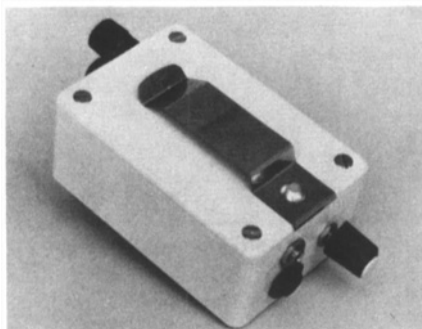


NEW PRODUCTS

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 manufacturer's statements and publication of these items does not constitute endorsement of the products or services.

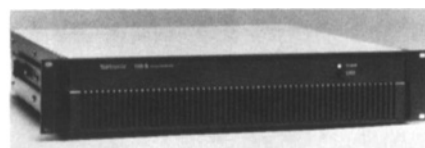


HA-1290 headphone amplifier

The Model HA-1290 headphone amplifier, designed primarily to be used as a personally worn communication headset amplifier, has been announced by Broadcast Technology, Inc., 33 Comac Loop, Ron-

konkoma, NY 11779. The amplifier can also be used as an emergency line driver or isolation amplifier for remote situations where ac power is not available. The unit is self-contained, powered by a replaceable internal 9-V transistor radio battery, and clips to the wearer's belt. It is priced at \$106.

The Proline™ 7000B power amplifier, an improved and updated version of the Model 7000, has been announced by BGW Systems, Inc., 13130 South Yukon Ave., Hawthorne, CA 90250. Features of the improved amplifier include a new chassis design incorporating a separate power supply compartment and improved structural strength, and new electronic short circuit protection. To protect the power supply from failure, the thermostatic switches are wound into the power transformer. The new model also has dc protection so that in the event of amplifier failure, there will be no damage to the loudspeakers.

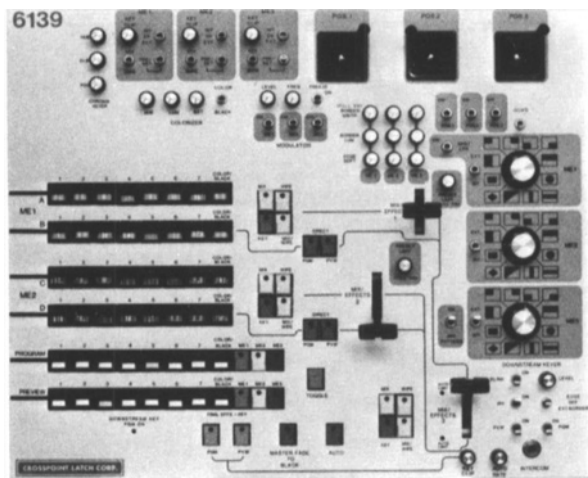


110-S synchronizer

A frame synchronizer, with 10 bits of both resolution and accuracy, has been announced by Tektronix, Inc., P.O. Box 500, Beaverton, OR 97077. Designated the 110-S, it synchronizes the incoming signal with very little degradation to the signal. Operationally, the 110-S digitizes an incoming signal, stores the digital temporarily, and converts the digital signal to an analog signal which is locked to the reference synchronization. The 10-bit architecture introduces negligible quantization error, especially important when the signal will be passed through several frame synchronizers. The 110-S can also track noisy signals such as those that result during a microwave fade. A key element is the memory. The frame synchronizer uses two separate clocks to control "writing to" and "reading from" memory. The "write clock" is gen locked to the program input signal, and the "read clock" is gen locked to an external reference signal.

The RAMSA mixing console, Model WR-8616, designed for the new recording

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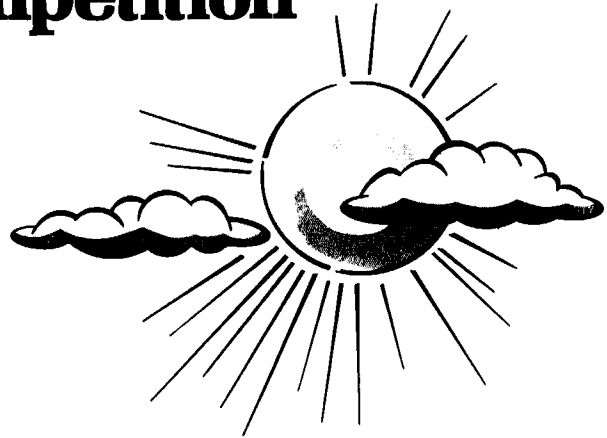
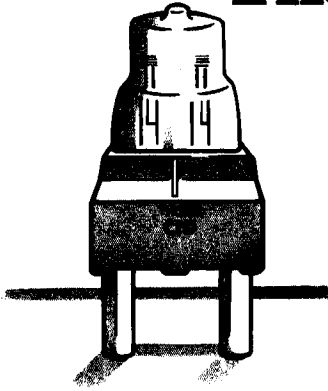
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THORN EMI CID Lighting	The Competition
<p>COLOUR Faithful to daylight (5500K) throughout rated life.</p>	<p>COLOUR The original, but tends to vary. Have you taken the Sun's colour temperature at 8 am or 5.30 pm on a grassy meadow or under some typically British clouds?</p>
<p>RADIATION Only 2% UV emission for safety's sake.</p>	<p>RADIATION Variable emission requiring applied protection or total cover up – shady business.</p>
<p>PORTABILITY Light and compact, they go anywhere. Robust, single ended construction to suit a wide variety of fittings and control gear.</p>	<p>PORTABILITY Did you know the sun has a mass 332,000 times greater than the earth? Try taking that with you on interior locations.</p>
<p>RATED LIFE Depending on the model, THORN EMI CID lamps are rated for between 150 to 1,000 hours – with true colour temperature throughout.</p>	<p>RATED LIFE Millions, maybe billions of years, we know. Can't win 'em all.</p>
<p>RANGE 200W, 500W, 1000W and 2½kw sizes. 1000W PAR 64 sealed beam or 500W PAR 46 sealed beam versions. Standard or hot restrike.</p>	<p>RANGE One model. Take it or leave it.</p>

THORN EMI CID Lamps offer flicker-free operation with a suitable electronic ballast, long life and an efficient, compact, durable single-ended design for easy focussing of optical systems. And the ceramic bi-post base is extremely sturdy. We're convinced they're the most significant development in the lighting industry in years.

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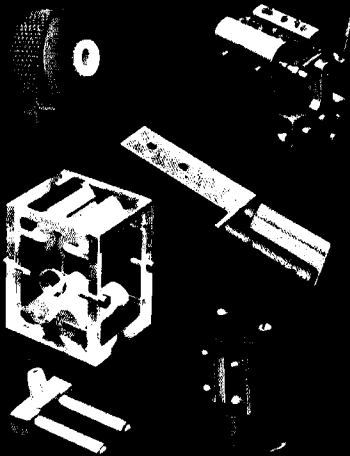
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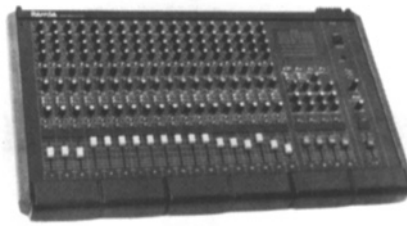
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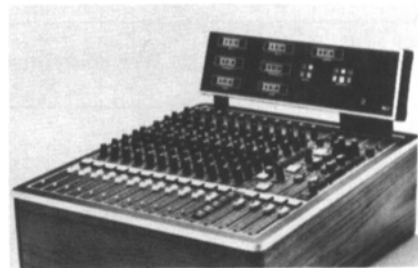
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RAMSA WR8118 console technology, has been announced by the Panasonic Industrial Co. Audio/Video Systems Division. It can be used with either a 4-track or a 16-track recorder. Features of the WR-8616 include flexible operation for varied applications. In addition to 16 electronically balanced microphone inputs, the input modules can also accommodate 16 line-in inputs, and 16 direct line outputs are provided. The mic-in signals may be sent to a 16-track tape recorder, then fed back into the 16 line-in inputs. Thus, the input signals may be mixed using the tape monitor controls in the group modules with no changes in the wiring arrangements.

Also announced was the RAMSA Model WR-8118, a combination sound reinforcement and recording console, that has one versatile panel of controls for two uses — a PA mixer that accommodates up to 18 mic and line signals or, by use of a button, a recording mixer, the tape inputs of which can handle multichannel recording, overdubbing, and mixdown. Both modes are controlled by the same flexible set of controls, including a three-band equalization section on each input covering high, mid-range, and low frequencies.



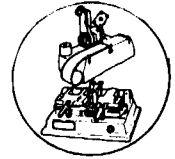
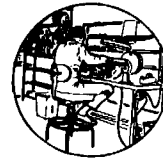
JH-800 mixing console

A portable, 12-input mixing console, designated the JH-800, has been announced by MCI/Sony, a division of Sony Corp. of America, 9 W. 57 St., New York, NY 10019. It is intended mainly for location recording, but it can also be used for video production work, as well as having applications in remote broadcasting. The JH-800 measures 9.5 × 23 × 24 in. Features include dual stereo mix buses; fluorescent bar graph metering; balanced transformerless line and microphone inputs, three-band equalizer on each input, multi-way, and XLX connector; and two built-in stereo compressor/limiters.

Two new audio tape recorders/reproducers, the 2-track, 1/4-in. Model 52, and the 8-track, 1/2-in. Model 58, have been announced by Tascam/Teac Corp., 7733 Telegraph Rd., Montebello, CA 90640. The machines accommodate up to 10 1/2

PREVIEW

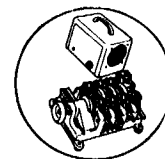
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Model 52 recorder/reproducer
 reels and operate at 15 in./sec. The 52 can also operate at 7.5 in./sec with NAB or IEC EQ. Full sync recording is standard on both machines and there is a choice of optional remote controllers. Features include heavy-duty industrial transports. All three of the series 50 motors — supply, takeup reel, and capstan — support remote controller/synchronizer commands. All transport functions are governed by a microprocessor that detects motion by means of five photo-interrupters. These non-contacting sensors eliminate flutter-causing friction and wear, and continuously inform the computer of the tape direction, speed, tension, and stop or end-of-tape condition. The transport is programmed to protect master tapes. For example, should a remote control be plugged in or unplugged, the transport automatically drops out of record to prevent accidental erasure. A bipolar, 8-output power supply provides ample headroom while isolating logic, motor solenoid and audio functions, and ac power-interruption results in orderly transport shutdown.

Other features include a fluorescent tape counter that displays positive and negative real time. Coarse and fine speed control sliders are provided for Vari-Pitch mode whereby the percentage of speed can be displayed. The Zero search button rapidly moves tape forward or in reverse to exactly 00 min 00 sec, and the single point Search-to-Cue is also included.



1910 digital test signal generator

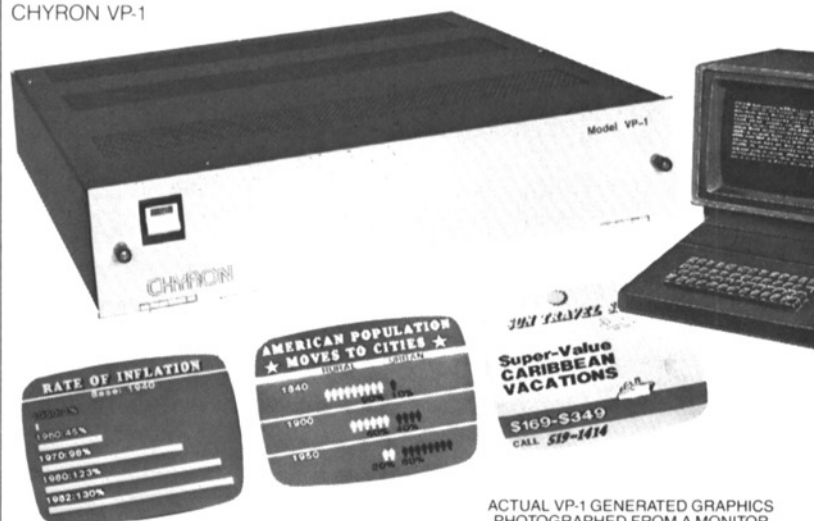
The 1910 digital test signal generator and VITS inserter has been announced by Tektronix, Inc., P.O. Box 500, Beaverton, OR 97077. The 1910 has 10-bit word and digital signal generation. When rack-mounted it measures 88 × 486 × 525 mm. With four external VITS inputs, the new digital generator allows access to the vertical interval which facilitates the insertion of teletext, closed captioning, source ID, and other signals. Since the 1910 has a nonvolatile memory, the VITS program is not lost if there is a power failure.

SMPTE Journal, June 1983

CHYRON AT CAMERA MART:

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CHYRON VP-1



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Chyron VP-1 Character Generator: Astounding Capability at an Affordable Price.

The Chyron VP-1 is a broadcast quality generator that gives you superb image resolution: crisp, clear characters and an extraordinary range of special effects usually found in units costing far more.

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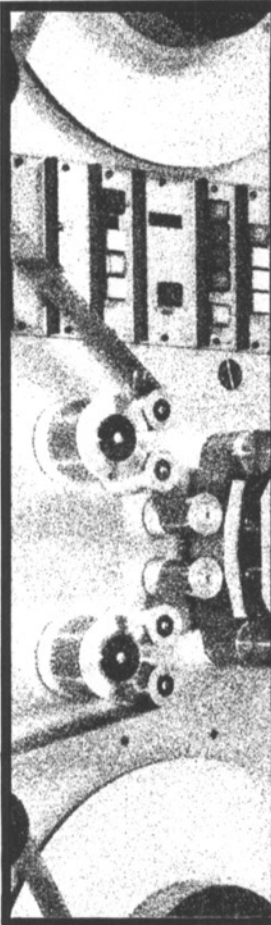
tations and educational aids.

You get two fonts supplied, expandable to six; eight colors from a palette of 64, for characters background and edging, plus extensive common capability, including font selection, color selection, placement, spacing, italics and many, many more!

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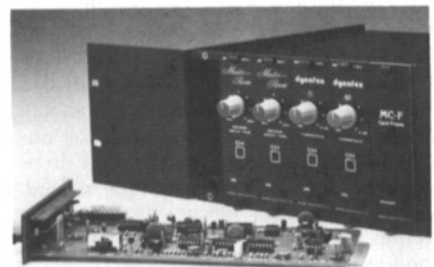
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Signal source 1206A

Signal Source 1206A, an updated version of the 1206 that provides additional features for television display performance analysis, has been announced by Visual Information Institute, Inc., P.O. Box 33, 719 Lower Bellbrook Road, Xenia, OH 45385. The new signal source provides a complete selection of TV display test patterns plus many new features including clocked vertical pulse widths (thumbwheel selectable), Bounce in conjunction with Bars for evaluation of high voltage capability, Split or Full Centering pattern, and front panel adjustment of Sync and Blanking levels. The instrument is housed in a cabinet convenient for laboratory bench use.



MC series modular processing system

The MC-Series modular audio processing system has been announced by MICMIX Audio Products, Inc., 2995 Ladybird Lane, Dallas, TX 75220. Including in the series is a 5 1/2-in. rack-mount card frame as well as two signal processing devices, the MC 101 and the MC 201. The card frame can accept up to five individual modules and has a non-powered space for storing an extra module. It is powered by a low-noise toroidal transformer that allows all powered modules to drive 600 ohms.

The MC 101 is a single channel of Dynafex noise reduction said to provide up to 30 dB or more of noise reduction without encoding or decoding. It includes a threshold control for noise reduction, a hard-wired in/out switch, and a switch to set the appropriate signal reference level from -10, 0, +4 or +8 dB, allowing interface with consumer, sound reinforcement, recording studio, or broadcast equipment.

The Master-Room MC 201 is a reverb-ation product, allowing the user to vary the decay time of virtually any reverb device while also providing up to 30 dB of noise reduction. It operates before the reverb return function of any console and allow the user to shorten the decay time up to 75 percent.

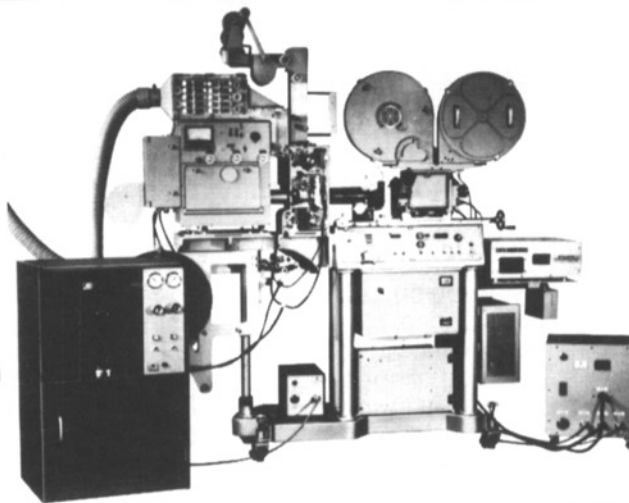
Reliable and High Quality Printers!

(Above)

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

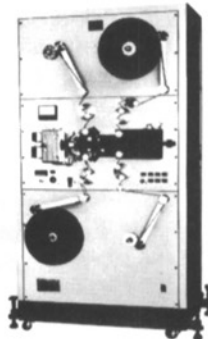
(Below)

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



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A new modular crystal control for the Bauer S715-XL microcomputer camera has been announced by Super 8 Sound, 95 Harvey St., Cambridge, MA 02140. The crystal control enables the camera to run at a filming speed of precisely 24 frames/sec, allowing it to be in sync with any other piece of equipment that also has a crystal control. Crystal sync uses neither cables nor a remote transmitting device. The Bauer crystal compares the running speed of the camera to a precise quartz oscillation inside the crystal. If the camera is running slower or faster than the quartz, the crystal device can instantaneously speed up or slow down the camera to run at exactly 24 frames/sec.



Autocue 2000 display system

The Autocue 2000, a digital prompting and script display system, has been announced by Autocue Products Ltd., Autocue House, 265 Merton Rd., London SW18 5JS, England. The device functions as a memory and analysis center in broadcasting environments. It collates and stores script information from single and multiple inputs and relays material to the camera prompters in any sequence.

The 810 Wordbox is for on-site electronic news gathering. The unit fits onto the camera just above the lens and helps the reporter remember names and key facts that have been handwritten on the display.

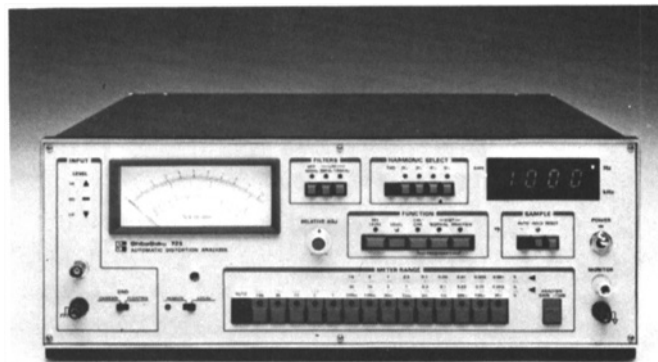


Instruction system, Scicon Computer Services Ltd.

A video-based training system called CAVIS (Computer Audio Visual Instruction System) has been announced by Scicon Computer Services Ltd., Brick Close, Kiln Farm, Milton Keynes MK11 3EJ, England. The system allows a teacher

SMPTE Journal, June 1983

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ASACA/SHIBASOKU 725 Automatic Distortion Analyzer

This versatile instrument works both as a distortion analyzer and as a high performance distortion meter. You can use it to measure distortion ratios as low as .0001% (-120 dB) and analyze the 2nd to 5th harmonic distortion.

The 725 extracts only the harmonic components from various measured signals, including noise. By obtaining fundamental frequency rejection characteristics of more than 120 dB, it measures the small distortion which noise usually covers.

Input level adjustment, selection of measuring range and tuning of measured frequency are all automatic. The 725 connects to a general purpose interface bus (IEEE-488) and may be expanded into a fully automated instrumentation system.

- Harmonic analysis circuit measures 2nd to 5th harmonic distortion, including THD.
- Wide band distortion ratio measurement (5 Hz-110 kHz fundamental wave frequency).
- Distortion meter has 5 Hz-500 kHz frequency range and 30 uV (-90 dB) full scale.
- All functions are remote controlled.

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without any knowledge of computer programming to mix video pictures, audio, text, and diagrams on a color TV screen. It enables a student to pace his learning by interacting with the pictures and text by use of a simple keypad.

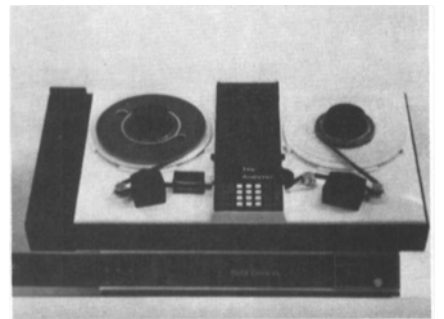
The system comprises a microcomputer control, a VHS video recorder, an alphanumeric editing keyboard for the teacher, a black-and-white screen printer, a student keypad, color monitor, and headphones. Instructional programs called CourseWare are stored on videocassettes and floppy disks.

Optional equipment includes a page-size image printer, color image printer, TV picture videotex transfer unit, color TV camera, blank CourseWare packs, and telecine transfer unit.



Video distribution amplifier, Link Electronics Ltd.

A video distribution amplifier has been announced by Link Electronics Ltd., North Way, Andover, Hampshire SP10 5AJ, England. Designated Type 280, it is contained in a single module containing a transformer, power supply, and active circuits. The unit is a universal pulse and video distribution amplifier with a balanced input that can be used for cable equalization. As many as 4-V pulses or video can be handled without adjustment. Type 280 is individually powered from ac and is stabilized against variations. It allows multipurpose use and offers balanced input for rejection of unwanted common mode signals. It is 3 1/2-in. high.



Minicertifier, Data Devices International

The Minicertifier, a magnetic computer tape machine that enables users to identify any tape defect and, in most cases, to correct the defect, has been announced by Data Devices International, 20235 Baha-ma St., Chatsworth, CA 91311. The machine identifies the defect, then stops and places it in a microscope repair station, permitting repair.

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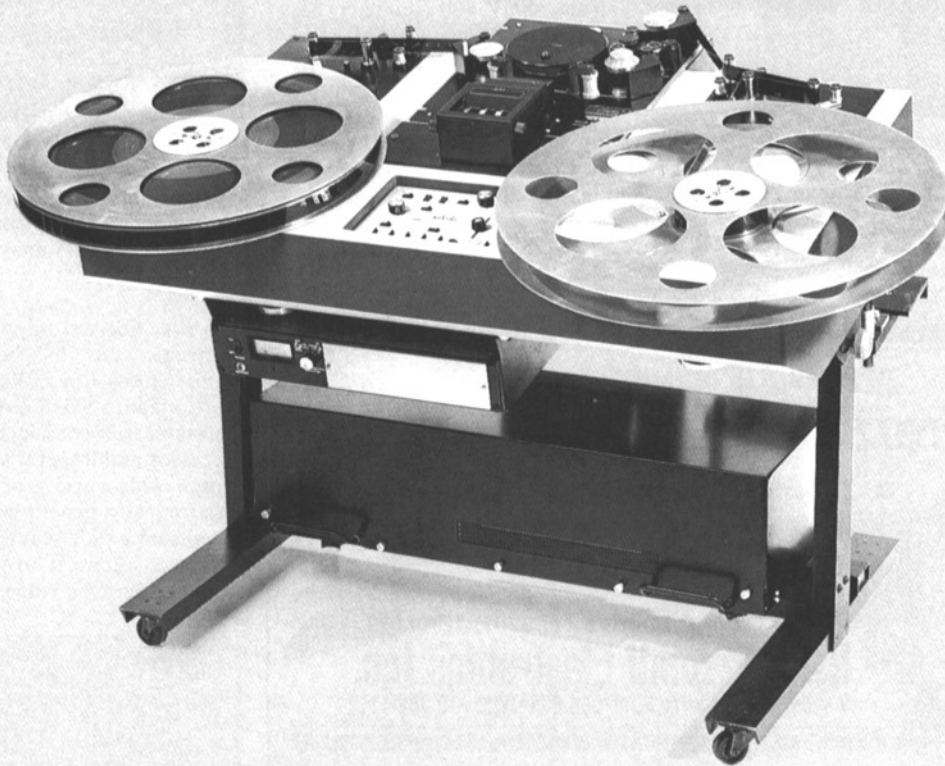
Function (check one):

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 Eng/technical staff Production/operations mgmt or staff
 News mgmt or staff Other (specify) _____

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INTRODUCING THE VIDEOLA® V-500 . . . for broadcast-quality Film/Video Synthesis™ in a new, compact form.

Offering all of the quality and convenience features of the widely-accepted V-1000, this new model is for applications which don't require sep-mag facilities, but do need the capacity for films up to 6,000 feet in length.

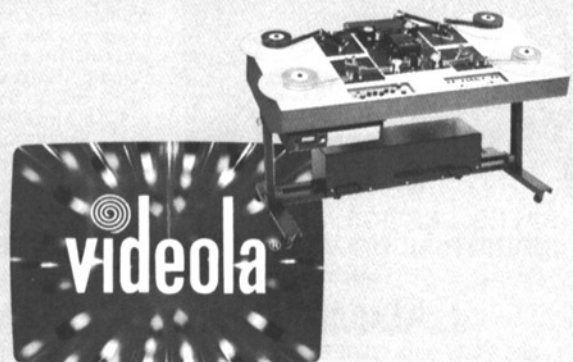
Built around the unique Flickerless Prism® optical system, Videola produces superb images with no sign of flicker, jitter or frame lines . . . at any frame rate. Because the Videola optics merge adjacent frames into a continuously-moving image, TV synchronization is no longer a consideration. Video transfers can be made at crystal-controlled sound speed or at any speed forward or reverse up to 6x (35mm) or 10x (16mm) sound.

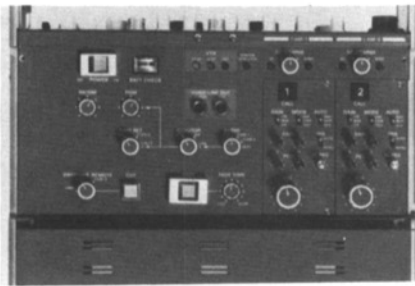
Video output will stay state-of-the art for years to come, because the Videola optics deliver their

image to the pickup tube of a high-quality ENG/EFP camera . . . readily exchanged for a future high-resolution model.

Please write or call for full information on the V-500 and V-1000, and for the names of happy Videola users. In the east, contact Laumic Co. Inc., New York.

Magnasync/Moviola Corporation, A Subsidiary of Craig Corporation, 5539 Riverton Avenue, North Hollywood, CA. (213) 763-8441. Cable: MAGNASYNC. Telex: 67-3199 MAGNA/MOVIO.



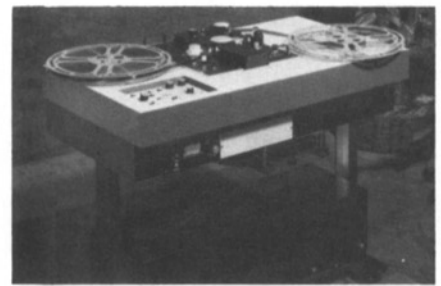


ASW-50 portable production system

The ASW-50 portable production system has been announced by Asaca/Shibasaku Corp. of America, 12509 Beatrice St., Los Angeles, CA 90066. The device weighs 10

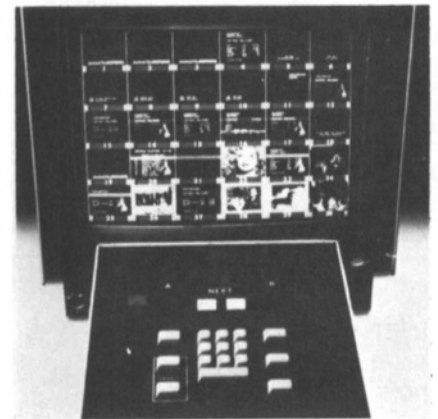
lb and is said to provide complete mobility for a two-camera shot. It has automatic sync and phase controls and CCUs for two cameras as well as controls for a VTR. The system can operate on 12 V dc.

A new Videola, the V-400 Compact, has been announced by Magnasync/Moviola Corp., 5539 Riverton Ave., North Hollywood, CA 91603. The device is a film-to-video transfer system for composite-sound 16-mm films up to 3000 ft in length. A two-unit installation occupies 14 ft² of space and is said to offer certain advantages over projector-type film chains. The units are offered in pairs, as well as singly,



Videola V-400, Magnasync/Moviola with independent video outputs, allowing clean switching between reels. Virtually silent in operation, the V-400 delivers Flickerless Prism® image quality with no flicker or jitter.

The Slide File, a storage system for digital electronic stills, has been developed by Rank Cintel Ltd., Watton Rd., Ware, Hertfordshire SG12 0AE, England. It is a portable, self-contained unit with its own processor and integral storage. It can accept a wide variety of input, including electronically generated artwork or pictures from a slide scanner. A built-in synchronizer allows it to take frames from studio cameras or videotape recorders.



Slide File, Rank Cintel

The system is said to be the first of its type to use portable streaming cartridges (each storing up to 20 pictures) to provide backup or long-term storage. The cartridges allow pictures to be transferred from one machine to another. For example, stills for programs can be produced centrally, put on a cartridge, taken to the appropriate control room and loaded into another file for use in a particular program. Other inputs can be added to the storage file. Reportedly, the cartridges are less susceptible to damage and easier to store than disks.

Pictures originated by studio or electronic news gathering cameras can be electronically enhanced by interfield interpolation. Any movement introduced by the camera or the subject is removed from the still.

The AAS-100, a sound-delay device with a built-in digital memory to compensate for the differences between the video and the audio in a television program, has been

SMPTE Journal, June 1983



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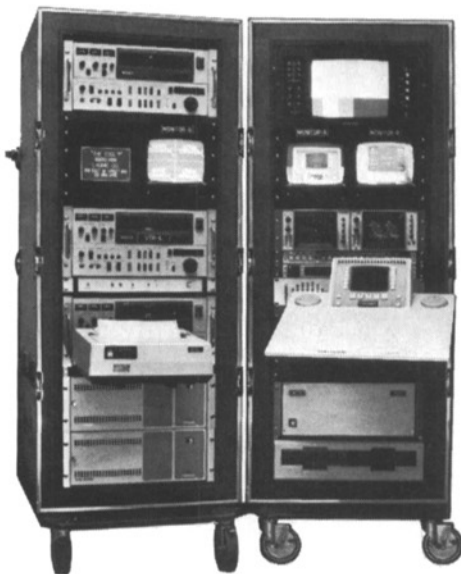


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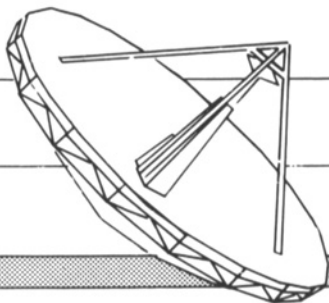
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You will play a major part in design, specification and implementation of television broadcast systems to be incorporated into STC's Broadcast Center complex. This will include extensive and advanced automated program facilities, editing facilities, and program production facilities. You will also be involved in equipment evaluation and selection as well as participating in development of emerging technologies in teletext and high definition television.

Requires BSEE and minimum 5 years broadcast project experience, including familiarity with state-of-the-art broadcast video equipment and technical standards. Design, testing and implementation of complex video systems using latest construction techniques also required.

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You will assist in test and evaluation of DBS home receivers; participate in vendor discussions/evaluation to finalize design and establish price and delivery schedules; and assist in design and specification of the transmitting and receiving equipment for the STC Ground Complex Earth Station.

Requires BSEE and minimum 3-5 years in microwave design of transmitters and receivers, including knowledge of television transmission engineering. Knowledge of satellite earth station microwave systems also required.

SENIOR TELEVISION SYSTEM ENGINEER

This key position in the engineering group is responsible for advanced television system technologies including R&D in video-signal processing and high definition/enhanced definition television (HDTV/EDTV). You will also participate in high definition television transmission experiments through satellites.

Requires a record of accomplishment in digital and/or analog TV signal processing as well as BSEE (MSEE preferred) and 5 years of experience in television signal processing. Experience in prototype development desirable.

SENIOR DIGITAL ENGINEER

You will provide analog and digital engineering support for the STC LSI descrambler module development, and assist in the technical aspects of LSI design and production. You will supervise design and production of STC encryptors for the Broadcast Center; product improvement projects.

Requires BSEE and knowledge of circuit design, D/A and A/D converters, LSI design and digital telecommunications and video techniques. Also requires 4-7 years of experience with design and production of digital circuits and LSI implementation.

In addition to the opportunities shown here, we have many other satellite engineering positions available.

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