively to Microtime by Yves Faroudja. With this feature the 2020 can deliver 12 dB chrominance noise reduction,

6 dB luminance noise reduction, vertical and horizontal picture enhancement and automatic group delay correction. The 2020 also incorporates the Auto Trac II™ to provide improved correction of VTR inertial errors. The 2020 is priced at \$17,995. The Image Plus System is available separately at a price of \$6995. Also available is the 1020 Time Base Corrector (shown above) which has the main features of the 2020 but without the Image-Ex and Velocity Correction which are standard features of the 2020. The 1020 is priced at \$12,995.

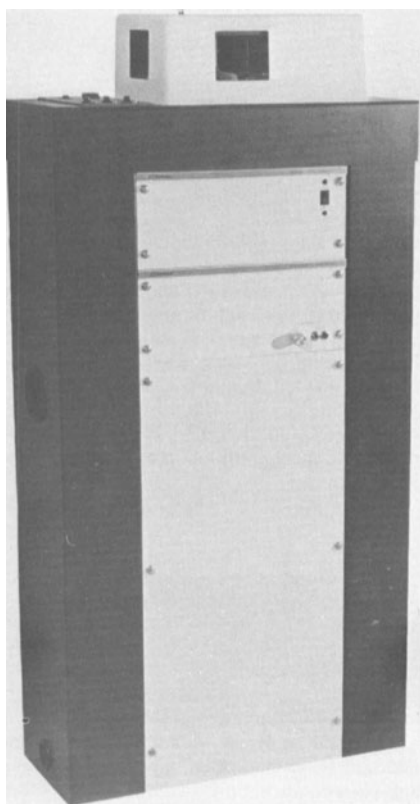


The AP-2500 Antenna Positioning System for electronic newsgathering has been announced by Pelco Industries Inc., 351 E. Alondra Blvd., Gardena, CA 90248. The system is designed to provide remote azimuth and elevation positioning for antennas up to 6 ft in diameter. The AP-2500 is designed to operate in a wind force of 65 to 70 mi/h and to withstand winds of 110 to 115 mi/h without destructing. Extremely high torque variable speed motors provide the power for operation and the positioner's stability. The AP-2500 system is priced at \$5000.



The Eclipser, a signal processor designed to overcome the problem of closed circuit television cameras being "blinded" by bright lights, has been announced by Video Components, Inc., 601 S. Main St., Spring Valley, NY 10977. In the Eclipser, unwanted highlights, such as from car headlights, sunlight or street lighting, are removed from the signal, and the iris control compensation occurs after highlight removal. (This device is not intended to serve as a camera tube protector.) Two models are available: the EPO875A, for use with lenses that do not have an auto iris circuit, is priced at \$295; the EPO875B, for use with lenses that already have an auto iris but still need an Eclipser, is priced at \$260.

The TMM-205 Multiplexer has been announced by TeleMation, Inc., P.O. Box 15068, Salt Lake City, UT 84115. The multiplexer accepts up to three projector inputs and can accommodate 8mm, 16mm and 35mm film projectors for op-



eration with a color or monochrome camera. Transitions between optical sources occur in approximately 0.5 s and are said to be bounce-free. The entire mechanism is designed to eliminate acceleration and shock loading forces. A fiberglass cover protects the optical assembly from dust and prevents extraneous light from entering the camera lens. A local control panel permits selection of Film 1, Film 2, and slide, and contains the master ac switch and fuse. All equipment is connected to a shelf or pedestal with a three-point adjustable mount. The price is \$995.

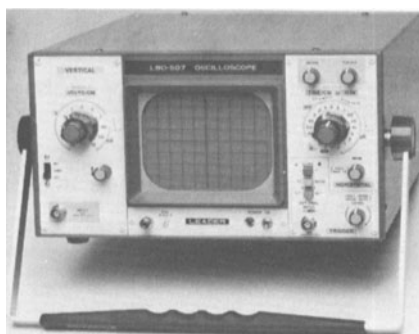


Three new wideband RF sweeper plug-ins have been announced by Hewlett-Packard, 1501 Page Mill Rd., Palo Alto, CA 94304. Designed for use with HP's 8620C sweeper mainframe, the units are the 86240A covering 2.0 to 8.4 GHz with at least 40mW output power over the double octave range; the 86240B, also 2.0 to 8.4 GHz with harmonics over 50 dB down at 10 mW output. (Maximum power is 20 mW with 45 dBc harmonics); and the 86240C which has a range of 3.6 to 8.6 GHz range covering the 4, 6 and 8 GHz microwave radio communications bands. The unit is intended for microwave link distortion tests because it has <math><1\text{ ns}</math> pk-pk group delay over 30 MHz sweeps. Maximum output is 40 mW. The 1 ns group delay and 0.5 % linearity of the 86240C make possible upconverter simulation applications where the sweeper is used with a microwave link analyzer for RF distortion analysis of microwave radio links. The unit has also 10 MHz FM bandwidth making it suitable

for noise loading applications. Prices are: for the 86240A, \$3750 with an additional \$650 if internal leveling is desired; 86240B, \$5200 with internal leveling included. The 86240C is priced at \$4700 with an additional \$650 for internal leveling. The 8620C sweeper mainframe is priced at \$2100.



The CCE videocassette cleaner and evaluator, Model U-1, has been announced by Chyron Telesystems, 223 Newtown Rd., Plainview, NY 11803. The device is a compact, lightweight, self-contained system designed to operate at a rate ten times faster than real time without altering the recorded signal. The CCE is used to remove dirt and embedded particles from tape surfaces and to detect surface and edge damage which causes VTR head clog and video dropout. A 1-h cassette can be processed in less than 6 min, the announcement stated. Two LED indicators and eight messages displayed on the front panel reflect the tape and system status at each stage of the operation. The CCE Model U-1 is priced at \$5100.



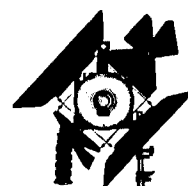
A new oscilloscope, the LBO-507, offering automatic triggered circuitry, has been announced by Leader Instruments Corp., 151 Dupont St., Plainview, NY 11803. Features include push-button switch selection for every functional demand. The unit has 10 mV/cm vertical sensitivity calibrated in 11 steps in a 1-2-5 sequence up to 50 V/cm with variance control, and a 17.5 ns rise time to help achieve laboratory grade performance. Accuracy is said to be  $\pm 3\%$  with input impedance rated at 1 M  $\Omega$  shunted by 35 pF. Bandwidth is dc 20 MHz ( $-3$  dB) and ac 2 Hz to 20 MHz ( $-3$  dB). Sweep speed is 0.5  $\mu\text{s}/\text{cm}$ , 18 steps in a 1-2-5 sequence up to 500 ms/cm with variable control. Magnification of  $\times 5$  delivers 100 ns/cm maximum speed to facilitate quick, precise readings. The unit has a 5-in CRT with an 8  $\times$  10 effective area. The price (under \$500) includes a low capacitance probe and terminal adapter.

The Hewlett-Packard Model 5342A Microwave Frequency Counter, designed to measure frequency from 10 Hz to 18 GHz with a resolution of 1 Hz on an 11-digit LED display, has been announced by Hewlett-Packard, 1501 Page Mill



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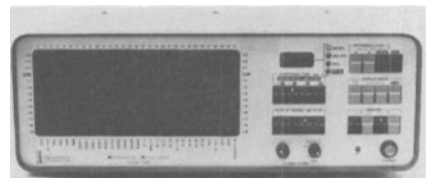
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Rd., Palo Alto, CA 94304. Features include simple keyboard control coupled with a micro-processor which give power and versatility to the new microwave counter. Base price of the 5342A is \$4500. Available options include Option 001, High Stability Time Base, \$500; 002, Amplitude Measurement, \$1000; 003 Extended Dynamic Range, \$375; H01, Digital-to-Analog Converter, \$250; and 011, HP-IB to permit remote programming of front and rear panel controls, \$350.



An acoustic analyzer, Model 500, a self-contained ac battery-operated 1/3-octave sound level and reverberation time analyzer has been announced by Inovonics, Inc., 503-B Vandell Way, Campbell, CA 95058. In the real-time mode the instrument displays wide band or weighted sound pressure levels in each 1/3 octave from 25 Hz to 20 kHz on a 13 x 31 LED matrix display with either peak or selectable averaging response. The reference level, which is indicated on a digital readout, can be varied manually over a 100-dB range in 1-dB steps, or the unit can seek a proper reference level automatically. The range (resolution) of the matrix display can be set by the user.

In the RT<sub>60</sub> mode the unit displays reverberation time up to 10 s with 10 ms resolution for either 15- or 30-dB decay. The actual decay plot is graphed on the LED matrix and reverberation time shown on the digital display. Model 500 is equipped with a built-in pink noise generator that produces broadband noise for response measurement or octave-band noise for reverberation analysis. Other features include a keyboard control panel for simplified data entry, two independent memories, data and oscilloscope outputs and a choice of microphone or line input. Applications include response and reverberation analyses in recording studios and concert halls, for environmental noise studies and other sound measurement applications. Price of the Model 500 acoustic analyzer is \$2750.

Vibra-Jet, a unit using the Venturi principle to turn ordinary aerosol into an extra-forceful jet, has been announced by Chemtronics Inc., 45 Hoffman Ave., Hauppauge, NY 11787. The device increases the effectiveness of the degreasing spray without damage to the most delicate electronic, electrical or mechanical assembly, the announcement stated. Chemtronics also announced Electro-Wash,® a heavy-duty aerosol cleaner/degreaser that can be teamed with the Vibra-Jet for electronic, electrical and mechanical applications. The Vibra-Jet is priced at about \$2.00. A 24-oz can of Electro-Wash is priced at about \$3.80.