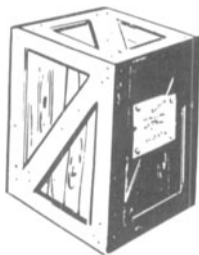
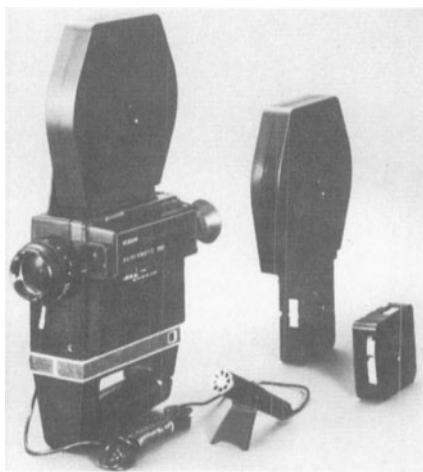


new products

(and developments)



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



Four new sound super-8 products designed for professional use have been announced by Eastman Kodak Co., 343 State St., Rochester, NY 14650. They are (1) the Kodak Supermatic 200 sound camera, (2) a 200-ft capacity sound super-8 cartridge for magnetic prestriped super-8 film, (3) a super-8 Ektachrome film and (4) a compact, automated super-8 film processor.

The Supermatic 200 is an existing-light, single-system sound super-8 camera that runs at 18 and 24 frames/s with 18-frame picture-to-sound separation. Features include acceptance of 50-ft and 200-ft silent and sound super-8 cartridges, manual and automatic exposure control, automatic gain control in sound recording with an alternate microphone input providing a 10-dB reduction in amplifier pickup to reduce ambient noise, and manual zoom control. The camera, to become available by mid-1974, will be priced at \$425.

The super-8 film cartridge has a capacity of 200 ft of silent or magnetic-sound super-8 film. Films available from Kodak in the new cartridge will include silent and prestriped Kodak Ektachrome EF film 7242 (tungsten) and Kodak Ektachrome SM film 7244.

Kodak Ektachrome SM film 7244 is available in 50- and 200-ft cartridges. It has ASA speeds of daylight (with type A filter) 100 and (tungsten) 160. It is available only in the super-8 format.

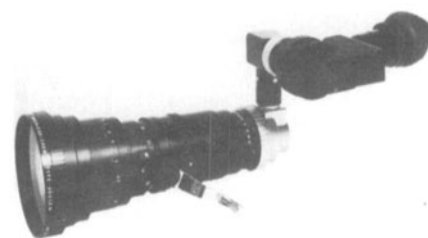
The Kodak Supermatic 8 processor is a compact, automated super-8 film proces-

sor with automatic replenishment, self-contained replenisher mix and storage tanks. Designed for use in an office environment, it accepts bottled chemicals. The processor is cartridge-loading, accepting 50- or 200-ft super-8 cartridges. It operates at 10 ft/min with a process time of 8½ min; a 50-ft roll is ready for showing in 13½ min. The processor operates on a 240-V, 45-A, single-phase, 50 or 60 Hz, two-wire electrical service. Plumbing requirements include two hoses, one providing a cold water supply at 45 to 100 F and the other providing drainage at a rate of up to 10 gal/min. Processor ES-8 chemicals include First Developer, Stop, Color Developer and Bleach-Fix. All chemicals are liquid concentrate packaged in premeasured plastic containers that are color- and shape-coded to help minimize operator error in loading. Each ES-8 processing kit can process 5,000 ft of film. The Supermatic 8 is 49 in high, 32 in wide and 53 in long. It weighs about 730 lb dry and about 930 lb with chemicals. It will be available in mid-1974 at a price of \$12,500.

The Schneider TV Variogon 20-600 mm, a new zoom lens for use in color TV filming, designed as "a link in the chain from the object to the television image," has been announced by Jos. Schneider & Co., Optische Werke Kreuznach, D-6550 Bad Kreuznach, P.O. Box 947, West-Germany. The lens is available in the United States from Tele-Cine Inc., 18 Unqua Rd., Massapequa, L.I., NY 11758. The lens is light in weight (4.6 kg without a beamsplitter) and has an extended zoom range of 30:1, continuous. It permits a close working distance of 33 in. The lens is priced at about \$17,500, with variations in price dependent on the camera. The new lens is described in detail in a paper by K. Macher, "New Design Principle for High-Ratio Zoom Lenses," on earlier pages of this issue of the *Journal*.

The Zoomar Mark XB-2, a motorized zoom lens for closed-circuit TV applications, has been announced by Zoomar, Inc., 55 Sea Cliff Ave., Glen Cove, NY 11542. The new lens, 15-150mm, *f*/2.5 with a permanently-installed attenuator, has been designed for operation with LLLTV camera which incorporates various kinds of image-intensified vidicons. The attenuator, located adjacent to the physical diaphragm, has a variable radial density up to 3.20 ND in its center with a transmission loss of ½ stop. The iris can be controlled through a servo mechanism from the automatic gain control of the camera, providing an automatic exposure control system. The new lens, used with an LLLTV camera equipped with an image-intensified vidicon, permits operation from bright daylight to starlight illumination. The Mark XB-2 is priced at \$1,790.

The Tesni, an adapter that mates all bayonet-mount Nikon and Nikkor lenses to the 16mm Eclair standard camera mount, has been announced by Eclair Corp. of America, 62 W. 45 St., New York, NY 10036. The adapter is said to provide a fast, positive, secure connection in less than a second and it can be used even with heavy gloves. The price is \$235.



The Periflex viewfinder system which permits filming in various camera positions, such as overhead or low angle while viewing the image in an erect position is available for five Angenieux type "A" lenses, it was announced by Angenieux Corp. of America, 440 Merrick Rd., Oceanside, NY 11572. The lenses for which the system is available are the 9.5-57mm; 9.5-95mm; 12.5-75mm; 12-120mm; and 12-240mm. The Periflex system which consists of the Angenieux orientable viewfinder and an intermediate adapter to the type "A" viewfinder lens replaces the regular viewfinder by means of four screws. No optical test equipment is needed to install the system.

A new sound Barney made specifically for 400-ft ACL magazines has been announced by Eclair Corp. of America, 62 W. 45 St., New York, NY 10036. The new Barney, designated ABIPP, is intended for applications requiring suppression of minute, extraneous sounds. It weighs 1½ lb. Other barneys available from Eclair Corp. include ANAPP, for 200-ft ACL magazines, and ASLEEP for 400-ft NPR magazines. The ABIPP is priced at \$135.

The Maxal, a new aluminum underwater camera case designed specifically for the Maxic-ACL package has been announced by Eclair Corp. of America, 62 W. 45 St., New York, NY 10036. The new case is a Halliburton deep-flotation case providing maximum protection for an ACL body, plus two 400-ft magazines, lens, battery, battery charger and small accessories. Dust-, water- and shock-resistant, the unit is 22 in wide, 17½ in high and 9 in deep. The price is \$200.



A self-propelled van unit for location filming has been announced by Camart Mobiles, Inc., 456 W. 55 St., New York, NY 10019. Called the CMV-1, the van is 27 ft long and 10 ft, 3 in high. The front cabin, air conditioned and heated, serves as dressing room, office, communications center and other functions. A two-position camera platform is on top of the vehicle and beneath it is a roomy storage area with space for a crab dolly (Moviola or Elemack) which rolls in and out on its own collapsible ramp with the aid of an electric winch. There are ten separate modular

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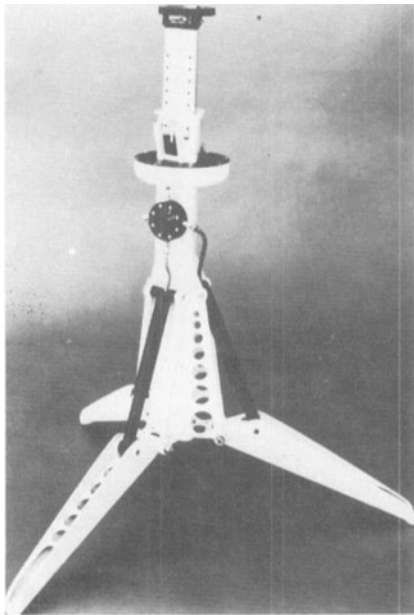


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storage compartments for lights, grip equipment, cameras, etc. The CMV-1 is available on a rental basis.

Complete mobile location facilities for motion picture and TV productions are available on a rental basis from Birns & Sawyer, 1026 North Highland Ave., Hollywood, CA 90038. The truck is designed to carry a full complement of cameras and accessories and sound, lighting and grip equipment. It is equipped with four large jockey boxes, interior light, adjustable shelving and a large, heavy-duty lift gate. The truck has a five-speed transmission and two-speed axle. A 3-A generator supplies ac power for tools and work lights inside and out. The generator utilizes 2 gal of diesel fuel an hour. The equipment, including the generator and truck, is supplied at a rental rate of \$1,200 a day or \$4,800 a week.

The Hervic Super Mini Hydrofluid tripod has been announced by Hervic Corp./Cinema Beaulieu, 14225 Ventura Blvd., Sherman Oaks, CA 91403. Specifically designed for cameras weighing up to 20 lb, the tripod is manufactured by National Cine Equipment and features a jerk-free hydrofluid movement. The tripod measures 66 in when fully extended and weighs 14½ lb. It pans to 360° and tilts at ±90° from center. It can operate from -60 to 350° F. Price of the tripod is \$479.95. The Super Mini head alone is \$379.95.



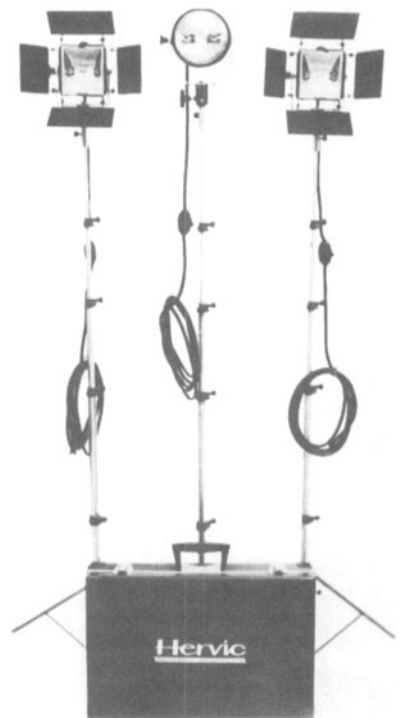
The O'Connor 102 Hydroped, a tripod designed to support cameras weighing up to 100 lb or more, has been announced by O'Connor Engineering Laboratories, Inc., 100 Kalmus Dr., Costa Mesa, CA 92627. The tripod has hydraulically controlled legs for fast and easy leveling that lock at the push of a button. The legs are adjustable to any slope up to 45°. Features include a single column support similar to those used on television pedestals. The top mounting plate can be raised to 60 in or lowered to 30 in from the floor. Of magnesium construction, the unit weighs 19 lb and folds to 9½ in to 30 in. Price of the 102 Hydroped is \$1,395.

Osram Metallogen® lamps, developed by Osram, Munich, Germany, have been announced by Macbeth Sales Corp., a subsidiary of Kollmorgen Corp., P.O. Box C, Newburgh, NY 12550. The lamps, designated HMI and HCI, are of the metal-halide type. The HCI, a 400-W lamp is designed especially for overhead projection. The HMI lamps, for motion-picture and television lighting, were developed originally for use in German TV production in lighting outdoor pickups. The HMI lamps are available in 575-, 1200-, 2500- and 4000-W sizes. Operating on ac, the operating voltage ranges from 95 to 200 V and the current ranges from 7 to 26 A. The lamps have a color temperature of 6000 K and range in size from a length of 145 mm and diameter of 21 mm to a length of 405 mm and diameter of 38 mm. The light output is 85 to 110 lm/W. The Metallogen lamp's output results from a combination of the spectral power distribution of seven elements — the use of rare earth iodides results in a color rendering index of over 90. The arc position depends on the type of lamp, extending from horizontal to arbitrary to vertical. The lamps require only small and lightweight housings. Because of their short arc they can be used in parabolic and Fresnel spotlights. With suitable ignition equipment the HMI lamps can be easily re-ignited even when hot. Prices begin at \$200 for the 575-W HMI lamps. The 1200-W lamp is priced at \$400; the 2500-W at \$600 and the 4000-W at \$800.

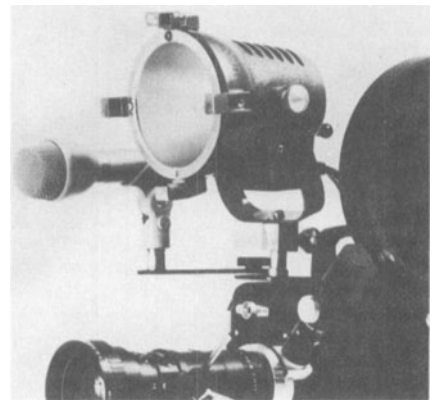


Two new Quartzline® light sources for motion-picture and television production have been announced by General Electric Co., Nela Park, Cleveland, OH 44112. The new units are 1500- and 2000-W scoop lamps, so called because they are designed for use in 16- or 18-in scoop-shaped reflectors. They are intended to provide lighting which creates softer, more diffuse shadows than smaller lamps of equal wattage. The 1500-W lamp is identical in size and physical appearance to the earlier 1000-W version. The outer bulb is 6½ in in diameter and 13 in in overall length. A quartz tungsten halogen filament tube is mounted inside along the axis of the bulb.

The 2000-W lamp has no outer bulb. The Quartzline tube is 1 in in diameter and about 4 in long. The lamp has a maximum overall length of 11¼ in. The new 1500-W lamp is priced at less than \$27 and the 2000-W lamp at less than \$44.



Hervi-Quartz Lighting Kit 6 has been announced by Hervic Corp., 14225 Ventura Blvd., Sherman Oaks, CA 91403. The kit contains one JF/850 focusing spot; two JR/650 fill lights with integral four-way barn doors; three lightweight professional stands; three stand adapters and three 650-W quartz lamps. The package, priced at \$379.50, includes a 12-ft cord with in-line power switch for each light.



The Sturdy-Lite Focusing Spot Light, a quartz lighting fixture designed for use as a TV-newsfilm/documentary camera-mounted light, has been announced by Cinema Products Corp., 2044 Cotner Ave., Los Angeles, CA 90025. The new focusing spot can be used with a 250-W lamp and 30-V battery pack or with a 600-W lamp operating at 120-V ac/dc. The fixture weighs 12 oz. It is supplied with a yoke, which accepts a ½-in stud, and a detachable 10-ft, 3-wire cable (parallel blade U-ground) with in-line switch. The price is \$54.

The Sitalux S stage lighting control system has been announced by Siemens Aktiengesellschaft, D-8520 Erlangen, Postfach 3240, Germany, and by the firm's United States representative, Siemens Corp., 186 Wood Ave. S., Iselin, NJ 08830.

The system contains a Siemens process computer 320 which acts as a central control. Features include high operational reliability; four or more independent groups; any desired crossfading without light failures; immediate intervention at each channel without any sudden light changes; storage of individual channel intensities, group fader settings, time sequences, etc.; 100 or more memory locations; additions, subtractions and automatic recall of memory locations and groups; various possibilities for special effects; channel indication with data display unit or light-emitting diodes; and thyristor dimmers with high control accuracy. All operating elements for the dimmer installation are assembled on panels and fitted into a desk. The panel measures about 500 by 700 mm.

Traveliter quartz kits developed especially for use in closed-circuit TV but which are also applicable to motion-picture production have been announced by Packaged Lighting Services, Inc., Grant St., P.O. Box 285, Walden, NY 12586. The lighting kits use quartz halogen lighting exclusively. The kits range in price from \$192.60 to \$571.75.

Chromatech, a video processing device for superimposing two sources of NTSC video into one composite TV picture without the disadvantage of undesirable halos and black outlines, has been announced by the American Astrionics Div. of Technicolor, 291 Kalmus Dr., Costa Mesa, CA 92626. Chromatech is a new NTSC version of Technimatte which has been in use for several years at Vidtronics, formerly a division of Technicolor. Features of Chromatech include the ability to cast foreground shadows on background scenes; the ability to see through glass, Saran wrap and smoke; and freedom from dark outline around foregoing objects. The device can accept two input sources of NTSC video with a common synchronizing signal. The color keying signal that causes transitions between foreground and background is developed from the foreground video source in the form of RGB video. The keying signal can be preset to gate on any desired backdrop color by means of a front-panel Hue control. The device is designed for standard 19-in rack mounting. The dimensions are 5¼ by 19 in and 15 in deep. The price is \$4,995.

A new closed-circuit TV camera, Model CTS-11, has been announced by Moxon Inc./CTS Div., 2222 Michelson Dr., Irvine, CA 92664. Features include 600 lines of horizontal resolution and special internal circuitry to compensate automatically for varying scene illumination of 10,000:1. Other features are 15,750 Hz horizontal sweep rate, 60 Hz vertical sweep rate and scanning with random interlace, 525 line/frame, 30 frame sound. The camera is 5½ in wide, 3½ in high and 11¾ in deep. It weighs 8 lb. The price is \$652.

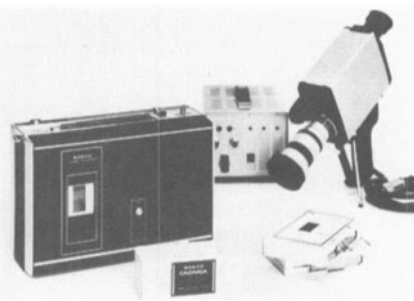
A 9-in video monitor, Model VM-4092, has been announced by Sanyo Electric Inc., 1200 West Artesia Blvd., Compton, CA 90220. The monitor can be used in such applications as student or employee education and training, as a surveillance

or information display monitor, in studio applications as a camera or a program monitor or time-lapse VTR as a record and/or playback monitor. The monitor has all-solid-state circuitry and incorporates recent developments in silicon semiconductor technology. It has a rugged construction to provide reliable operation in a wide range of environments. The price is \$205.

An adjustable video delay unit, the UN.360, manufactured in England by Matthey Printed Products Ltd., has been announced by Television Equipment Assoc., Box 1391, Bayville, NY 11709. The unit, fitted with BNC connections, has a range of 10 ns to 325 ns in 5-ns steps by switches and a fine trim of ±4 ns by screw adjustment. It can be used for delaying up to and beyond 360° of phase at color sub-carrier in PAL, SECAM or NTSC systems. The UN.360 can be used as a timing tool, a temporary delay line or a permanent delay installation. The price is \$225.

The TR-61, a new quadruplex video recorder, has been announced by RCA Government and Commercial Systems, Moorestown, NJ 08057. The new video recorder can produce NTSC color pictures in one second from "standby" and two seconds from "stop." Recorder lockup times for PAL operation are 1.5 s and 2.5 s. The TR-61 uses Alfecon II material for the headwheel pole tips. Features include rear-side erase heads, extensive picture and waveform monitor switching facilities, a built-in tape-motion sensor and three composite or non-composite video outlets. It is prewired for installation of such accessories as an electronic splicer, a tape-edit programmer, a color dropout compensator and a chroma amplitude and velocity error corrector option. It is available in two models, one for NTSC operation and the other for either NTSC or PAL operation. Dimensions are 33 in wide, 24 in deep and 66 in high. The price is \$75,000.

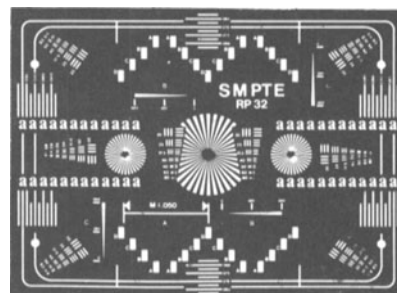
The Laser Color Film Recorder for tape-to-film transfer will be installed in Rank Film Laboratories, London, Consolidated Film Industries, Hollywood, and Byron Motion Pictures, Washington, D.C., it was announced by CBS Laboratories, High Ridge Rd., Stamford, CT 06905. The machine can record directly onto reversal film and also onto negative film. The (then) recently developed machine is described in the September 1971 issue of the *Journal* by Beiser, Lavender, McManh and Walker ("Laser-Beam Recorder for Color Television Film Transfer" (pp. 699-703)).



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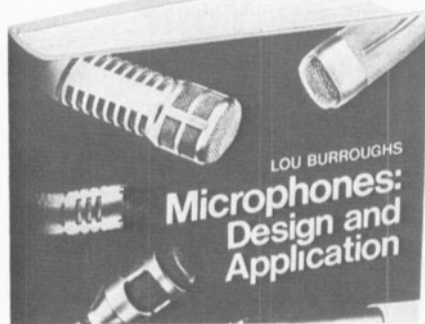
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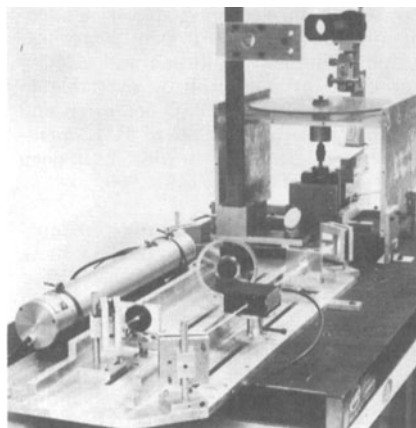
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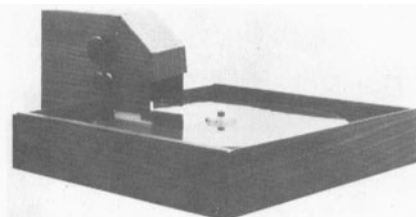
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has been announced by Sanyo Electric Inc., 1200 West Artesia Blvd., Compton, CA 90220. The machine measures 12 by 5 by 8 in and operates either on ac or batteries. Features include a 4-head playback system for slow-motion playback and still frame monitoring. It uses the VT-20C video cassette which weighs 9 oz and provides 20 min of programing using 1/2-in videotape. Price of the VTC-7100 cassette recorder is \$1,845. The entire system, including camera and accessories is \$2,695.

The IOM Video Disc System consisting of three integral elements—film, recorder and playback device—in which video and audio signals modulate a laser beam which exposes a spinning disc made of high-resolution black-and-white film, has been developed by i/o Metrics, 1050 Stewart Dr., Sunnyvale, CA 94086. The real-time recording produces a continuous spiral track that, stretched out, would equal 30 miles for a one-hour program. Each revolution of the disc contains one full-color video frame. The film disc containing the latent spiral tracks is processed using conventional photographic techniques. The recording method is somewhat similar to recording an optical soundtrack on motion-picture film. Recording TV signals on high-resolution photographic film differs from processes using grooves, in that the track is embedded photographically into the film and read optically. The playback unit for the discs is a turntable having a motor, lamp, lenses, photodiode, tracking mirror, and automatic signal processing electronics. The player attaches to the antenna terminals of a conventional television set.



Components of the recording unit include a laser, an acoustical-optical modulator, an optical mirror and lens system with the recording medium (film) rotated on a disc. The recorder can provide NTSC and PAL color capabilities as well as black-and-white audio-video signal production. The recorder will be priced between \$20,000 and \$30,000.



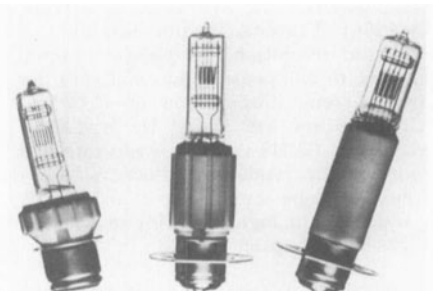
The playback unit has a 12-in diameter clear glass table that rotates at 30 r/s. It

uses a white light, low-powered projection bulb as an illuminator to project the recorded image into a light-focusing lens. The image is projected onto a servo-controlled mirror system and is then projected to a light detector system. The playback unit will be priced at about \$300.

Model AO-12 Output Interface for EIAJ videotape recorders, designed to correct problems of low audio level and unbalanced output of 1/2-in tape helical scan video recorders, has been announced by Ultra Audio Products, Box 921, Beverly Hills, CA 90213. The device has volume control which boosts the low audio output of EIAJ-type video recorders to +8 dBm at 600-Ω balanced, broadcast standard for connection via patchcord to studio facilities, mixer-amplifiers and to other videotape recorders for dubbing. The companion AI-12 Input Interface bridges 600-Ω broadcast lines and connects to EIAJ VTR input. Isolation prevents shorting active circuits. The AO-12 is priced at \$125 and the AI-12 at \$75.

A new magnetic tape eraser designed for use in professional sound and video recording studios, broadcast stations and for computer, telemetry and special purpose applications, has been announced by Microtran Co., 145 East Mineola Ave., Valley Stream, New York, NY 11582. It provides complete bulk erasure of program and residual noise from magnetic tapes up to 2 in wide on reels up to 17-in diameter and magnetic sound film up to 35mm. It may also be used for video and sound cartridges and cassettes. Intended for heavy-duty professional use, it has two degaussing coils for thorough erasing. It measures 41 by 12 in and is 4 in high. It weighs 33 lb and has a standard 1/16-in spindle. The price is \$150. An NAB adapter hub is available at a price of \$3.15.

MO-2228, a new high-energy, small particle, gamma ferric oxide of high acicularity has been announced by Pfizer Inc., 235 E. 42 St., New York, NY 10017. It has a high degree of orientation in magnetic tape resulting in squareness ratios not obtainable with other γ -Fe₂O₃ particles (as high as 0.90). It possesses also an intrinsically narrower switching field distribution; therefore, magnetic tapes made with MO-2228 are reported to have a high remanent flux, improved sensitivity at both low and high frequencies, low noise and high signal-to-noise ratios.



Three new tungsten-halogen lamps for use in television film-chain projectors have been announced by GTE Sylvania Inc., One Stamford Forum, Stamford, CT 06904. The 300-W EEX (left) provides

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7,200 lm and operates at 3200 K; it is priced at \$15.60. The 500-W DZG (center) provides 13,000 lm at 3200 K; the price is \$19.50. The 1000-W BTC (right) provides 31,000 lm at 3325 K; the price is \$21.50. The lamps have been designed as direct replacements for incandescent types without the use of adapters. They provide constant illumination and color temperature throughout their life and may be burned in any plane.

Porta-Pattern Test Charts for use in the set-up and maintenance of black-and-white and color telecine cameras have been announced by Telecommunications Industries Ltd., 414 North Alfred St., Los Angeles, CA 90048. The test slides, available in 2- × 2-in or 3¼- × 4-in formats are glass-protected. Geometric slides are available in positive or negative patterns and in two different color slides. The 2- × 2-in slides are priced at \$120; the 3¼- × 4-in slides, at \$205. Test films are available in both super-8 and 16mm formats with prices ranging from \$35 to \$80.

A Multi-Filter Radiometer Head, Model 820-10B, and a Cosine/Telescopic Photometer/Radiometer Head, Model 820-16, have been announced by Gamma Scientific, Inc., 3777 Ruffin Rd., San Diego, CA 92123. Model 820-10B contains a silicon detector and has a filter wheel for mounting up to eight spectral filters. Each filter has a separate electrical normalizing control so that the instrument may be calibrated for direct reading in any type of

spectral units. A telescope, cosine receptor, or fiber optic probe may be connected to the head. The head may be used for abridged spectroradiometry and ERTS ground truth measurement. The price is \$725 without filters and receptors.

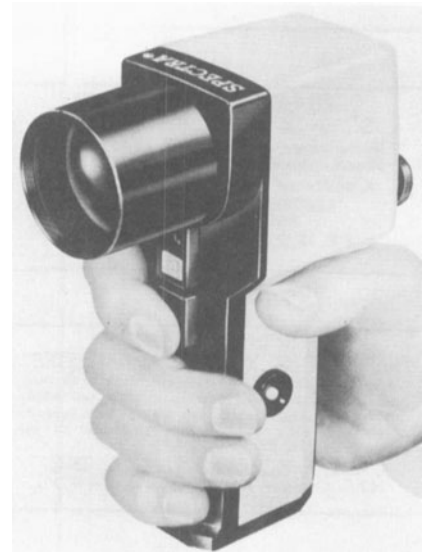
The Model 820-16 contains both cosine and telescopic receptors, and photopic and radiometric filters. Luminance (fL, illuminance (fc or lx), radiance (μ W/cm²sr) and irradiance (μ W/cm²) measurements may be made. Sensitivity is automatically adjusted when changing either receptors or filters. It is radiometrically flat from 450 nm to 1000 nm. The price is \$705.

The heads are interchangeable with heads for the Model 820 Laboratory and 900 Portable Photometer/Radiometers.

Interchangeable probes for light measurement requirements for use with the J16 Photometer/Radiometer have been announced by Tektronix, Inc., P.O. Box 500, Beaverton, OR 97005. The J6511 is an illuminance probe with readout in fc or lm/m² (lux) for the J6511 opt. 2. A multi-layer glass filter and silicon photodiode facilitate a close match to the CIE photopic curve. The silicon sensor recovery time is virtually instantaneous and low light levels can be measured immediately after exposure to bright sunlight. The probe's sensitivity range is from 0.001 to 1990 fc or 0.01 to 19,900 lm/m². The price is \$250.

The J6512 Irradiance Probe is corrected to provide a flat spectral response within 7% over the spectral range of 450 to 950 nm. The price is \$250. The J6514 Uncor-

rected Probe is designed for applications where only relative measurements need to be made. An ultraviolet-enhanced silicon sensor is used with an ultraviolet transmitting window giving extended spectral response. The price is \$150.

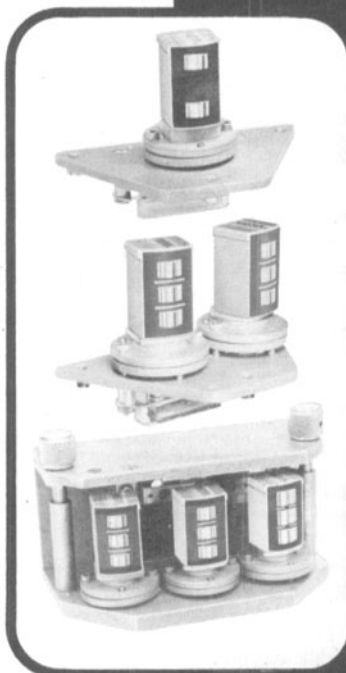


The Spectra Mini-Spot Silicon Cell Spotmeter, a compact, handheld photometer suited for field use, has been announced by Photo Research, Div. of Kollmorgen Corp., 3000 North Hollywood Way, Burbank, CA 91505. The instrument has see-through optics and the meter reading is displayed simultaneously in the viewing field. Features include a computer-selected filter (to match the human eye response) and an ultra-stable silicon photodetector for maximum accuracy and repeatability. The Mini-Spot uses a drift-free silicon cell photodetector in conjunction with solid-state amplifiers for accuracy, repeatability and freedom from hysteresis and fatigue. The instrument can measure either luminance or illuminance from 0 to 100,000 fL or fc with readability down to 0.5 fL or fc. The Mini-Spot is priced at \$550. Accessories include a reflectance standard for measuring illuminance, candlepower, screen gain, etc. (\$32); 10× attenuator for extending the range by a factor of 10× (\$20); and a 100× attenuator for extending the range by a factor of 100× (\$25).

The Rebikoff color temperature meter, designed in Switzerland for determining color fidelity within a range from 2,000 to 10,000 K and 500 to 1,000 mired, has been announced by Karl Heitz, Inc., 979 Third Ave., New York, NY 10022. In use, a dial containing photoelectric cells and filters is held toward the light source and turned until the needle is exactly centered. Yellow arrows indicate both the color temperature in degrees Kelvin with 1.5 to 2.5% accuracy and recommended filters for standard color films. The Rebikoff meter with additional filter charts is priced at \$89.95.

The Model 6500 Recorder Test Set designed to show at a glance whether or not audiotape recorders and other audio systems are operating correctly has been announced by 3M Company, P.O. Box 33600, St. Paul, MN 55133. The instrument has

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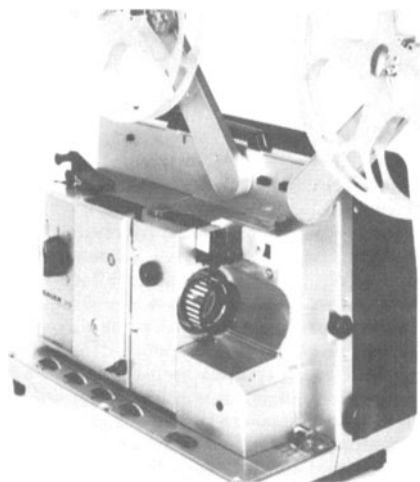
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calibrated color bands to indicate acceptable, marginal or unacceptable performance of the device being tested. The meter reads a composite signal for testing input and output levels, frequency response, harmonic distortion, signal-to-noise ratio and tape transport flutter for a wide cross section of audiotape recorders and systems; for example, the flutter and harmonic distortion levels can be measured up to 3% maximum and SNR from 20 to 50 dB. The unit is 10¼ in wide, 12 in deep and 5½ in high. It weighs less than 10 lb and uses either ac power or six standard "D" cell batteries. The price is \$1,595.

An audio monitoring system with a standard ¼-in headphone jack output can be installed in the back of Frezzi-Cordless professional 16mm TV Newsfilm/Documentary cameras as optional equipment, it was announced by Frezzolini Electronics Inc., 7 Valley St., Hawthorne, NJ 07506. The electronic circuits of the audio monitor are completely contained within the camera body and draw almost no power from the internal camera battery. The new system is compatible with all Auricon-type amplifier systems and can be pre-set to required levels. It permits the camera to be used as an independent dubber/monitor. Price of system installed is \$250.

A new line of broadcast audio consoles with 6, 8 or 10 channels has been announced by Ampro Corp., 2220 Maplewood Ave., Willow Grove, PA 19090. Each configuration will be available in mono, dual mono and stereo versions. Features include step-type silver contact faders; four muting relays with programing board for feedback-free origination from four locations; built-in cue and talkback system; and built-in headphone amplifier. Prices range from \$1,595 to \$3,695.

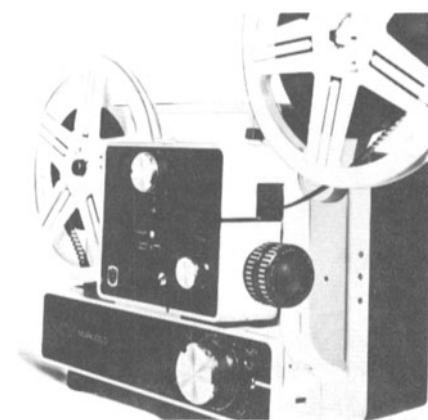


The Bauer P6 optical sound projector has been added to the Bauer line of 16mm motion-picture sound projectors, it was announced by AIC Photo, Inc., 168 Glen Cove Rd., Carle Pl., NY 11514. The new projector is equipped with optical sound reproduction and automatic threading. It has a light output of 24 V, 250 W. A master control switch permits running the projector at full or reduced light. The projector is equipped with a 50mm f/1.3 lens. Should the film break, a film-fail switch

automatically stops the projector. A 25-W solid-state amplifier can carry sound in a space large enough to contain 1,000 people. The Bauer P6 weighs 30 lb and has a 2,000-ft reel capacity. The price is \$1,095.

Three new super-8 and dual-8 sound projectors have been announced by Eumig (U.S.A.), Lake Success Business Park, 225 Community Dr., Great Neck, NY 11020. All three projectors are 12½ in long, 5¾ in wide and 8½ in high. New features include operational indicator lamps (red is straight sound recording and amber is sound-on-sound recording); a new film/soundhead contact designed for improved treble response and minimal wow and flutter; and improved design of the 18 to 24 frames/s mechanism for minimizing switching noise and generating greater power reserve for rapid rewind. The Mark S 807 Super-8 Automatic Projector has a pre-heated, 12-V, 75-W dichroic tungsten halogen bulb, an f/1.6 17-30mm Vario Eupronet projection lens and features automatic film threading into a 600-ft take-up reel and automatic adjustment to 18-frame separation between sound and image. It is priced at \$359.95. The price includes bulb, power cord, 400-ft automatic take-up reel, microphone, film trimmer, instructions and registration card. The Mark S 810D is identical to the Mark S807, but with an additional facility for projecting standard 8 films (with automatic adjustment for 56-frame separation between sound and image) as well as super 8 and single 8 (with 18-frame separation).

The price is \$449.95. The Mark S 810D Deluxe Automatic Projector is identical to the Mark S 810D except for an f/1.0 18 to 28mm Eumig Supragon zoom lens. The price is \$499.95.



The Mark 610 D projector for super-8 and 8mm films has been announced by Eumig (U.S.A.) Inc., Lake Success Business Park, 225 Community Dr., Great Neck, NY 11020. The projector has a range of five operating speeds, the regular speed of 18 frames/s and four slow-motion speeds of 3, 6, 9 or 12 frames/s without loss of light. Film is self-threading onto the take-up reel which has a capacity of 400 ft with acetate-base film and more with polyester film. Fast forward and fast rewind transport can be effected within or outside of the film channel. All operations are act-

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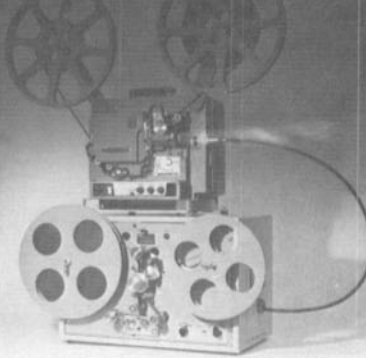
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uated by a single control knob. The projector measures 10¼ by 5¼ by 8¾. It weighs 13 lb. The price is \$199.95.

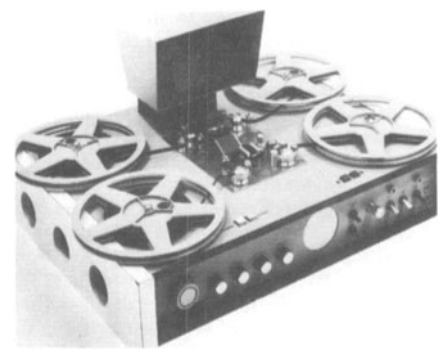
Target Systems 8, a super-8 sound/motion-picture projector with integral rear-screen projection has been announced by Target Systems Corp., 20731 Prairie St., Chatsworth, CA 91311. The projector is 11½ in high, 8½ in wide, 9 in deep and weighs about 12 lb. The screen area is 6½ by 5 in. The projector employs an endless loop design which requires no rewinding and is ready for instant replay after each showing is completed. The film may be programmed to run continuously, stop automatically at the end of each presentation or stop at preselected frames. The cartridge is inserted directly into the rear of the projector. The price is \$274.50.



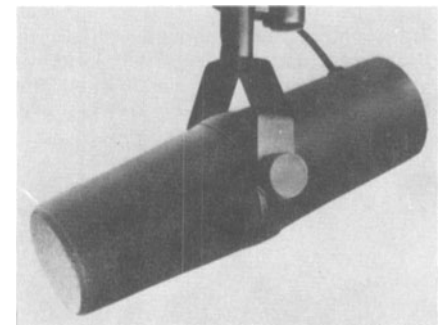
The Xenographic 512, a high-intensity xenon fade/dissolve 35mm slide projection system, has been announced by Optical Radiation Corp., 6352 N. Irwindale Ave., Azusa, CA 91702. The system uses a single high-intensity xenon light source, a mechanical/optical fade/dissolve mechanism and two Kodak Ektagraphic slide projectors having a total capacity of up to 280 slides. The system is capable of projecting up to 5,500-lm light output and is also capable of gradually overlapping and fading, or cutting from one projector to another to show one slide image dissolving into the next while the screen illumination remains constant. The system uses a 500-W xenon bulb and a non-color, computer-designed, electroformed-metal reflector which collects and projects the light from the bulb. Prices begin at \$3,475 for the complete system without the bulb and lenses.

Two new single-plug 500- and 800-W quartz-halogen lamps for overhead projectors have been announced by N.V. Philips' Gloeilampenfabrieken, Eindhoven, The Netherlands. Using a new process for rolling the brittle metal tungsten to thin foils makes it possible to place reflectors in the lamps near the spiral. Since the reflectors are built in, adjustments after changing lamps are unnecessary. The 500-W lamp (5968) is priced at 59.50 DM. The 800-W lamp (5969) is priced at 71.00 DM.

A new line of quartz halogen lamps containing a patented gas designed to increase output performance has been announced by Tec/West (USA) Inc., 1431 Ocean Ave., Santa Monica, CA 90401. The lamps are designed to be used in microfilm viewers, readers, projectors or in special optical systems. Lamp ratings cover voltages from 6 V to 220 V and life ratings from 50 to several hundred hours. Color temperature ratings are from 3100 to 3400 K.



A super-8 horizontal editing table with one super-8 picture channel and one super-8 full-coat soundtrack channel has been announced by MKM Industries, Inc., P.O. Box 313, Skokie, IL 60076. Designated Model 824, the table has four independent winding motors and an inching knob has been provided for manual operations. The film head is equipped with an eight-sided prism and the picture is rear-projected into a daylight — view ground glass. The sound is reproduced through a built-in speaker. The film and soundtracks can be uncoupled and moved independently. Features include forward and reverse speed continuously adjustable from zero to about 62 frames/s. The machine is 26½ in wide, 14 in high and 21¼ in deep. It weighs 65 lb. The price is \$1,295. Options include a pushbutton-controlled synchronous motor for accurate 24 frames/s speed priced at \$195; a two-channel amplifier with head, at \$95; and a remote speaker at \$45.



Model SM7 Unidirectional Microphone designed for professional audio applications has been announced by Shure Brothers Inc., 222 Hartrey Ave., Evanston, IL 60204. A specially designed tailoring system allows users to choose any of four response curves for optimum performance: (1) remarkably flat response from 40 to 16,000 Hz; (2) response boosted in the mid-range frequencies for additional presence to emphasize voices or certain musical instruments; (3) response cut at low frequencies to produce a bass roll-off; and (4) combination response with both presence boost and bass roll-off. Dual slide switches control not only the response tailoring but also provide a visual frequency response curve readout which shows graphically the response setting of the microphone. The SM7 is priced at \$240.

The PDS Film Reader System, designed to provide high-speed conversion of optically recorded information into a digital format for computer processing, has been



announced by Photo Digitizing Systems, Inc., 820 S. Mariposa St., Burbank, CA 91506. The system includes a conventional film analyzer, an image dissector camera under computer control (the Nova 800 mini-computer), a power unit, control unit, scan converter and console. The system, which virtually eliminates human judgment, contains a high-resolution, magnetically focused and deflected, image dissector photosensitive tube, unlike a TV camera. The tube has a continuous photocathode on which a photoelectric emission pattern is formed and is scanned by moving its electron image over an aperture. From the image focused on the photocathode, an electrooptical image is derived

that is focused in the plane containing the aperture. At any instant only the electrons entering the electron multiplier through the aperture are utilized with the output signal taken from the multiplier collector. The system resolution is primarily determined by the aperture size. The system is suitable for film reading applications as well as for converting optical data in the form of opaque or transparent graphs, charts, photographs, etc., onto a digital format suitable for computer processing. Price of the system without the digital processor is \$38,622; with a 4K memory digital processor and TTY it is priced at \$58,000; and with an 8K memory digital processor and TTY it is priced at \$61,000.

A Magnetic Tape Editing Pen designed for use in professional sound and video recording studios has been announced by Microtran Co., 145 E. Mineola Ave., Valley Stream, NY 11582. The pen can erase small areas of sound and video from magnetic tape or film. Syllables, program material and errors may be removed. It can also be used to facilitate fading in and fading out sounds for special recording effects. It is supplied with a press-to-operate switch and 6-ft line cord. The pen is 8 in long and $\frac{5}{8}$ in in diameter and weighs 6 oz. The active tip area is $\frac{1}{4}$ in in diameter. The pen is priced at \$32.

The Prospector 150, an automatic silver recovery unit, has been announced by X-Rite Co., 4500 Roger B. Chaffee Memorial Dr., Grand Rapids, MI 49508. The unit has an automatic current controller designed to eliminate the need for manual adjustment of plating current on electrolytic silver recovery equipment. The machine provides direct connection to an automatic film processor. Silver can be recovered at a rate of $1\frac{3}{4}$ troy oz per hour. Plating current has a 15-A maximum. Price of the Prospector 150 is \$985.

System 770/774, a new automatic waveform analyzer, has been announced by Systron-Donner Corp., Datapulse Div., 10150 West Jefferson Blvd., Culver City, CA 90230. A search mode eliminates many signal-seeking problems. A wide range of signal-sensing probes is available. Twenty-

five time ranges (1 ns per division to 5 s, full scale) extend the full automatic measurement capability over a greater time base range. The system can operate two probes without external multiplexers. If more signal inputs are required, probe multiplexers are available. One multiplexer operates active sampling probes with bandwidths to 1 GHz. Another, which operates FET impedance converter probes with bandwidths to 100 MHz, has built-in delay lines for internal triggering on the measured waveform. Each multiplexer can operate 10 probes and both types may be mixed in the same system. The system can supervise up to 10 multiplexers for a total of 100 probes. System 770/774 is priced at \$14,500. Model 774 Programmable Sampling Oscilloscope may be purchased separately at a price of \$5,500.

Permafilm 129FTR has been announced by Permafilm International Corp., 305 E. 46 St., New York, NY 11017. It is designed for use in damp and tropical areas to prevent fungus and mold damage to silver and color emulsion.

The 513A Hi-Pass Microphone Line Filter, a sharp cut-off filter that does not roll off the bass with any obvious audible change, has been announced by Electro-Voice, Inc., 600 Cecil St., Buchanan, MI 49107. The sharp cut-off below 100 Hz does not disturb the subjective quality of the vocal spectrum and makes no change in any program material above 200 Hz. The



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also appreciate the fact that the entire CP-16 drive motor system can be easily replaced in less than five minutes! And the thoughtful "little" touches—like the Bristol knob wrenches tucked away inside our Crystasound amplifiers and auxiliary mixers to aid in field servicing. Masters of their craft, they appreciate the workmanship, the meticulous care and attention to detail in assembly, the quality materials and components that go into the manufacturing of the CP-16 and CP-16/A cameras.

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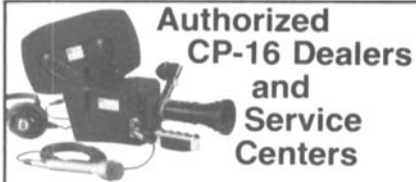
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Listing as of: Dec. 1, 1973

filter is priced at about \$45. The firm also announced the 502C (MC-type connector) and 502CP (phone jack) low to high impedance plug-in microphone line transformers. The transformers are intended for use when the microphone preamplifier is designed to accept a high impedance microphone and it is necessary to use the mi-

crophone some distance from the preamplifier. Low impedance microphones used with 502C matching transformers prevent high-frequency roll-off and the introduction of hum when long mike cables are used with high impedance outputs. The 502C is priced at \$13.50 and the 502CP at \$14.40.

CLASSIFIED ADVERTISING
First 3 lines \$10.00
Each Additional line \$2.00
per inch \$26.00

Wanted. 35mm Debrie Matipo Color Printer. Good Condition. Write to: Basant Pictures, Parel, Bombay, India. Mention serial number and year of manufacture.

16/8mm Ektachrome processor—Hill's Mfg.—friction drive. 50 fpm—ME-4 process—like new. Ready to use. Price includes flow meters and water blenders. Six years old, has recently been entirely rebuilt, including complete new electrical system. New, \$16,000—Sale price, \$9,500. Contact Jack Napor, WRS, Inc. at (412) 687-3700.



These notices are published for the service of the membership and the field. They are inserted three months, at no charge to the member. The Society's address cannot be used for replies.

Positions Wanted

Cinematographer, Director/Cameraman. Film and Tape. Over 20 years in the motion-picture industry plus 5 years as commercial & illustration photographer. Credits on more than 200 films here and abroad in 35mm and 16mm TV prod., comm., ind., doct., training, med., P.R., r&d & educ. Held high security clearances while making films for U.S. Govt. agencies and depts. Available for freelance or long-term assignments here and abroad. Will also produce package assignments or work as lighting consultant. Composite samples of work and more detailed information are available. Write Dir/Cameraman, Box 249, RR #3, Pound Ridge, NY 10576 or Phone (914) 764-4245.

Management Position. With business organization, film producer, or motion-picture laboratory. Background includes audio-visual production, film laboratory operation, and motion-picture distribution. Wish to relocate, looking for position requiring technical skills and administrative ability. J. M. Logan, 799 Newcomb Rd., Ridgewood, N.J. 07450. (201) 891-8241.

Film Production. Young man earnestly desires work in film production. Audio and television experience. Familiar with equipment. Engineering grad. Will start at bottom. Steven Mintz, 119 Bank St., New York, NY 10014. (212) 691-8754.

Positions Available

Circuit Development Engineer. A BSEE degree and a thorough understanding of the latest solid state circuit techniques and devices are basic requirements. The engineer must be able to perform all the tasks necessary for the development of new products to completion with minimum direction. **Television Systems Engineer.** Must have thorough working knowledge of television systems from both a technical and an operational viewpoint. Experience in television broadcasting required, BSEE degree desired. **Technical Writer.** The position requires a person capable of assuming complete responsibility for preparation of technical instruction manuals. Knowledge of television systems and experience with commercial electronic products highly desirable. Send resume, including salary history, in strict confidence to William L. Rorden at the Grass Valley Group, Inc., P.O. Box 1114, Grass Valley, CA 95945.

Technician. Photographic distributor requires skilled technician familiar with 16mm film projectors. Must be thoroughly conversant with film handling systems. Audio electronic knowledge a definite asset. Please write to: Kingsway Film Equipment Ltd., 821 Kipling Ave., Toronto 18, Ont. Att: Mr. K. Porsche, M8Z 5G8.

Assistant Professor—Communications: Position 1. Teach courses in television, plus some courses in mass communication. Emphasis on TV production, TV direction. Help to create television programs concerning a variety of subjects for use by the college. **Position 2.** Teach courses in television and film, plus some courses in mass communication. Emphasis on TV production, TV direction, film-making. Help to create television and film programs concerning a variety of subjects for use by the college. Qualifications: Doctorate in Mass Communication or Radio-Television. Candidates who offer in lieu of advanced academic degrees solid professional experience in film production and/or television will also receive strong consideration. Applications and Inquiries to: Dr. Theodore C. Miller, Associate Dean, Humanities and Communication, William Paterson College, Wayne, NJ 07470.

Video Facility Engineer. Experienced, mature, highly qualified video computer engineer for one of the most unique television production facilities in the world. Position initially involves hands-on maintenance of over all video and computer system. The position should lead to the title of chief engineer including supervision of all technical personnel. Basic equipment familiarity required: Ampex 1200 & 200 vtr's; color studio cameras; electronic analog and digital. Send resumes to: Bruce Davis, Dolphin Productions, Inc., 305 E. 45th St., New York, NY 10017

TV Studio Engineer. J. Walter Thompson Co. Capable of complete maintenance and operations, professional RCA equipment, excellent opportunity for stable employment. Contact Edward Abrams, (212) 686-7000, Ext. 2136.