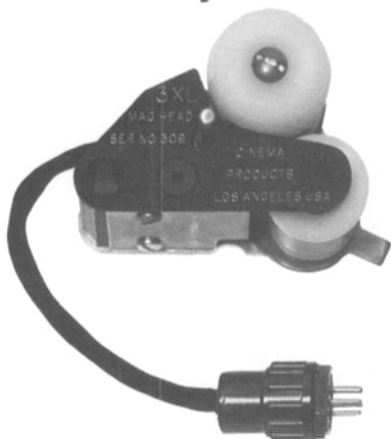
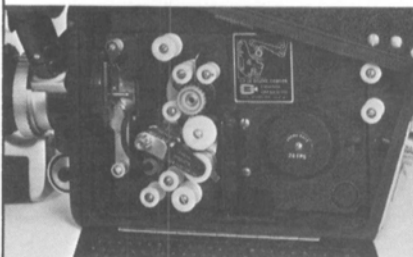


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3XL mag head shown installed in CP-16/A camera.

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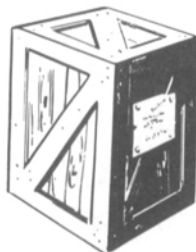
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(and developments)

.....
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 Kodak Ektasound 130 and 140 super-8 cameras and the Ektasound 235 and 245 sound projectors, as well as magnetic-prestriped sound movie films in special cartridges accepting the sound recording head, have been announced by Eastman Kodak Co., 343 State St., Rochester, NY 14650. The Ektasound 130 camera contains more than 500 parts and involves more than 200 separate assembly operations. The Ektasound 140 camera has some 600 parts and requires more than 250 assembly operations. Both cameras incorporate the features of the Kodak XL cameras, including the fast $f/1.2$ Kodak Ektar lens as well as double-vane CdS exposure control, 230° shutter opening and an external viewfinder and exposure system which do not take light from the lens. Both cameras incorporate a highly sophisticated sound recording system, including an amplifier with automatic gain control which allows the cameras to adjust automatically for existing sound in the same manner as they adjust for existing light. In order to record existing-light, existing-sound films in a working camera, the requirements are (1) use sound movie cartridges (Kodak Ektachrome 160 Sound Movie Film Type A or Kodachrome II Sound Movie Film Type



A), (2) plug in the microphone and (3) press the trigger. Both cameras accept super-8 film, either sound or silent.

A sound indicator built into each camera's viewfinder flickers red while making movies if (1) a sound movie film cartridge is in the camera, (2) the microphone is plugged correctly into the camera, (3) the 9-V alkaline amplifier battery is good and (4) sound is present. The same signal in varying colors indicates low light. An end-of-film indicator is visible in the viewfinder. The new cameras are supplied with an omnidirectional microphone with a 12-ft cord, a microphone stand, a wrist strap, a rubber eyecup and an instruction manual. The Ektasound 130 is priced at \$189.50. The Ektasound 140 has a 9 to 21mm manual zoom lens with a high aperture coupled sportsfinder. It is priced at \$274.50.

Both the 235 and 245 projectors have a 400-ft-reel capacity and speeds of 18 or 24 frames/s. The projectors provide edge-to-edge image sharpness. The Ektasound 235 projector is priced at \$219.50. The Ektasound 245 projector has sound recording capability. It is priced at \$279.50.



The Wilcam W-2 + 4 16mm camera, a lightweight, all-magnesium 16mm single/double system sound camera with a mirror reflex shutter, has been announced by Wilcam Photo Research, Inc., Williamson Camera Co., 8619 Yolanda Ave., Northridge, CA 91324. The lenses are used without a beamsplitter viewfinder; the viewfinder image is extremely bright and all the light reaches the film. Since the finder is an integral part of the camera body, certain features can be included inside the viewfinder, e.g., below the image, the camera has a built-in match pointer light meter which, at full zoom at 120mm is equivalent to a 1° spot; a slide switch on the front of the camera converts it to an audio VU meter so that a single operator can check the sound level without taking his eye off the subject he is filming. Above the image is an analog footage counter reading from 400 ft to 0. A four-position filter slide is fitted in front of the mirror shutter giving finger-tip control of a clear filter plus three other positions; 85B, 85BN3 and CC20R filters are normally supplied; however, the filter slide is instantly removable and any combination of filters

The state of the art in film sound just took a giant step forward. In Speed, Flexibility, Safety, and Ease of Operation. For sound transfers, looping, re-recording, double-system screening and telecine interlock.

Magna-Tech's new 600 Series is the reason. This versatile new system features electronic interlock, foolproof IC logic and improved mechanical and electrical design. Incorporating traditional Magna-Tech reliability and durability, the MTE 600 Series provides expanded capabilities and superior performance in any application from the most compact studio to the largest mixing complex.

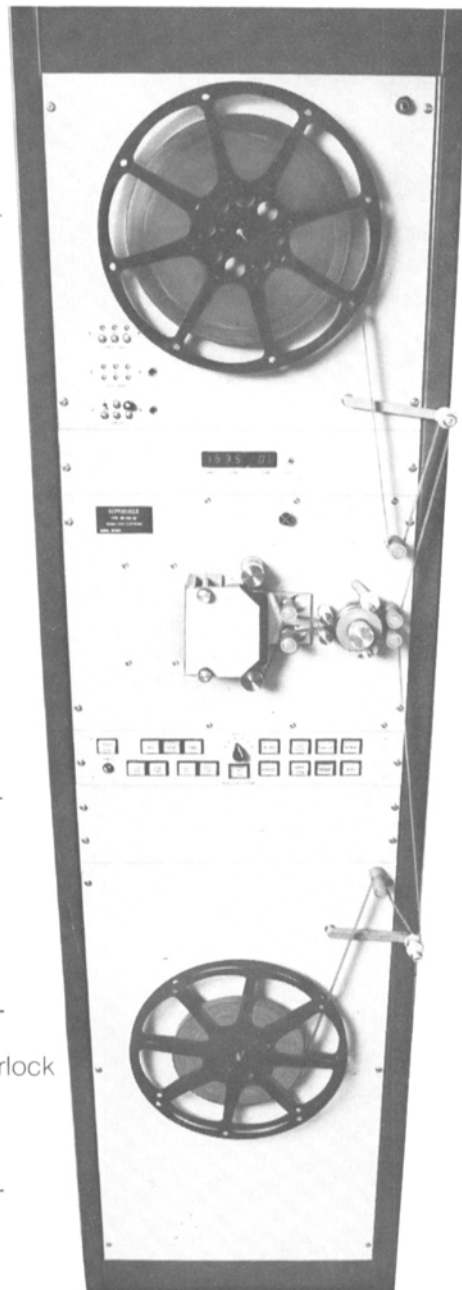
Among its many features are:

- stepping motor sprocket drive
- optical/electronic high-speed interlock system
- local or remote advance/retard of individual films in interlock
- operates at 6-times-sync speed through sprocket in interlock with Magna-Tech high-speed intermittent projector, via optical encoder
- operates 10-times-sync speed in interlock with video tape recorder
- operates local at sync and 10-times-speed through the sprocket
- 115/220 volt—50 or 60 Hz operation

- flywheel accelerators for rapid start
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- automatic safety shutdown

- compatible with conventional interlock systems
- multiple machine operation—as many as desired—in interlock via distribution amplifier
- 6-buss interlock selector switch for studio delegation
- can be cued on and off buss while running in interlock

- pushbutton-selected 16 or 35 speed and 24 or 25 frame rate, forward or reverse
- local inching forward or reverse
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can be fitted. The individual gelatin filter is $\frac{1}{8}$ in in diameter.

The lens mount is a quick-release bayonet type and an adapter can be supplied for using Arriflex lenses. The camera is driven by a 12-V dc motor which is speed-controlled by a crystal oscillator through a phase lock circuit. Due to its special design, it can maintain its speed lock from no-load condition to many times the required load. Accuracy to one frame in 1200 ft at temperatures ranging from -20 to $+120$ F is reported at 24/25 frames/s; 36 frames/s is available for sporting events and similar filmic situations. The drivemotor is capable of high torque (6 in/oz) providing very rapid acceleration. An electro-magnetic brake can stop the camera, running at 24 frames/s, on the following frame and with the mirror shutter closed. The amplifier has two microphone inputs. The camera uses a 200-ft magazine. Price of the Wilcam W-2+4 is \$8,375.

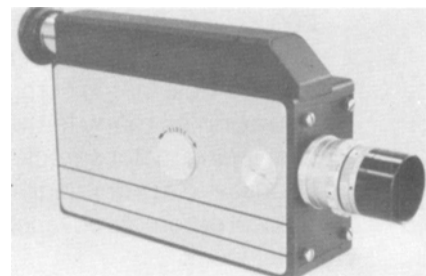


The Bauer Star XL, a super-8 camera with a fast $f/1.2$ 9mm lens, has been announced by AIC Photo, 168 Glen Cove Rd., Carle Pl., NY 11514. The camera is 6 in long, $3\frac{1}{16}$ in high and $1\frac{3}{4}$ in deep. When used with 160 ASA film it can be used for filming by room light or even by candlelight. The camera has a CdS cell behind the lens for accurate exposure control over its full aperture range of $f/1.2$ to $f/32$. It has a filming speed of 18 frames/s, a single frame feature, and a two-position distance setting 4 ft to 9 ft for close-in filming or 9 ft to infinity. A 230° degree shutter delivers 40% more light than conventional shutters and a double-vane exposure control allows all light from the subject to reach the film. All camera functions, film drive and exposure control are powered by 2 AA penlight batteries. The camera is priced at \$134.95.

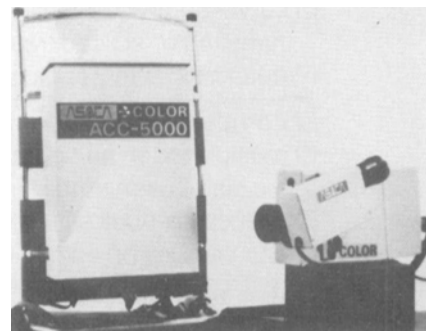
The CP-16 and CP-16/A cameras accept the new Angenieux 9.5-95mm and 12-120mm zoom lenses, both with built-in, Angenieux-designed, automatic iris, according to an announcement by Cinema Products Corp., 2044 Cotner Ave., Los Angeles, CA 90025. The exposure control is instantaneous and accurate. The improved Angenieux Automatic-Iris zoom lens control systems are especially suitable for use with the lightweight C-16 cameras, the announcement stated. The lens systems draw power from the same Nicad battery pack powering the entire CP-16 camera system.

A new TeleZoom designed to double the focal length of lenses for the Eclair camera has been announced by Birns & Sawyer, Inc., 1026 N. Highland Ave., Los Angeles,

CA 90038. The TeleZoom, for both 16mm and 35mm, is a 5-element extender for CA-1 mounts. It converts the 12-120 Angenieux to a 24-240mm, the 25-250mm to 50-500mm and the 9.5-95mm to 19-190mm. It can also convert other zoom and prime lenses with the CA-1 mount. The TeleZoom (Catalog No. 1383) is priced at \$149.50.



A reflex viewfinder for the Cine-8 super-8 high-speed/time-lapse camera (*Journal*, p. 654, August 1972) has been announced by Visual Instrumentation Corp., 239 W. Olive Ave., Burbank, CA 91502. The viewfinder, designated Model R-10, is a complete through-the-lens system providing parallax-free viewing while filming. The design permits use of interchangeable "C" mount lenses. Existing Cine-8 cameras can be retrofitted with the R-10. New Cine-8s with the reflex viewfinder are designated Models SP-1R. The camera with the R-10 viewfinder is priced at \$1,700.



The Asaca ACC 5000 portable color TV camera developed by the Asaca Corp. of Japan has been announced by F&B/Ceco Industries, Inc., 315 W. 43 St., New York, NY 10036, exclusive distributors in the United States. The camera and backpack control unit, developed for mobility and fast on-site reporting, together weigh less than 22 lb. An NTSC (composite) signal is produced. The picture has a resolution of 500 lines at the center.

The camera head contains the optical system, preamplifier and deflection circuits and a $1\frac{1}{2}$ -in CRT-type viewfinder. The optical system consists of a 6×300 mm, 12.5-75mm, $f/2$ with electrically operated zoom drive and iris control, with a manually operated focus, three newly developed $\frac{1}{8}$ -in tubes and four filters. The three tubes are mounted in perfect alignment with protection against vibration, changes in temperature and height variations. The camera can be installed on a shoulder brace for news reporting or it can be used on a tripod, if desired.

The backpack contains plug-in modules for the principal camera control functions,

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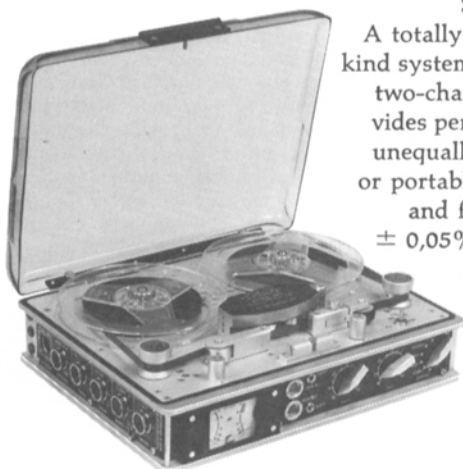
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* **Professional Accessory Line** (A full selection of professional accessories are available for each Stellavox recorder)



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Stellavox SP-7 The ruggedly built SP-7 is so compactly designed that you'll be amazed at how little it weighs (only 8 lbs. with tape and batteries). Wow and flutter: $< \pm 0,07\%$. Overall frequency response: 30 to 16,000 Hz ± 2 dB. Signal to noise ratio, weighted (ASA A filter) > 65 dB stereo and > 70 dB full track (at 50 mMx/mm).

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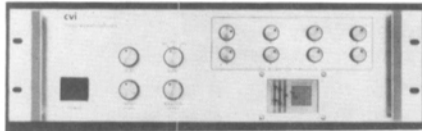
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including auto-white control, process amplifier, color coder, sync and test signal generators, high voltage generator, image enhancer and audio control unit for microphone intercom. Outputs are NTSC video at 1 V peak-to-peak and microphone.

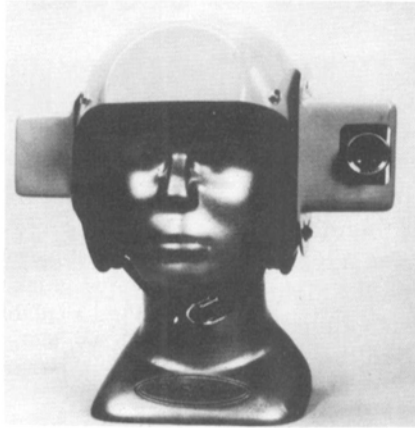
The system can be operated from an ac power source or from a battery voltage supply. When commercial ac power is used the stabilized power supply regulator of the control box is utilized. The control box also contains a cable compensating circuit and audio amplifier. Iris and pedestal remote controls can be incorporated.

The ACC 5000 can be coupled to a videotape recorder, installed in a mobile broadcasting unit or used on a studio floor. The price is about \$30,000.



The Video Quantizer, Model 606A, designed to generate synthetic color from monochrome TV signals, has been announced by Colorado Video, Inc., P.O. Box 928, Boulder, CO 80302. The device is intended primarily for television studio special effects production. The principle of operation involves the slicing of a normal video signal into eight discrete amplitude levels with subsequent intermixture of the eight signals to achieve a wide range of visual effects. Possible effects include equalizing, tone reduction, outlining, equal

brightness contouring, gray scale inversion, synthetic color generation, tinting and psychedelic pattern generation. Model 606A may be used directly with a monochrome camera and R-G-B color monitor for previewing or experimental work. A separate NTSC encoder is required for videotaping or broadcast of the synthesized color signals. Model 606A is priced at \$2,500.



The Gordon/Bell Camera Helmet, Model G/B16-B, has been announced by Alan Gordon Enterprises Inc., 5362 Cahuenga Blvd., North Hollywood, CA 91601. The helmet, manufactured exclusively for AGE Inc. by Bell-Toptex, Inc., has a compartment for a 16mm camera on the operator's left side and has a power supply which

also acts as a counterbalance on the right side. The G/B16-B accepts the Mini-Cam 16 camera and uses a 50-ft Eastman film magazine. The price is \$125.

A new battery-powered video level meter, Model VLM-1, has been announced by Kalart Victor Corp., Plainville, CT 06062. Designed for use in educational and closed-circuit TV systems, the unit connects into any video line during operation and indicates the TV camera's video output level. The device is 6¾-in long, 3⅝-in wide and 2½-in high. It weighs 1.2 lb. The unit facilitates matching the desired output video level of one or many TV cameras for consistent quality television pictures. It has a simplified, easy-reading meter face and can be used to set up and adjust the camera for proper lens setting and to determine whether the subject illumination is adequate. The VLM-1 is priced at \$63.90.



The Oak ESP (Expandable Scrambled Programming), a pay-TV system for cable television, has been announced by Oak Industries, CATV Div., Crystal Lake, IL 60014. The system is modular in concept, the first unit being the Oak Trimline Varactor Converter which has already been installed in a number of CATV systems. This unit can be returned for retrofit to enable the cable system to offer one-way pay-TV to the subscribers in the form of scrambled programming. The system can be expanded to two-way pay-TV by modification of the internal unit and addition of pushbutton selectors on the top of the unit. This modification is called IRS (Interrogatable Response System).

The switching (or scrambling) is controlled at the cable system's head end. It occurs during the vertical blanking interval of the desired programming for both video and audio. The ESP system is intended to free the cable system from subscriber attempts to manipulate the pay programming and also to provide the capability of various billing modes, such as per program, per series, per month, etc. The ESP system, consisting of the Trimline Varactor Converter, ESP one-way circuitry and IRS two-way circuitry, is about \$150. The converter is available separately at a price of \$35.90 in 10,000 quantities. Also available is the Jewel Case V-31 converter offering remote tuning capability.

The studio-type audio mixer 8/2, a compact, portable mixing desk, designed to meet the same technical standards as studio equipment of modular design, has been announced by Siemens Aktiengesellschaft, D-8520 Erlangen, Postfach 3240, Federal Republic of Germany. Printed circuit boards are used instead of conven-



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CP-16

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Shown above is the CP-16/A camera (with built-in Crystasound Amplifier), equipped with Angenieux 12-120mm zoom lens and built-in Automatic Iris Control (with manual override). Also shown is the CP-16 optional 24 fps/36 fps film speed selector switch.

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tional wiring to achieve compactness. Studio-type straight-line faders have been replaced by slider potentiometers of special design with specified tolerance limits. Two VU meters complying with the international VU meter standard have been provided for level control. The 8/2 is available with a carrying case made of glass-fiber epoxy resin or as a table-top version for use in a fixed system. A superstructure of the mixer accommodates two monitoring loudspeakers, two VU meters and, at the rear, the receptacle field for the inputs and outputs. The front panel carries the controls. Eight input channels, each pair forming an X-Y stereo channel, work into two master (output) channels via panpots. When coupling, for example, two mixers, 16 input channels and four output channels are then available. Price of the 8/2 is about DM 20,000.



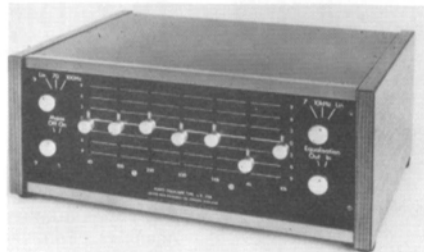
The Econobloc block converter for increasing channel capacity in cable television systems has been announced by Oak Industries Inc., CATV Div., Crystal Lake, IL 60014. It permits selection of 19 channels in ranges from 54 to 88 and 120 to 162.

It converts the mid-band to channels 7-13. The converter is compatible with existing head end equipment since it employs dual conversion and does not require inverted carriers. In addition, an isolation amplifier is provided in the channels 2 through 13 mode to prevent subscriber receiver interference from penetrating back into the cable system. A simple, two-position switch provides convenient operation. Price of the Econobloc is \$18.50 in 10,000 quantities.



The SE30 Gated Audio Compressor/Mixer, a professional broadcast component, combining a three-input mixer with a 600-Ω line output and a "hands-free" gain riding compressor in one, self-contained, portable unit, has been announced by Shure Brothers Inc., 222 Hartrey Ave., Evanston, IL 60204. The new compressor is adjustable to input requirements within a 40 dB range. Once the compressor is set it virtually rides gain automatically. A Gated Memory Circuit holds compression level when input signals stop or drop below a certain threshold, thereby eliminating the pumping effect normally associated with conventional audio compressors. When the desired program material returns, the "hold" is automatically released and the compressor goes back into action.

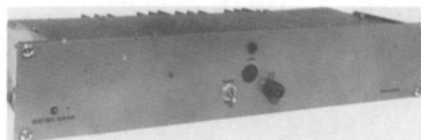
Because compression is accomplished "in the field" before the signal enters telephone lines or voice coupler, SNR is optimized. In studio use the SE30 rides gain on any type of program material. It is designed for maximum compatibility with all types of related professional equipment and can be powered by ac, dc, or its own self-contained batteries. Should the ac power fail, the SE30 automatically switches to dc (battery) instantaneously. Rugged epoxy-glass printed-circuit boards withstand the harsh treatment of frequent remote use. The SE30 is 15 in wide, 10 in deep, 3 1/16 in high and weighs 9 lb 13 1/2 oz with batteries and line cord. The price is \$310.20.



A new graphic audio equalizer, Type LR 720, an improved version of the Type A501 model, has been announced by Leever-Rich Equipment Ltd., 319 Trinity Rd., Wandsworth, London SW18 1YQ, England. The new model contains seven separately adjustable equalizers, each dealing with a section of the frequency spectrum, so that irregularities anywhere in the range can be corrected. The band spacing and curve shapes are so arranged that even when maximum equalization is applied in any band, or bands, the resultant response curve is free from discontinuities and will not introduce ringing. Switch high pass and low pass filters are provided and a by-pass switch enables the equalizer to be keyed in and out of circuit. The unit is designed for operation at zero level. The LR 720 is priced at £ 195 (the same price as the earlier A501 model).

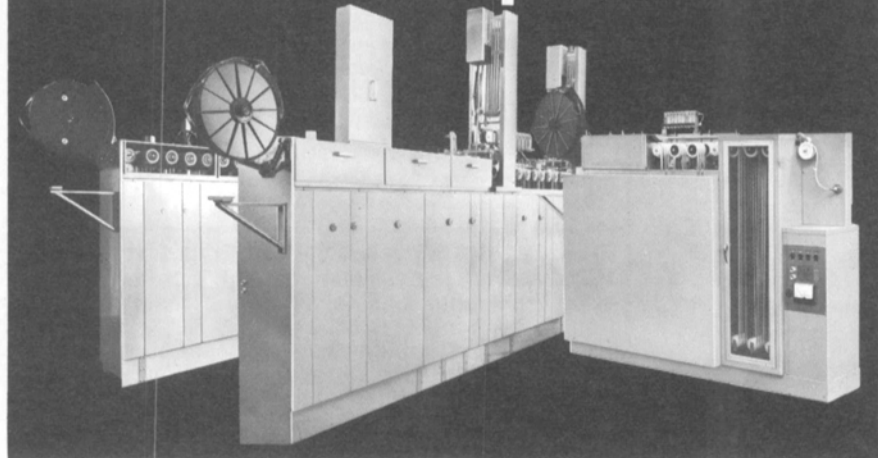
A new fishpole microphone boom, capable of extending from a minimum of 5 ft to a maximum of 12 ft, in three telescope-adjustable interlocking sections, has been announced by Alan Gordon Enterprises Inc., 5362 N. Cahuenga Blvd., North Hollywood, CA 91601. The boom is made of black, anodized aluminum and is supplied with a built-in microphone cable that is secured to prevent cable noise. Price of the boom is \$89.50.

Also available is a new microphone shock mount, which permits quick installation or removal of a microphone without tools and provides maximum isolation from shock, and a new power supply for Sennheiser condenser microphones which mounts to the shock mount. Both accessories are designed to mount on the AGE fishpole microphone boom. The shock mount is priced at \$25 and the power supply is priced at \$38.50.



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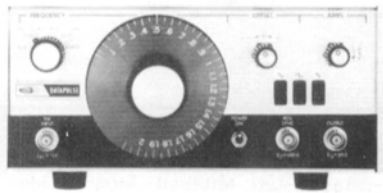
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fessional sound applications has been announced by Electro Sound Inc., 725 Kifer Rd., Sunnyvale, CA 94086. The unit, designated Model 950, is of all-solid-state design. It is intended for continuous non-attended service over long periods of time. Features include an internal current sensing circuit, to protect the unit from overloads and to hold its output within safe operating ranges, even if an accidental short should occur. The amplifier also has oversized heat sinks for the output transistors. Occupying 3½ in of vertical rack space, the unit provides a full 50-W rms output with less than 0.5% total harmonic distortion. It is powered by a 117-V ac input voltage of either 50 or 60 Hz; it can operate in ambient temperatures up to 55° C. Model 950 is priced at \$250.

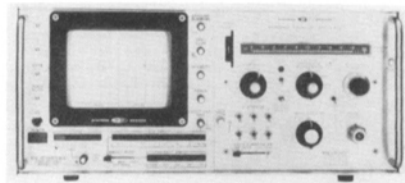


A new function generator, designated Model 400, has been announced by the Datapulse Div. of Systron-Donner Corp., 10150 W. Jefferson Blvd., Culver City, CA 90230. Features include 0.02 to 2 MHz frequency performance, dial accuracy ± 2% of full scale, 1000:1 frequency modulation, sine, square and triangle waveforms, with sine distortion less than 1%, and dc offset variable from -10 V to +10 V open circuit. Amplitude is 20 V peak-to-peak (open circuit) and 10 V into 50 Ω or 600 Ω. The output impedance is internally selected for 50 or 600 Ω. The frequency dial diameter is a full three inches with 1000:1 range over 275° rotation for full audio range coverage (20 Hz to 20 kHz) with reasonable resolution. The dial index is backlit by the pilot light for ease of setting with minimum parallax. Waveform selection is accomplished by pushbutton control. The price is \$250.

A new vertical amplifier, Model 1834A, which permits the display of four 200-MHz plug-in channels for separate display on the screen of any HP Model 183A oscilloscope, has been announced by Hewlett-Packard, 1501 Page Mill Rd., Palo Alto, CA 94304. Each input has a switch that can make it a high-impedance input with low shunt capacitance (1 MΩ, 12 pF) for probing applications, or a 50-Ω termination for transmission-line measurements. The 50-Ω terminations are internal to the instrument, and thus can be compensated for the normal scope input capacitance, maintaining high termination quality. The internal termination also makes possible high (10-V) maximum input. The bandwidth of each channel is dc (or 10 Hz when ac-coupled) to 200 MHz. Risettime is under 1.8 ns. Price of Model 1834A is \$1,900.

Low Pass Video Filters of nominal 75 Ω, which have been phase-corrected up to the cutoff frequency, are manufactured in England by Matthey Printed Products Ltd. and have been announced by Television Equipment Associates, Box 1391, Bayville, NY 11709. The filters have a sharp cutoff at the designed frequency and can be used

as video-band limiters during noise investigations. The ratio of the 45-dB frequency to the 3-dB frequency is 1.2335 for each filter. Twelve models are available with design frequencies ranging from 1.0 to 6.5 MHz. The filters can be supplied in metal boxes with BNC or MUSA connectors for studio or laboratory use or as PCB versions for installation in equipment. If supplied in the metal boxes, price of the filters is \$80 to \$100 depending on the quantity. On PC boards the price is \$65 to \$85.



Two new spectrum analyzer plug-ins, Model 809-1 and 809-2, have been announced by Systron-Donner Corp., Microwave Div., 14844 Oxnard St., Van Nuys, CA 91401. Model 809-1 covers the frequency range from 10 Hz to 12.4 GHz; Model 809-2 is designed to operate to 40 GHz with external mixers. Both units offer frequency spans to 2 GHz, 70 dB dynamic range, -115 dBm maximum sensitivity and resolution bandwidth down to 300 Hz. The new tuning units are of the swept front end, super-heterodyne type. A discrete transistor is used as the first local oscillator. Electronic tuning is accomplished by a YIG resonator. In order to ensure stability, the YIG's sphere is maintained at a constant temperature by a self-regulating oven. The oscillator assembly is enclosed in an RFI shielded, temperature compensated, sealed magnetic structure of a shelf-shielding type. The frequency range is covered in overlapping bands. Five bands are employed on the 809-1; eight are used to cover the range up to 40 GHz on the 809-2. The two units can be used in conjunction with the Systron-Donner Model 712 standard persistence display unit. Model 809-1 is priced at \$5,245 and Model 809-2 at \$5,150.

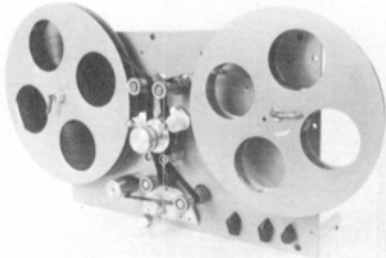


The Spectra PR-1000, a versatile photometer/radiometer, has been announced by Photo Research Corp., 3000 N. Hollywood Way, Burbank, CA 91502. The instrument can be used to measure illuminance (fc), luminance (fL), irradiance (μW/cm²), radiant power (μW), luminous intensity (mcd) and other special parameters. Pre-calibrated probes are available for measuring the various parameters. The photodetector in all PR-1000 probes is a silicon photovoltaic cell. The detector is solid-state, has broad spectral response and is stable and repeatable over long periods of time. It can be used for applications which do not require the extremely high sensitivity of photomultiplier tubes.

Among several single purpose probes are included the Illuminance Probe (IL-100),

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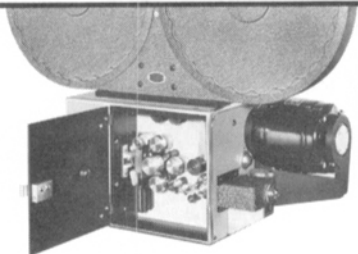
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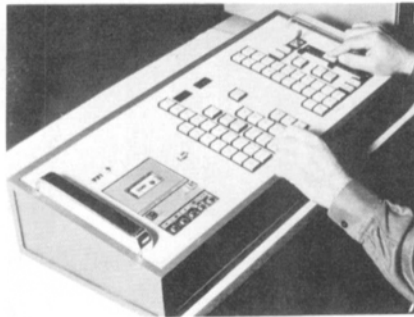
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filtered to match the human eye's response and used for direct-reading illuminance at low light levels, and the Luminance Probe (LM-100) which directly measures luminance over a 30° field. Also available is a multipurpose (4-filter) probe (MP-100) which can be equipped with different filters to measure up to four or more different parameters.

Shown above, grouped around the PR-1000, are (counterclockwise) the Integrating Sphere (IS-100), Photogrid (PG-100), Paddle Probe (Illuminance, Cosine-Illuminance, LED, Luminance, Radiometric or Unfiltered depending upon the detectors and filters used), Cosine Receptor (CR-100), LED Receptor (LR-3000A) and Multipurpose Probe (MP-100).

The PR-1000 Console for 117 or 230 V with an analog output jack is priced at \$995. A binary coded decimal (BCD) jack is priced at \$75 for installation in the console. Prices of the probes range from \$125 (for the unfiltered probe) to \$250 (for the cosine illuminance probe).



Plotlite, a portable electronic lighting control system, has been announced by Digital Display Equipment Ltd., P.O. Box 20, Horsham, Sussex, England. The system incorporates an electronic memory which allows any combination and intensity of lights for each successive scene to be stored during rehearsal and recalled during the actual performance by pressing the cue button. The information is automatically recorded on a magnetic tape cassette on a cue-by-cue basis, allowing storage of a complete library of lighting plots to be used, for example, by opera, ballet and repertory companies where a different show is presented each night.

Direct control of the lights from the memory or cassette does not prevent manual override of the sequence, if desired; a preset mode permits stored cues to be amended while the show is running and lighting programs to be lined up for future use without interfering with the lights being employed on the stage at that moment. The cassette backup for the memory allows the number of cues for a given show to be expanded indefinitely by blocks of 64. They can be substituted, added or subtracted with crossfades of variable duration; the speed of operation is such that even complex cues can be set into the equipment in less than one second.

Designed on a modular basis, Plotlite can be upgraded at any time from a basic 32 lighting channels to a maximum of 256 in blocks of 32. The equipment consists of a control desk weighing 30 lb and small enough (27 by 11 by 6 in) to be balanced on the knees. Price range is from £ 3,500 for a 32 channel 32 cue system to £ 10,000 for a 120 channel 120 cue system. Plotlite

is also available as a free-standing electronic console measuring 200 by 20 by 30 in and weighing 70 lb. The controls are simple, illuminating pushbutton switches, color-coded for ease of identification.

A new 1500-W tungsten-halogen stage/studio lamp with an average rated life of 100 h has been announced by GTE Sylvia Inc, Danvers, MA 01923. The new lamp, called DTA, is intended to replace 1500-W incandescent lamps in situations where follow spotlights are used without modifying the spotlights or using adapters. The DTA is available with a mogul prefocus base. It provides 39,000 lm at 3200 K at 120 V. It can be used in base-up, base-down or horizontal positions. The price is \$40.

Eastman High Contrast Panchromatic Film 5369, a high-resolution, panchromatic, intermediate black-and-white film intended mainly for process photography, has been announced by Eastman Kodak Co.'s Motion Picture and Education Markets Div., 343 State St., Rochester, NY 14650. The film was formerly designated SO-389. Price per ft is \$0.0590.



The CCI/KC 16mm magnetic sound-track reader, a twin-headed magnetic reader, designed to be attached directly to the front of a Moviscop viewer, has been announced by Calvin Cinequip, Inc., 215 W. Pershing Rd., Kansas City, MO 64108. The unit, made of anodized aluminum, can be mounted on any Moviscop without drilling holes in the Moviscop. It has two magnetic heads, a built-in mixer and separate volume controls for each magnetic head. The heads can be adjusted to read edge or center track and can be flipped to read oxide up or oxide down. Once installed the magnetic reader can be detached from and replaced on the Moviscop without the use of tools. The reader can be supplied with either a 4-pin amphenol plug or a standard phone jack. The price is \$200.

Prima High Gain front projection screens, a new series for use in classrooms, exhibits, conference rooms and other situations where room darkening is impractical or undesirable has been announced by Hudson Photographic Industries, Inc., 2 S. Buckhout St., Irvington-on-Hudson, NY 10533. The projection surface of the new screens is a metalized, flexible, plastic mirror-surface, held optically flat under

tension on an aluminum frame. Each screen is equipped with an adjustable support, so that the screen may be used either free standing or hung from a wall. The screen support is adjustable, so that the screen can be locked to the wall surface at a specific angle to eliminate keystone. The new screens reflect projected light in an oval-shaped cone with a horizontal spread of about 110° and a vertical spread of about 30°. The screens are available in three sizes—48 by 48 in at a price of \$69.50; 36 by 48 in at \$49.50 and 24 by 32 in at \$39.50.

The Lectron solid-state control designed

for use with slide projectors in the 500- to 1000-W range, has been announced by Lectron Corp., 21839 S. Avalon Blvd., Carson, CA 90745. The control, providing surge-free starting and regulation, is reported to increase the life expectancy of the lamp to about twice that without use of the control. The control contains an air-gap disconnect as well as a fuse for protection against overload. Features include smooth, surge-free turn-on from zero to steady state; overvoltage regulation; pilot light indicator; and life expectancy in excess of 100 million cycles. The control contains 100 in³ and weighs 3 lb. The price is \$77.50.

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Available. Dec. 1945–Mar. 1952, plus 1936–1945, 1946–1950 indexes; 1946 and 1950 Membership Directories; Theatre Television (1949); High-Speed Photography, Mar. 1949 (2 copies) and Nov. 1949. John P. Lowe, Avery Hts. Dr., Holden, MA 01520.