

method, the auto-correlation function is first calculated and then numerically Fourier-transformed, yielding the power spectrum. The time required to calculate a power spectrum on a digital computer is extremely short, and the calculations are simple and easy to use.

800×800 Charge-Coupled Device Image Sensor, Morley M. Blouke, James R. Jancsick, Joseph E. Hall, Marvin W. Cowens, and Patrick J. May, *Optical Engineering*, 607-614, September/October, 1983.

The design and performance of an 800×800 pixel CCD imager are described. This device is fabricated utilizing a three-phase three-level polysilicon gate process. The chip is thinned to 8 μ and is employed in the rear illumination mode. Detailed measurements of the device performance, including dark current as a function of temperature, linearity, and noise are presented. The device is coated with an ultraviolet down-converting phosphor which allows imaging with the same device over an extremely wide optical bandwidth.

A New Image for Television, Joe Roizen, *Television Broadcast Communications*, 52-54, October, 1983.

Television engineers are currently being confronted by a number of new technologies that promise to provide the home viewer with better pictures on the TV set by enhancing present systems or creating new ones; more information via the existing television channel, by employing teletext or vidcotex techniques; a greater variety of programming via DBS, VCRs, videodisks, or other new media such as fiber optics; and more visually pleasing images through the use of computer graphics, digital effects, real-time video animation, ghost cancellation, and the like.

Display Holography: A Frontier of High Resolution Photography, N. J. Phillips, *Journal of Photographic Science*, 134-142, July/August, 1983.

Since the invention of holography by Dennis Gabor (c. 1948) and the invention of the laser in 1960, the field of display holography has seen great advances. The early promise of the modern work in the early 1960's was clearly blocked by a lack of understanding of basic photographic science. More recent work based on a better understanding of photographic chemistry has revealed many of the obvious problem areas.

This paper outlines the important holographic imagery regimes, to offer an understanding of how each depends on specific photographic manipulative methods as far as chemistry is concerned, and how they interrelate with the special photographic materials in the recording process.

NEW PRODUCTS

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.



Kodavision camcorder Model 2400, Eastman Kodak Co.

An entirely new 8mm video camera-recorder system called the Kodavision camcorder has been announced by Eastman Kodak Co., 343 State St., Rochester, NY 14650. Also, more than 50 configurations of Kodak and Eastman brand videocassettes and tapes for home entertainment and professional applications, have been developed by Kodak in accordance with its "plans to extend its reach in imaging to the worldwide video market."

The products will be manufactured to Kodak specifications in Japan. TDK will supply the videotape and Matsushita, the equipment. The Kodavision series 2000 includes two camcorders, Model 2200 and auto-focus Model 2400. The camcorders weigh about 5 lb each. Features include fast forward and reverse, a 6X power zoom lens, a 5X visual search, fully automatic white balance, an electronic viewfinder, and an automatic iris for automatic exposure control.

Both camcorders accept cassettes of either MP (metal particle) or ME (metal evaporated) tape. They can record for up to 90 min. Model 2200 has manual focus, two recording/playback heads, and still-frame capability. Model 2400 has an auto-focus lens (with manual override), three heads, still-frame and frame-advance capability, and pushbutton fade-in/control.

A playback component called the Kodavision cradle, Model 2020, allows users to play back recorded tapes when the camcorder is placed in it. The cradle is connected to the user's television set. The camera's motor drives the tape, and circuitry within the cradle converts the sig-



Kodavision cradle with camcorder Model 2200, Eastman Kodak Co.

nals recorded on the tape for television display. The camcorder's battery is recharged while the camera is in the cradle. The cradle can also recharge a separate battery to extend the time the camcorder can be used.



GZ-S5U single-tube camera, JVC Co. of America

The GZ-S5U camera, a lightweight camera with auto-focus and auto-fade, has been announced by JVC Co. of America, 41 Slater Dr., Elmwood Park, NJ 07407. It uses a 1/2-in. highband Saticon pickup tube. Features include an auto-focus mechanism using the TCL (through the camera lens) image-sensing focus system. This system, developed by Honeywell Visitrionic, measures visible light from the subject so no extra energy is required as with infrared or ultrasonic auto-focus systems.

An optional external titling system, which uses the CG-P50U character generator, can be attached to the camera to produce a variety of titling effects, including scrolling, zooming, and date and lap-time display. Titles can be superimposed on any scene during actual recording, or later, when editing.

A universal mount for Sony 330 cameras has been announced by Optex, 22-26 Victoria Rd., New Barnet, Herts EN4 9PF, England. The mount is for use with Canon lenses ranging from 300- to 800-mm.

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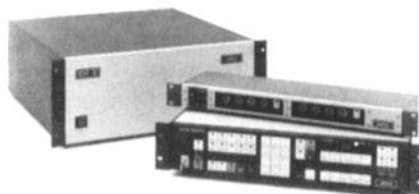


PL hard front conversion for Arri 2C cameras, Cinema Products

A PL (positive lock) hard front conversion for Arri 2C cameras has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. The new PL style is a versatile system built on the Arriflex original design for a BNCR-style hard front. The PL/BNCR hard front for Arri 2C cameras permits rapid conversion from one style mount to another.

Ultrapan, a motion-control device, has been announced by Elicon, 273 Viking Ave., Brea, CA 92621. Designed to pan an image across the film plane, the system speeds conversion of wide-screen format to video format. The pan-across system replaces the east-west lens mount found on most optical printers.

The Ultrapan is composed of a motorized lens mount, a specially designed keyboard, and a paper tape/computer module. The pan-across computer is programmed to drive the lens mount either east or west in a specified number of frames to achieve a panning of the image. It operates from manual input of positions as well as paper tape input. Using the standard composite paper tape format, pan-across moves are generated by keying a cue frame, new position and desired number of frames, into the computer.



ESP II still store system, ADDA Corp.

The ESP II, an electronic still store system, has been announced by ADDA Corp., 130 Knowles Ave., Los Gatos, CA 95030. The device is a dual-channel still processor for the creation of still images stored on a variety of standard hard disk drives. It permits digital effects transitions between the two channels of video output. Effects that can be programmed

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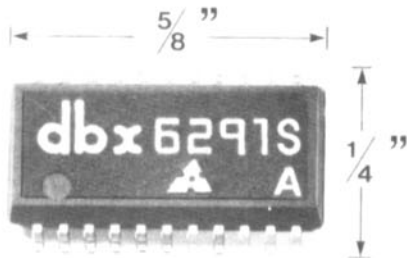
For more information, write or call Sylvania Lighting Center, Danvers, MA 01923 (617) 777 1900 Extension 2650.

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between stored stills include a variety of wipes, fades, dissolves, cuts, pushes and pulls, all selectable at four different rates. Still image storage, recall, sequencing, and transition are under microprocessor control from a remote panel measuring 3½×19 in.

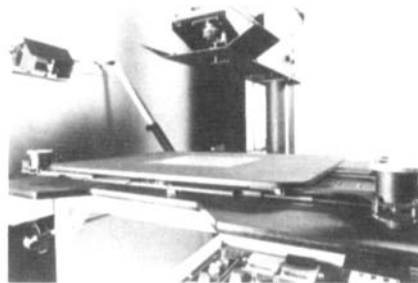


Noise-reduction IC chip for TV stereo sound system, dbx Inc.

A TV noise-reduction system has been developed by dbx Inc., 71 Chapel St., Newton, MA 02195. The system, which uses a combination of fixed pre-emphasis and de-emphasis, wideband companding, and a newly developed spectral companding system, is said to be capable of delivering high-quality audio despite a variety of possible channel degradations, including hum, buzz, and hiss. The system consists of an encoder at the TV station's transmitter, and a matching decoder in the con-

sumer's TV set. The decoding circuitry for TV receivers is based on the 22-pin AN6291 integrated circuit developed jointly by dbx and Matsushita Electric Co.

A multi-channel television stereo audio transmission system has been developed by Zenith Radio Corp., 1000 Milwaukee Ave., Glenview, IL 60025. The system will make possible television programming with stereo sound. It will have a supplementary audio channel for applications such as multi-lingual programming. A device called Redi-Plug allows direct connection of a stereo TV adapter (in addition to teletext decoders, cable TV decoders, and other devices) to the TV receiver.



Model 900 compound table, Forox Corp.

An animation compound table, Model 900, has been announced by Forox Corp., 393 West Ave., Stamford, CT 06902. Model

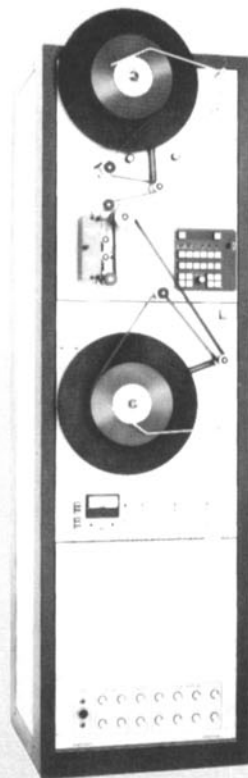
900 is 50½ in. wide and 25 in. deep. It has a table surface of 24×32 in., and a 12-field illuminated area of 9×12 in. The pantograph board, which is permanently fixed in place, is 10×18 in. with a retractable pointer.



RM-86U editing controller, JVC

The RM-86U, an editing controller compatible with both ¾-in. and VHS videocassette recorders has been announced by JVC Co. of America, 41 Slater Dr., Elmwood Park, NJ 07407. The RM-86U performs insert and assemble edits, and has color-coded controls for convenient operation. It allows the operator to enter two edit out points and one in point, then automatically computes edit duration and the fourth edit point. A GOTO button commands the appropriate VCR, either recorder or player, to find a selected edit point. This is useful for making corrections without using the trim feature.

A new Generation of 16/35mm Recorders-Reproducers

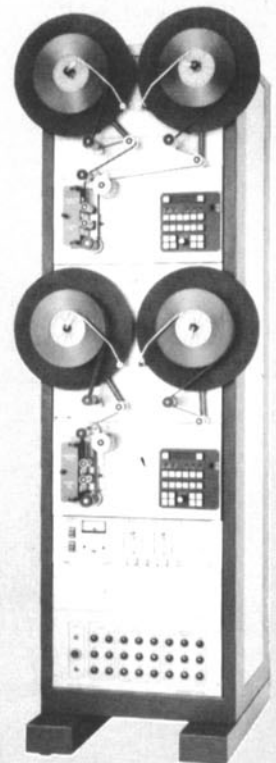


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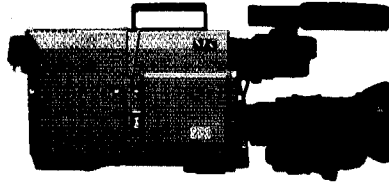
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BR-8600U editing recorder, JVC

A VHS editing recorder, the BR-8600U, has been announced by JVC Co. of America, 41 Slater Dr., Elmwood Park, NJ 07407. The recorder has three sets of video heads — one pair for standard two-hour recording and playback, another for still-frame and shuttle search, and a pair of rotary erase heads. Features include a sophisticated signal processing circuit, a color dub function which bypasses the color processing circuit, and Dolby B noise reduction.

With either a 1/2- or 3/4-in. source deck, the recorder operates as a stand-alone editing system. A large rotary search dial on the front panel, selectable audio and video edits, and pre-roll, edit stop, and auto cut-out functions allow the operator to set edit in and out points without a conventional editing controller. The front panel contains all of the controls and meters necessary for editing. Frequently used controls are color-coded for fast, error-free identification and simplified operation.

The KVS PRO, a 16-mm viewer/editor, complete with magnetic sound head and amplifier, has been announced by Kalart Victor Corp., Plainville, CT 06062, and Saxon Media Equipment, 5334 Woodman Ave., Van Nuys, CA 91401. Features include a bright, sharp image, a polished chrome film path for scratch-free operation, and a magnetic sound head in line with the picture gate for in-sync double system viewing and editing. The amplifier has a two-channel input for use with one or two sound heads, separate volume controls for each channel, tone control, pilot light, and headphone jack.



Signal Source 1201, Visual Information Institute

The Signal Source 1201/1211/1221 family of test pattern generators has been announced by Visual Information Institute, Inc., P.O. Box 33, Xenia, OH 45385-0033. The equipment provides a basic set of individually selectable test patterns including flat field, bars, dots, gray scale, window, color bars, and resolution (burst repetition rate is selectable in five steps).

The units offer test capability for RGB color television format displays, and may be calibrated for any scan rate as specified.



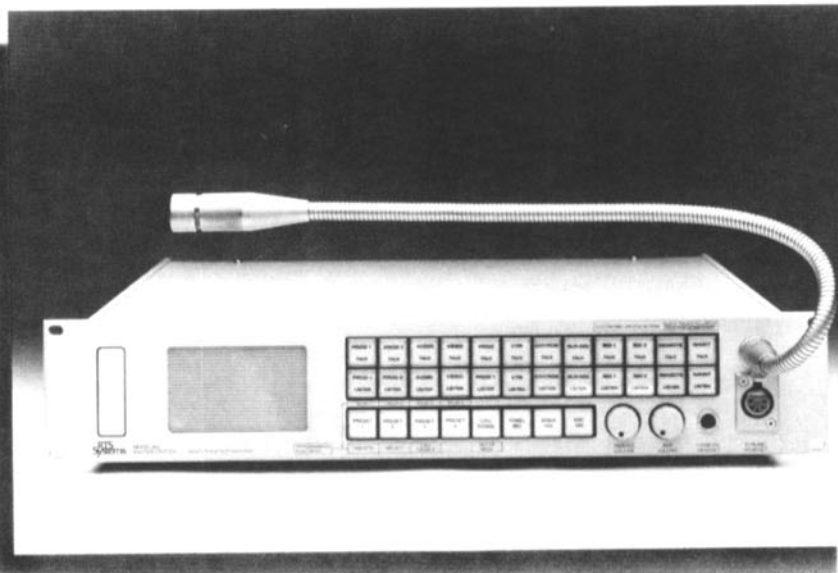
Rackmount color monitor, Videotek, Inc.

A new 13-in. professional color rackmount monitor, the VM-13PRO, has been announced by Videotek, Inc., 125 North York St., Pottstown, PA 19464-9990. Features include three looping composite video inputs; tally light; internal/external sync; presets for chroma, phase, brightness, and contrast controls; pulse cross; underscan; and individual RGB gun switches. The monitor also has selectable horizontal time constant which enables the user to observe skew and tracking errors in nontime-base-corrected signals.

An update kit for the TK-47 color TV camera that will add many of the features

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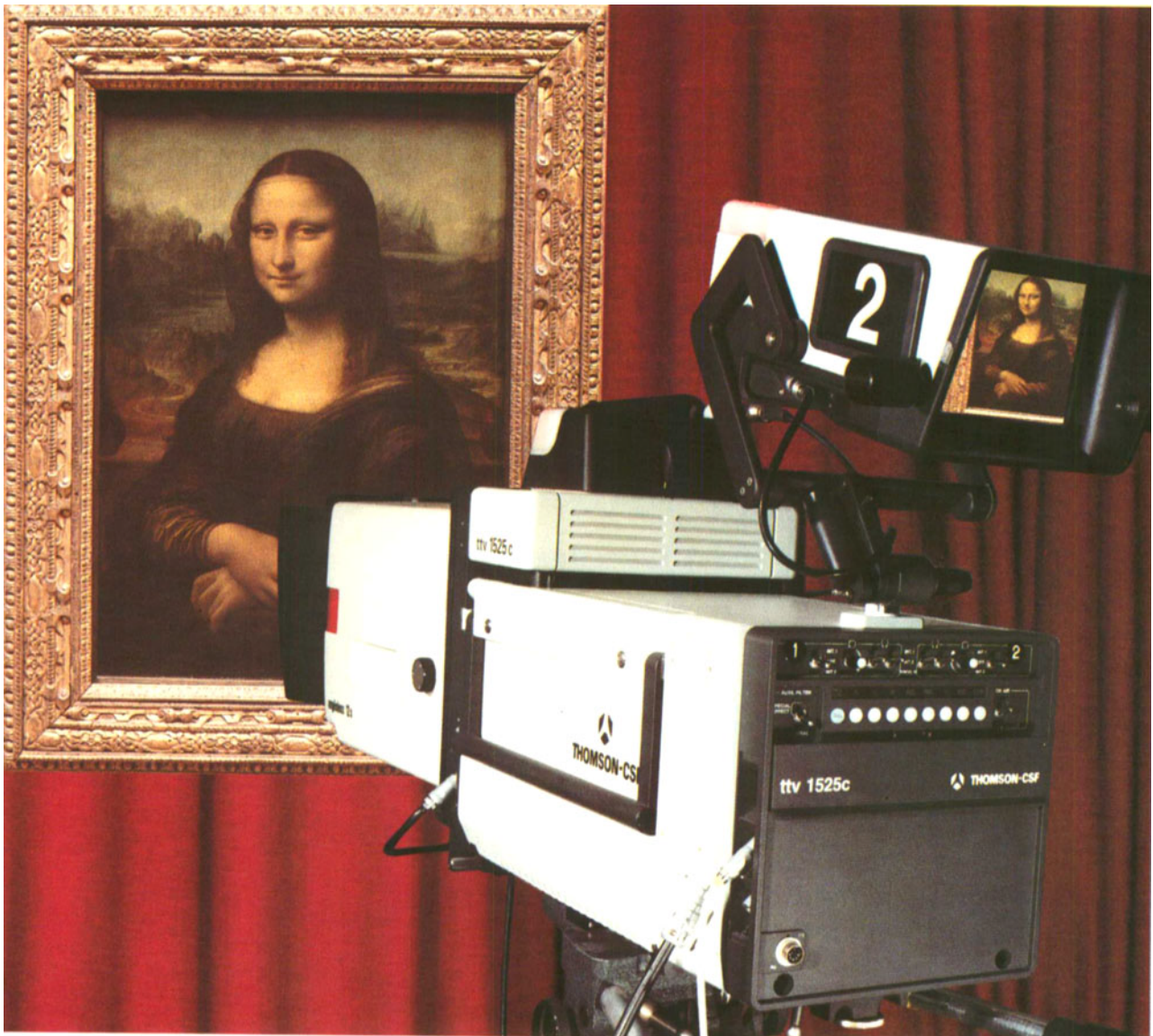
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found on the TK-47B has been announced by RCA Broadcast Systems Div., Bldg. 2-7, Camden, NJ 08102. The kit consists of three replacement modules for the camera head, a central processing unit and setup terminal, and some minor modifications to existing modules. To maintain compatibility, a camera and its setup terminal must be updated at the same time.

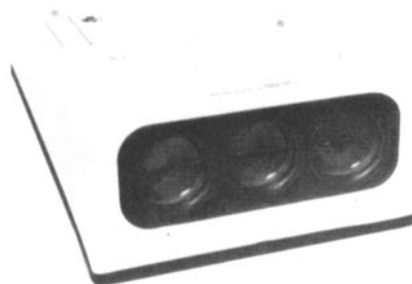
A number of performance features are improved by the update kit, including lens correction memory, lens files (eight backup files in addition to active memory), and fine registration averaging, which reduces residual errors in automatic setup.

The kit also has several new features, including auto iris trim, which provides approximately 10% trim of auto iris at the RCU joystick; preview tally, an iso-tally indicator at the viewfinder and at the RCU without activating the talent tallies; and LED iris *f*-stop readout on the SUT and smart RCU to indicate iris position.

Updated TK-47 cameras can use the smart RCU that was designed for and introduced with the TK-47B. An updated TK-47 setup terminal is compatible with the TKP-47 automatic portable camera and the TK-290 automatic telecine.

A computerized tracking camera system, Model 820, has been announced by Eli-

con, 273 Viking Ave., Brea, CA 92621. It is a complete motion-control system with computer, dual floppy disk drive, terminal, and software. The hardware consists of a camera pedestal, track drive, camera follow-focus mount, X-Y lens board, and the camera motor and mechanical linkage for a camera drive. The entire system runs on a horizontal I-beam track, and can be either servo or stepper driven. The system has eight axes of computer control, and it can be expanded to 64 axes. With little modification, it can be upgraded to a full boom-arm robotic configuration.



CT-10010M video projector, Panasonic Industrial Co.

The CT-10010M 100-in. (diagonal) video projector has been announced by Panasonic Industrial Co., One Panasonic Way, Secaucus, NJ 07094. It can be used for both front and rear projection. The pro-

jector uses 7-in. projection CRTs with *f*/1.1 lenses. NTSC signal resolution is 450 lines, but with RGB input, resolution increases to 550 lines or 2000 computer-generated characters.

The CT-10010M has a wired remote control for convenient adjustment and switching of brightness, contrast, tint, color, sharpness, vertical hold, power on/off, and static convergence with a built-in cross-hatch test pattern generator. The remote control unit also incorporates a line/VTR switch, video/RGB switch, and test switch. Luminance is 4.2 fL (where screen gain equals unity) with a luminous flux of 150 lm.



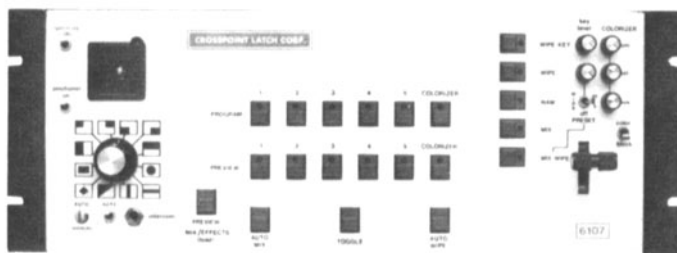
PJ4500 Talaria projector, General Electric

A new color projector, the Talaria PJ4500, has been announced by General

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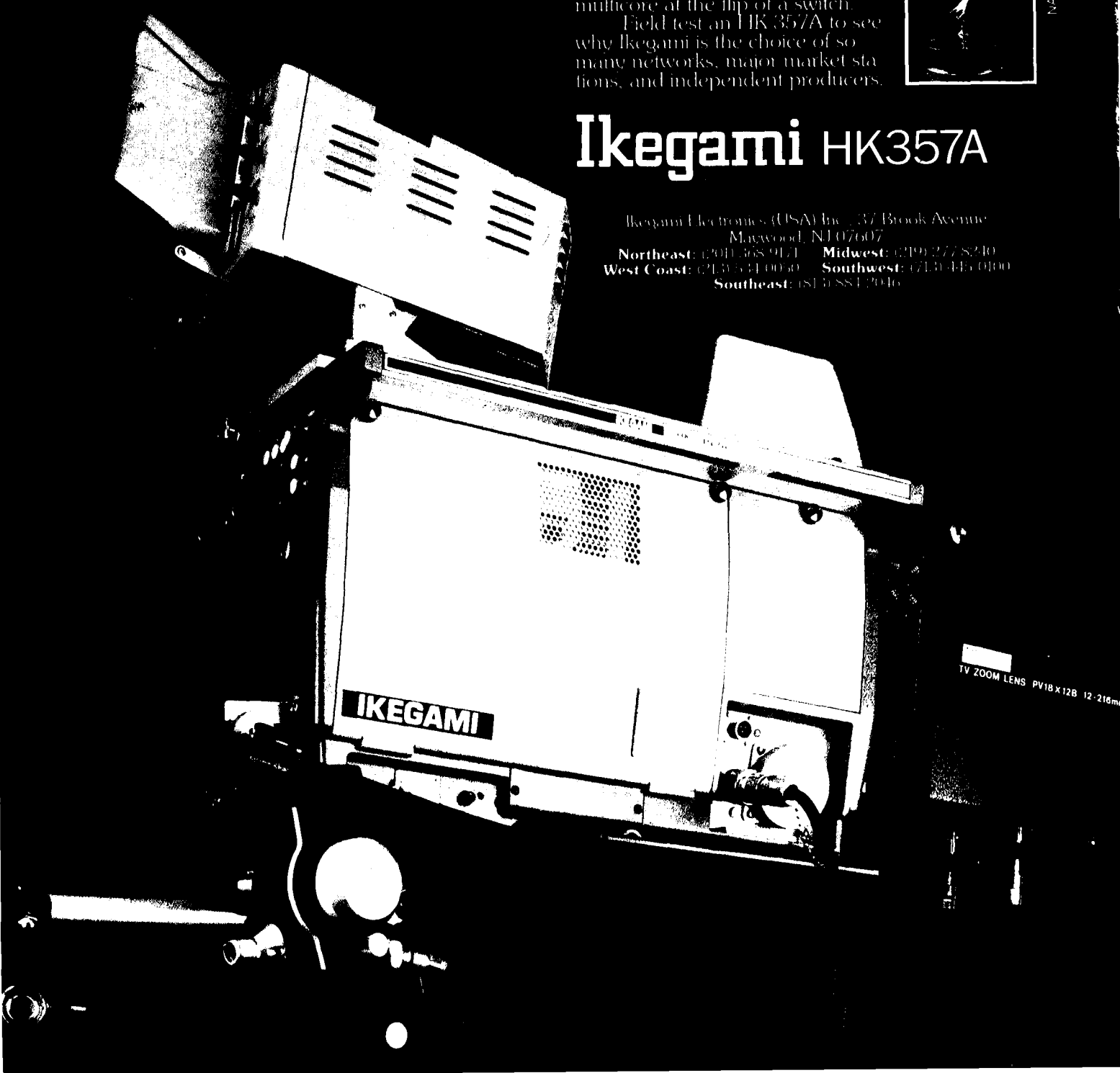


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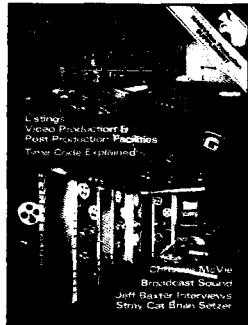
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MiniColormaster film processor, Houston Fearless

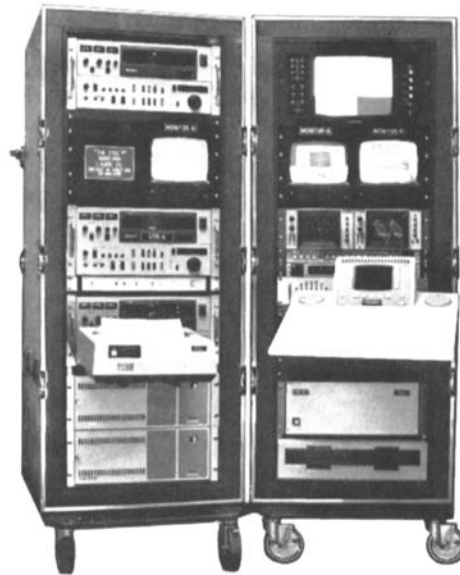
A new MiniColormaster film processor for E6 and C41 color has been announced by Houston Fearless 76, Inc., 833 E. Walnut St., Carson, CA 90746. Features include full turbulence, load and takeup on the same end, ball bearing drive, and full impingement, filtered air drying.



Cooke Varoancho zoom lens, Rank Taylor Hobson Ltd.

The Cooke Varoancho 20-60mm T3.1 zoom lens has been announced by Rank Taylor Hobson Ltd., P.O. Box 36, Guthlaxton St., Leicester LE2 0SL, England. The computer-designed lens can be used as a variable prime lens and as a zoom. Weighing only 2.2 kg (4.8 lb), and having an overall length from the film plane of

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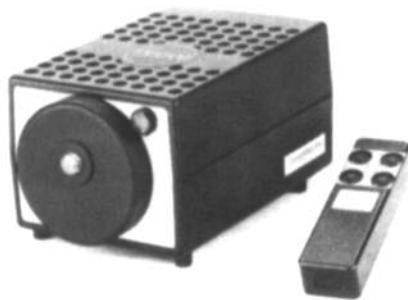
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280 mm (11 in.), the lens can be used to shoot from tight corners on small studio sets or car interiors, and it can be comfortably hand-held. Anti-reflective coatings on all elements give high transmission quality throughout the spectrum, eliminating ghost and flare.



Remote light dimmer. Comprehensive Video Supply

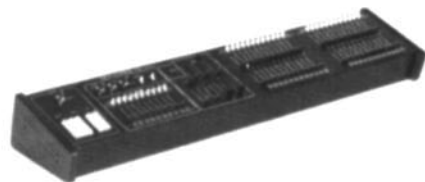
The Remote Light Dimmer system, designed for location work and available as a kit, has been announced by Comprehensive Video Supply Corp., 148 Veterans Dr., Northvale, NJ 07647. The system, manufactured in West Germany, consists of an infrared wireless transmitter and as many 1000-W receivers as are needed. The transmitter has four buttons, each operating a different channel and capable of controlling lights or groups of lights at distances up to 25 ft. An override capability allows for manual light operations.



CD80 portable dimmer pack. Strand Century

The CD80 12-kW portable dimmer pack has been announced by Strand Century, Inc., 20 Bushes Lane, Elmwood Park, NJ 07407. The CD80 accommodates a 3-phase, 4-W feed with one output receptacle per dimmer, including a 100-amp grounded pin connector, a hot test pocket, and optional terminal strips for hard wiring. All electronics are fully protected and easily accessible on a single plug-in card. The unit weighs 85 lb.

The Troubadour series of lighting control consoles has been announced by Electronics Diversified, Inc., 1675 N.W. 216th St., Hillsboro, OR 97124. The consoles have both memory and 2-scene manual operation. They provide 12 to 60 channels, 10 programmable submasters with bump buttons, and split fader/crossfader with X and Y timers. The digital output addresses



Troubadour lighting controller. Electronics Diversified

up to 255 dimmers, with 10-channel analog backup. Modular components make the consoles adaptable to special space and control requirements.



SilverController. Degenkolb Engineering

The SilverController, a differential sensor system designed to automate fixer or bleach-fix silver recovery, has been announced by Degenkolb Engineering, 17661 Orna Dr., Granada Hills, CA 91344. A digital display provides a constant readout of silver level in the fixer or bleach fix. A remote display or recorder output is available. The SilverController can interface with any silver recovery equipment to provide two or three preset levels of control. The device uses two stable silver sensors to compare the process fixer or bleach-fix silver concentration to a known silver concentration.



Miniminer 60. Brumac Industries

The Miniminer 60, an automatic silver recovery unit, designed for desilvering photographic, graphic arts, and x-ray fixers, has been announced by Brumac Industries, 5261 Business Dr., Huntington

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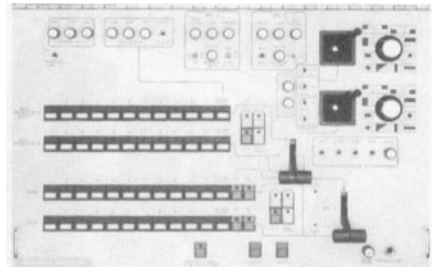
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Beach, CA 92649. The unit features a rotating cylindrical cathode and is constructed with heavy-duty components. All electronic components are separated and protected from destructive chemicals and fumes.



Model 6124A video production switcher, Crosspoint Latch Corp.

A video production switcher, the 6124A, has been announced by Crosspoint Latch Corp., 95 Progress St., Union, NJ 07083. It is a 4-bus, 12-input switcher with two independent mix-effects systems. Features include a downstream keyer, chroma keyer (RGB or encoded), master fade-to-black/color, auto or manual fader operation, dual pattern generators and positioners, colorizer, and bordered wipes. A built-in blanking processor eliminates horizontal and color shifts at the end of a mix or wipe.

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