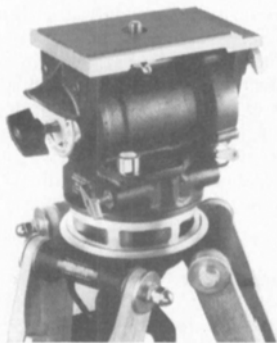


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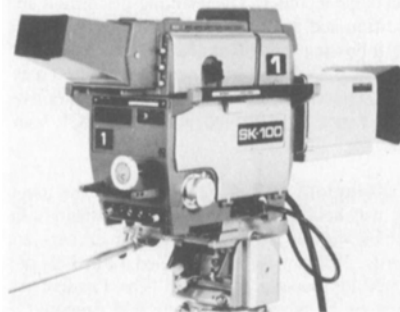


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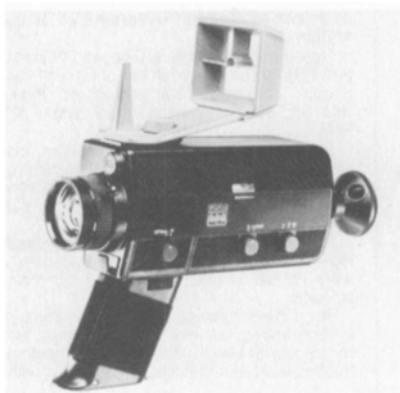
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Further information about these items can be obtained from the addresses given. As in the case of technical papers, the Society is not responsible for manufacturers' statements, and publication of these items does not constitute endorsement of the products or services.



A new convertible television camera, the SK-96, has been announced by Hitachi Denshi America, Ltd., 58-25 Brooklyn-Queens Expwy., Woodside, NY 11377. Features include a rugged die-cast housing for extended durability. Several lens options are available for handheld or studio use. The camera can be used in a remote van for sports events by using a 22:1 zoom lens on the studio/field model and a 14:1 portable lens on the handheld configuration. In addition to ABO, linear matrix, genlock, auto white balance, and 600-ft multicore operation, the SK-96 also operates digitally. Said to be one of the world's smallest color cameras with internal triax, it has the ability to send RGB, full remote control, and power over either triax or coax. It is priced at \$45,000.

Also announced was the SK-100 (shown above), an advanced, automated studio camera. Features include SNR of 53 dB, sensitivity of $f/5.6$ at 200 fc and resolution in excess of 600 lines. The unit also includes the Hitachi ABO for extension of dynamic range. The price is \$70,000. An optional microcomputer provides automated alignment of the system.



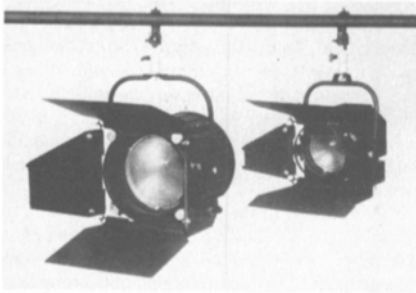
The Nautica, a super-8 underwater/all weather camera, has been announced by Eumig (U.S.A.) Inc., Lake Success Business Park, 225 Community Drive, Great Neck, NY 11020. The Nau-

tica's ability to withstand the elements comes in part from special body construction that is not affected by mud, snow, salt, or chlorinated water. It can be used in swimming pools as well as in lakes or oceans. There is only one opening on the camera body for loading the standard 50-ft cartridge. The Nautica can be used in rugged weather conditions. Dry or wet it provides CdS metered automatic exposure control with push-button +1 f /stop backlight compensation, through-the-lens viewing and focusing and a 3:1 zoom Eumig $f/1.9$, 9 to 30mm Panorama-Viennon lens. Also included is the Eumig PMA lens accessory which provides wider coverage without light loss or distortion and that can be used above or below the surface. The Nautica can be used on land as well as in the water.

The camera is equipped with a depth gauge calibrated to 30 m. It can withstand 2.5 tons of pressure and can be brought down to 40 m beneath the surface of the water without damage or leaking. The Nautica is priced at about \$470. Options include a diving set consisting of a Waterlux movie light, a diving buoy with 30 m of safety cable, stabilizers, and a sports finder.

A new version of the Steadicam film/video camera stabilizing system called Universal Model II has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. Several modifications have been incorporated for greater maneuverability and safety in operation. A new breakaway-style camera operator's vest has an emergency release cord located on the vest's right shoulder which allows the operator to divest himself of the entire Steadicam system in less than two seconds in any emergency situation which may occur while shooting in hazardous conditions, especially when filming in a boat. The new raised video monitor is positioned midway between the Steadicam mounting platform and the sled-like lower portion. The new design permits the monitor to be tilted up or down and rotated about its axis so that the operator can find the most convenient viewing position for shooting specific sequences. For filming special effects, the new model permits the camera to be rotated a full 360° during the shot. (A special adaptor is required for low angle and tabletop shooting with the camera on the bottom instead of on the top.) Prices for the Steadicam Universal Model II start at \$19,500.

New Fresnel lens fixtures, manufactured by Ianiro in Italy and called Bambinos because of their small size, have been announced by Strand Century, Inc., 20 Bushes Lane, Elmwood Park, NJ 07407. The new units are available in 2000-, 5000-, and 10,000-W configurations. The 2000-W Bambino has a 6-in Fresnel lens and offers a light output approximately equal to 2-kW spotlights with 10-in lenses. The 2000-W fixture (Model 3302 weighs only 14 lb; previous 2000-W Fresnels weigh 21 lb. Shown on p. 461 is an existing 2-kW spotlight (left) with a new Ianiro Bambino 2-kW light to compare the difference in size.



The 5000-W Bambino (Model 3505) has a 10-in Fresnel lens and its light output is approximately equal to that of 5-kW units with 12-in lenses. It weighs 24 lb. The 10,000-W Bambino has a 14-in Fresnel lens with light output approximately equal to that of conventional 10-kW units with 20-in lenses. It weighs 38 lbs.

The 2-kW Bambino is priced at \$420; the 5-kW at \$715; and the 10-kW at \$1175.

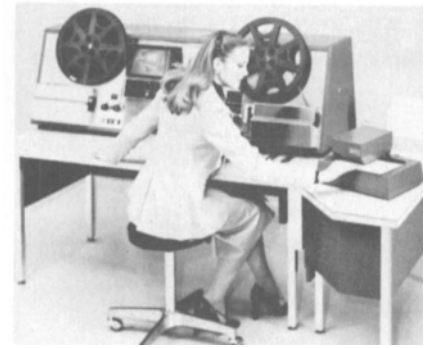


Five new professional lamp stands, designed to hold heavy lights, reflectors, and scrims, have been announced by Bogen Photo Corp., 100 South Van Brunt St., P.O. Box 448, Englewood, NJ 07631. The Wind-Up, Cine, Tall Cine, and Cine-3 models, designed for strength and durability, are made of chrome-plated steel. The Super Stand (shown above) is made of aluminum for strength and portability. It weighs 14½ lb. The Wind-Up is a geared elevating stand with a lock knob to override the crank to make sure that it stays where it is set. Detachable, individually braked wheels are supplied with the Wind-Up. Shepherd casters are supplied with the Cine, and caster sets are available optionally for the other models. Prices range from \$99 for the Cine-3 stand to \$330 for the Wind-Up.

A 16mm optical sound projector, the Kodak Pageant 250S-R, has been announced by Eastman Kodak Co., 343 State St., Rochester, NY



14650. The new projector has a 120/240 voltage selector switch and a 50/60 Hz selector switch giving the capability of operating in most countries throughout the world. Features include an amplifier with full 25-W continuous average sine-wave power output and a 200-W, 24-V tungsten-halogen lamp. Three lamp settings are provided with average lamp life on the low setting of 200 h. A 6- x 9-in detachable speaker has a 40-ft connecting cord. A 3-wire, 12-ft power cord is permanently attached to the projector. The motor has thermal fuse protection and the amplifier is protected by a delayed-opening fuse. The projector operates at the single speed of 24 frames/s. Separate microphone and auxiliary inputs allow the projector to be used as a portable public address system. The price is \$1350.



Data-Film, a computerized information reporting system for film inspection, editing, and programming, has been announced by Research Technology Inc., 4700 Chase, Lincolnwood, IL 60646. The device makes it possible for the user to have pertinent information about the condition of every film in his library in printed form. Full printed reports on film condition, film length, film damage, and editing data are available when the film is run through any new RTI film inspection machines equipped with Data-Film. Advantages include the setting up of cost control procedures based on the hard-copy records provided by Data-Film. The device is priced at less than \$4000.

A recent addition to the Cohu 2800 series of monitoring and surveillance low-light-level television cameras is the Model 2855C announced by Cohu Inc., Electronics Division, Box 623, San Diego, CA 92112. Model 2855C provides automatic, unattended operation in extreme low light levels making it suitable for monitoring and

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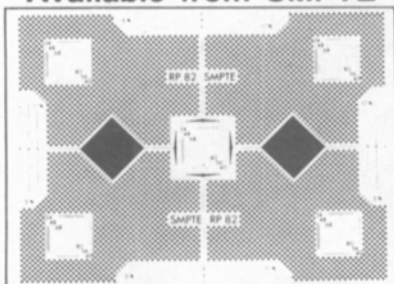
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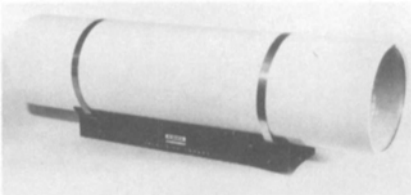


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surveillance applications where the sensitivity of standard vidicon and silicon-target vidicon cameras is not satisfactory. The camera is self-contained and enclosed in an environment-resistant housing which contains integral heaters permitting operation in temperatures down to -40°C . The 2855C can be operated underwater in depths up to 60 ft when equipped with factory-installed connectors. Additional factory modifications can increase the operational depth to 200 ft.

Other features include 600 lines horizontal resolution, dual outputs, genlock, gamma correction, under- and over-scan capability, automatic 200 million to 1 light range, and remote control capability. The price is \$6300. Options include a screen splitter for multiple camera display, a cable pre-equalizer, and a CCIR sync generator.



The DTMF Remote Camera Control System has been announced by Cohu, Inc., Electronics Division, Box 623, San Diego, CA 92112. The system utilizes dual tone multifrequency encoding and digital techniques to remotely control the operation of up to 100 surveillance cameras. A transmitter at the control station, capable of transmitting up to 40 different commands (two commands can be transmitted simultaneously), and a receiver at each camera location make up the basic system. Transmission can be over standard twisted-pair wire or other voice-grade mediums such as radio or telephone circuits. The base price is \$1565. A number of options are available including a computer interface with remote control interlock, remote status feedback, and switcher control. Other options include a speed control for both the pan tilt and the lens, and a single plug-in circuit board containing the power supply electronics and control circuitry for the pan/tilt driver with a separate chassis-mounted power transformer.



The Data Communication Interface, RS 232-C, announced by the American Laser Systems, Inc., 106 James Fowler Rd., Santa Barbara Airport, Goleta, CA 93017, permits

connection of terminals, data concentrators, computers, and other data sources to the ALS Model 736 Optical Communicators for free space transmission of data up to 10 miles over a line of sight path. In addition, an optional telephone-quality-order wire voice channel is available. Since the wireless transmission is in the infrared, no FCC license or licensed operator is needed.

Connection to the RS 232-C interface is by means of the standard 25 pin, "D" shaped plug. Therefore, the interface handles all necessary "handshaking" needed for either synchronous or asynchronous transmission. This includes all aspects of the RS 232-C protocol including either internal or external clocking in the synchronous mode. All standard baud rates up to 9600 baud in either sync or async can be programmed into the unit. The interface then converts the incoming serial data stream to a pulse position data stream that can then be transmitted up to 10 miles through the air by the ALS Model 736 Laser Communicator. Price of the RS 232-C interfacier is \$1450.

Two 12-bit storage register D/A converters, Models DAC336C-12 and DAC336B-12, with reference, precision ladder network, switches, output amplifier, and input register, have been announced by Hybrid Corp., Crosby Dr., Bedford Research Park, Bedford, MA 01730. Designed for microprocessor applications, the unit combines low power consumption with 8- and 12-bit bus compatibility. Independent strobe inputs permit 4-, 8-, and 12-bit data input with full input storage or continuous conversion from digital codes to analog output. Typical power dissipation of 300 mW and proprietary laser trimmed, low drift thin film nichrome resistor networks assure long term stability for the hermetically sealed 24-pin dual in-line package. Manufacturing process options include full MIL-STD-883 Class B screening or standard commercial product. Both models are specified from -55°C to $+125^{\circ}\text{C}$. The DAC336C-12 is priced at \$70. The DAC336B-12 is priced at \$84.

A digital synchronizer/time base corrector, the DFS 1550, has been announced by Micro Consultants, Inc., P.O. Box 10057, Palo Alto, CA 94303. It is capable of synchronizing any nonsynchronous NTSC television signal and can also time-base-correct direct record and non-phased videotape recorders. Other standard features include nonphase detection, look-ahead velocity compensator, sync pulse generator, dropout compensator, diagnostic store analyzer, and switch selectable blanking of VITS and



The VP-2011 1/4-in videocassette player (shown above) with the Auto Search Control random access unit permitting U-Matic users to select and find a desired program or segment almost instantly has been announced by Sony Video Products Co., 9 W. 57 St., New York,

NY 10019. To operate the random access control, a user need only press a button on the Auto Search Unit and the VP-2011 automatically finds and plays the program or segment selected. To replay a segment, the user simply touches the same button. The VP-2011 will then stop the tape, rewind, and automatically begin playing again. The VP-2011 is priced at \$2000.

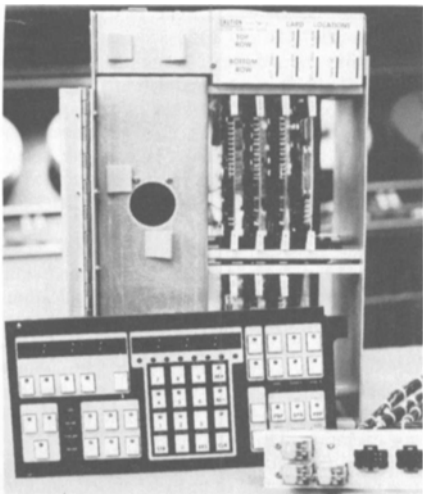
Also announced by Sony Video Products were two optional accessories for the HVC-100 Tricon color camera (priced at \$1400). The CMA-201 is a specially designed color camera adaptor for use with the HVC-1000 and either VO-3800 U-Matic or SLO-340 Betamax recorders. The interface is made with a 14-pin CCK-type camera connector and CCJ 10-pin connector. The CMA-201 is priced at \$100.

The VRC-Telecine Adaptor permits the HVC-1000 to be used with still or motion-picture projectors for transfer of film to videotape. The price is \$250.

Three 6-MHz high resolution videodisk recorders have been announced by Eigen, P.O. Box 1027, Grass Valley, CA 95945, designed for such applications as computer generated animation, industrial or scientific slow-motion analysis where the maximum resolution is desired, and for diagnostic medical analysis. The full slow-motion recorders, Models 16-20 (20-s, 1200 fields capacity) and 16-10 (10-s, 600 fields capacity) can record or play back at variable rates from 60 images/s down to freeze, in either forward or reverse. Single images can also be recorded to build up a slide file, animation, or time lapse sequences. Model 16-20 is priced at \$25,000 and Model 16-10 at \$15,000.

Model 16-05, a 6-MHz still image recorder, has 500-track capacity with each track holding one television field. On command, the recorder will step to the next track and record and play back that image as a freeze until another record command is given. Recordings can be made or played back at rates up to 30/s. Model 16-05 is priced at \$12,500. A 4-MHz version, Model 14-05 with the same features is priced at \$9850.

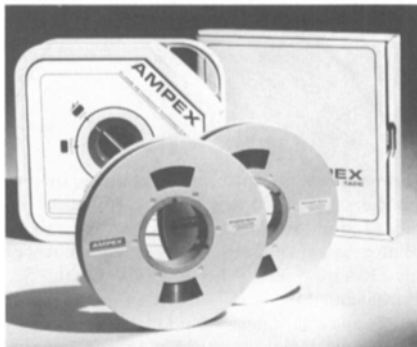
All Eigen disk recorders have continuous loop format with odd numbered tracks recorded when the head is stepping to the center of the disk and the even tracks recorded in the outward direction. Eigen disk recorders are based on a Mylar disk which can be rebuilt indefinitely at a price of \$10 per rebuild.



The AE-600 electronic system for automatic videotape editing has been announced by EECO, 1441 East Chestnut Ave., Santa Ana, CA 92701. The system can control one record

machine, up to eight playback machines, and up to three external devices (i.e., switches and faders). Designed for editing flexibility, the system can perform audio-only, video-only, and split audio/video edits. It is capable of editing two audio channels independently and can make three independent edits (one video and two audio) in a single pass of tape.

The AE-600 uses large scale integrated circuitry. Editing control is accomplished via keyboard data entry. The system consists of a module nest containing a dc power supply and seven or eight modules (circuit boards) and a local edit control panel. As an option the system can be remotely controlled from remote control panels. The base price is \$17,500.



A new 1-in broadcast quality videotape, the Ampex 196 Series, developed for use with the new generation of helical scan recorders has been announced by Ampex Corp., 401 Broadway, Redwood City, CA 94063. The new tape is compatible with all 1-in, high-band helical recorders and all video standards. It is designed for use by the video professional for production, editing, or broadcast. The 196 series was designed to provide excellent electrical performance with no sacrifices in durability and head life. An exclusive formulation was developed by Ampex to produce uniform chroma response and exceptional RF characteristics. The tape is said to have extended multigeneration capacity. RF signal losses from multiple playback passes and hour-long still-framing are reported to be negligible.

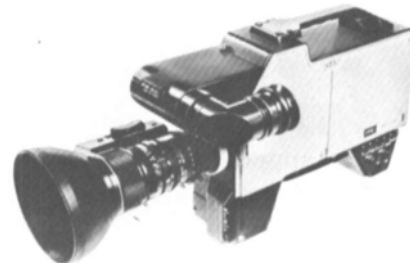
A precision polyester base film is used in the 196 Series to provide a uniformly smooth surface for application of the magnetic coating. Coating smoothness and the exclusive Ferrosheen[®] treatment provide a high gloss recording surface resulting in a videotape with low abrasivity. The 196 Series reels have reduced-size front windage holes and a solid back flange to facilitate improved winding and provide protection of the tape from mechanical damage.

Two packaging styles are provided. The Tyvek (du Pont)-coated shelf box, an Ampex exclusive, features built-in hub support and a rugged moisture and soil repellent exterior. The tape is also available in a durable, flame retardant stackable shipper. Prices run from \$78.20 to \$122.70 for one-hour reels depending on quantity and packaging.



The DN 34 Analog Time Processor for professional audio effects has been announced by Hammond Industries Inc., Klark-Teknik Div., 155 Michael Dr., Syosset, NY 11791. The device

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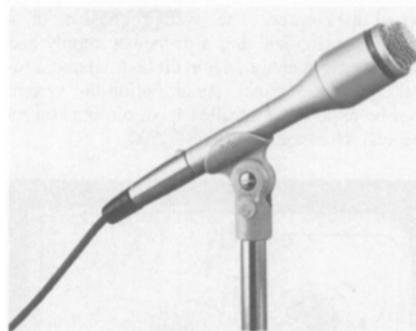
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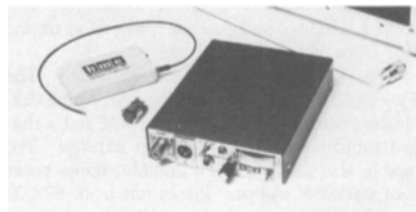
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has been designed for the production of a number of time related effects, among them flanging, phasing, double and triple tracking, vibrato, doppler/leslie, and chorus. The DN 34 incorporates a compander and peak limiter to achieve clean and noiseless effects. The effects can be achieved without the need for additional out-board equipment and/or mixer console facilities. The price is \$1600.



A new shock mount omnidirectional microphone, designated the DO56, primarily intended for handheld broadcast and sound reinforcement applications, has been announced by Electro-Voice, Inc., 600 Cecil St., Buchanan, MI 49107. Isolation of handling noises and mike cable vibration are achieved by having the main acoustic cavity and the diaphragm/voice coil assembly isolated as an integral unit from the case. Frequency response extends to 18,000 Hz. A slight emphasis in the 2,000 to 12,000 Hz range enhances the DO56's vocal qualities while a slow rolloff below 200 Hz reduces low frequency noise interference. The price is about \$100.

A new shock mount microphone clamp, designated the 313A, has been announced by Electro-Voice, Inc., 600 Cecil St., Buchanan, MI 49107. Manufactured from polycarbonate and metal, it is intended to hold microphones with an approximate 3/4-in barrel diameter. The microphone is suspended in the shock mount by four replaceable urethane bands. A hinged metal latch is provided for those applications that require only temporary shock mounting of the microphone, or when used with a supplied set screw, the 313A becomes a semi-permanent shock mount for applications not requiring frequent microphone changes. Price of the 313A is about \$23.



The HME Model WM 152 Flat Pac wireless microphone receiver, designed primarily for portable applications, has been announced by HM Electronics, Inc., 6151 Fairmount Ave., San Diego, CA 92120. The receiver has an extended dynamic range of 95 dB, said to improve the sound qualities of the wireless microphone by eliminating compressed or limited sound. An internal switch allows the receiver to be used with a nonexpanded transmitter. The device is battery powered. A feature called autolock detection prevents drift and distortion. A locking switch selects the desired operating power and prevents unintentional switching. The price is \$1890.



The DR-6M dynamic stereo headphones applicable to sound monitoring while recording live performances or off-the-air have been announced by Sony Industries, Professional Audio Products Div., 9 W. 57 St., New York, NY 10019. Designed to provide accurate sound clarity and wide frequency response for critical recording sessions, the lightweight (350 g) folding headphones can fit in a coat pocket. Large 50-cm diameter cone type drivers have a sensitivity of 110 dB/mW, impedance of 28 at 1 kHz, and frequency response of 20-20 kHz. Rated output is 10 mW with a maximum of 100 mW. The price is \$55.



Four new oscilloscopes, the LBO-513 single trace, LBO-514 dual trace (shown above), the LBO-308, and the LBO-5800 have been announced by Leader Instruments Corp., 151 Dupont St., Plainview, L.I., NY 11803.

The LBO-513 and LBO-514 feature up to 1 mV sensitivity and are both equipped with 8- x 10-cm displays, z-axis modulation, x5 magnifier, and complete trigger controls. The LBO-514 dual trace unit also provides front panel x-y operation, CH-1/CH-2 trigger selection and alternate or chopped display modes. The LBO-513 is priced at \$499 and the LBO-514 at \$649.

Model LBO-308 is a compact, dual trace, 3-in portable oscilloscope with 20-MHz bandwidth designed for field and laboratory applications while operating from ac or dc or with an optional rechargeable battery pack. The unit has 2-mV/Div sensitivity over 12 ranges with continuously variable control and 17.5-ns rise time. It also has trigger controls on both channels and front panel x-y operation. The price is \$950.

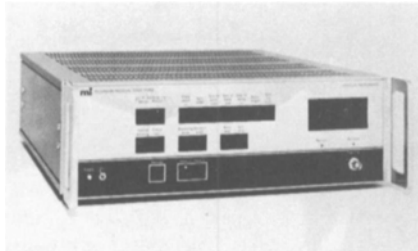
The LBO-5800 production oscilloscope system permits selection of up to 32 preset configurations of oscilloscope controls to view waveforms at up to eight test points in a unit under test. The system consists of four components — the 5810 Programmable Oscilloscope, a

20-MHz, dual trace oscilloscope controlled by TTL logic levels applied to rear panel connectors; the LPC Memory/Control unit containing the CMOS memory and operator control buttons for selecting up to 32 test conditions; the LPC-5813 Input Selector for connecting, under program control, any of eight test signals to the oscilloscope input channels; and the LPC-5812 Programmer used only during initial setup of the production test station. A single test station including programming capabilities is priced at \$5955. Additional test stations are priced at \$3937.



Two new low distortion oscillators, Models G232 and G233, have been announced by Marconi Instruments Division of Marconi Electronics, Inc., 100 Stonehurst Court, Northvale, NJ 07647. The more sophisticated Model G232 (shown above) features a virtually bounce-free oscillator circuit with a high degree of stability. Stepped and variable attenuators provide a precision calibrated output. The stepped attenuator is distributed so that balanced attenuation is provided after the transformer for optimum noise performance. The output frequency is measured by counter and displayed on a 3½-digit readout. Multiplying circuits provide a near-instant display of frequency for lower frequency ranges. Price of the G232 is \$2495.

Model G233 uses a precision Wien bridge oscillator, followed by a sample and hold circuit. The signal output may be varied using a combination of pushbutton and continuous attenuators. Price of the G233 is \$695.



The Television Interval Timer, Model 2920, designed to eliminate subjective waveform-monitor measurements of timing parameters, has been announced by Marconi Instruments, 100 Stonehurst Court, Northvale, NJ 07647. Critical timing measurements can be measured automatically. In the manual mode Model 2920 provides digital readout of each parameter at the touch of a button, but, since all functions may also be controlled remotely, the unit can be readily integrated into a video monitoring and data logging system. Model 2920 can measure a total of 15 different parameters, based on the recommendations made in EIA specification RS170A. Measurements not involving picture information are averaged over a large number of samples to eliminate the effects of noise. For horizontal picture blanking, total vertical blanking interval, and picture start measurements, the Television Interval Timer detects the presence of video at +20 IRE and displays the minimum reading of a

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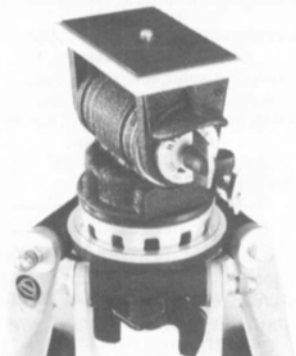
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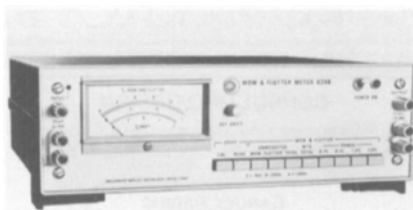
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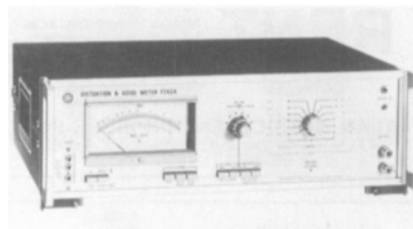


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large number of samples. Changes in each of the measurements can be monitored directly by front panel selection of the particular parameter of interest. Model 2920 is priced at \$4500.

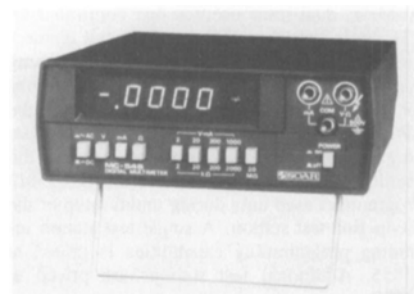


A new wow and flutter meter, Model A248, designed to measure speed variations in all types of consumer and studio reproduction equipment, has been announced by Marconi Instruments, 100 Stonehurst Court, Northvale, NJ 07647. The disturbing effects of drift, wow, and flutter can be measured on Model A248 using the weighted total wow and flutter facility complying with the standards of DIN, IEC, IEEE, and ANSI. In addition, unweighted total wow and flutter can be measured, thus providing a basis for comparison with results obtained on equipment manufactured to earlier standards. For occasions where a prerecorded disk or tape is not available, Model A248 provides a stable 3150 Hz tone for testing purposes. Both the output and input circuitry may be balanced or unbalanced, providing maximum interface flexibility. Model A248 is priced at \$795.



An automatic distortion and noise meter, Model F242A, designed for performance testing of audio amplifiers, oscillators, tape recorders, line equalizers, and filters, has been announced by Marconi Instruments, 100 Stonehurst Court, Northvale, NJ 07647. Operating over the frequency range from 20 kHz, Model F242A measures audio gain, frequency response, signal-to-noise ratio (weighted and unweighted), and distortion. Input circuit facilities include both unbalanced and true balanced configurations in either a bridging mode or terminated 600 Ω. For distortion measurements, the fundamental frequency is automatically tuned over the entire operating frequency range, eliminating time consuming tuning. For level measurements, including noise, the meter is calibrated in dBm in 600 Ω and V rms. The meter circuit is true rms responding. The residual noise of Model F242A is less than -110 dBm when terminated in 600 Ω. The unit is priced at \$2425.

A 4½-digit bench-type multimeter, Model MC-545, featuring five function modes (dc V, ac V, dc mA, ac mA, and Ω) and providing automatic zero adjustment and polarity indication, has been announced by Sonar Electronics (U.S.A.) Corp., 200 13th Ave., Ronkonkoma, NY 11779. The instrument has a voltage measurement range for 2 to 1000 V ac and dc; a current measurement range (both ac and dc) from 2 to 1000 mA and a resistance measurement range



to 200 MΩ. Maximum indication is 19999 or -19999. The price is \$289.95. An optional BCD output (8, 4, 2, 1) can be provided for connecting the multimeter between a CPU and a digital recorder.



A new Kodak Carousel slide projector, the 750 H-AR, operating at 50 or 60 Hz in two voltage ranges (110 to 130 V and 220 to 240 V) has been announced by Eastman Kodak Co., 343 State St., Rochester, NY 14650. The projector automatically selects the appropriate voltage range according to the supply available when the power switch is turned on. A wide choice of color-corrected lenses for glass-mounted or cardboard-mounted slides is available. The price (without a lens) is \$256.50. With an Ektanar C 102-mm, f/2.8 lens the price is \$279.50.



A new Kodak Ektagraphic slide projector featuring automatic voltage selection has been announced by Eastman Kodak Co., 343 State St., Rochester, NY 14650. Designated the B-2AR, the projector can operate at 50 or 60 Hz in two voltage ranges (110 to 130 V and 220 to 240 V). When plugged into an outlet and turned on, the projector automatically selects the appropriate voltage setting. It has a number of features common to the B-2 slide projector including a heavy duty motor, remote control capability, coated internal optics, a 300-W ELH lamp, a 4-position lamp switch, vertical and horizontal slide registration, and two thermal fuses. The B-2AR accepts 2 × 2 slides in 80- and 140-slide trays. The price is about \$282.50.