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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.

Film Data Track (FDT), an SMPTE time-code system, was introduced by Aaton, the French camera company. It is available from Zellan Enterprises, 250 W. 57th St., New York, NY 10019. FDT records an address every frame, plus a clear time mark every second, to provide complete synchronization between the audio tape and 16 or 35mm film.

FDT is a camera original SMPTE frame-accurate time system which supplies film original time information that is transferred to videotape. The significant FDT innovation is the exposure of the SMPTE time code in a flag pattern, rather than a bar. Because the code flag covers a greater area than a linear bar, the message area is never impeded. This is important because scratches and fogging can eliminate several bars, effectively destroying the code.

The FA-400, a low-cost NTSC digital time-base corrector with a full color frame memory function, has been announced by FOR-A Corp. of America, 49 Lexington St., W. Newton, MA 02165. The compact, lightweight unit is specially designed for professional video systems where quality, low-cost operation is essential. It offers outstanding time-base correction together with automatic/manual field 1 and field 2 freeze and remote control capabilities. The FA-400 is capable of correcting errors in 1/2 and 3/4-in. VTRs or any V-lock or non-V-lock source. A full processing amp allows control of video level, chroma level, chroma phase, setup, and freeze function. An optional remote control allows full operation away from the main unit. The model also includes a built-in RS-170A standard sync signal generator with gen-lock function.

A PC version of the Image-Grabber™ digitizing camera was introduced by Artronics, Inc., P.O. Box 408, S. Plainfield, NJ 07080. The new version of its Image-Grabber is a full-color digitizing camera for the company's newest PC-based graphics system, the Artron™ PC-2000-E. This peripheral allows the artist to "grab" an existing image or piece of art and digitally enter it into the Artron Studio Computer™. The art can then be manipulated via the computer's sophisticated "paint," color-editing, or airbrush functions.

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The **EV Bloc System**, a versatile modular time-code and control system, has been announced by Amtel Systems Inc., 400 W. Cummings Park, Suite 4750, Woburn, MA 01801, the product's distributor. By selecting only the necessary modules for his application, the user can create a custom time-code/control system from the off-the-shelf modules. On-board intelligence in all of the microprocessor-based modules allows them to operate independently or as an integrated system.



Panasonic WJ-3500 special effects generator

A new video production system was announced by Panasonic Industrial Co., One Panasonic Way, Secaucus, NJ 07094. The economical system, the 3500, incorporates a WV-3500 color video camera and a WJ-3500 special effects generator with a built-in title/graphics camera. This versatile combination is compatible with virtually any VCR on the market today as well as any professional video camera with a 10-pin connector. The 3500 has been designed for use both in the studio and as an electronic field production (EFP) system.



Panasonic AG-2200 VCR

A VHS recorder with four-head system was introduced by Panasonic Industrial Co., One Panasonic Way, Secaucus, NJ 07094. The recorder offers 2, 4, or 6 hours of continuous recording or playback on a single VHS cassette. Designated Model AG-2200, this deck has an advanced four-head system that delivers exceptional picture quality and is optimized for special effects in the SP mode.

A color bar generator and two high-resolution color monitors have been announced by Asaca/Shibasoku Corp. of America, 12509 Beatrice St., Los Angeles, CA 90066. The CB11A is the most versatile

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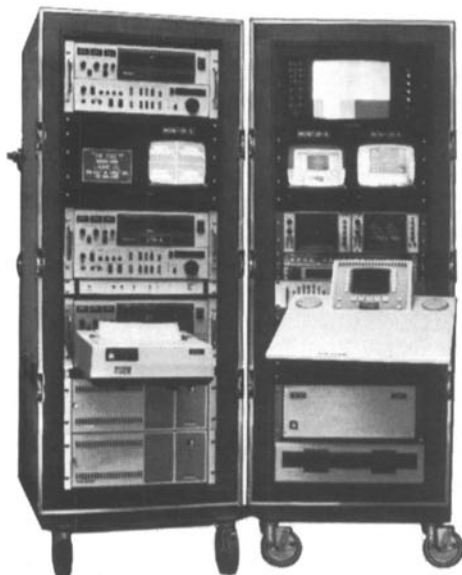
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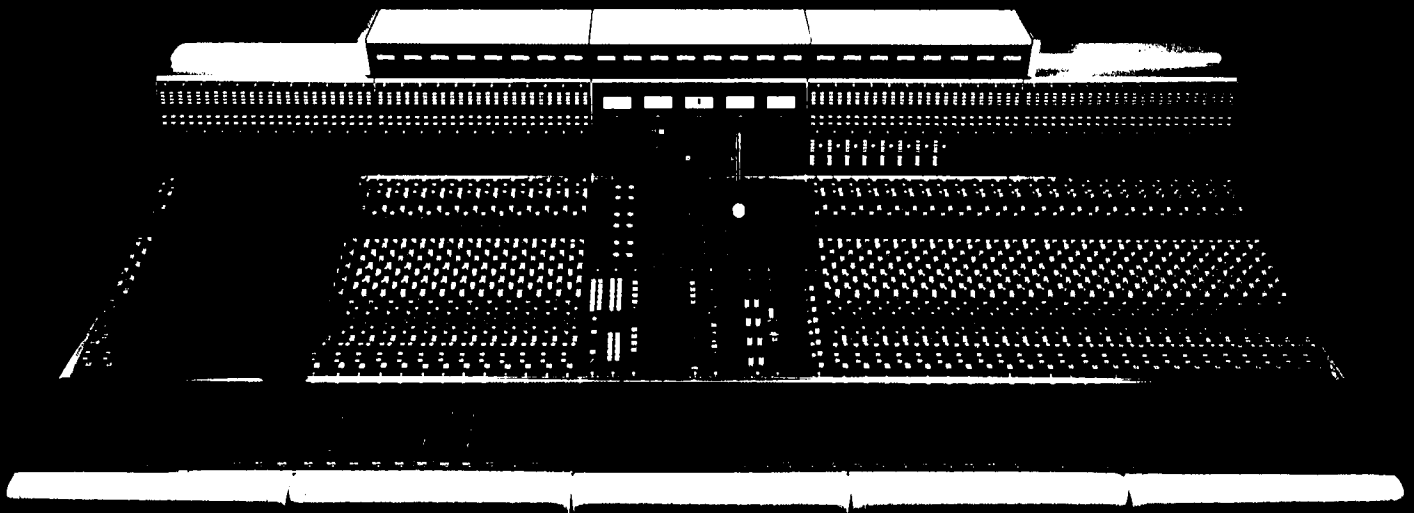


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Dynamics Unit: Each input module contains a highly-regarded limiter/compressor and noise gate, perfect for processing those difficult tracks in post production or for use in live recording, from dramatic shows to musicals and sports.

Multitrack Capability: The 51-series separately controlled direct outputs, pre- or post-EQ, make simultaneous multitrack and live recording a snap.

Because Neve listened, the 51-series is what the television industry wants to hear.

For further information, call Neve's Television Production Sales Department at (203) 744-6230 or write:

color bar generator available in its price range. Using a combination of 15 built-in signals, over 50 different patterns can be generated including a circle and checkerboard. Interlaced scanning can be switched to noninterlaced scanning to eliminate the vertical flicker, thus facilitating convergence adjustments. The CB11A also has an RF modulator with 3-channel selection (two VHF, one UHF) and a switchable 1-kHz oscillator.

The CM99A1 9-in. high-resolution color monitor is designed for mobile use and as a high-quality reference for videotape recorders and cameras. Among its many

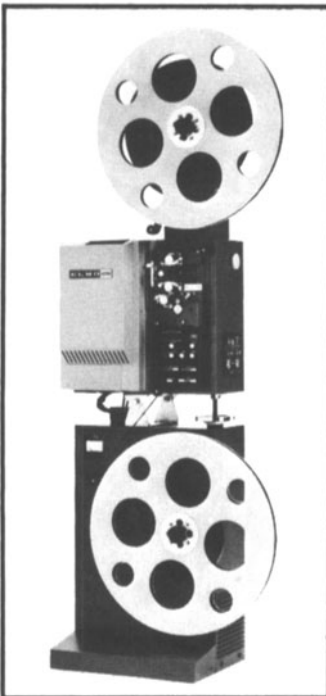
features are switchable comb filter, ac/dc operation, audio reference, pulse cross, underscan, *RGB*, and aperture correction. Rack kits are available for single and dual mounting.

The CMM 26-11 high-resolution color monitor has a high-quality, large picture display. In addition to almost perfect stability and a 0.37 dot pitch delta CRT, the CMM 26-11 features multiple standard capabilities switchable from the front panel and *RGB*, *YIQ*, *R-Y*, *B-Y*, *Y + R-Y*, and *B-Y* as options. Pulse cross, underscan, aperture correction, switchable comb filter, and cross hatch generator are standard.

ChannelPlus™, a new video multiplexer designed for professional and industrial use, allows users to designate channels for all local video sources. It has been announced by MultiPlex Technology, Inc., 251 Imperial Highway, Fullerton, CA 92635. ChannelPlus adds channels to the existing antenna or cable wires, allowing users to view all local video sources at any number of television sets on-site.

Any video source is compatible with ChannelPlus, including black-and-white or color cameras, VCR/VTRs, personal computers, satellite television systems, and videodisks. The user creates the new channels by assigning each video source to a UHF channel that is not used in the area and turning a knob. For example, the television antenna or cable is connected and surveillance "Camera 1" is assigned to Channel 20, surveillance "Camera 2" to Channel 25, and the VCR to Channel 30.

THE ULTIMATE PROJECTOR



Elmo Pedestal Projectors are a tribute to user needs rather than abstract engineering. We set out to build the "ultimate projector"...and we did! Thanks to Elmo, the traditional bulky, hot, temperamental theatre projector is gone. 1000W or 2000W Xenon-brilliance delivering up to 5500 lumens of pure white light. It performs flawlessly. Elmo push-button operation makes it simple. Compact design to fit virtually any projection booth.

Look further. Most theatres have their own sound system, but if it breaks down, that's no problem. The Elmo has its own built-in 60W sound system...plus built-in two-track stereo and laser optical sound. *All standard equipment!* Maintenance? Minimal and straightforward. Want to project standard reels with changeover? Sure, it's built-in. Want to show 6000 foot reels...Of course, that's standard too!

Elmo Theatre Projectors have been acclaimed as the "ultimate" by experts. Want proof? Now in use at a highest level Washington D.C. federal facility; by leading professional motion picture labs; in a major motion picture studio; in private homes of two Hollywood superstars; in leading universities, museums, commercial theatres and corporate headquarters.

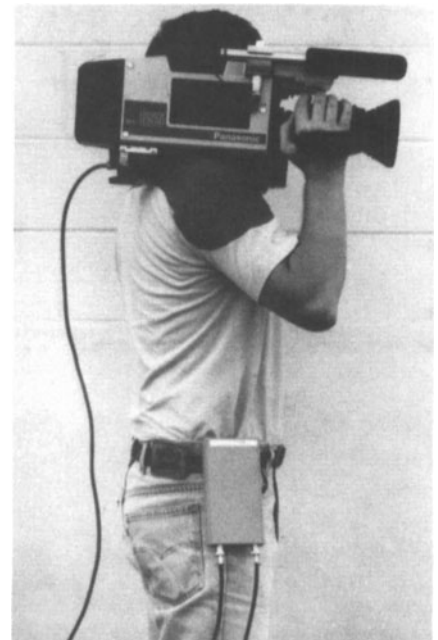
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16mm XENON THEATRE PROJECTORS



QSI Systems PCID-864 camera identifier

A portable camera identifier, **PCID-864**, that automatically identifies the feed from individual cameras has been introduced by QSI Systems, Inc., 12 Linscott Rd., Woburn, MA 01801. The new unit clips to the EJ cameraman's belt and, when plugged into a camera, adds an 8-character ID into the vertical interval of the camera video. The unit is powered by a 9-V alkaline battery that provides at least 32 hr of operation.

The PCID-864 reduces the risk of accidentally airing signals from competitive stations. It can also be used to identify live news feeds from individual helicopters or vans when a station has more than one crew sending to a steerable antenna. The unit instantly labels every EJ camera and VTR in use, saving significant time in identifying signal sources. The PCID-864 is readily

HITACHI INVENTS THE FIRST 1" VTR THAT WATCHES ITSELF SO YOU DON'T HAVE TO.

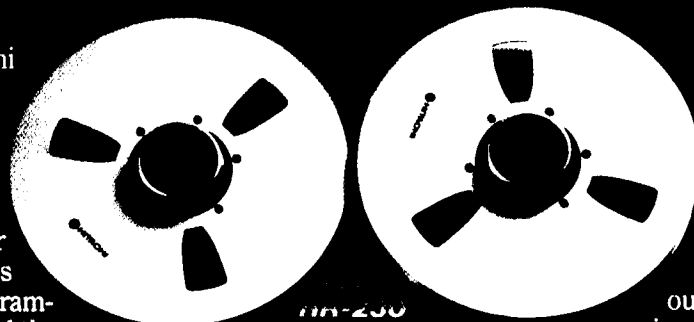
The revolutionary Hitachi HR-230 1" VTR has the most advanced real-time, self-diagnostic capabilities ever perfected.

In either the record or playback mode, a computer inside the HR-230 monitors 49 different performance parameters second by second. And then stores this information within the memory for recall at a later time—not just with numbers and symbols, but in words.

This means no more errors slip by when your operator is not there. And there's no more need for hit-or-miss spot checking.

The Hitachi HR-230 has a unique quick-threading tape path, incorporating retracting entrance and exit guides, main erase head, as well as a scanner air system that protects tapes.

It recues a 30-second segment in 3.5 seconds. It has a



fast/slow motion range that provides real-time reverse and field/frame still motion. Plus programmable time compression up to 20%, with 0.1% accuracy.

A unique, concealed fold-out control panel groups editing functions and separates edit controls from the main control panel.

In short, it's the ultimate 1" for networks, affiliates or teleproduction companies. Don't consider your next 1" purchase without looking into it. Contact Hitachi Denshi America, Ltd., Broadcast and Professional Division, 175 Crossways Park West, Woodbury, NY 11797. (516) 921-7200 or (800) 645-7510. Hitachi Denshi, Ltd. (Canada), 65 Melford Drive, Scarborough, Ontario M1B 2G6. (416) 299-5900.

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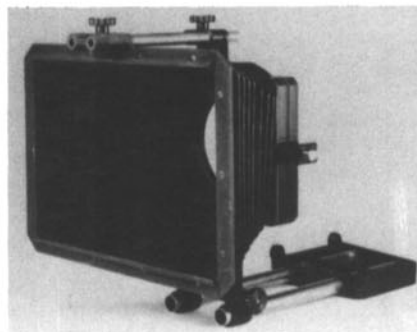


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programmable via DIP switches inside the high-impact plastic case. Character insertion is additive, with no power loss or signal degradation. Measuring 8×4×1½ in. including BNCs and belt clip, the unit weighs 12 oz with battery.

A 9-m dish that meets new FCC 2° satellite spacing requirements has been announced by the Harris Satellite Communications Div., P.O. Box 1700, Melbourne, FL 32901. Among transmit/receive C-band antennas, this 9-m Model 5251 is said to be the smallest antenna the FCC will routinely license for a permanent 24-hour uplink and the largest antenna not requiring environmental impact study or approval.

It offers options such as a variety of receive-only, transmit-receive, and frequency-reuse feeds for all C-band applications and, in addition, features an all-aluminum reflector and a steel king-post pedestal for adjustable positioning toward any visible satellite. In the motorized version, simultaneous drive in azimuth, elevation, and polarization allows satellite switchover between any two domestic satellites at most U.S. locations in 60 sec or less.



Zellan Kingsway matte box

Optiflex®, a lightweight 40-in. fiber-optic "periscope" cable that attaches to camera viewfinder mounts, and gives camera operators creative latitude unknown with fixed-mount eyepieces, was announced by Zellan Enterprises, 250 W. 57th St., New York, NY 10019.

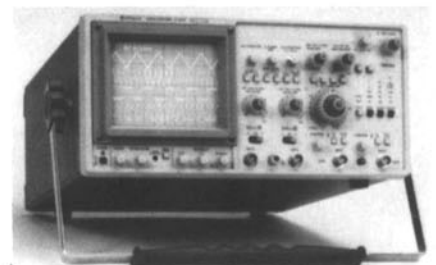
Zellan also announced the Kingsway, a matte box for all cameras. Designed and developed by professionals, the Kingsway provides a streamlined filter application system for 16mm and video cameras. It is light (16 oz) and versatile. It accepts 3×4-in., 3×3-in., 93-ml, and series 9 filters in its "positive lock" filter holder and 4×4-in. filters without a holder. Kingsway fits Aaton, Arriflex 16SR, Sony Betacam, Ikegami HL79, and Hitachi SK91. Support brackets are available for all other video and film cameras.

The MAX-250, an economically priced 250-MHz frequency counter, has been introduced by Global Specialties, 70 Fulton



Global Specialties MAX-250 frequency counter

Terrace, New Haven, CT 06512-1819, a division of Interplex Electronics. The frequency counter provides accuracy to 5 ppm which permits it to be used for laboratory calibration. The MAX-250 has an 8-digit, 7-segment LED readout with a decimal indicating MHz position. Other features include 20 to 320-mV sensitivity range, ±1 count accuracy, switchable 0.1 and 1.0-sec gate times, and switchable input frequency ranges of 5 Hz to 100 MHz and 30 to 250 MHz. The compact instrument is powered with an external wall jack.



Hitachi Denshi V-1070 oscilloscope

The V-1070, an intelligent 100-MHz portable oscilloscope with CRT display and built-in microcomputer was introduced by Hitachi Denshi America, Ltd., 175 Crossways Park W., Woodbury, NY 11797. The V-1070 is a low-cost version of the recently introduced V-1100. Features include full functions of quad channel with independent position controls, 8-trace with alternate sweep, 18-kV 6-in. rectangular CRT, minimum deflection factor 1 mv/div, maximum sweep time 2 nsec/div, TV sync, X-Y operation up to 1 MHz (3° or less), variable hold-off, gate output for A and B sweep, and Ch 1 signal output to 100 MHz (-3 db). The size and weight (22 lb) of the V-1070 make it an ideal scope for field service as well as research and development.

The System, a dual-transport controller/synchronizer that needs only an 18×18-in. space, stands 5-in. tall and weighs about 20 lb, was announced by BTX Corp., 75 Wiggins Ave., Bedford, MA 01730. The built-in keyboard has 40 dedicated function keys and a 10-digit LED time-code display that facilitates autolocation and editing. It features preprogrammed loops with optional preview, preprogrammed or "hot"

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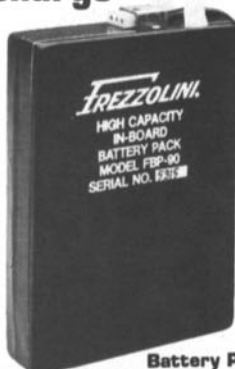
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Switchable-selectable 50/75-ohm measurement capability is now available with the Tektronix 496 and 496P portable, high-performance, VHF/UHF microprocessor-based spectrum analyzers, according to Tektronix, P.O. Box 500, Beaverton, OR 97077. This new capability, called Option 07, provides 75 ohm with dBmV readout or 50 ohm with dBm reference at the push of a button with no need to use adaptors. Calibration is provided so that it is no longer necessary for the user to convert the units or account for external losses in changing from 50 to 75 ohm. Option 07's frequency range of 5 MHz to 1 GHz, and 300-kHz resolution provides optimal measurement capability for all cable and broadcast requirements.

The MU-6200E super beam microphone, from JVC Co. of America, 41 Slater Dr., Elmwood Park, NJ 02407, has a sharp, horizontal directivity seven times greater than conventional shotgun microphones. The sensitivity of the MU-6200E measures 50 mV/Pa at 1 kHz with a frequency response from 50 to 15,000 Hz.

Because the microphone is super-sensitive, it can pick up the subtleties that other microphones cannot, in both studios and remote locations. The microphone features continuous variable directivity and remote control of tone and directivity. The remote control unit and an ac power supply are optional. Sound signals can be sent at line level by the built-in amplifier with 15-dB gain. The microphone weighs 4.1 lb and measures 45 in. wide.



TASCAM Ministudio Porta One

Ministudio Porta One, a portable, battery-operated 4-channel audio mixer/recorder designed for tough field work and convenient operation was announced by TASCAM, 7733 Telegraph Rd., Montebello, CA 90640. Significant features of the Ministudio are the 4-track cassette recorder's standard 1 7/8 in./sec speed allowing playback of standard stereo cassettes, the ability to assign one or all four channels to any track, and switchable dbx noise reduction for wide dynamic range.

AFA

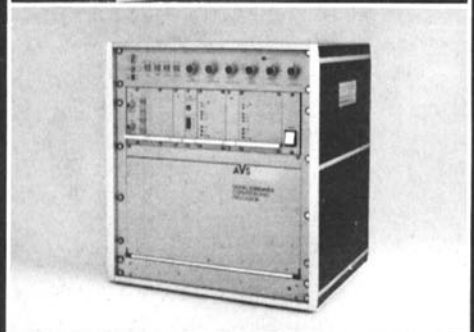
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