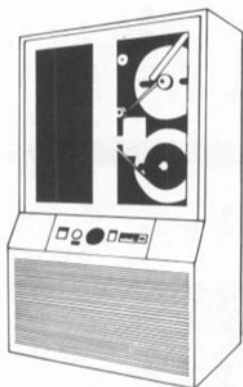


clean profit

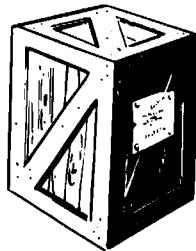
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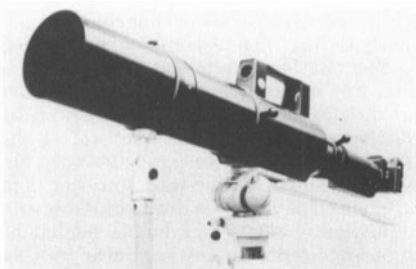
A new Eastman color negative film, 5247/7247, providing improved sharpness and grain and improved and simplified processing, has been announced by Eastman Kodak Co., 343 State St., Rochester, NY 14650. The new film, with an EI of 64 (daylight (Kodak Daylight Filter No. 85)) and 100 (tungsten), will replace Eastman color negative film 5254/7254. It will be available in mid-1973. The new film will offer the television producer a realistic option of producing programs in either 16mm or 35mm formats and an improved quality for theatrical motion-picture films, the announcement stated. Processing for the new film has been reduced to less than 12 min, exclusive of drying time. The new process provides better recovery of chemical effluents, and potentially toxic materials in processing have been eliminated.

The 16mm metal film magazines used to supply various Kodak films in 16mm X 50-ft formats in specifications 447 and 454 have been consolidated and all film products packaged in 16mm metal magazines will be sold as Sp 447; Sp 454 is discontinued. Announcement was made by Eastman Kodak Co.'s Motion Picture and Education Markets Div. Price of all film sold in the new Sp 447 will include a \$2.00 deposit added to the film price. The deposit is refundable on complete magazines returned to Kodak in repairable condition. Shipments, containing 50 or more empty magazines of a single size should be sent to Eastman Kodak Co., KAD, Bldg. 2 Platform, 901 Elm Grove Rd., Rochester, NY 14650. Instructions for preparing, packing and shipping are available from Eastman Kodak upon request.



The CP-16A, a TV newsfilm 16mm camera with Crystasound recording system

and built-in amplifier, has been announced by Cinema Products, 2044 Cotner Ave., Los Angeles, CA 90025. The camera is designed and specially balanced for on-the-shoulder filming, permitting mobility while eliminating the need for body braces and tripods. The new, built-in amplifier is constructed on the basic design principle that the playback and record amplifier should be in as close proximity as possible to the record/playback heads. Features of the new amplifier include two microphone inputs and one line input, all with independent volume control; headphone monitoring channel that automatically switches from the live mike to simultaneous playback when the camera is turned on; automatic bias level and a preview switch that disables bias so previously recorded material can be checked without erasure. There is minimum distortion in the playback channel due to close coupling to pre-amp and thorough shielding. The amplifier can be easily removed from the camera body through two disconnects. The camera is silent (about 31 dB at 3 ft). It weighs about 16 lb. It is equipped with a 400-ft magazine (loaded with 400 ft of film) a 12-120mm Angenieux zoom lens, Crystasound recording system with built-in amplifier, Nicad battery pack and a critically accurate crystal-controlled dc servo motor for single and double system sync sound. The Crystasound Model 4C Auxiliary Mixer is available as an accessory for situations where it is desirable to have a sound technician operate a mixer directly. The CP-16A camera is priced at \$4,815. The price includes the Crystasound system, two Nicad battery packs and a battery-charger/ac power supply. The Crystasound record/playback head module is priced at \$80. The auxiliary mixer is priced at \$575.



The 800mm Telyt-S f/6.3, a long-focus lens utilizing a new glass, developed by Ernst Leitz, GmbH, Wetzlar, Germany, has been announced by E. Leitz, Inc., Rockleigh, NJ 07647. The new glass, called Fluorophosphate Optical Glass, uses between 70 and 85 mol per cent of the fluorides of the alkaline-earth metals, magnesium, calcium, strontium and barium; between 10 and 25 mol per cent of the metaphosphates of the alkaline earth metals, magnesium, calcium, strontium, barium and aluminum and between 5 and 10 mol per cent of an alkali-metal fluxing compound. The new glass gives greatly improved contrast, resolution and color differentiation. Applicable to still photography, the new lens weighs about 15 lb. It is about 31 in long with a diameter of 5.9 in. The 800mm lens consists of one three-element group with a 3° angle of field and a focusing range of 41 ft to infinity. The smallest aperture is f/32 and the smallest object field is 12% X 18% in. The filter slot

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The Catel TM-2300 Television Modulator has been announced by Catel, 1030 W. Evelyn, Sunnyvale, CA 94086. IF modulation is used to meet CATV and CCTV system requirements. A modular channel converter permits rapid channel change. Features include a visual output level of 60 dB, step attenuator output control, an illuminated meter for both sound and video levels, low differential gain and phase and fully integrated circuits. The modulator is priced at \$1,095. Also available is the TM-2300A for film chains, cameras, videotape recorders and television demodulators. The TM-2300B modulator is available for microwave applications with composite video and 4.5 MHz.

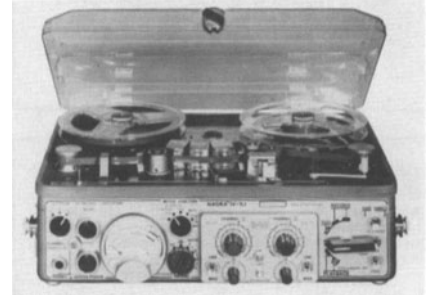
The Television Sync Generator, Model 501 has been announced by Pi-Gem Enterprises, P.O. Box 643, Cupertino, CA 95014. The generator has been built to EIA RS-170 standards. Four 75- Ω outputs are provided including composite sync, composite blanking, horizontal drive and vertical drive. The master oscillator is crystal-controlled and the counter is synchronous/asynchronous so that the total propagation time is equal to equivalent of a four-bit counter. The master oscillator may be line-locked if requested. The leading edges of all generated output signals are keyed from the clock or master oscillator. All circuitry is dual-in-line TTLs mounted on

one single-sided printed wire board measuring 4 by 6 in. The price is \$295.



A television time/date generator which electronically produces a single-row display of current clock and calendar information on any standard TV raster has been announced by Laird Telemédia Inc., 2125 South West Temple, Salt Lake City, Utah 84115. Characters 28 TV lines in height are decoded from a standard 64-letter ASC II set. Timing accuracy is established either by power-line frequency or use of an external standard. A 100-year calendar circuit automatically corrects for length-of-month and leap year variations, assuring continued accuracy on the days affected without requiring operator attention at midnight. The time/date display signal is synchronized with a composite video, sync/blanking or black burst input signal and is nonadditively mixed internally. A choice of black or white characters is permitted by switch selection. A strapping arrangement provides optional sync addition at the dual video outputs.

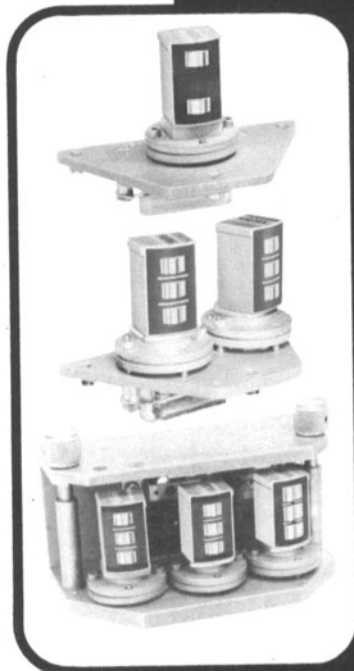
The generator is compatible with real time or time lapse video recording. Typical applications in conjunction with videotape recorders include off-air broadcast logging, commercial and program verification, security surveillance and court depositions. The unit is packaged in a standard 19-in rack-mount configuration, which is 3.5 in high and 13.5 in deep. All controls, including time-set functions, are arranged for ease of access. The price is \$895.



The new Nagra SJ audio recorder, designed specifically to meet scientific and instrumentation ¼-in tape recording requirements from 2.5 Hz to 35 kHz, has been announced by Nagra Magnetic Recorders, Inc., 19 W. 44 St., New York, NY 10036. The range is accomplished in two bands, one from 2.5 Hz to 3.5 kHz and the other from 25 Hz to 35 kHz. The frequency range is flat to within ± 2 dB over the entire range and the input to output is linear and greater than 58 dB. The recorder is portable. It is battery-operated and weighs 15 lb. It records two soundtracks, plus an FM cue track capable of recording dialog, timing, synchronizing and cue information. The recorder has a dual movement modulator with three timing characteristics—peak, average-fast and average-slow. The recorder is equipped with A-B-C-D weighting filters and a 90 dB step pot with a 1 dB step vernier. It has four speeds, 15, 7½, 3¼ and 1.5 in/s. The unit can be used to make a recording for subsequent proof of field measurement and/or full spectral analysis. The recorder is priced at \$2,625.

The Stephens 811D-103 audio recorder, a capstanless drive machine for safe handling of wide-width tape, has been announced by Stephens Electronics, Inc., 3513 Pacific Ave., Burbank, CA 91505. A patented servosystem is incorporated to provide smooth, effortless tape control in all modes of operation and to ensure that tape cannot be accidentally destroyed. Speed is maintained to within the accuracy of external ac line frequency or to a variable built-in oscillator which can vary speed from 10 to 80 in/s while maintaining 0.03% flutter average, not exceeding 0.05%. The recorder is provided with a digital tape speed readout. Tape speed is 15 in/s or 30 in/s. Other speeds are available. Features include controlled instant starts and stops, including a 60 in/s scan speed to locate takes. Reel size is 10½ in but other large reel capabilities can be had on special order. Any number of decks can be synchronized by a rear connector and an external servo signal can be introduced to lock the machine's speed to exterior control devices. The 16-track recorder in its cabinet is 24 in wide, 30 in deep and 51 in high. The price is \$19,500. The 16-track

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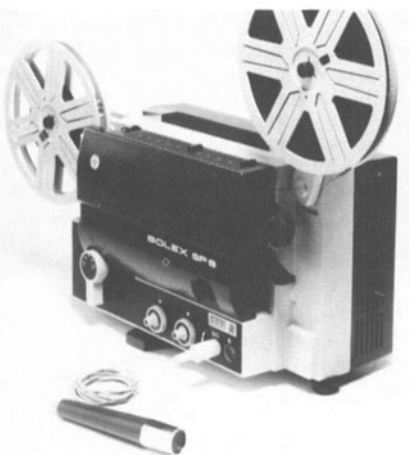
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unit convertible to 8-track is \$21,000. The machine is also available in 8-track, 24-track and 40-track configurations.

Model B-503, a dual-channel version supplementing the B-501 monaural and B-502 stereo five-mixer audio control consoles, has been announced by McMartin Industries, Inc., 605 N. 13 St., Omaha, NB 68102. The B-503 features dual program channel capability at +8 dBm, 600 balanced output. It provides input flexibility with plug-in modules to accommodate microphone or high-level input requirements for each of the five input mixing channels. Two inputs per channel are available through interlocked pushbutton pre-switching. Individual VU meters for each output channel are included. The unit is self-contained and includes 4-W rms monitor amplifier output and cue facilities. The price is \$950.

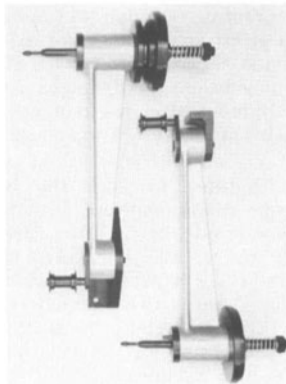


The McMartin Accu-Five mini-console, a self-contained 3½-in rack mount five-channel mixer providing program, monitor and cue facilities and accommodating up to 13 microphone inputs. XL-type microphone connectors are provided on microphone inputs 1 and 2. The remaining input and output connectors are all screw terminals. Mixers three and four may be switched for either microphone or high level inputs. Mixer five can accommodate up to five high or low level inputs through preselect pushbuttons. All input sources may be previewed on a cue bus through the panel-mounted cue speaker. Program output is +18 dB maximum ±1 dB response and less than 0.5% distortion from 30 to 15,000 Hz. The monitor amplifier provides 4 W rms output. An illuminated VU meter, calibrated for +8 dBm output level permits visual monitoring of program material. The Accu-Five is priced at \$495.



The Bolex SP8, a silent or magnetic sound projector for super-8 or 8mm films, has been announced by Paillard Inc., 1900 Lower Rd., Linden, NJ 07036. The SP8 has a versatile sound system that allows for either manual or automatic sound level

adjustment and visual sound level checking. The projector has a film capacity up to 600 ft. It has a Bolex Hi-Fi 15-30mm *f*/1.3 zoom lens and a 12-V/100-W quartz-halogen lamp with an incorporated dichroic mirror. The price is \$299.50.



A new reel arm system for professional 35mm projectors has been announced by Kelmar Systems, Inc., 169 E. Second St., Huntington Sta., NY 11746. The system includes upper and lower arm assemblies, mounting hardware, Allen wrenches and installation instructions. The reel arms mount directly to all existing projector mechanisms and soundheads. Both upper and lower arms are adjustable without using wedges or shims and include 5-in enclosed clutches for control of film delivery and take-up. Self-cleaning film guidance

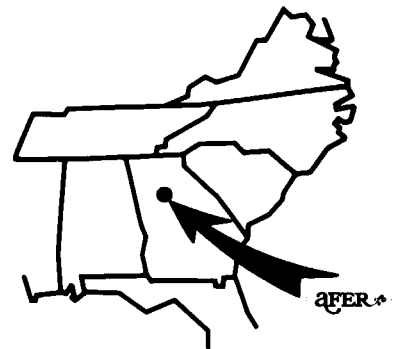
systems are built in to eliminate roller film damage. The system is priced at about \$495.

A new theater sound system, Model AS-7200, has been announced by Kelmar Systems, Inc., 169 East Second St., Huntington Station, NY 11746. The system is all solid state and housed in an enclosure measuring 5½ by 11 by 10½ in. The unit has dual power amplifiers and a dc exciter lamp supply. A specially designed front end and inter-stage coupling, together with controlled gain parameters and a heavily filtered regulated power supply combine to provide stable operation and RF and inductive noise rejection. Model AS-7200 is priced at \$1,230. The price includes solar cells with mounting hardware and leads.

The Ultrasonic Film Splicer, Model 2001, has been announced by Metro/Kalvar Inc., 745 Post Rd., Darien, CT 06820. Designed to fuse all polyester base films without scraping the emulsion, the machine produces a strong permanent weld in seconds. The machine operates on 117-V ac, 3 A, 50-60 Hz. It has changeable filmbed plates to accommodate 35mm, 16mm or super-8 film. It measures 7¼ × 11½ × 6½ in (19.7 × 29.2 × 16.5 cm) and weighs 17 lb (7.65 kg). The price is \$1,700.

A 16mm print edge numbering service to salvage dead prints has been announced by DeLuxe General, 1546 N. Argyle Ave.,

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Hollywood, CA 90028. The new service is based on edge numbering the DeLuxe 16mm printing negative at 40-frame (one-foot) intervals, starting with 0001 at the head and progressively increasing to the tail end number. Every print made from the negative will have the identical numbers. The new service is expected to simplify the ordering of repair sections and to speed up print repair. The print user need only provide the laboratory with the last edge number before the damaged area and the first number after the damage to assure printing of the correct repair section.

Picture Modules in both the contact Techniscope and anamorphic formats have been announced by KEM Electronic Mechanic Corp., 225 Park Ave. South, New York, NY 10003. In a newly developed wide-screen housing which presents images 21¼ by 9 in, both types drop into place for use on any KEM Universal Editing Table. The Techniscope Picture Modules provide a method of using the 2-perforation pulldown system throughout the post-production process. The application of Techniscope is based on the instant interchangeability of sprockets and shoes on KEM Editing Tables. To solve the problem of 45 ft/min sound speed of the Techniscope system, there will also be available special sprockets which automatically make any transport run the required one-half of normal 35mm speed, making it possible for any KEM to run the 2-perforation prints in interlock with separate magnetic tracks at either 90 ft/min or 45 ft/min, or with 16mm, 36 ft/min tracks.

The Anamorphic Picture Modules for Panavision 35, CinemaScope and similar 2:1 squeezed formats are also instantly switchable to normal, unsqueezed 35mm projection within the wide-screen field for regular images about 13 by 9 in, similar in size to the regular 16mm and 35mm KEM Picture modules.

The Techniscope and Panavision Picture Modules are each priced at \$2,300. They are also available on a rental basis. The special 45 ft/min Techniscope sprockets and shoes are priced at \$30 and are also available for rent.

The Magnasync-Moviola M77 flatbed editor is available from Alan Gordon Enterprises Inc., 5362 N. Cahuenga Blvd., North Hollywood, CA 91601. The unit is equipped with two soundheads and a composite optical/magnetic picture head. Dialog, music and effects can be cut to the picture with sound mixing and listening quality comparable to the final composite. Slide attenuators are used for each sound-track together with a master gain control and high/low equalization controls. The machine is priced at \$7,750.

A photovoltaic silicon blue cell (SCS-2020) offering a spectral response that peaks in the visible region of the spectrum at 700-m wavelength has been announced by Shigoto Industries Ltd., Empire State Bldg., 350 Fifth Ave., New York, NY 10001. The cell was developed by Sharp Corp. of Japan. The new cell, designed with a spectral sensitivity most nearly conforming to the human eye is designed for application to photoelectric instrumentation and automatic control systems,

cameras, spectroscopic and light measurement and allied equipment requiring planar blue-sensitive light sensors. Features include minimized dark current, high linearity of output photocurrent and rapid response time. The cells are centered on an oval-shaped ceramic base with outside maximum measurements of 0.315 by 0.236 in. The effective area of the cell, coated with clear resin, is 0.0906 by 0.104 in. The price for each cell is \$1.00 to \$1.50 depending on the quantity ordered.

Tough Spun, a new soft plastic material intended to be used as a replacement for spun glass filters for TV, motion picture, theater and photography lights, has been announced by Rosco Laboratories, Inc., 36 Bush Ave., Port Chester, NY 10573. The new material is said to be safer and more durable than spun glass since it does not shed fragments, thus eliminating danger of skin irritation and eye injury. It can be roughly handled and even stretched without tearing. A roll of Tough Spun 48 in wide and 25 ft long is priced at \$40.

The Leitz Photometer, Model 340-800, designed to permit determination of serum constituents by reactions in the near ultraviolet and infrared ranges, has been announced by E. Leitz, Inc., Rockleigh, NJ 07647. The design of the new photometer involved boosting the intensity of the output of a selenium photocell by means of an operational amplifier so that a simple tungsten lamp can be used as a light source in spite of its paucity of ultraviolet content. Features to expand its application in the clinical laboratory have been incorporated. Kinetic enzyme activity measurements are made at 340 nm. Narrow and precise bandwidth interference filters provide optimum absorption of the NADH-NAD complex. Discrete narrow-band compound glass filters permit greater purity, linearity and accuracy for colorimetric measurements made in the visible portion of the spectrum. A narrow-band 800-nm interference filter permits the determination of cardiac and liver functions, using indocyanine green dye. The photometer accepts plano parallel cuvettes 5 x 10mm, 10 x 10mm, 20 x 20mm, flow-through cuvettes, 13mm disposable round tubes and ordinary 25mm test tubes. A water-jacketed cuvette holder for maintaining constant temperatures in temperature-sensitive reactions is available as an accessory. Through use of a universal power supply, the instrument can be operated at 120 V, 220 V, 50 or 60 Hz. Linear and reproducible measurements are obtained at all wavelengths and all portions of the meter scale. The price is \$645.

MediaTrol, a control system designed to provide "all-together" operation of two slide projectors, 16mm or 8mm film projector, cassette or reel-to-reel tape recorder and various accessories, including a loudspeaker, from a single control panel source, has been announced by Tel-Com, Inc., 1475 E. Henrietta Rd., Rochester, NY 14623. The system consists of a control panel unit and a remote control unit. One power cord plugs into a conventional outlet; remote control cords interconnect directly to the rear of the control panel from projectors and other equipment. The con-

control panel is 7 in deep, 4 in high and 11 in wide. The remote control unit is 5½ in wide. The control panel is priced at \$395 and the remote control unit is priced at \$199.

Movie stills from famous films are available from Freelance, S. Line St. and Prospect Ave., Lansale, PA 19446. Seventy-two subjects have been chosen for familiarity and wide range of appeal. Some are from silent films and others from recent films. Stills include scenes with W. C. Fields, Humphrey Bogart, Clark Gable and others. The stills are on 8- by 10-in glossy prints and are available in a "browse box" holding 100 units at a price of \$50 for the box. The stills are priced at 50 cents each.

The Metal Cold Mirror (MCM) coating, a multilayer coating which separates heat and light when applied to metal reflectors, has been announced by Bausch & Lomb, Vacuum Coating Div., 10 Champeney Ter-

race, Rochester, NY 14602. The new coating is reported to absorb up to 75% of the focused heat while controlling color and increasing visible light reflectance. Through variations in the application of coating layers, the color of the reflected light can be controlled to produce visual effects in theatrical and architectural lighting or for color temperature control in technical and photographic applications. Application of MCM coatings, typically to aluminum, steel and nickel reflectors, will increase the amount of light reflected from the metal substrate. The amount of increase (up to 15%) varies with the surface characteristics and metal used to form the reflector. Steel and nickel reflectors can operate at temperatures up to 950°F and aluminum reflectors can operate up to 550°F. MCM coatings can be deposited on metal substrates up to 24 in in diameter where the diameter to depth ratio is greater than two-to-one. Design, consultation and prototype services are available from Bausch & Lomb.

ment. Work in a new installation with new equipment, located in Washington, DC. Excellent pay and benefits. Send resume to PBS, 955 L'Enfant Plaza, Washington, DC 20024, Attn. Mr. Swanzy.

Positions Wanted

College Graduate. B.S. in motion picture, looking for employment in motion pictures or video tape production. Experienced in documentary and TV commercials. Single, no military commitments, will relocate, will travel. Thomas Stillman, 2051 Audubon Ave., S. Plainfield, NJ 07080.

Recent Graduate. Syracuse University, MS Journalism (radio/TV news) seeks employment in TV (commercial or public) or film. Have worked 16 mm film production and editing. Resume upon request. John A. Tabaka, A-25 #1, New Slocum Hts., Syracuse, NY 13210.

Director of Purchasing. Thorough knowledge of film distribution, production and related audio-visual techniques. Skilled photographer and editorial writer for consumer publications. Will relocate. Alex Siodmak, 35-36 76th St., Jackson Heights, NY 11372, (212) 335-4017.

Television Engineer. Argentine citizen, age 44, married, four children, seeks permanent management position in TV station, international or consulting company. 15 years experience as chief engineer in TV station. Thorough knowledge studio, transmitter and microwave design, installation and maintenance. Willing to travel. Speak following languages: English, French, Spanish and German. On request, will furnish references and resume. Rudolf H. Rahn, 9a. C. Poniente Bis 5268, San Salvador, El Salvador, C.A.

Production/Maintenance Engineer. I have TV and 24-track recording-studio experience as a recording engineer/producer and a maintenance engineer. I can fix almost anything using equipment on hand. I have produced films and some hit records. Master of Arts degree. Please call (212)691-8754 or send for resume: R. S. Mintz, Custom Sound Productions Ltd., 119 Bank St., New York, NY 10014

Project Engineer, Audio Visual. 17 yrs. experience electro-mech. product engineering, 12 of them in A-V field. Have heavy experience on Beseler's new Super 8-cassette individual, "PIP" type, learning projector. Seek work on similar product. Hold 8 patents, B.S. Eng. Physics. Bruce Whitlock, 82 Glenbrook Rd., Morris Plains, NJ 07950.

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Positions Available

TV Systems Design Engineer. The Grass Valley Group, Inc., is seeking a television systems design engineer. Applicants should be thoroughly familiar with video and audio systems. Manufacturing experience desirable but not mandatory. BSEE or equivalent experience required. The Grass Valley Group is located in the Sierra Nevada mountains of Northern California, away from smog, traffic, and large city problems. Send a personally written resume to Merv Graham, Chief Systems Engineer, P.O. Box 1114, Grass Valley, CA 95945.

Senior Circuit Design Engineer. The Grass Valley Group, Inc., is seeking a senior circuit design engineer. Experience in video systems design preferable, but not essential. BSEE required. The Grass Valley Group is located in the Sierra Nevada foothills of California, away from fog, smog, and traffic problems. Send resume to William L. Rorden, Chief Engineer, The Grass Valley Group, Inc., P.O. Box 1114, Grass Valley, CA 95945.

Engineer. Major west coast independent cable TV engineering firm needs ambitious engineer who can handle people as well as hardware. Engineering degree highly desirable. Motivation essential. Send resume to: Hammett & Edison, Consulting Engineers, P.O. Box 68, International Airport, San Francisco, CA 94128

Maintenance Technicians. Two immediate openings for experienced maintenance technicians, strong on current quad videotape equip-