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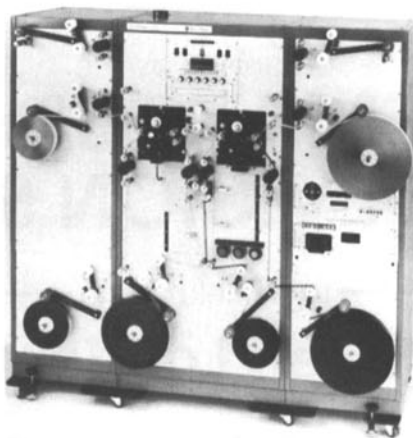


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New Products & Developments

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



A new continuous motion-picture printer, Model 6123, has been announced by Bell & Howell, 7100 McCormick Road, Chicago, IL 60645. Features include a microprocessor memory to read, verify and store program tape for color, fader and frame-count cue information; interchangeable formats to allow simple conversion from 35mm to 16mm operation; higher speeds (up to 960 ft/min); and simplified controls. The microprocessor system not only controls printer operation, but is also programmed to recognize repeated light settings and inhibit reactivation of the light valve to reduce maintenance and extend valve life.

The Operator Control Panel permits one-button printer operation with automatic direction reversal and a full range of safety features. The Power Control Panel is used for printer setup and includes selector switches for film transport speed, printing mode and film format together with a digital volt meter to selectively monitor printing lamp and other operating voltages. Special picture and soundheads for single-direction daylight wet printing are available. A liquid circulation system and film drying assemblies are also included. Access panels can be readily removed from the printer cabinet for printer maintenance. The machine is 72 in high, 74 in wide and 30 in deep. A number of optional accessories are available. Prices range from the upper \$60,000s to the lower \$70,000s depending on the accessories required.

A new character generator, Model K128/MOD16, has been announced by Knox Video Products, 16021 Industrial Drive, Gaithersburg, MD 20760. Features include a 16-page internal memory, multifonts (three upper case, two lower), a character resolution of 1536 elements and a three-position title window. Other features include a dual channel output (edit and program) and automatic centering. The device also has ex-

pandable line length, italic mode, built-in mixer and RS232 interface. K128/MOD16 is priced at \$7250.



Two Trident U-Matic units, the VP-2030 player and VO-2630 player/recorder (shown above), and the multi-system 17-in Trinitron monitor, Model PVM-1850PS, have been announced by the Sony Video Products Company, 9 W. 57 St., New York, NY 10019. When used with the PVM-1850PS, both units can play videocassettes recorded on all three major world television systems, NTSC, PAL and SECAM.

All three units operate on ac current selectable at 100, 110, 120, 127 or 240 V. The Trident recorders operate only on 60 Hz ac current. Both Trident models include special filters and a precise noise eliminator enabling them to offer an SNR of 45 dB and resolution of 250 lines. They also feature logic-controlled feather-touch function buttons for easy operation, a new DUB circuit which improves duplication quality, and a Still Adjust lever for interference-free still picture display.

Trident VTR's are available only in system packages that include the PVM-1850PS monitor. No Trident system includes an RF output. Prices for the VP-2030, VO-2630 and PVM-1850PS are about \$2200, \$2600 and \$1350 respectively.

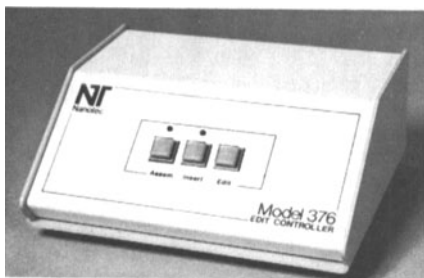


The VHD/AHD grooveless, capacitive pickup videodisc system has been announced by Victor Company of Japan Ltd. (JVC), 2, 4-chome, Nihonbashi-Honcho, Chuo-Ku, Tokyo 103, Japan. The player, when connected to an ordinary domestic color television receiver, plays a 12-in grooveless plastic disc, rotating at a constant speed of 900 r/min. It is capable of playing an hour-long program on each side. For recording the disc, a single laser beam is split in

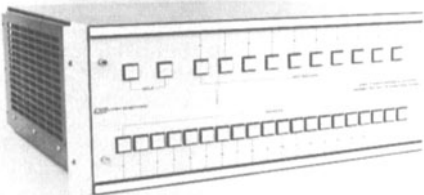
two, one half for recording information to be retrieved by the player, the other for recording the tracking signal. Information and tracking signals are simultaneously picked up electronically as capacitance variations between the disc surface and an electrode on the tracking stylus. The cantilever arm which holds the stylus is servo-controlled to track the imaginary grooves on the disc and to correct for the time-base error of the rotating disc by an electro-tracking system.

There are no actual mechanical grooves on the disc's surface to guide the stylus; instead the stylus merely slides along the surface and is guided electronically to pick up the recorded signals. This feature enables the pickup arm to move freely over the entire surface of the disc and permits special effects such as random access, still, slow and quick motion to be achieved. Price of the videodisc player is about \$500.

Two new color television monitor/receivers designed for industrial and educational use have been announced by Sharp Electronics Corp., 10 Keystone Place, Paramus, NJ 07652. Model XR-3019 (19-in diagonal) and Model XR-3013 (13-in diagonal) both offer manual override of the automatic degaussing system that allows the user to demagnetize the shadow mask at any time. Both units are designed for fast hookup to auxiliary equipment with an 8-pin connector for single cable linkup with VTR as well as discrete audio and video connectors. The monitor/receivers also permit video looping of up to 10 sets without auxiliary distribution equipment. Other features include auxiliary speaker outputs of 2 W and 1.5 W, respectively. Prices are about \$875 for the XR-3019 and \$675 for the XR-3013.



The CAV-7 series of compact audio and video routing switchers has been announced by Utah Scientific, Inc., 2276 South 2700 West, Salt Lake City, UT 84119. The new switchers are packaged in a 7-in rackmount chassis and are available in seven basic configurations for video-only, audio-only and tally voltage switching. Maximum matrix sizes are 20 x 10 audio/video, 50 x 10 video- or audio-only, and 20 x 20 video- or audio-only. The matrices are available with either local or remote control and feature a refresh memory with 24-h memory-save. Complete systems are priced from \$4000 to \$9000.



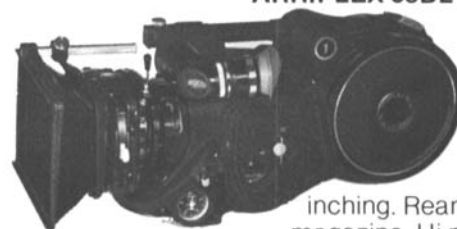
The Nanotec 367 videocassette edit controller, designed to interface between most studio videocassette players and recorders, has been

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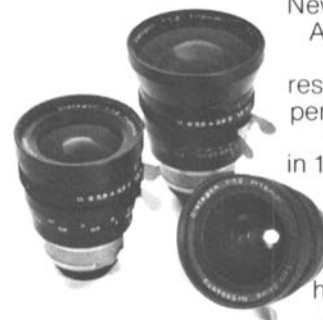
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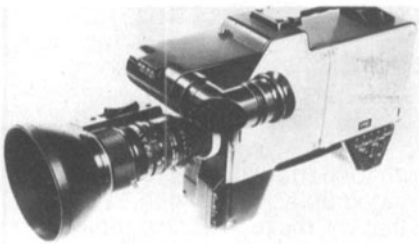
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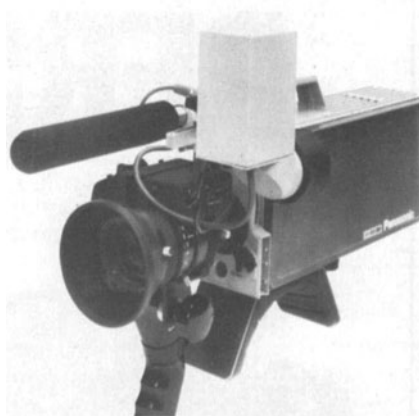


announced by Nanotec, 414 Hilmen Pl., Solana Beach, CA 92075. Designed to utilize the Sony VP-2000 or VO-2600 as a source deck, the Nanotec 376 can use the Sony VO-2800 as a mastering recorder. The installation is simple, requiring no modification of drive system or electronics. The edit controller provides plus or minus 10 frames automatic editing for small studio, ENG or EFP application. The price is \$835.



The HL-79A, a new ENG color television camera, has been announced by Ikegami Electronics (USA) Inc., 37 Brook St., Maywood, NJ 07607. It is a 3-tube, prism-optics, all-in-the-head camera which does not require a separate battery pack and power cable. Designed for a one-person ENG crew, the weight is 11.2 lb for camera and viewfinder. Sensitivity is said to be less than 200 fc and *f*/5 for a 54 dB SNR, and it needs only 2 fc at *f*/1.4 to yield a usable signal. Power demand is only 23 W. Other features include an auto-iris closure at shutoff for protection of the pickup tubes (3/8-in Plumbicons or Saticons). Auto-white-balance refresh time is reported at

less than 1/2 s and memory at 10 h. The optical system uses a high-efficiency beam splitter prism, two concentric filter wheels and a bayonet lens mount. The crystal sync generator is tightly stabilized for temperature and input voltage variations. Highlights are stabilized over as much as 3 stops above normal video. The price is in the \$40,000 range. A number of accessories are available to adapt the HL-79A for EFP.



An ENG/EFP three-Plumbicon, portable color camera, Model AK-750, has been announced by Panasonic Video Systems Division, One Panasonic Way, Secaucus, NJ 07094. The unit has operating controls on the front of the camera for convenient use. It weighs less than 16 lb and can be adapted for studio use with an op-

tional viewfinder and remote control unit.

The camera has been designed for lower power consumption and longer operation on its batteries, resulting in extended operation in the field. The user has the choice of 3/8-in Plumbicon, Newvicon, vidicon, or equivalent tubes. Resolution is 500 lines at the center. Luminance SNR is greater than 49 dB using an *f*/4.0 lens, with the subject lit at 200 fc.

Additional features include an optional monochrome analog memory in an automatic white-balance circuit to maintain stable picture balance; as well as a four-position filter disk, neutral density filters, and electronic circuitry for color conversion. The AK-750 is priced at \$18,550.



Two new color video cameras for use with Omnivision II VHS recorders as part of a color video recording system have been announced by Panasonic's Video Systems Division (VSD), One Panasonic Way, Secaucus, NJ 07094. Model WV-3310 (shown above) is a color camera for ac use with Omnivision II recorders, Models NV-8310 and NV-1000A. For portable use the Model WV-3300 camera works with the Model NV-8400 recorder. Each camera has a built-in electret condenser microphone for recording both audio and video.

Model WV-3310 weighs 3.75 lb. It has a 25mm fixed-focal-length lens, an optical viewfinder and an easy-to-operate camera control unit with ac adapter. The price is \$895.

Model WV-3300 has the same camera head as Model WV-3310 but includes a 6:1 zoom lens, an electronic viewfinder with illumination indicator and VTR playback capability, and a camera control unit. The price is \$1350.

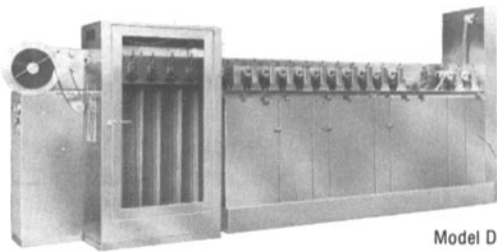


A portable black-and-white videocamera, Model WV-3085A, has been announced by the Panasonic Video Systems Division, One Panasonic Way, Secaucus, NJ 07094. The camera can be connected to the Panasonic VSD NV-8400 portable VHS or NV-9400 portable VCR through a 10-pin camera cable.

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nization is assured by a single trigger-grip control. A 6× zoom lens, automatic light compensation circuitry, and a 1.5-in viewfinder permits versatility in production and full sequence shooting.

Other features include a built-in electric condenser microphone, SNR of greater than 40 dB, and a hybrid vidicon that reduces weight and power consumption. Model WV-3085A weighs approximately 4.4 lb including lens, camera grip and cable. It is priced at \$795.



A new CCTV camera, the ITC-44, designed especially for surveillance applications, has been announced by Ikegami Electronics (USA) Inc., 37 Brook Ave., Maywood, NJ 07607. Sensitivity is reported to be 1/10 fc at its 3/8-in vidicon for an image, which means only 1.2 fc from a standard 89% reflectance object. With a silicon-target vidicon, maximum tube face sensitivity is said to be great enough to work with a tube face illumination as low as 0.01 fc. The ITC-44 is available with a choice of pickup tubes including Plumbicon, vidicon, separate-mesh vidicon, Newvicon, Chalnicon or silicon-target vidicon. With gamma correction off, SNR is

better than 44 dB, video bandwidth 6 MHz or better, and deflection distortion less than 2%. The price is about \$250.



An image-only super-8 movie camera, the Bauer C-14XL, designed for low-light-level use, has been introduced by AIC Photo, Inc., 168 Glen Cove Road, Carle Place, NY 11514. It is equipped with a Neovaron *f*/1.7 lens in combination with a 4:1 push-button telephoto power zoom. The 225° shutter and automatic, behind-the-lens exposure control make shooting possible in various light conditions from low-light filming with high-speed films to normal outdoor, dawn-to-dusk situations. It will also shoot indoor action without the use of floodlights.

Exposure control is handled by a CdS system which reads available light and sets the correct *f*-stop automatically. All of the camera controls for the C-14XL are situated on top of the camera for ease of use. The price is about \$300.

Crysdial, a programmable film-camera speed-control device, designed to enable the operator to dial in any required frame rate within the capability of the camera for accurate film transport speed regulation, has been announced by Hafflex Corp., Box 156, Bernardsville, NJ 07924. The device is said to provide even exposure from four frames up and to allow the filming of television and cathode ray display tubes at any exotic scanning rate with no bar roll-up. Crysdial has large, digital readouts making it possible for the operator to check the camera speed from across a large sound stage. With a long cable the device can be used as a remote console for operating the camera in surveillance, dangerous or wildlife situations. The price is \$750.



An edit code reading device, Model 644, for videotape editing, has been announced by Shintron, 144 Rogers St., Cambridge, MA 02142. It reads either SMPTE or EBU code with no modification to the equipment. The device reads audio edit code and displays it on a television raster and also provides an instant paper tape printout with "edit in" or "edit out" indications.

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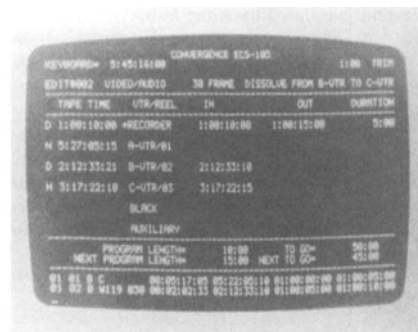


A special mechanism can be activated to advance the paper tape 3 in between edit code prints. Model 644 reads edit code at tape speeds ranging from 1/5x to 40x forward and reverse. The television raster displays edit code or user code in characters selectable as black-and-white, large or small, that can be positioned anywhere on the screen. A freeze switch can freeze or hold the display while code counting continues internally. A coincidence indicator lights when coincidence is reached between time code being read and time code set on front panel thumbwheel switches. Model 644 is priced at \$4000.

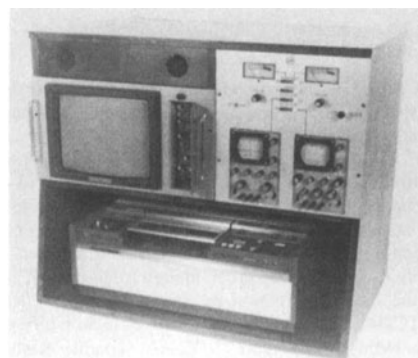
The six-output Precision Video Distribution Amplifier, the TVA-528, has been announced by TeleMation, P.O. Box 15068, Salt Lake City, Utah 84118. The amplifier utilizes ac-

or dc-coupled operation, accepts delay and equalizer plug-in boards, has a differential output, and produces less than 1% total harmonic distortion when used as a subcarrier distribution amplifier. The price is \$335.

The Status Display Generator, the SDG-100, a videotape editing accessory, has been announced by Convergence Corp., 17935 Sky Park Circle, Irvine, CA 92714. It is a plug-in module that provides a visual display of tape time and editing information on the user's monitor. It is a standard feature on all Convergence ECS-103 Superstick Multi-Source Editing Systems and is available as an optional accessory on the ECS-102 Superstick Insert Editing Systems. Typical examples of the information the SDG-100 can display are condition-monitoring



alert messages, tape times, selected in-edit and out-edit points, and insert durations. The display format is 25 lines, 64 characters per line. Characters are composed of 5 x 7 elements. The price is \$2000.



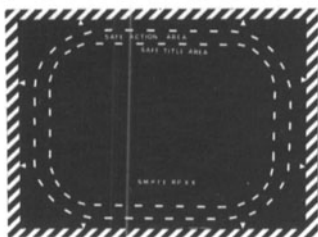
A wooden cabinet, the BAV230, designed to professionalize U-Matic tape editing and dubbing and to provide convenient monitoring, has been announced by Ultra Audio Pixtec, Box 921, Beverly Hills, CA 90213. The cabinet accepts virtually any U-Matic VCR, VHS or Beta format recorder. Included is a 2-channel audio system that converts the U-Matic's input and output circuits to broadcast standard levels, impedances and balanced lines. Built-in vu meters, monitor amplifiers and speakers allow switch-selectable monitoring of either channel's input and output audio. The bridge accepts any 10 1/2-in high rackmount video monitor plus UAP's waveform monitor and/or vectorscope options which, with individual 4-source video selection give the user a convenient method of audio-video monitoring. The cabinet is priced at \$695.



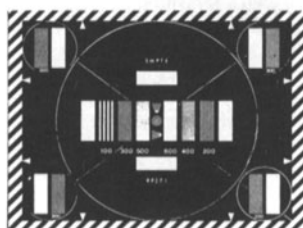
The Cinematics 6-plate flatbed film editor has been announced by Cinematics, Inc., Box 16045-K, Baltimore, MD 21218. Features include single-lever control of film motion at sound speed and high speed in forward and reverse with instant stop from any speed. Picture and soundheads are completely modular. A 6-plate mainframe can accept one picture head and two soundheads, or three soundheads. Both picture and soundheads are available in 16mm and super 8 and can be intermixed in any combination. Interlock is via electromagnetic clutches and timing belt with the control switches located

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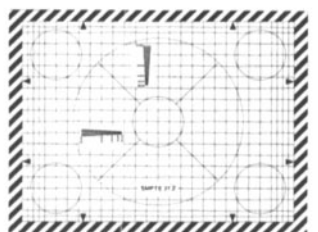
Television Test Films & Slides



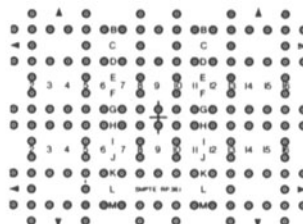
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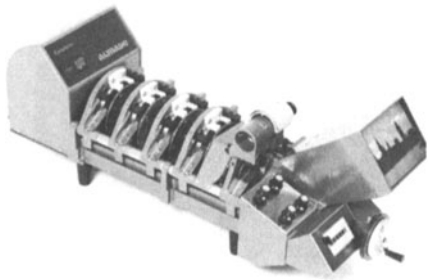
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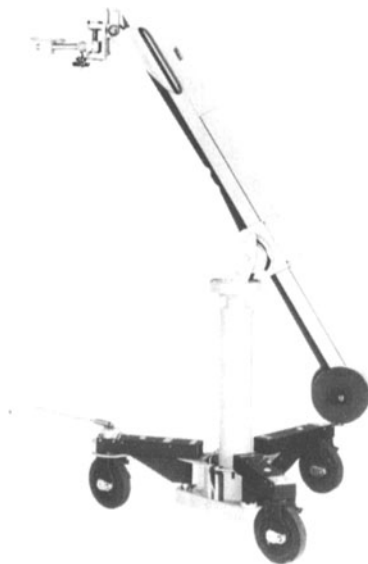


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adjacent to the motion control lever. Film strands can be inched by hand individually or interlocked. Each of the three strands has its own footage/frames counter. Picture heads feature a 5½-in rear projected printer, or a 24-in picture by front projection on a high-gain wall screen. The 6-plates are priced at about \$3900 in super 8 and about \$4400 in 16mm.



The Mark IV version of the Compeditor, a two-in-one film editing machine, has been announced by Acmade International, Oakside, Oxford Rd., Uxbridge UB9 4DX, Middlesex, England. The machine, available in 16mm or 35mm, offers a two-in-one facility whereby all searching and track laying can be undertaken on the same machine. The unit has one picture and four soundtracks, one of which is disengageable for searching while the other three tracks remain locked to each other and to the picture track. Features include a built-in pre-amplifier together with a socket for either an external amplifier/speaker or earphones, and a newly designed separate power amplifier/speaker with tone control. Another innovation is that all the controls have been brought to the front of the machine. The 16mm version is priced at £1302; the 35mm version at £1440.



The Vinten Dolphin Crane Arm, Type 67, designed for lightweight cameras up to 50 lb, has been announced by Listec Television Equipment Corp., 39 Cain Drive, Plainview, NY 11803, U.S. agents for the manufacturer, W. Vinten Ltd., Western Way, Bury St. Edmunds, Suffolk, IP33 3TB, England. The crane arm, designed for use with all types of portable and ENG color cameras, weighs 50 lb and has a height range from 8 in to 70 in. It can pan a full 360° and the camera mounting platform can traverse 90° each side of the arm centerline. Indi-

vidual friction locks and/or damping are provided in all three planes — column pan, arm elevation and platform traverse. The crane arm is suitable for use with pedestals and tripods, in particular the Vinten TriTrack or Vinten Tripods, Type 697 or 718. The price is \$4000.

IMG automatic electrolytic silver recovery systems have been announced by Drew Refining Co., 1717 Fourth St., Berkeley, CA 94710, the exclusive distributors. The units control and optimize plating current as the silver concentration varies in the fixer solution. A computer sensor automatically adjusts the recovery rate to match silver production. The computer regularly samples the silver concentration of the fixer solution and sets the silver plating amperage to minimize silver losses. The systems are available for both terminal batch or recirculation operation. Prices start at \$1275.

The 144-kW Mole-Control 12-pack dimmer has been announced by Mole-Richardson Co. (Hollywood, U.S.A.), 937 North Sycamore Ave., Hollywood, CA 90038. The unit incorporates 12 Skirpan Astral electronic ac dimmers, each having a capacity of 12 kW. The dimmers are packaged in a steel housing which has been specially designed for portability. The standard input power to the 12-pack is 120/208 V, 3-phase, 400 A per phase with separate ground. The unit also has voltage and current meters for monitoring input power on each phase. The power input, located at the rear of the housing, is fed into four bus bars and through a 400-A circuit breaker. Each phase of the input service powers four dimmers. The output connections from each dimmer are two 50 A and one 100 A grounded straight pin-plugs. The 12 dimmers are controlled by an independent console which is connected to the dimmer housing by a 100-ft de-

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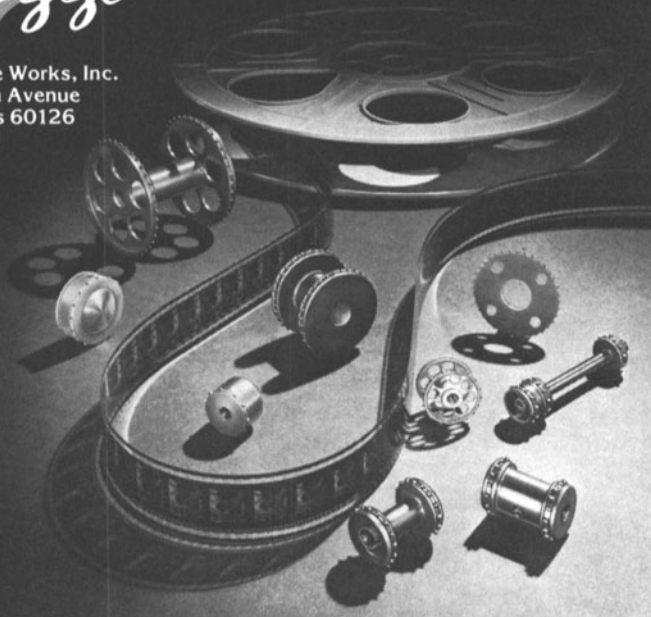
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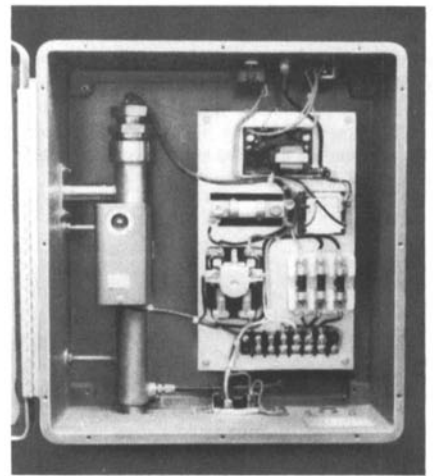
tachable cable. The console is independently powered from a conventional 120-V ac house plug outlet.

The Control Console is a 12-channel, 2-scene arrangement with two submasters for each scene and a grandmaster. By operating an internal switch, the console may be changed to a 24-channel, single scene console. Scene 1 submasters would then control channels 1-12, and scene 2 submasters would control channels 13-24. The price of the Mole-Control (Type 8881) is \$15,000.

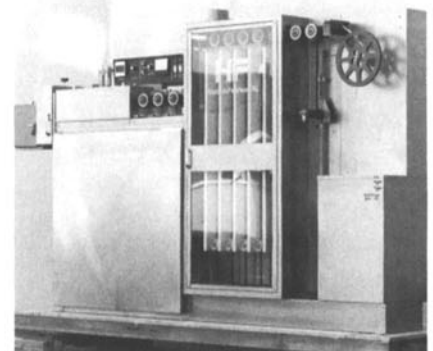


The LiteMate/SpotMate system, a light-measuring instrument that can be held in the palm of one hand, has been announced by Photo Research, Division of Kollmorgen Corp., 3000 North Hollywood Way, Burbank, CA 91505. The LiteMate is available separately to measure illuminance in foot-candles or in conjunction with the SpotMate to measure luminance in foot-lamberts. The LiteMate reads from 0.01 to 20,000 fc. The SpotMate features a 1° spot, has parallax adjustment and reacts from 0.01 fL to 20,000 fL.

The LiteMate/SpotMate system has a reading accuracy of $\pm 5\%$ and repeatability is 2%. The system uses a large, easy-to-read liquid crystal display and features low-drain circuitry that allows over 30,000 readings on a single battery. A 6-s HOLD feature is provided to facilitate indirect readings and prevent reading errors. The LiteMate/SpotMate system is priced at about \$675. The LiteMate alone is priced at about \$495.

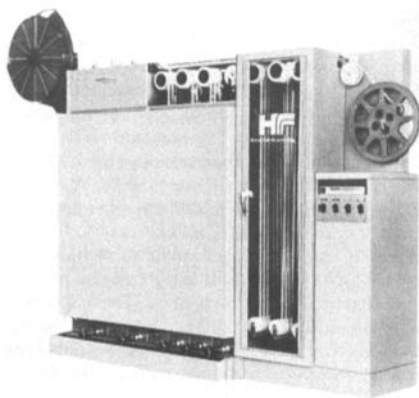


The Heat Pack Module, a thermal heating package designed to bring the temperature of any liquid up to the desired level (125° F maximum), has been announced by Treise Engineering, Inc., 1941 First St., San Fernando, CA 91340. A proportional control system "watches" the temperature and provides the right amount of heat to maintain it within a variation of $\pm 5^\circ$ F. The module consists of a recirculating pump, a heat exchanger with an electrical heating element and the control system. The entire unit is contained in a compact cabinet with a hinged door that is completely rubber-sealed to minimize any possibility of hazard. Both cabinet and components are non-corrosive. The cabinet is constructed of reinforced fiberglass. The heat exchanger and heating element normally are made of type 316 stainless steel unless hastelloy and/or titanium are needed for highly corrosive liquids. The module has internal thermal limiting devices and provides four different safety functions. If any vital element fails, such as the sensing device, heater or pump, automatic disconnects are provided to assure maximum safety. The heat pack is available for 1000 or 6000 W. The pump flow rate can go up to 10 gal/min. Prices start at \$1025.



Two new Advanced Labmaster film processors have been announced by Houston Fearless 76, 833 E. Walnut St., Carson, CA 90746. The new models are for rewashing color negative and color intermediate films in Eastman Kodak Process RW-4 at 22 ft/min and 45 ft/min respectively. The HF single-shaft demand-drive film transport is used to assure gentle handling of the film. Each model requires only about 12 ft² of floor space. Daylight or darkroom loading is available. Prices range from \$14,000 to \$20,000.

A new processor, the LTM-E6, an addition to the Little Max line of processors, has been announced by Houston Fearless 76, Inc., 833



East Walnut St., Carson, CA 90746. The new processor can process Ektachrome original and duplicate films in Process E6 and can handle 110, 126 and 35 mm films interchangeably. Features include 2000-ft load capacity and daylight operation, stainless steel construction in the wet section, and ease of operation resulting from solid state temperature and speed controls. The price is \$13,500.



Adapters designed to handle various camera magazines have been announced by Houston Fearless 76, 833 Walnut St., Carson, CA 90746. Adapters are now available to handle IBM, REI and Burroughs recorder/sorter camera magazine cassettes. The adapters are designed to minimize the direct labor and time required to get the exposed film from camera to processor. Adapters are also available for various COM cameras. Prices range from \$100 to \$500.



The Dispos-A-Filter, a new in-line filter for filtering chemical process solutions, has been announced by Treise Engineering, Inc., 1941 First St., San Fernando, CA 91340. The filter is

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