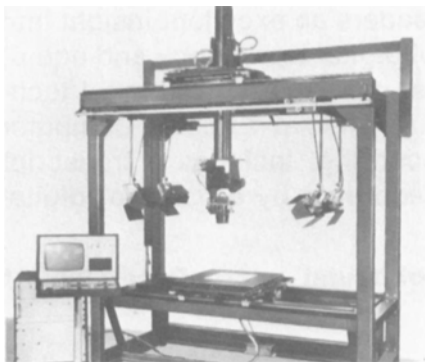


# NEW PRODUCTS AND DEVELOPMENTS

**The Automator System I**, a video camera stand designed to provide real-time motion, has been announced by Photographic Equipment Service, Inc., 695 Main St., New Rochelle, NY 10801. It has four support columns, one in each corner, and the television camera moves around at the top of the stand, which is 7 ft wide, 3½ ft deep, and 7 ft high. Artwork is on a lower table that has complete movement N/S, E/W, and rotation with top and bottom



Automator System I

lighting. It is possible to place two cameras on the stand, one camera on the moving camera compound looking at objects on a fixed table, and the other on a fixed platform looking at artwork on a moving compound table.

Lights are supported from independent guide rails, but a small coupling bar connects them to the camera compound, enabling them to be either in a fixed position or to move with the camera. The underlight unit was designed to move with the table top, large enough to handle transparencies up to 12 X 12 in, and to allow a transparency to spin.

The camera stand is controlled by a specially developed computer called the Automator Plus. It can calculate, remember, and run stepping motors in a smooth motion through any path, in curves or straight lines from ¼ sec to 20 min in 1/30 sec increments. It can be programmed up to 200 segments at a time with eases and changes in time in each segment. It has a visual display and leaves a floppy disc record.



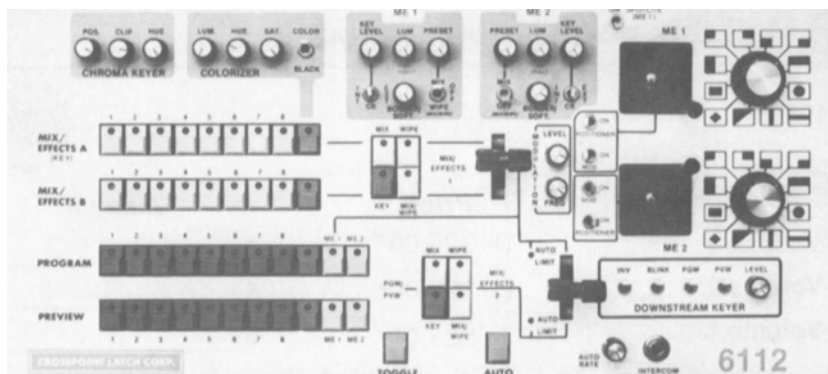
Ikegami ENG/VCR camera system

**An ENG/VCR color TV camera system** has been announced by Ikegami Electronics (USA), Inc., 37 Brook Ave., Maywood, NJ 07607. The camera, Model HL-83, weighing less than 10 lb including the viewfinder, is highly versatile. It can be connected to a standard ENG videotape recorder or to a remote camera control unit and used with the ML-83 portable microwave link or with a multicore cable to the remote field base station. A choice of two miniature high speed ¼-in or ½-in tape format VCRs may be attached directly to the camera body providing an integral camera-recorder system to permit a one-person ENG operation.

The HL-83 uses a prism beamsplitter and ⅔-in Plumbicons or Saticons.

A video color camera, Model WV-3400,

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has been announced by Panasonic, One Panasonic Way, Secaucus, NJ 07094. Features include Panasonic's color separation system, a high band  $\frac{2}{3}$ -in single stripe filter integrated Saticon, and an auto white set indoor/outdoor selection switch. Its horizontal resolution is 300 lines at center and its SNR is 50 dB. The camera is designed for comfortable field use with an ENG-type shoulder mount. It weighs 6.6 lb with auto focus lens and viewfinder. The camera provides video fade-in and fade-out. Model WV-3400 allows for the signal to be switched to positive or negative for special effects or for use when converting negative 35-mm film to a positive picture.



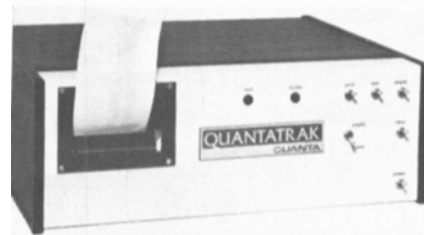
Panasonic video color camera



Ikegami EC-35 electronic camera

**The Ikegami EC-35 electronic cinematography camera**, a product of Ikegami Electronics (USA), Inc., 37 Brook Ave., Maywood, NJ 07607, uses video techniques to reduce production costs and delays that occur when film is used in made-for-television productions. The camera has been designed for the camera operator using film-style techniques. It is available with a variety of film-type zoom and prime lenses, lightweight and standard matte boxes, a follow-focus with magnetic footage marking discs, and a Cinema Products zoom-control system. Whether used on or off the tripod, the EC-35 permits the cameraman to use film techniques and lighting. It is shown with the Steadicam.

**A new videotape evaluator** that examines all the electronics functions of helical videotape including dropout, clusters, and worn edges, has been announced by Quanta Corp., 2440 South Progress Dr., Salt Lake City, UT 84119. Operating at nine times tape speed, Quantatrak scans the helical video tracks and the control track pulses for dropouts and signal strengths. The audio track is scanned photo-electrically for edge damage. A printout evaluator indicates duration of play, total frame count, worst dropout count, worst dropout minute, number of control track errors, number of dropout clusters, and number of audio track errors. Quantatrak is priced at \$5,995 for  $\frac{1}{2}$ -in formats including tape recorder, and \$8,995 for  $\frac{3}{4}$ -in VTRs including tape recorder.



Quantatrak videotape evaluator

**The BGW Model 6000 Proline™ power amplifier**, second in a new series, has been announced by BGW Systems, Inc., 13130 South Yukon Ave., Hawthorne, CA 90250.

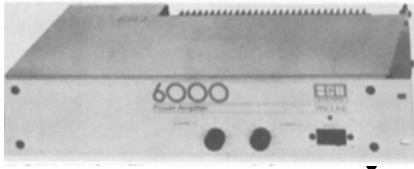
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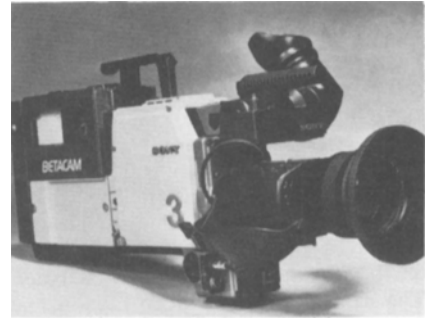


*BGW Proline™ power amplifier*

Delivering a full 100 W per channel into 8-ohm loads, the new Model 6000 is a compact, low profile, 3½-in high rack-mount package of all welded steel construction. It has eight rugged large geometry output devices, four 150-W output devices per channel. Features include low noise discrete circuitry with protective circuits of critical importance, such as

thermal circuit breakers with reset buttons, thermostatic switches on the heat sink assembly and in the power transformer, and current-limiting circuits to protect the output stage from short circuit operation. The price is \$579.

A new three-tube camera designed to complement and interface with the Sony Betacam® combination VTR/camera system has been announced by Sony Broadcast Products Co., 9 W. 57 St., New York, NY 10019. Designated the BVP-3, when it is substituted for the single-tube BVP-1 in the Betacam system, only 2.5 lb are added to the VTR/camera unit.



*Sony BVP-3 camera*

Standing alone, the BVP-3 camera weighs slightly less than 9 lb. In combination with the Betacam VTR unit, the total weight is 17.5 lb without the lens.

The GP-6M portable color video camera has been announced by Hitachi Denshi America, Ltd., 175 Crossways Park West, Woodbury, NY 11797. It is a versatile, sophisticated camera using a ⅔-in single-frequency Saticon. An *f*/1.4 12.5-75-mm lens with power zoom and auto iris is standard. A 1.5-in electronic viewfinder is built in. Other features include an SNR of 46 dB, resolution of 260 lines, and automatic sensitivity control for low-light situations.



*BCN-21 videotape recorder*

The portable BCN-21 videotape recorder has been announced by Robert Bosch, Television Systems Div., 6100 Darmstadt, Robert Bosch Str. 7, West Germany. The battery-operated reel-to-reel VTR is shock-proof and water-protected, and weighs 9 kg including battery and tape reels. The movable reel drive system permits the use of tape reels with 20, 30, or 60 min playing capacity. Features include automatic editing, visible search, and audio with limiter and mixer. Centralized LCD display for operation modes and status, RF modulator for reproduction on home television sets, and time code for supplying several BCNs simultaneously are optional.



*Pentax video camera*

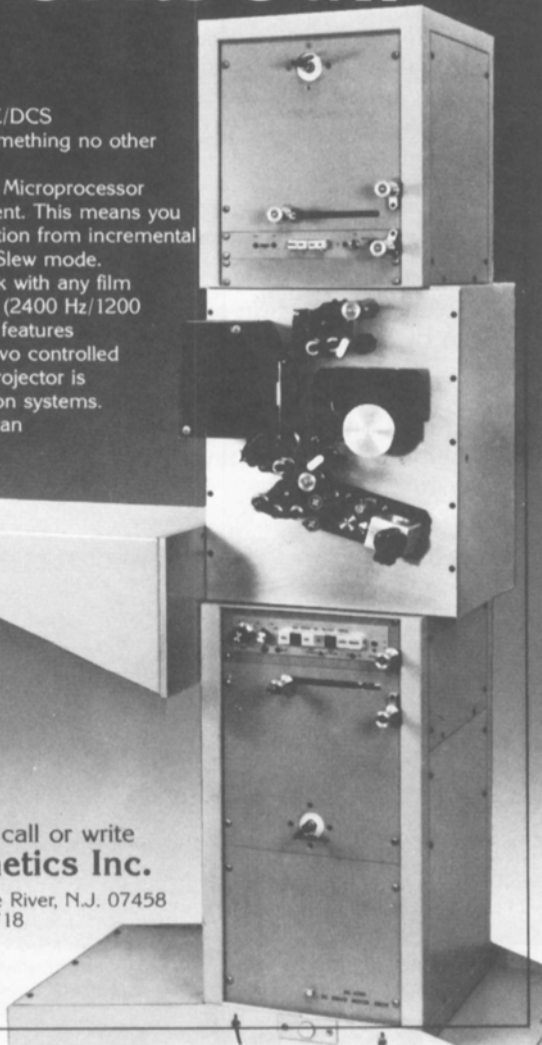
## The High Speed 35mm Projector With A Mind Of Its Own

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A video camera, **PC-K003A**, has been introduced by Pentax Corp., 35 Inverness Dr. East, Englewood, CO 80112. The camera, which weighs 4.2 lb, uses a tri-electrode vidicon which reproduces each color (red, blue, green) individually. Power consumption is 6.5 W. The camera lens is a 14-84-mm  $f/1.6$  zoom. The electronic viewfinder has a flip-up magnifier with a rubber eyecup for added comfort. The viewfinder serves also as a field editing monitor when using the quick-review control, allowing the photographer to rewind the tape three inches for an instant field check.



*Cinema Products GSMO viewfinder*

A new adjustable **GSMO viewfinder** for use with **GSMO 16-mm cassette-load cameras** has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. The device is adjustable to accommodate 32 erect viewing positions, and can be used for handheld as well as tripod operation. In normal handheld operation the GSMO viewfinder sets the eyepiece approximately one inch forward of the film plane to achieve better balance on the shoulder. When the viewfinder is fully articulated in the rearward position it extends to approximately six inches behind the film plane, eliminating the need for an eyepiece extender when shooting on a tripod. Price of the GSMO viewfinder is \$1,800.



*Ikegami TV monitors*

A new series of low-cost **14- and 20-in high resolution broadcast color TV monitors** has been announced by Ikegami Electronics (USA), Inc., 37 Brook Ave., Maywood, NJ 07607. The monitors use advanced circuitry and in-line gun, and self-converging high resolution shadow-mask picture tubes with matched phosphors. The blank matrix screen enables pictures to be displayed with a high degree of contrast even under bright lights. The close spacing of the phosphor dots results in 600 TV line resolution. The switchable comb filter preserves superior definition. The Use of I and Q demodulation results in accurate color reproduction. Extremely tight color-locking is possible with the automatic frequency/phase control.

*SMPTE Journal, September 1982*



*Barco color monitor, CDCT 4351*

A new series of **Barco color monitors** for computer graphics applications has been announced by Elector, 5128 Calle del Sol, Santa Clara, CA 95050. The model CDCT 4351 has a 50 MHz video bandwidth. A 19-in high-scan, high-resolution monitor, it utilizes a delta gun, 0.31-mm delta-dot shadow-mask tube with a horizontal scan rate up to 35 KHz. A CRT with standard or long-persistence RGB phosphors is available as an option. Prices begin at \$4,491.

The **LPS-3 power supply**, an ac-operated power supply designed for use with all video cameras, has been announced by

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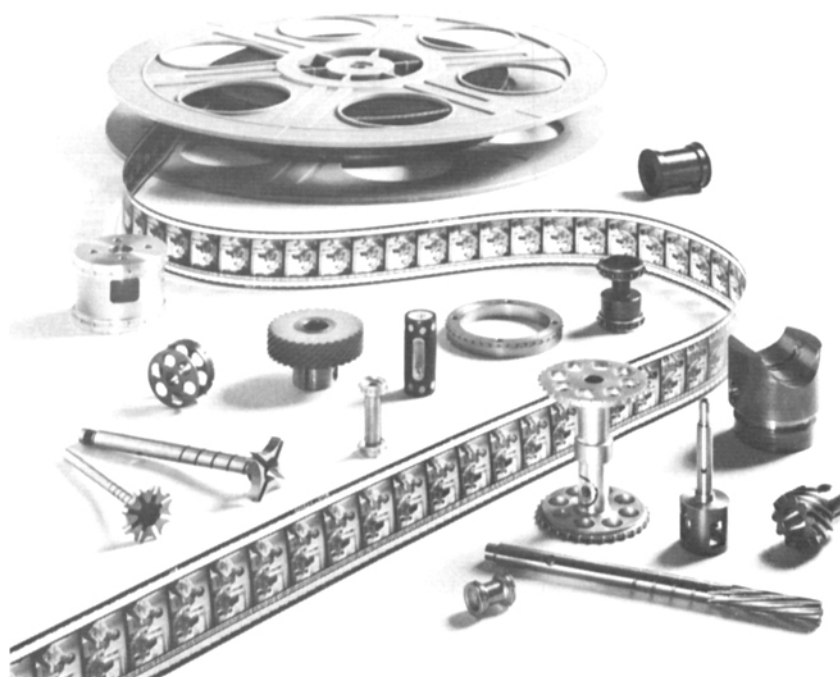
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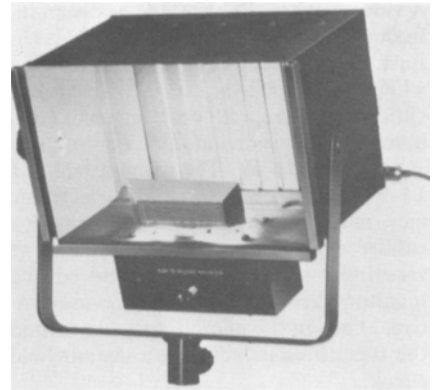




LPS-3 power supply in Snap-On Housing

Anton/Bauer, Inc., One Controls Dr., P.O. Box 616, Shelton, CT 06484. The unit is packaged in the patented Anton/Bauer Snap-On™ System Housing, allowing it to be snapped quickly and easily onto the rear of almost any camera while maintaining the balance/weight ratio of the camera system. The maximum power output is 40 W, 12-13.2 V dc at 3 A maximum. It is operable on 115/230 V ac 50/60 Hz.

Camralite, an "obie" light designed to be mounted on the camera in close proximity to the lens, has been announced by The



Camralite

Great American Market, P.O. Box 178, Woodland Hills, CA 91365. It is said to lighten or erase the effect of shadows caused by facial lines and creases. Features include a variable area reflector in the rear wall which allows the intensity of the light to be varied without affecting the color temperature or the quality of softness. A constant 3200 K is maintained throughout the intensity change. Camralite weighs 2½ lb and can be mounted on any camera, whether handheld, dolly-operated, or Steadicam. The Camralite kit, including barndoors, gel, and scrim frames, is priced at \$1,050.

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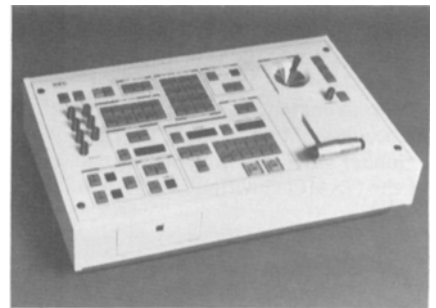
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NEC E-Flex digital effects system

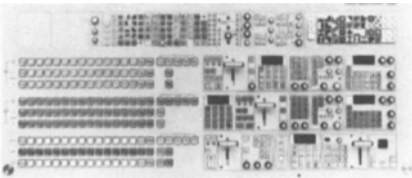
An advanced Digital Video Effects (DVE®) system with increased video manipulation capabilities, has been announced by NEC America, Inc., 130 Martin Lane, Elk Grove Village, IL 60007. Called the NEC E-Flex, the system provides new visual effects and a control system designed for maximum ease of operation. Among the new capabilities provided by the E-Flex is a trajectory system that programs non-linear curved paths of movement from one screen location to another. When used in combination with speed changes and loaded into multiple memory registers, extremely complex non-linear effects may be achieved. Other features include border and background generators that create fully dynamic borders around compressed images and track through any movement including flips and tumbles.

A bubble memory that allows the creation, programming, and storage of effects sequences is available as an option. It may be used to store standard opens, closes, transitions, and complete sequences.



**Newsmatte**

The **Newsmatte**, a video compositing device designed for news, interviews, and similar live broadcast situations, is a product of VGR Corporation, 18607 Topham St., Reseda, CA 91335. It provides composites without blue tint or edging. Detail seen by the foreground camera is retained in the composite, including individual strands of hair, shadows, smoke, and even transparent materials. The Newsmatte is designed on a new principle and is not a keyer. Its circuits are automated, and it may be integrated into a video switcher or operated independently.



**Production switcher, Grass Valley Group**

The **Model 300-2 production switcher** has been introduced by the Grass Valley Group, Inc., P.O. Box 1114, Grass Valley, CA 95945. It is available with 16 or 24 inputs and contains two Mix/Effects systems with E-MEM™ effects memory system, a program/preset mixer, and downstream keyer. New features have been announced for all 300-series switcher models. Effects dissolve and sequencing functions have been added to each Mix/Effects E-MEM system. Effects dissolve provides frame-accurate transitions for any combination of Mix/Effects analog controls for wipe size and position transitions, moving masks, precise wipe rotation, and pattern modulation transitions. The sequencer function allows linking E-MEM system effects into a chain or loop of up to 20 effects per Mix/Effects system. Transition rates and delay times are independently programmable for each step of the sequence.

Options include a 300-series master E-MEM system which allows 300 switcher and Mk II DVE E-MEM system effects to be recalled by one button-push, an E-Disk™ floppy disc storage system for 300 and Mk II DVE effects storage, and new serial interface software for the Mk II DVE allowing complete control from an external computer editing system.

A separate stand-alone time code reader and time code generator, the BVG-1500 and the BVG-1600, have been announced by Sony Broadcast Products Co., 9 W. 57 St., New York, NY 10019. The units enable the user to achieve precise frame identification at any search speed including slow-motion and still-frame. One unit reads and the other generates longitudinal and vertical interval time code (VITC). Both units feature eight-digit LED displays and

data input/output ports for plugging in external equipment.

The BVG time-code reader has a built-in character generator with adjustable vertical/horizontal size/position tone, and an optional shot list printer. The BVG-1600 time-code generator offers color-frame lock capability with SC/H phase detection, real-time clock set, slave lock capability, and built-in play speed reader.

A new **spectroradiometer** that extends the useful range of the Pritchard® PR-1980B spectroradiometer into the near-ultraviolet

and near-infrared spectrum has been announced by Photo Research, a division of Kollmorgen Corp., 3000 North Hollywood Way, Burbank, CA 91505. Designated the PR-1980BX, it has achieved UV response down to 290 nm, and extended range phototubes achieve infrared response out to 860 nm. Features include an automatic system of order-sorting filters to eliminate second-order effects and stray light. Also available is a thermoelectric cooler that improves stability and detectivity (signal to noise) over a wide range of ambients. Price of the PR-1980BX is \$27,000.

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