

Membership in ATSC is open to business entities with commercial interests in the U.S., which are likely to be affected by the development of advanced television standards, as well as non-profit membership organizations whose members would be affected by such standards.

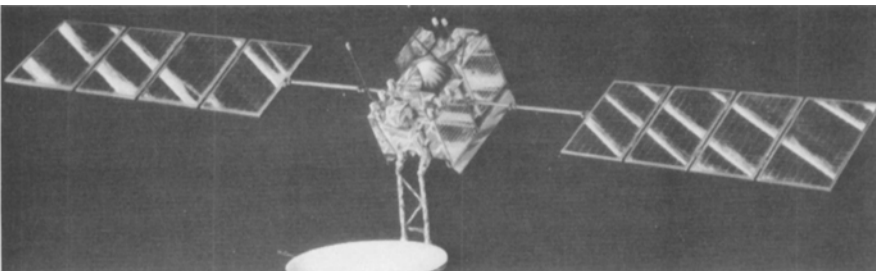
CMX Euroservice is a new office opened by CMX Orrox in Amsterdam to handle sales and service of CMX editing products in Europe, Northern Africa, and the Middle East. The new office is located at Rivierstaete, Post Box 7000, Amsteldijk 166, 1079 LH, Amsterdam, Netherlands.

Earl Johnson has been appointed technical support manager, Europe/Middle East/Africa, with headquarters in the Amsterdam office. He has been with CMX Orrox for five years, and during the last two years he has been directly involved in international operations. David L. Orr will manage the new facility.

The STC Direct Broadcast System (DBS) being developed and built by RCA Astro-Electronics, Princeton, N.J., will consist of four operating and two in-orbit spare satellites. Each satellite will broadcast multiple channels of pay-TV to a designated area within the U.S. The satellite at 105° W longitude will cover the Eastern Service Area (ESA), a satellite at 130° W longitude will cover the Central Service Area (CSA), a satellite at 155° W longitude will cover Mountain Service Area (MSA), and the fourth satellite, at 175° W longitude, will cover the Pacific Service Area (PSA), including Alaska and Hawaii. One spare will serve as a backup for the ESA and CSA spacecraft, and a second will be a spare for the MSA and PSA satellites.

Each satellite will weigh approximately 2750 lb and is capable of being launched into orbit either by the NASA Space Shuttle or by the Ariane launcher. Following a period of in-orbit tests and checkout, TV service will be initiated.

James Kampschroer has joined Excalibur Video Systems Inc., 4015 Wilshire Blvd., Los Angeles, CA 90010, as chief engineer. He was formerly director of engineering for Image Transform, Inc., North Hollywood. In the early 60's, he had been with NASA's space flight operations. In 1965, he moved to Australia where he became head of Television Digital Products for Eilco/Codan Pty. Ltd. in Adelaide, South Australia.



Artist's concept of DBS to be launched in 1986.

SMPTÉ Membership Certificates

It has been the practice to recognize each new member of the Society with a certificate showing the grade of membership, the date joined, and the signatures of the current President and Secretary. Until June, 1982, members who upgraded their status from Student to Associate, or from Associate to Active, did not receive a certificate indicating their new grade.

If membership was transferred before June, 1982, it is now possible to order a certificate from Headquarters showing the current grade. These new certificates will carry the signatures of the current Society officers. When placing an order, the exact name as it is to be inscribed should be indicated, as well as the date of transfer and current grade of membership. Certificates will not be sent to members who already have a current member grade on their certificates.

Lost or misplaced certificates may be replaced by purchasing new ones at a cost of \$2.50.

The first long-distance intercity digital television transmission sent via laser beam over fiber optic cable, on February 10, 1983, marked the inauguration of the AT&T long lines Northeast Corridor Lightwave System. A live press conference was held in New York and Washington with a simultaneous video transmission sent on a pair of the glass fibers. The 372-mile system put into service is part of a 776-mile project that will connect the Boston, New York, Washington, Philadelphia, and Richmond, Va., metropolitan areas by 1984. The new system, designed by Bell Laboratories, will be part of the company's expanding network of digital communications systems that will be installed throughout the country.

Mary Lou Floyd was the coordinator for the television production. Ron Pellecchia was chief engineer for the telecast. Steve Ellis was the New York location engineer. Dan Coulter was the New York producer, and James Messenger was the Washington producer.

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.



Telecine operator checks the display of the Kodak telecine analysis film on the monitor.

A telecine analysis film (TAF) and an Eastman color monitor analyzer have been announced by Eastman Kodak Co., 343 State St., Rochester, NY 14650. TAF is available in 16-mm and 35-mm formats on negative, print, and interpositive emulsions. The films contain an eight-color bar chart and a six-step gray scale. When TAF is aligned in a telecine gate, it displays objective information on a waveform monitor allowing the operator to adjust the telecine for the correct gain, gamma, lift, color balance, and color contrast.

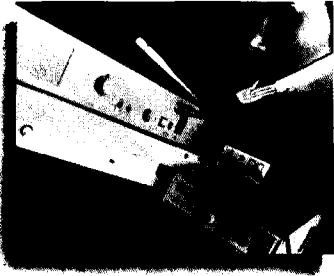


Color monitor analyzer, Eastman Kodak.

The color monitor analyzer is a combination signal generator/light meter designed to provide a fast and easy way for telecine operators to return color monitors used with telecines to a standard display with pre-established color values. The unit displays two calibrated rectangular patches on a monitor screen. One of the patches is 100 IRE, or peak white, and the other is 20 IRE. A sensitive light meter equipped with probe is used to read the relative brightness of both patches.

The Fujicolor high-speed negative film, AX, a high-sensitivity, long-life film available in 35-mm (type 8512) and 16-mm (type 8522) formats, has been announced by Fuji Photo Film U.S.A., Inc., 350 Fifth Ave., New York, NY 10118. The new film has

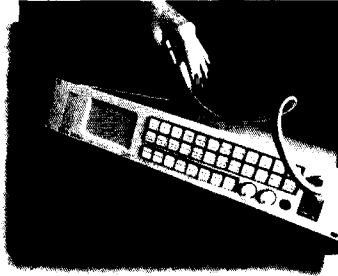
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TW INTERCOM SYSTEM

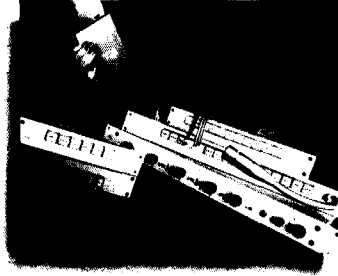
A high performance conference-line communications system featuring over 25 different components and accessories that allow an almost infinite variety of system configurations. It's universally designed for demanding applications in teleproduction and broadcast as well as industrial and commercial installations.

Standard TW features include: up to 75 user stations on line with minimum loading, powerful headphone amplification, carbon/dynamic headset capability, mic-level limiting, and two-channel operation on standard microphone cable. Sophisticated circuitry permits 12-volt power operation, two-, three-, and four-wire line formats, and balanced line operation. A series of versatile options are also available to meet virtually all special requirements.



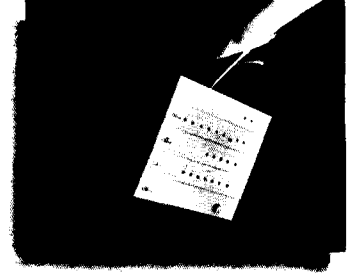
SERIES 800

The 802 Master Station is a unique micro processor-assisted communications network providing 22 independent signal paths operating in up to six modes. It offers an impressive array of features including intercom, squawk, IFB/SA, station iso, and signalling. An intelligent combination of hardware and software program-mability allows the user to conveniently structure an individualized operating format. Since the 802 is completely self-contained, it does not require space-consuming central electronics. Currently used in teleproduction, broadcast, theatre, security, aerospace and other industries, the 802 is both powerful and versatile enough to meet almost every communications requirement.



SERIES 4000 IFB SYSTEM

A one-way communications system created especially to meet the critical requirements of the television broadcast industry. This "program interrupt" system is used primarily to cue on-air talent. It provides program source material to the person on camera that can be interrupted with messages from the producer or director. Its modular building-block design allows the user to configure a system to meet specific requirements. A typical system combines User Stations, Central Electronics, and Control Stations. An essential broadcast tool.



SERIES 400 AMPLIFIERS

Application, performance, and reliability have all been carefully designed into the Series 400. The results: outstanding sound and unique versatility.

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MODEL 414 DISTRIBUTION AMPLIFIER: High performance 1x4 audio D.A. with balanced input and four individually amplified transformer balanced outputs.

MODEL 416 DISTRIBUTION AMPLIFIER: Expanded version of the 414 with six outputs.

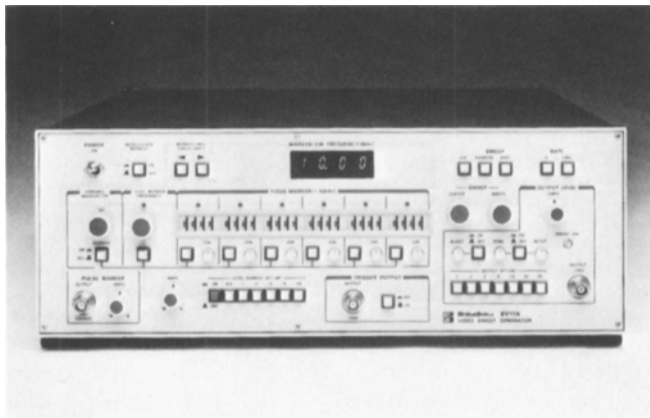
MODEL 444 DUAL TWO-CHANNEL BUFFER AMPLIFIER: Provides the necessary electronic interface between +8dBm balanced and -10dBv unbalanced circuits.

MODEL 465 MICROPHONE PREAMPLIFIER: A single-channel wideband preamp with transformer-balanced input and output.

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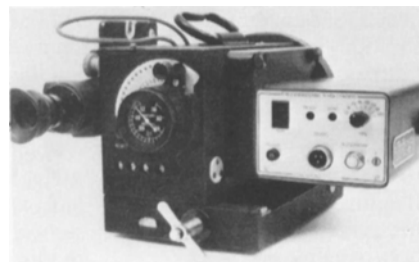
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Fujicolor AX film.

a cyan coupler said to extend color image life. According to an announcement, if recommended storage conditions are maintained (under 68°F, 40–50% relative humidity), the negatives could be printed more than 100 years after processing. The film has an EI of 320 in tungsten and 200 in daylight with a Fuji LBA12 filter or a Kodak Daylight Filter No. 85. If shooting under adverse lighting conditions requires even higher sensitivity, the EI rating can be doubled by forced processing with virtually no change in the color balance.



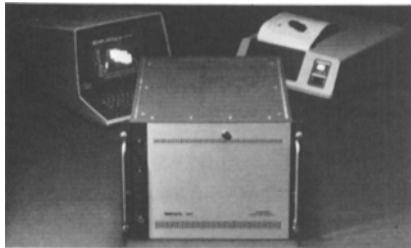
Motor for Mitchell camera, Fries Engineering, Inc.

A new multi-purpose motor for the Mitchell 16-mm Rack-Over camera, Model 120M4, has been announced by Fries Engineering, Inc., 12032 Vose St., North Hollywood, CA 91605. It is a small, modular unit integrating all of the features in one motor that now require several motors. Features include speeds from single-frame through 120 frames/sec high-speed, crystal control at 24 and 25 frames/sec, forward and reverse operation. An accessory connector provides remote-control capability, such as TV sync, strobe triggering, and intervalometers. The motor operates from a standard 28-V dc battery or power supply.

The Hawkeye HR-3 recorder, a portable 1/2-in. videotape recorder featuring a heterodyne color playback of recorded material for review on a monitor in the field, has been announced by RCA, Rt. 38, Bldg. 206-1, Cherry Hill, NJ 08358. The HR-3 recorder also performs video insert edits in the field. It records in RCA's Chroma Trak format, which uses 1/2-in. VHS cassettes. The unit weighs 15.8 lb (without battery) and measures 11.4 × 5.6 × 13 in. The HR-3 has a built-in SMPTE time-code generator and can be used with cameras having component or composite video output. A playback adapter, available as an accessory, produces a standard NTSC

output that can be fed into switchers, character generators, and digital effects systems.

Other features include a built-in RF adapter that converts the recorder's heterodyned signal into an output that can be viewed on a standard NTSC television receiver, allowing a portable TV set to serve as a field monitor. The HR-3 also has search capability.



NTSC video monitoring, Tektronix, Inc.

New NTSC video monitoring software has been introduced by Tektronix, Inc., P.O. Box 1700, Beaverton, OR 97075, to expand the capabilities of its 1980 Automatic Video Measurement Set (ANSWER) (see *Journal*, Feb., 1983, p. 222). The new Option 04 software, when installed in the base item, provides the capability of automatically monitoring a baseband video signal for the standard FCC, NTC-7, and RS-170A measurements, comparing them to user-defined limits and printing alarm messages. Standard reports are automatically printed at times selected by the user. Although Option 04 software is intended for video signal monitoring, it can also be used for proof-of-performance acceptance testing of video equipment, and for studio maintenance.

A microprocessor-based multi-point search-to-cue controller, called the STC-100, has been announced by EECO Inc., 1601 East Chestnut Ave., Santa Ana, CA 92702. Designed for use with the Ampex VPR-1, and VPR-2/2B series video recorders, the device permits remote control of record, normal-speed play, and full-speed bi-directional shuttle. Cue points may be defined by either time-code address or tape time information, and a two-digit number recalls the specific address from memory, allowing the STC-100 to "rapid search" to that cue point.

All cue point information is stored within the STC-100's internal memory, and a battery back-up is provided, allowing data to be retained over long periods without external power. Three modes of operation are provided — manual, still, and slow motion. The 99 cue points can be marked, assigned cue numbers, and searched to in any mode. Manual mode allows the transport control buttons to be used for normal Record/Play/Shuttle operations and provides rapid transmission of a series of pre-defined recorded sequences. Still mode allows up to 99 stills to be recorded in an auto-assemble sequence for rapid access still store. Slow-motion

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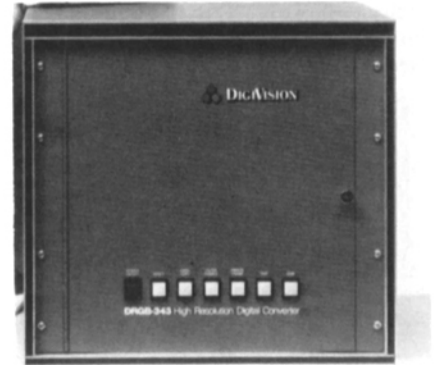
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mode is used in conjunction with an Ampex SMC-60/100 slow-motion controller, and the cues are marked and searched on the STC-100. The slow-motion mode expands the memory of the SMC-60/100 from 1 to 99 auto cue points.



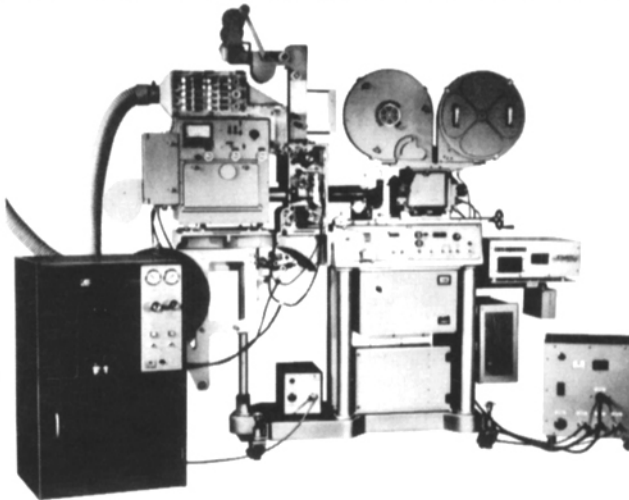
Digital converter, DigiVision, Inc.

A high-resolution digital converter has been announced by DigiVision, 11722 Sorrento Valley Rd., San Diego, CA 92121. Designated the DRGB-343, the instrument is compatible with standard television, and is said to achieve superior picture quality, especially when coupled with a standard television display device capable of 1000 lines of resolution. The DRGB-343 can provide 1024 pixels horizontally and vertically with a noise reduction up to 20 dB. Applications include teleconferencing, video production operations, and special events.

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(Above)
High speed optical picture printer, model DHP-1A with liquid gate & support system

(Below)
Optical sound reduction printer, model SS-5, for 35mm to 16mm or 16mm to S8



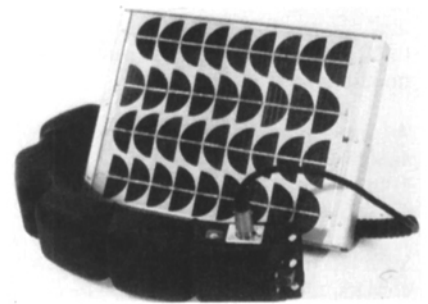
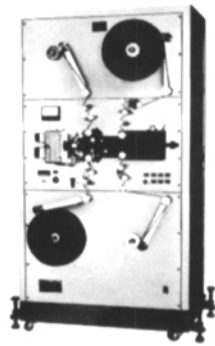
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Solar charger, Portable Energy Products.

Solar chargers that convert light energy to electricity for charging the on-board battery packs and battery belts which power ENG/EFP video cameras, tape recorders, film cameras, and lighting equipment have been announced by Portable Energy Products, 1875 South Pearl St., Denver, CO 80210. Designed for optimum efficiency under varying conditions of sunlight, the portable solar chargers can be used in areas where ac charging is impossible. They are available for NC-4 NiCad plug-in 20-V battery packs for GSMO/CP-16 cameras, and 12-V sealed lead-acid battery belts for video and film cameras. Each solar charger is equipped with a blocking diode to prevent battery discharge during darkness. Designed to charge at the normal rate of a typical slow charger, the solar chargers can be paralleled to increase the rate of charge.

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RAVE REVIEW

Here's what George Kusnir, Head of Sound and Projection for Theatrical Associates, Inc., the engineering arm of the Sameric Theatre Corp., has to say about the use of Norton heads ... "The Norton integral amplifier head assemblies provide unsurpassed quality ... They are more economical in terms of longer head life ... They're quiet in operation with a better signal to noise ratio ... Movie fans appreciate the transparent quality of the 70MM surround sound."

MAGIC COMBINATION

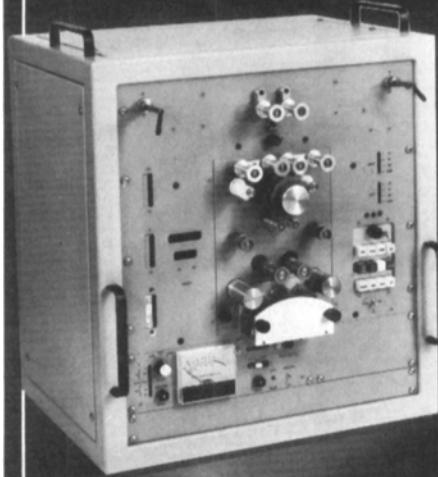
As Lucasfilm Productions' "Return of the Jedi" breaks every box office record with its special brand of space age entertainment, Sameric Theatres and Norton Associates combine to provide the right atmosphere befitting a great movie event. And, just as customers return again and again to see films of this magnitude, so do the Norton heads keep performing reel after reel with the same "unsurpassed quality" of sound.

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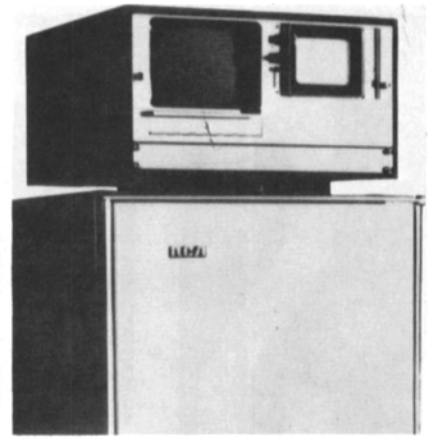
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3 Industrial Ave., Upper Saddle River, N.J. 07458
(201) 327-9400 TELEX 64-2718 MTM USA UPSR



TK-290 telecine camera, RCA.

The TK-290, an automatic telecine camera using hardware and programming advances developed for the TK-47 automatic studio camera, has been announced by RCA Commercial Communications Systems Div., Bldg. 2-7, Camden, NJ 08102. The TK-290 and TK-47 are completely compatible and can use a common setup terminal which can service up to 12 cameras in an installation. The setup terminal, a digital device, serves as the technical control center of the TK-290. It connects to the camera by a cable with twisted pairs and can be disconnected after setup. With the Autocam option on the setup terminal, the TK-290 can be readied for operation at the touch of a single button on the setup terminal. The microprocessor-controlled system automatically adjusts camera control functions, including registration, shading, video levels, and color balance.

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ESC-200 earth station controller

The microprocessor-based ESC-200 earth station controller, designed to provide total earth station antenna system control for accurate, automatic operation, has been announced by Andrew Corp., 10500 W. 153 St., Orland Park, IL 60462. The design is intended to meet the needs of television broadcasters and operators who require antenna flexibility and centralized earth station electronics control. The ESC-200 controls antenna azimuth, elevation, polarization, ground communication equipment, on-line system status, and alarm panel status. Forty antenna positions and 200 events can be programmed for automatic operation.



HOW TO MAKE VIDEO WITH THE LOOK AND FEEL OF FILM

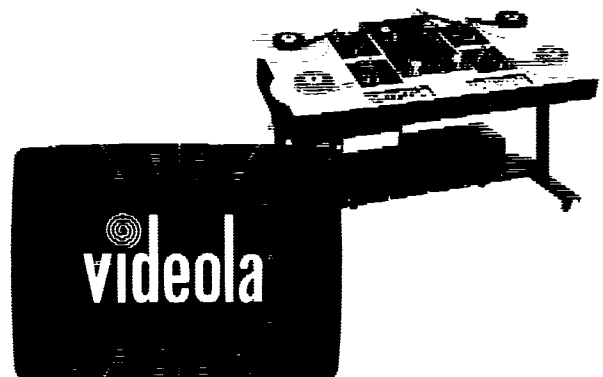
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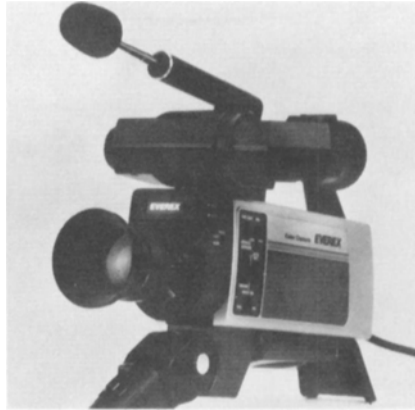
Only Videola offers flickerless, jitterless transfers at any speed from 2 to 150 or 250 fps...without regard for TV synchronization or scanning rate. Only Videola is so elegantly simple that it can be up and running the day it arrives, and can run month after month with zero maintenance.

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Also announced by Andrew Corp. was a new 9.3-m earth station antenna. A computer-optimized Gregorian dual-reflector system provides high gain and closely controlled patterns. The antenna complies with patterns of 2° satellite spacing at both 4 and 6 GHz. The all-aluminum stressed-skin reflector and back structure ensure consistent performance throughout the operating temperature range. The elevation-over-azimuth mount, coupled with a two-speed motor drive system and the ESC-200 controller, can accurately reposition the antenna in 60 sec, or less.



Video camera GP-61M, Hitachi Denshi America, Ltd.

The Video Imagery System (VIS), a pre-recorded series of animated wipes, transitions, mattes, and backgrounds digitally generated by a computer graphics system, has been announced by The Fantastic Animation Machine, Inc., 12 East 46 St., New York, NY 10017. The VIS effects are created in high-contrast black-and-white. When the switcher has been set for a luminance key, images from any video source can be substituted for the VIS black or white signal, including those from colorizers, video cameras, switchers, and vidcotope recorders. VIS Series 1 consists of 30 effects recorded in three speeds. Series 1 on 3/4-in. tape is priced at \$400, and at \$700 on 1-in. tape.

Two new Everex portable color video cameras, the GP-41D and the GP-61M, designed for industrial, medical, and scientific applications, have been announced by Hitachi Denshi America, Ltd., 175 Crossways Park West, Woodbury, NY 11797.

The GP-41D is a compact color camera weighing 4.2 lb. It uses a tri-electrode tube that ensures faithful color reproduction. The camera has an $f/1.6$, 14 to 84-mm 6X power zoom lens and a horizontal resolution of 250 lines.

The GP-61M uses a 2/3-in. Saticon with a single-frequency separation system. Features include an auto/manual iris and

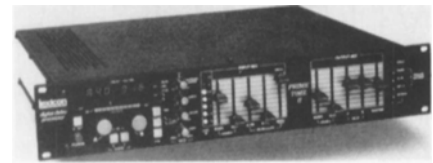
a power zoom used with a standard 6X zoom lens and a 1.5-in. tiltable electronic viewfinder.

A new color monitor, the PCM-519-4, has been announced by Lenco, Inc., 300 North Maryland St., Jackson, MO 63755. The new monitor achieves 650 lines of horizontal resolution using a 19-in. precision-in-line 0.47-mm dot matrix CRT. Features include a switchable pulse-cross and underscan, comb filter, blue gun only, monochrome, two NTSC inputs, RGB inputs, and internal/external sync. The electronics of the PCM-519-4 are interchangeable with its companion 14-in. bridge monitor Model PCM 514-4.



Color monitor, PCM-519-4, Lenco, Inc.

A new digital delay processor, Prime Time II, has been announced by Lexicon, Inc., 60 Turner St., Waltham, MA 02154. It supersedes the original Prime Time while retaining most of the human engineering factors and control format of the original. It has two independently adjustable delay outputs, complete input and output mixing, and a wide array of control and interface capabilities.



Digital delay processor, Lexicon.

In addition, Prime Time II has the latest advances in microprocessor-controlled digital signal processing technology plus low thermal, high-reliability packaging. The unit has long delay capabilities — 1.92 sec, standard, and 7.7 sec with memory option.

Complementing the unit's long delays are Lexicon's DRC (Dynamic Recirculation Control) and metronome features. These allow Prime Time II to be used as a short-term digital audio recorder to create new sound-on-sound layering effects.

The DPS-103 digital processing system has been announced by Digital Video Systems Inc., 716 Gordon Baker Rd., Toronto, Ont., Canada M2H 3B4. The system incorporates a microprocessor sync separator and a sophisticated all-digital time-base correction interpolator to reduce analog

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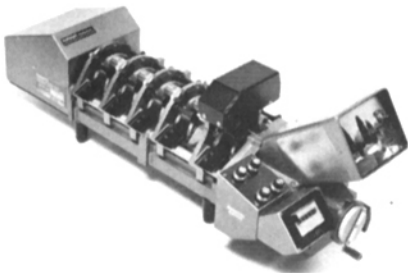
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Digital processing system, Digital Video Systems, Inc.

circuitry to a minimum. With video stored in a buffer memory, the microprocessor examines the position and length of each TV line (phase and frequency) on a line-by-line, look-ahead basis to correct both time-base and velocity errors. Error data is stored, examined, compared with prior and upcoming lines and, only then, applied to the video data for time-base correction in the digital interpolator.



Compeditor editing machine, Acmade International.

The latest model of the 35-mm **Compeditor Editing Machine**, the 710, has been announced by Acmade International, Oakside, Oxford Rd., Uxbridge UB9 4DX, Middlesex, England. The machine has been redesigned to incorporate a new optical system to enable the film to be handled with the emulsion side up. Sound quality has been improved by the use of new magnetic soundheads, together with a small pressure wheel which replaces the earlier plastic pressure pad. An even contact between track and mag head ensures better response while providing the editor with space for marking the track.

The **Model 524 production switcher**, available with either 12 or 20 inputs, has been announced by Ross Video Ltd., P.O. Box 220, 9 Plaza Dr., Iroquois, Ont., Canada K0E 1K0. The 524 features the Ross Multi-Level Effects system, which can manipulate up to four video signals at one time without locking the switcher. The 524 also features the Ross Transition Preview, which allows the operator to see the transition to an effect while the Multi-Level Effects system is on the air, without affecting the on-air signal.



Neve console, 51 series.

The **51 series of audio consoles** has been announced by Neve Electronics International Ltd., Cambridge House, Melbourn, Royston, Herts SG8 6AU, England. The series consists of four distinct types of audio console, each available in different configurations and numbers of input channels and groups. All the consoles are designed for use in either mono or stereo operation and incorporate the Neve Formant Spectrum Equalization. Independent storage on a floppy disk keyed to time code gives a capacity for 999 mixes and enables the merging of parts from different mixes or individual tracks from different mix attempts.

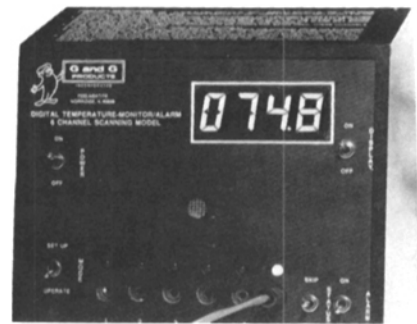
The **SM63L Omnidirectional Dynamic Microphone**, designed for broadcast applications, has been announced by Shure Brothers Inc., 222 Hartrey Ave., Evanston, IL 60204. Intended especially for broadcast journalists, its controlled low-frequency rolloff provides natural sound and voice pickup. Shure's patented mechanical isolation system gives the SM63L unusually low handling noise.

A **dual-truck mobile production system** designed for maneuverability has been announced by Film/Video Equipment Service Co., 1875 South Pearl St., Denver, CO 80210. The system consists of two separate trucks, a self-contained engineering vehicle, and a control room truck.

The two trucks can be separated or can be interconnected. The dual-truck system offers such maneuverability and flexibility that the vehicles can travel almost anywhere a car can go and accomplish the same objectives as an OB van.

The self-contained engineering vehicle contains a small switcher and audio mixer. It carries up to five Sony cameras with Cinema Products Co-Ax digital remote control units, up to four 1-in. VTRs with two studio playback VTRs, and Sony BVU 800 and Panasonic VHF units for simultaneous recording of off-line cassettes with time-code clock in video. The system also contains complete Tektronix and Lenco routing, monitoring, and test equipment.

The control room vehicle has color and black-and-white monitoring with a Grass Valley 12-in./6-bus switcher with quad-split, preset flip/flop and cut bar.



Thermo-Scan, G and G Products.



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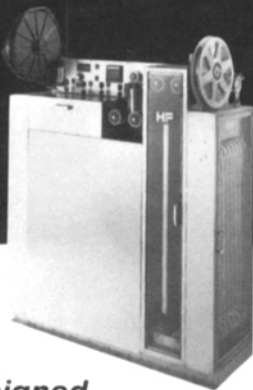
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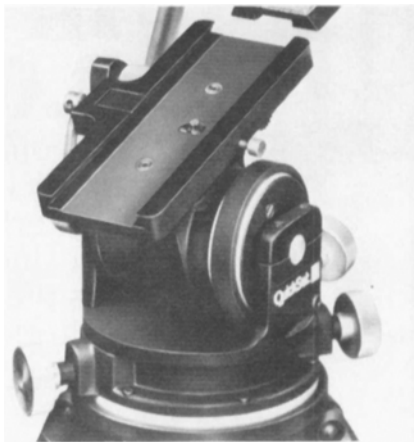
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A temperature control and monitoring system called Thermo-Scan has been announced by G and G Products, 7720 Agatite, Norridge, IL 60656. Designed for photographic processing, the device is available in two models. The first monitors one chemical bath, and the second simultaneously monitors six different solutions. The temperature range is from 70° to 130°F. Each unit is calibrated to zero-degree error at 100°F and a maximum 0.2° tolerance at each end of its operating range. An alarm sounds when selected temperatures vary by $\pm 0.5^\circ\text{F}$. Temperatures are displayed on a $\frac{3}{4}$ -in. LED readout that can be adjusted for brightness.



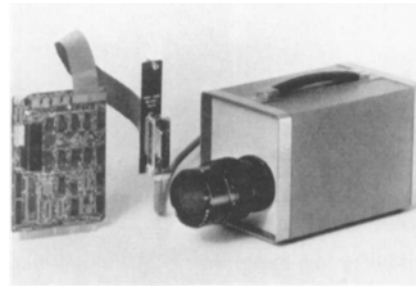
Bilora tripod, Comprehensive Video Supply.

A new Bilora tripod, designed for use with lightweight industrial and consumer video cameras, has been announced by Comprehensive Video Supply Corp., 148 Veterans Drive, Northvale, NJ 07647. The tripod, Model 6144, weighs about 6 lb and features an easy-lock center column. Silicon-greased bearing surfaces are used for both pan and tilt to reduce maintenance problems and provide faster reaction to a rapid pan or tilt.



Super-Hydro fluid head, QuickSet, Inc.

The Super-Hydro fluid head, a professional fluid head with a removable sliding camera mounting plate, has been announced by QuickSet, Inc., 3650 Woodhead Dr., Northbrook, IL 60062. Designed especially for ENG/EFM cameras, it has a capacity of 50 lb. Features include 360° pan rotation and $\pm 80^\circ$ tilt angles. A positive tilt lock is standard. Set for dual hand operation, the second control arm is optional.



Spectroradiometer, Photo Research.

A new spectroradiometer that enables OEMs to design a precision-scanning capability into a larger test system has been announced by Photo Research, a division of Kollmorgen Corp., 3000 North Hollywood Way, Burbank, CA 91505. Available in two versions, the PR-705B and PR-710B, both new scanners offer wide-angle (6°) resolution, and either version can be hooked to a host computer. The PR-710B also has a spot viewing optical head with 0.5° resolution.

The spectroradiometers utilize a multi-element detector that captures the entire spectrum from 390 nm to 730 nm. Each sensor covers 1.3 nm, and the outputs are automatically transformed to 2 nm virtual pixels for display or printout. The spectroradiometers have a sensitivity of less than 0.1 fL for steady-state blue sources; 0.2 fL-sec for pulsed blue sources and 1.0 fL for steady-state white sources with optional high-sensitivity thermo-electrically cooled detector and slit aperture. Various options are available. Prices range from \$10,000 to \$40,000, depending on options.

The MASS (Modular Audio Storage System), designed to assist with line identification in control rooms, switching centers, and at complex outside broadcasts, has been developed by BBC design engineers (British Broadcasting Corp., Broadcasting House, London W1A 1AA, England).

The device can replay repetitive passages of sound, such as line identification messages, or on-air "jingles" without the use of conventional endless-loop magnetic tapes. The audio signal is converted into digital form using 8-bit A-law coding, which provides adequate quality for speech, and some types of musical material. The signal is sampled at either 8 kHz or 16 kHz, depending on the type and length of message to be recorded. Different plug-in cards provide blocks of memory which can store separate messages in various formats. Each channel can be selected individually for recording, and the message can be replayed continuously on a repetitive basis. The digital data for each message is stored in up to 256 bytes of Dynamic Random Access Memory (DRAM).

A mobile outdoor movie theater, produced by Anthony Roland Films, 19 Albany St., London NW1, England, can turn a park or city square into a 400-ft diameter arena



Mobile outdoor movie theater

where more than 3000 people can be shown 16 films simultaneously. Viewers can move from screen to screen because they have portable seats and cordless headsets which pick up the appropriate soundtrack from induction loops (one for each film) buried in the earth or taped to the pavement. Xenon projectors with special lenses are housed in a specially designed 33-ft vehicle which is parked in the center of the viewing area. Waterproof screens, arranged around the vehicle, face the projectors.

Screens, 8 x 6 ft at 175 ft, provide comfortable viewing for 200 people in each position; larger screens placed farther away allow larger audiences. The vehicle also has space for film storage and carries a fully silenced 24-kW three-phase generator. Headsets and seats are transported in a trailer which also serves as a box office.

The NH 214 video animation stand has been announced by Neilson-Hordell Ltd., Central Trading Estate, Staines Middlesex, TW18 4UU England. The stand is fully computerized and is intended for use in TV stations and production companies. The base unit is constructed of a 2 1/2-in. rectangular tube made of welded steel, and a heavy-duty 6-in.-diameter column mounted on one corner to permit extended tracking of long title sequences. TV cameras weighing up to 100 lb can be attached to the column, which has motorized elevation. Automatic follow-focus is available.

A newly designed high-speed video rostrum table provides manual and motorized movements up to real-time speed in the North/South and East/West directions plus rotation. Continuous loop peg bands on the table can also be motorized. All movements have digital counters which can add or subtract in either direction. Computer control is provided for the camera elevation, table movements and rotation, peg bands, lens zoom, iris and focus functions, and if required, black level.



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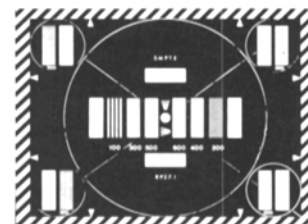
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