



Barry Spitzer



Bill Katz

Bill Katz has been named Colorist for TVC Video in its film-to-tape department. One of the pioneers in handling film-to-tape transfers, he was at Teletronics in the early days of this technique. During his years with Teletronics he was in charge of feature film work. He has transferred over 400 feature films to tape and has been involved with related scene-by-scene color correction.

TVC Video is located at 225 E. 43 St., New York, NY 10017. The two-story complex features all format duplication and has an insert studio, viewing and screening facilities, and such pre-editorial services as time base correction, noise reduction, image enhancement, freeze field or frame, luminance/chrominance delay correction, and time coding.

Shure Electronics of Illinois (SEI) is a newly formed division of Shure Brothers, Inc. It will be involved in the manufacturing and marketing of communication microphone products including mobile and base station microphones and circuitry products. Manufacturing facilities for SEI will be located in Wheeling, Ill. Marketing and Engineering Departments will be located at Shure headquarters, 222 Hartrey Ave., Evanston, IL 60204.

A magnetic film transport unit and a digital analyzer are used at Eastman Kodak Co. in Rochester to evaluate a special magnetic coating developed for use with motion-picture film. The new Kodak Datakode magnetic control surface is expected to cut post-production costs in the television and motion-picture industries to a significant degree. It records digital data much like magnetic tape recording, letting filmmakers link motion-picture film with computer-automated post-production equipment. David S. Hoadley is shown operating the magnetic film transport and a digital analyzer evaluating the Datakode magnetic control surface for motion-picture film.



SMPTE Journal, March 1983

## 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.

An all solid state, color closed circuit television has been announced by Cohu, Inc., Electronics Div., P.O. Box 85623, San Diego, CA 92138. Designated Model 1610,

it consists of a small camera head and a compact control unit. Features include an MOS image sensor said to be energy efficient, to provide good resolution, and to maintain vivid color independent of scene luminance. The 1610 has balanced spectral response and no geometric distortion or lag.

A television switcher/special effects generator for remote and studio production has been announced by ECHOLab, Inc., 175 Bedford Rd., Burlington, MA 01803. Called the SF/3 production switcher, it is a self-contained, computer-based video switcher with computer control of all

LaVeZZi's reputation for precision components has been unmatched in the film industry since we first manufactured sprockets for cinema projectors in 1908. Our component designs have contributed to improvements in film presentation and reductions in film maintenance. The quality has improved equipment reliability.

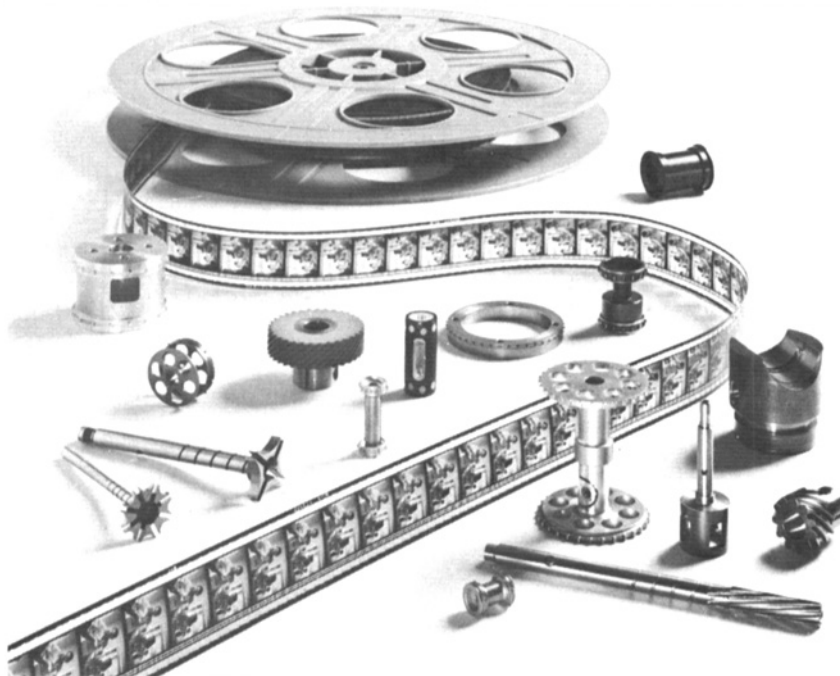
Equally important to the film industry, LaVeZZi gears, shafts, cams, clutches, eccentrics and other components are contributing to the reliability of camera operations. In the control of film in projectors and cameras, in film processing operations, and in tape transfer systems. These parts are manufactured by people who can machine complex designs to strict specifications, and who care about

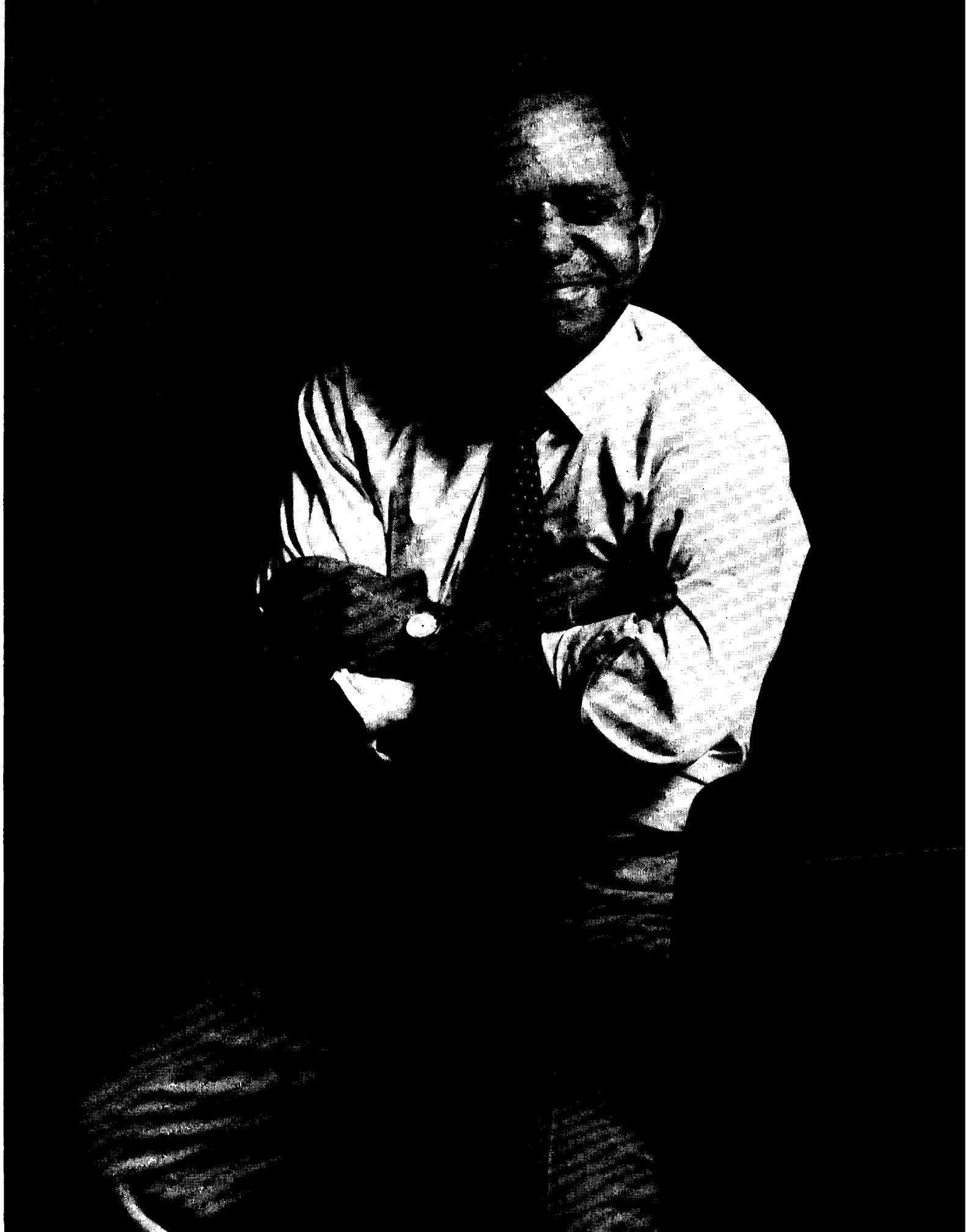
quality. It's the LaVeZZi way of doing a job!

Our customers take pride in their LaVeZZi machined components. They know it contributes to equipment reliability. When you need quality components, ask for "Precision Machining Capabilities" and see how LaVeZZi Close Tolerance Components can improve your equipment reliability.

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## Precision machined components for cameras, projectors, film and tape processing equipment.





# LOMITA



*"Give them what they want, and show it under optimum conditions."*

*Solomon Lomita is vice president, post production, of United Artists Corporation Motion Picture Productions in Culver City. He is a member of the Intersociety Committee, and has acted in two of Woody Allen's films.*

"I really enjoy my role as an extension of the creative entity — making sure that what was created is presented properly in the theatre and protecting films so they will look great 30 or 40 years from now.

"Everything must be functioning properly to make movies the most imaginative, larger-than-life entertainment experience available. I'm not talking about just size of the screen. The new, smaller cinemas are fine if the ratio of distance to screen is right. More important than screen or theatre size is theatre environment. If you give audiences an environment that is special, they will feel special. If you show a 70 mm print featuring sound in all 5 channels with low-frequency enhancement, it will blow anyone's mind!

"I'm very encouraged about what the Intersociety Committee and Eastman Kodak Company are doing to improve the theatrical film experience. The committee is comprised of key representatives of the Motion Picture Association of America, the National Association of Theatre Owners, the Society of Motion Picture and Television Engineers, the Theatre Equipment Association, and the Association of Cinema Video Laboratories. We meet regularly. Recently, we've been working together to educate exhibitors on what sound is — the sound sys-

tems available, their differences, and what can be done to improve sound in the theatre. We're also campaigning for the best projection. The industry chooses its film stock as if film productions were paintings; a motion picture is, in fact, a moving painting. But how can you show that painting with no light? Everyone knows that if you go to a museum and the lighting is not right, all the subtlety is gone. It's the same thing on the motion picture screen. We have a set amount of light which is standard. Everything throughout the whole process is based on this. Yet we've gone into theatres where screen brightness is only four footlamberts. We've actually demanded a change in theatres for screenings, just to get adequate light on the screen.

"You also find theatres showing scratched or otherwise ruined prints. We've had 70 mm prints ruined by projectors after one week. That's a \$7,000 or \$8,000 investment gone, just because of improper maintenance. We've started tracing film from the time it leaves the lab until it reaches the theatre. No one thought about shipping damage from rain. So we developed a new type of wrapper and changed the container design. We also discovered that film was being damaged in the projection room by the way reels are separated, or by being near dirty ashtrays. We found that using regular tap water in a humidifier to reduce film brittleness can be harmful. The metallic content in tap water is corrosive. Even projectionists with ragged sweaters can ruin a film! All those loose threads. It's not that people don't care. They just don't have enough information. The Intersociety Committee put all of this in a paper, and it has helped improve projec-

tion room operations.

"A bad movie hurts our business. If people pay to see a bad movie, they feel ripped off. The summer of 1982 has proven that we have people who like to go to movies. There is no limit to our audiences. Give them what they want, and show it under optimum conditions, and they will go and go and go. They can't experience that at home. There's just nothing like a darkened theatre, a good presentation, and a one-to-one experience — a movie that lets someone feel special when he or she walks out of the theatre.

"Movies are not in competition with TV, cable, video cassettes, and the like. As long as exhibitors fulfill their role and give a good presentation, the moviegoers will be loyal customers."

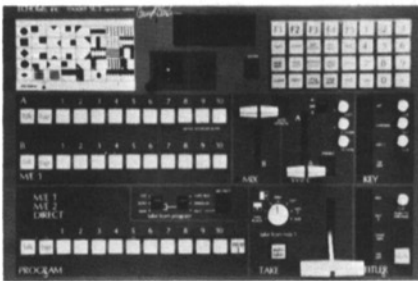
*If you would like to receive our bimonthly publication about filmmakers, KODAK Professional Forum magazine, write Eastman Kodak Company, Dept. 640, 343 State Street, Rochester, NY 14650.*

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**EASTMAN KODAK COMPANY**  
MOTION PICTURE AND AUDIOVISUAL MARKETS DIVISION  
ATLANTA: 404/351-6510  
CHICAGO: 312/654-5300  
DALLAS: 214/351-3221  
HOLLYWOOD: 213/464-6131  
NEW YORK: 212/930-7500  
ROCHESTER: 716/254-1300  
SAN FRANCISCO: 415/928-1300  
WASH., D.C.: 703/558-9220



**Eastman film.  
It's looking better  
all the time.**



SE/3 production switcher, ECHOLab.

switching and specific effects functions. Front-panel programmability allows the operator to store and replay frequently used sequences. The SE/3 employs a con-

trol panel measuring  $19 \times 12\frac{1}{2} \times 2$  in. for easy installation in remote vans with electronics housed in a  $19 \times 5\frac{1}{4} \times 12$ -in. chassis. The system can be interfaced with a variety of editing devices. Options include a chroma keyer, MagicMask, and a full remote control editing interface. Prices start at \$14,000.

Three new high-voltage Quartzline® tungsten-halogen lamps for motion picture and television production and theater stage lighting have been announced by General Electric, Nela Park, Cleveland, OH 44112. Designated CYP, FEP, and FEX, all three types are available in both 220-V and



GE Quartzline tungsten-halogen lamps.

240-V designs. The 2000-W CYP lamp is designed for high brightness and efficient light utilization in typical Fresnel-lens spotlights. Rated at 54,000 lumens initially and 400 hours average life, the CYP lamp is designed for base down to horizontal operation.

The FEP and FEX lamps are primarily for use in adjustable reflector-type spotlights and floodlights. The 1000-W FEP single-ended light is rated at 300 hours average life and 26,500 average initial lumens. The 2000-W FEX lamp is of double ended construction. Both the 220-V and 240-V designs are rated at 50,000 average initial lumens and 500 hours rated average life.

## How to make "imperfect" film-to-tape transfers.

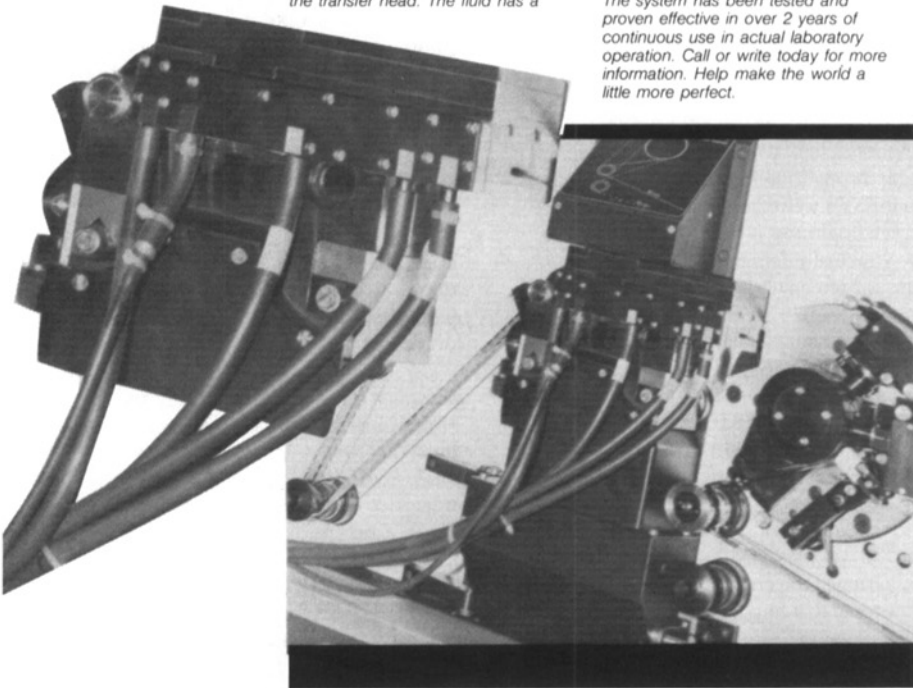
Perfection isn't always good. Consider the almost perfect film-to-tape transfers you can make with today's modern equipment. Every scratch, nick, and imperfection on the negative is perfectly reproduced on the tape.

The Geyer/Peterson Video Immersion System eliminates nicks and scratches from old or mishandled negatives. The unit functions by passing the negative through in a special fluid contained in the transfer head. The fluid has a

refractive index similar to that of film, which makes the tape "blind" to any scratches or other imperfections in the film. You get scratch free video tapes plus enhanced picture sharpness and improved picture steadiness. The negative is completely dry when it exits the transfer head.

The unit installs in minutes on your Rank Cintel MK III Telecine and is available in 16mm and 35mm models. The system has been tested and proven effective in over 2 years of continuous use in actual laboratory operation. Call or write today for more information. Help make the world a little more perfect.

**Geyer/Peterson™**  
Video Immersion System

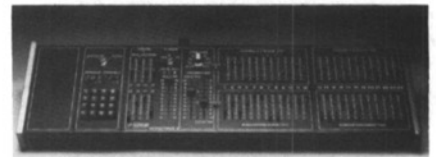


## Peterson Enterprises, Inc.

Manufacturers of  
Motion Picture Printers  
and Accessories

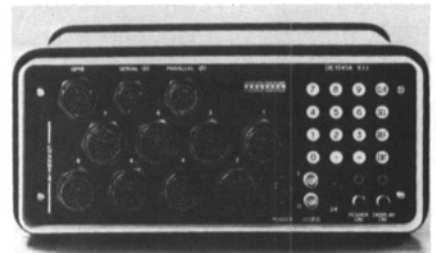
1840 Pickwick Avenue  
Glenview, Illinois 60025  
312-729-1010  
312-273-2422  
Telex 29-9438

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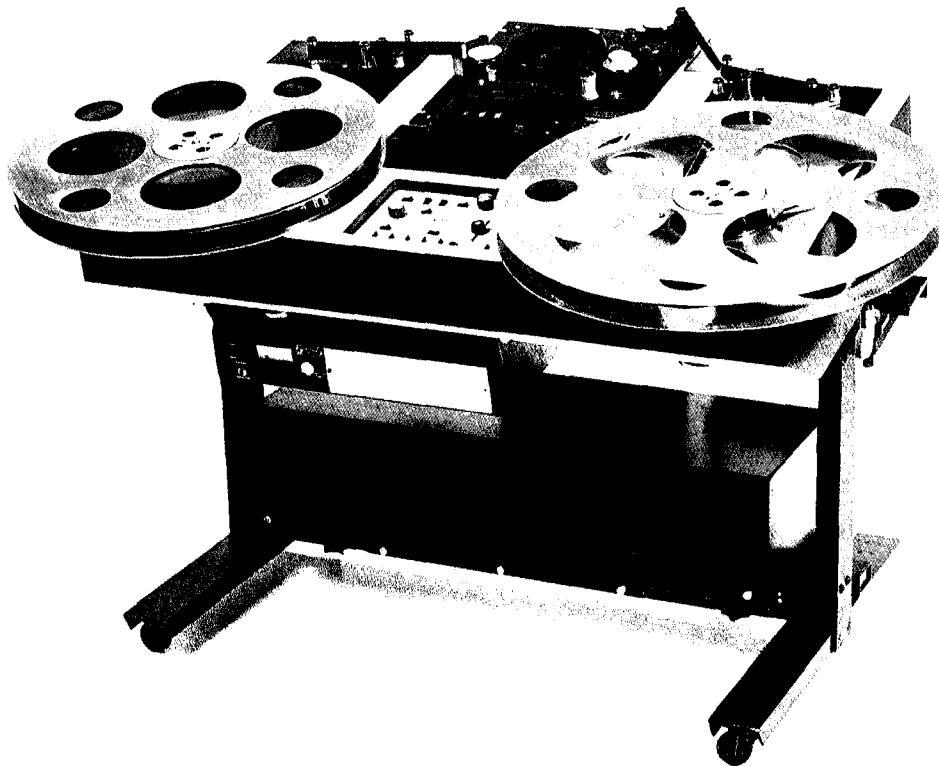


Mantrix 2S control console, Strand Century.

An improved model of the Mantrix™ control console called the Mantrix 2S has been announced by Strand Century Inc., 18111 South Santa Fe Ave., P.O. Box 9004, Rancho Dominguez, CA 90224. With the flip of a switch, the new console can be operated either in a two-scene preset mode with 56 overlapping submasters or in a four-scene preset mode with eight overlapping submasters. The unit also features an electronic patch module which allows dimmers to be assigned to channels at proportional levels for greater control. The console also offers a split crossfader with assignable fade rates from one second to four minutes. It can control up to 288 dimmers on 12 to 48 channels.



Video information inserter, Model OE1241A, Osprey Electronics Ltd.



## SUPERB VIDEO, ELEGANT SIMPLICITY.

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.

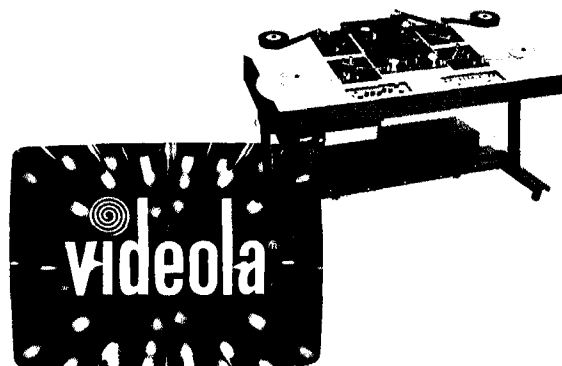
Built around the unique Flickerless Prism® optical system, Videola produces superb images with no sign of flicker, jitter or frame lines . . . at any frame rate. Because the Videola optics merge adjacent frames into a continuously-moving image, TV synchronization is no longer a consideration. Video transfers 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.



Data from eight digital or analog inputs, together with time, date, and preprogrammed information, can be shown as an overlay on closed circuit television pictures with a video information inserter developed by Osprey Electronics Ltd., E27 Wellheads Industrial Center, Dyce, Aberdeen AB2 OGD, Scotland. The device, Model OE1241A, was intended chiefly for use in submersibles to aid underwater inspection. It incorporates a real-time clock and calendar with battery backup and a video writing facility so that alphanumeric data can be written on the video signal. All inputs are optically isolated and TTL compatible.

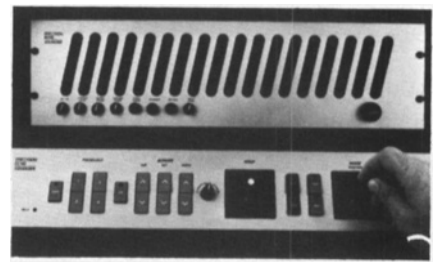
Display format, channel selection, and several other controls are made from the instrument's integral, 16-button, calculator-style keyboard. Some control parameters, including format and channel selection, are retained in a memory with its own battery when the instrument is switched off. The video writer's standard capability is one page with 32 lines (no memory) plus four pages of eight lines (with memory). Input to the writer is by teletype or typewriter keyboard. Up to 12 pages, with one line per page, can be factory-programmed into the equipment to be called up as required. Alternative preprogramming arrangements are optional. A digital speech interface to give electronically generated speech output is also available.



Compressor/Limiter, Model 3070, Fostex Corp. of America.

A 2-channel gated compressor/limiter, Model 3070, has been announced by Fostex Corp. of America, 15431 Blackburn Ave., Norwalk, CA 90650. Gain reduction is accomplished by a VCA circuit which is controlled by pulse width modulation. In the VCA circuit there is an electronic switch which opens and closes at a rate of 200 kHz. By varying the length of time this electronic switch is open or closed during each cycle, signal energy is reduced without distorting the program. Features include external access to the detect circuit which controls the VCA operation. For example, when an equalizer is connected to the VCA input, the normal operation of the compression/limiting circuits becomes frequency-dependent. Compression ratios are continuously variable from 1:1 through infinity:1. Attack times are continuously variable from 50 msec through 2 msec. Model 3070 is priced about \$400.

The Squeezer, a video image compression system, has been announced by Precision Echo, 3105 Patrick Henry Dr., Santa



The Squeezer video image compression system, Precision Echo.

Clara, CA 95054. The device can compress a video image to any of four selectable sizes from  $\frac{1}{4}$  to  $\frac{1}{25}$  of the full frame size and place it anywhere in the raster area. The "squeezed" image can be cropped horizontally and vertically and can be bordered in any color with an adjustable border thickness. It can compress live action or freeze the image. It can also horizontally invert the image. All functions can be preset to four programmable configurations and can be recalled at the push of a button even after powering down. The Squeezer is priced at \$18,700.

Two new 100-MHz oscilloscopes, Models 1745A and 1746A, reported to have display areas 43% larger than standard, have been announced by Hewlett-Packard, 1820 Embarcadero Rd., Palo Alto, CA 94303. Both models have third-channel trigger view, calibrated delayed sweep, and se-

# PIN POINT TRACK POSITION WITH "BUZZ TRACK"

Norton Associates announces the availability of three 35 mm precision, multi-track test films designed to facilitate accurate and rapid lateral alignment of magnetic reproduce heads with respect to the guiding edge of the film.

- Norton TFA/3T35 for three track heads
- Norton TFA/4T35 for four track heads
- Norton TFA/6T35 for six track heads

Utilizing a similar concept to that employed in the time proven "Buzz Track" used to align optical reproducers, these laboratory quality lateral alignment films are recorded to accurately locate and define track position.

In order to attain the magnetic equivalent of the photographic optical "Buzz Track", we have manufactured six, eight and twelve track custom recording heads. These special heads make possible the recording, under laboratory conditions, of two separate and distinct identifiable computer generated audio tones for each track that has to be defined and located on a three, four or six track head.

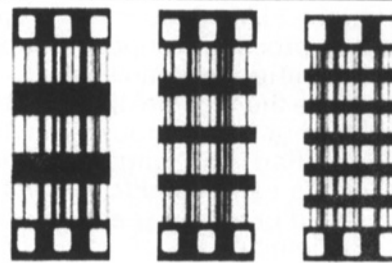
What was once a time consuming and inaccurate procedure, is now positive and unambiguous. The adjustments that must be made can now be accomplished in minutes with extreme accuracy.

Every Norton precision test film is produced with the same meticulous attention to detail that has made Norton heads synonymous with quality for over twenty-seven years.

Contact us today for additional information, specifications and pricing policy.



## TEST FILMS

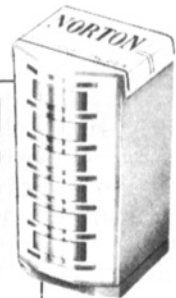


3 Track

4 Track

6 Track

Norton multitrack heads and test films are manufactured to conform to all applicable American National Standards as well as to SMPTE recommended practices.



**NORTON ASSOCIATES, INC.**  
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# There's more than one reason why top engineers want to work with us.

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## Let's start with the technology.

It's creating a lot of excitement, and not just among ourselves. As a world leader in television switching, signal processing and distribution systems, broadcasters and production houses repeatedly sing our praises. Our systems enhance their programming capabilities and keep them competitive. Not to mention make their jobs a lot easier.

At Grass Valley Group, state-of-the-art is our starting point for the next generation of broadcast electronics including fiber optics, advanced special effects, and other systems. We're involved in an exciting technological challenge that will have a visible impact on the future of broadcasting.

### Look at a career with us.

We offer security and growth, plus room for personal achievement — features that are actually built into our management

policy. That says a lot about how we care for our employees, and the following available positions are no exception.

Immediate opportunities are now open for software engineers, digital hardware design engineers, switcher project managers, analog design engineers, and video project managers.

### Leave the city behind.

And take the technology with you. GVG is a high-tech company located in the beauty of the Sierra foothills, about 60 miles northeast of Sacramento. Clean air, affordable housing and the charm of the Gold Country create an ideal life-

style for your family.

Imagine driving to work each day without the usual traffic jams. And, when the week is over, you can take advantage of varied recreational activities — skiing at Lake Tahoe, gambling in Reno, even opera in San Francisco!

### There's More!

GVG offers outstanding benefits, in addition to challenging career opportunities, growth, security and a scenic, rural setting. **We will be at NAB in Las Vegas during April.** If you plan to attend, please send your resume promptly so we can arrange a convenient time to discuss these opportunities in person. Send resumes

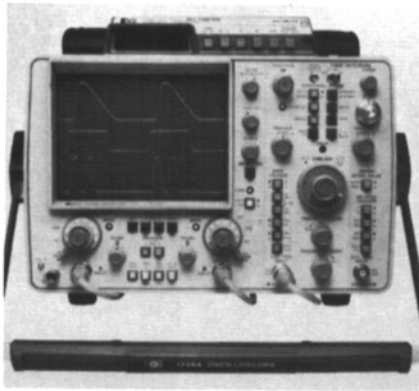
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# Grass Valley Group

A TEKTRONIX COMPANY



HP 1746A oscilloscopes, Hewlett Packard.

lectable 1 megohm or 50 ohms input terminations. The 1746A also has the HP dual marker system to make delta time measurements. The 1745A is priced at \$2840, and the 1746A at \$3140.

The BVP-3, a three-tube color broadcast camera designed to interface with the Sony Betacam® combination VTR/camera system, has been announced by Sony Broadcast Products Co., 9 W. 57 St., New York, NY 10019. The BVP-3 has a new 2/3-in. mixed-field tube with electrostatic focusing. The new tube delivers 650 lines of resolution and SNR of 58 dB with less power consumption than conventional



BVP-3 Betacam, Sony.

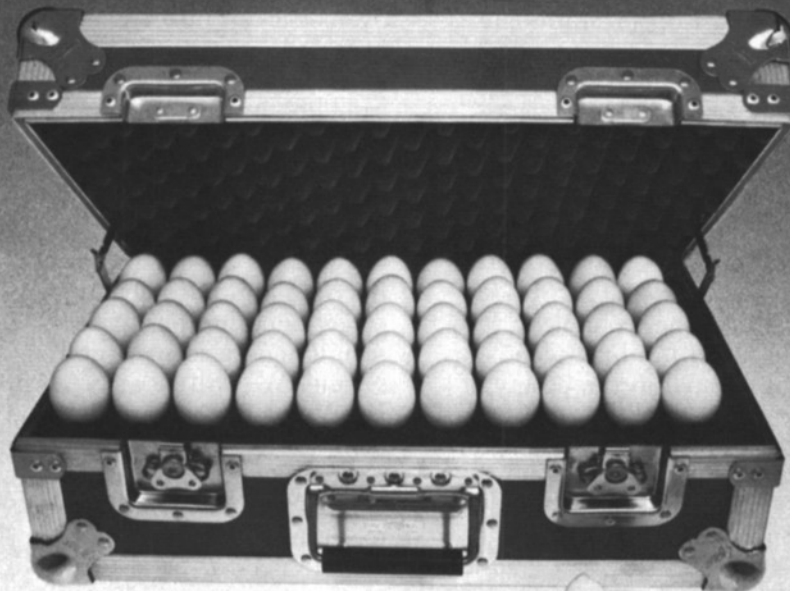
2/3-in. cameras.

The new mixed-field tube employs precise electrostatic deflection with magnetic focus, providing a finer beam for scanning the total raster. The BVP-3 utilizes state-of-the-art prism optics and the latest in video processing. Features include auto white balance, auto black balance, auto black level, auto iris, auto centering, and auto beam optimization circuits. An automatic filter memory function is included. The BVP-3 weighs 9.5 lb and consumes less than 20 W of power. It is one of two Sony cameras designed to interface with the Betacam BVV-1 VTR.

The Tri-Color Video Collimator, designed to ensure accurate adjustment ( $\pm 0.0005$  in.) of the most critical adjustments on three-tube color video cameras, has been announced by Mitchell Camera Corp., 11630 Tuxford St., Sun Valley, CA 91352. It is designed to assure optical integrity of the camera lens, the prism, and the tube package by visually demonstrating that each of the three color tubes is receiving the sharpest possible image. It is reported that the Tri-Color Video Collimator can produce image sharpness three to six times more accurate than can be obtained electronically (measuring depth of modulation). All adjustments are made with the camera lens set at the shortest possible focal length, focused at infinity. Each tube is adjusted separately by projecting a resolution chart in a very narrow band of the prime color of each tube. When the back focus setup is completed, the lens, prism, and tubes are precisely adjusted, resulting in image sharpness better than either the tubes or the electronic system are capable of resolving alone. Prices for the Tri-Color Video Collimator start at \$4,995.

The TV-Color Analyzer II, a microcomputerized TV-color analyzer with both white balance and chromaticity modes, has been announced by Minolta Corp., 101 Williams Dr., Ramsey, NJ 07446. The device achieves objective white balance measurement and adjustment of monitors in TV production lines and broadcasting studios. The incorporation of a chroma mode in addition to a primary-analyzer mode eliminates the need to use a white master or comparator for putting the de-

## There are dozens of things that can go wrong on the job



## Getting there shouldn't be one of them

Even though all "flight cases" may look similar, there are real differences between them.

Calzone Escort cases are designed to protect expensive and delicate equipment from the most punishing travel conditions. Our patented *Double-Angle* construction provides ultimate strength and protection for rack-mounted equipment, mixing boards, lighting, speakers, cameras, VTR's, cables or anything that must endure the torture of heavy travel. Our cases are already being used

by many of today's production companies, sound contractors and radio/television crews whose living depends on getting their gear to the job in perfect working order.

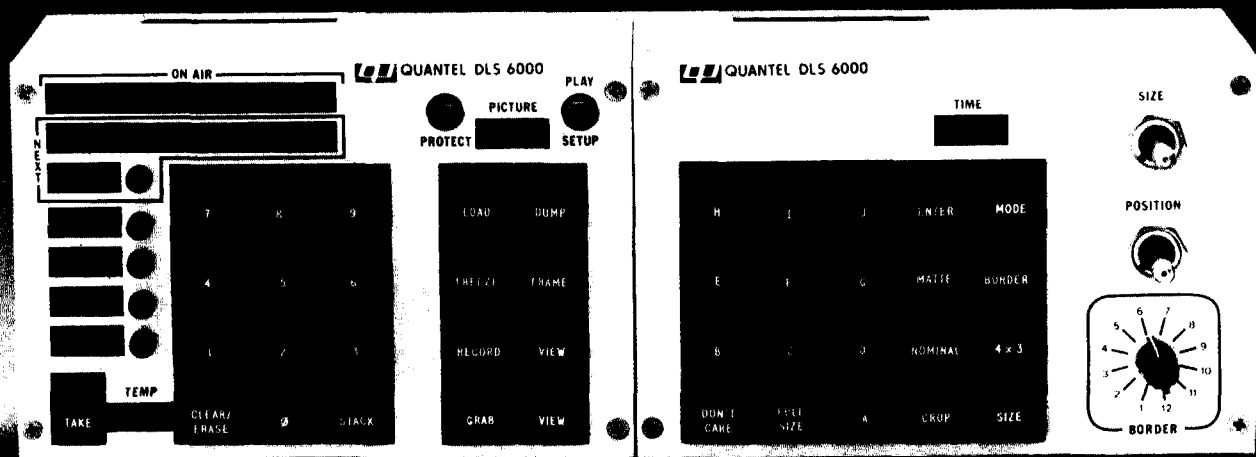
Calzone also makes tough Convoy road cases for short hauls. We make dozens of different models to fit most any kind of job or equipment. Or, we can custom-build virtually any type of case in a

hurry. When your sophisticated equipment requires high-tech protection, Calzone handles with care.

**CALZONE**  
Case Co.

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# The Quantel DLS 6030.



## Every other way to store stills is obsolete.

Introducing the state-of-the-art in electronic still-storage—the Quantel DLS 6030 digital library system.

Obviously it stores still pictures. Up to 800 on each small Winchester disk drive. And with the quality that is a hallmark of Quantel. But the DLS 6030 goes far beyond still-storage.

It is the only electronic still-store with production effects capabilities. So now you can compress still pictures to any size. Crop them to remove unwanted material. Position them anywhere you want. Put borders around them. And dissolve from one shot to the next.

You can even build up totally new pictures—composites or montages—from existing material.

And you can always retain your "originals" in their pristine state.

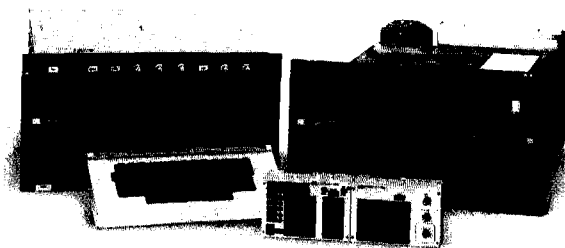
The DLS 6030 lets you browse through its disk library to select the pictures you need, and gives you unprecedented facilities for on-air editing, previewing, and presentation.

Off-loading? You can dump all the pictures—in digital form—onto

standard videotape. Then reload at the remote site via any VTR. The transfer is digital, so there's no generation loss.

Because Quantel's technology is leading-edge, the DLS 6030 is small—about one-quarter the size of still-stores using older technology—and draws far less power. So it's ideal for mobile operations as well as the studio.

There's nothing else like it. See for yourself. Call your local MCI/Quantel representative. Or get in touch with us directly at 415/856-6226. Micro Consultants, Inc., P.O. Box 50810, Palo Alto, California 94303.



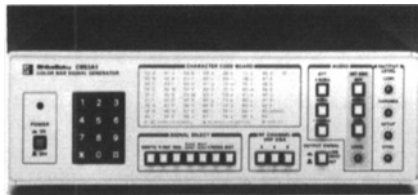
**MCI/QUANTEL**  
The digital video people.

sired white standard into memory. Measured values are processed by a micro-computer and displayed both digitally and by deviation arrays in relation to white standard or reference color memory values.

Applications include color adjustment of monitors in television studios; color adjustment and quality testing of monitors on TV production lines; research, development, and testing of new monitors; and color adjustment and quality testing of video projectors.

**The Videomedia VMC-200**, a computerized version of the firm's VMC-100 sequencing system, has been announced by Videomedia, 211 Weddell Dr., Sunnyvale, CA 94086. The updated system, which has many additional features and capabilities, can control up to six source VTRs, film chains, etc. Additional units up to 255 are optional. The VMC-200 incorporates a terminal, modem, dual 8-in. floppy drives, a real-time clock, and a printer port. It can receive its programming instructions either locally (terminal) or from a disk.

Each source or sequence of sources may be activated manually from the real-time clock or from a preceding sequence. The system generates a report at the operator's request for confirmation of the day's run activity. Prices for the VMC-200 start at \$27,000.



Test signal generator, Model CB53A1, Asaca/Shibasoku Corp.

A new test signal generator, Model CB53A1, has been announced by Asaca/Shibasoku Corp. of America, 12509 Beatrice St., Los Angeles, CA 90066. The unit contains all necessary signals including SMPTE color bars, Y reference bars, full field red, black burst, multi-burst, cross-hatch, and dots. Also contained is a character generator with a capacity of 31 spaces on two lines. The message is held in an electrical, erasable, programmable, read-only memory. The RF signal can be obtained through test channels 3, 4, and 6 (U.S.) as well as by direct video output. Audio signals of 400 Hz and 1 kHz may be obtained with a range of +8 dBm to -50 dBm. The CB53A1 is completely digital and also features a switchable gen lock function and black burst out and is ac/dc operational. The price is about \$3,200.

The TM-90U color monitor, designed mainly for computer display and video monitoring, has been announced by US

JVC Corp., 41 Slater Dr., Elmwood Park, NJ 07407. The unit measures 9.9 x 8.9 x 14.2 in. and weighs 20.1 lb. The screen displays up to 1000 characters at a time and accommodates 40 columns of characters and 25 lines of type. The TM-90U can be used as a video field monitor and as an editing monitor in the studio. For video input versatility, dual terminals are provided: one accepts BNC connectors, while the other accommodates an EIAJ 8-pin connector. Both video output connectors are BNC-type. Power and skew are controlled by front-panel switches. Other switches control volume, contrast, brightness, tint, color, and vertical hold. The TM-90U requires 120 V 60 Hz and the ac power cord is grounded. Power consumption is about 33 W.



TM-22U portable monitor, US JVC.

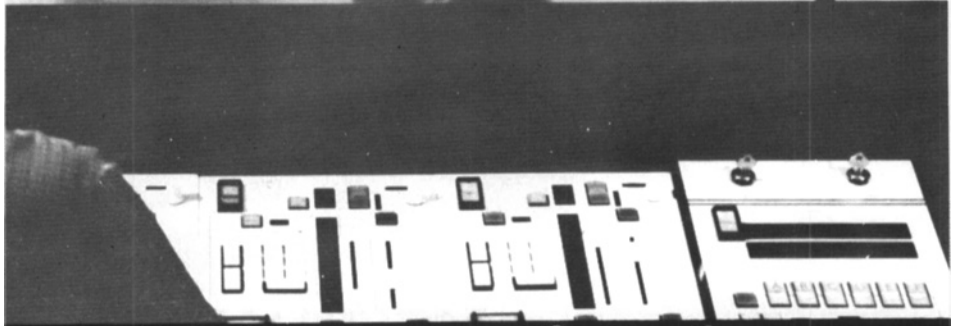
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The DRCCS facilitates pre-broadcast preparation of television programs by allowing the setting, storage and recall of up to 99 shots per camera relating to pedestal height, pan and tilt head position, zoom, focus, iris, black level, color balance and color suppression.

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Booth 1406 NAB



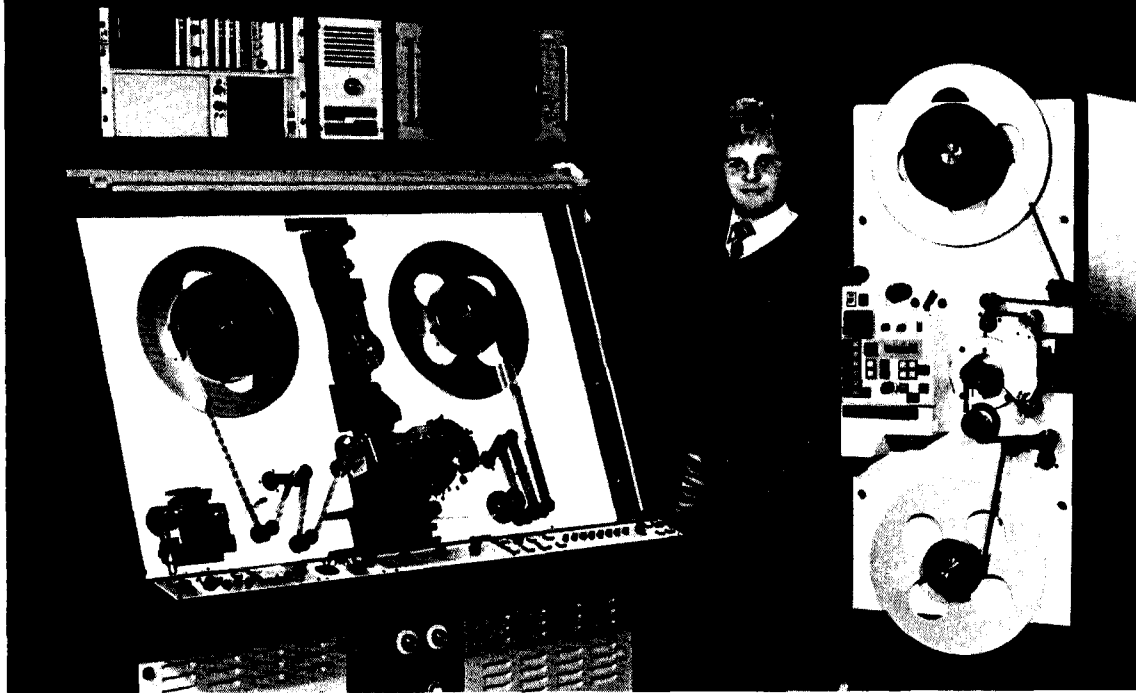
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Listec (West) Corp.

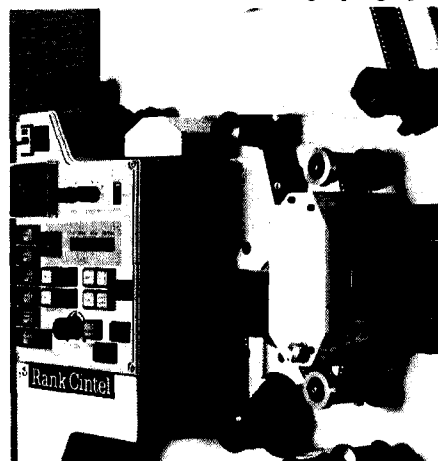
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*The FeRRIT sound follower*

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noise. Flying-spot picture quality and operational features like 16mm/35mm/Super 16/Super 8/slide capability, programmed color correction and variable speed between 16 and 30 f.p.s. make the Rank telecine the definitive film/tape transfer machine.

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Other exciting features that make the FeRRIT a real winner include: rapid changeover between formats; capstan drive without pinch rollers; 24 and 25 f.p.s.; up to 6 audio channels; continuously variable shuttle control; A/B wind and operation in either the synchronous or asynchronous mode.

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**Contact:** Claire Brogni



## Rank Cintel

The world leader in telecine.

A redesigned, 5-in. portable monitor, the JVC TM-22U, has been announced by US JVC Corp., 41 Slater Dr., Elmwood Park, NJ 07407. The monitor, which replaces the TM-41AU, checks both video and audio signals and can be powered by battery, ac, or dc. It is said to be the only one of its size that incorporates a 3-in. built-in speaker for sound monitoring. The monitor can be operated from a 12-V car battery with an optional adaptor, or by NiCad battery via the optional pack (NB-P1). Internal circuitry permits trickle-charging of the long-life pack, while still in the battery compartment, in 8 to 12 hours. It can also

be quick-charged in 90 minutes when placed in the optional AA-P22U charger.

The TM-22U has large, convenient controls for tint, color, contrast, and brightness on the front panel. The front panel also has a video input select switch, LED battery level indicator, earphone plug, and power/volume control. The monitor is equipped with two video input terminals (one UHF-type, the other EIAJ 8-pin), two video output connectors, and associated audio terminals. A 75-ohm switch terminates the VTR input signals or makes them available at the audio and video input/output connectors.



Portable time code generator, EECO.

A miniature longitudinal time code generator, designed specifically for portable use in EFP and ENG applications, has been announced by EECO Inc., 1601 East Chestnut Ave., Santa Ana, CA 92702. Designated the PTG-560, the unit weighs only one lb and mounts easily to portable VTRs. A single standard 9-V alkaline battery provides over 1000 hours of typical operation. Synchronized to either an internal crystal oscillator or incoming composite video, the PTG-560 can supply continuous serial time code in hours, minutes, seconds, and frames and SMPTE/EBU numerical user bit data from panel switches. Utilizing CMOS/LS TTL, all basic time code generator circuitry is contained in a single EECO exclusive custom IC chip and the time code display is LCD.

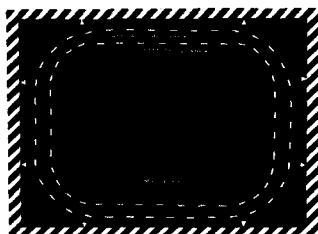


K-800 editing table, MM Editing Systems.

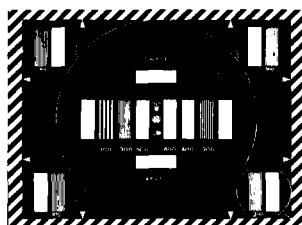
The K-800, an editing table manufactured by KEM Electronik Mechanik GmbH, the German-based firm, has been announced by MM Editing Systems, Inc., 118 E. 25 St., New York, NY 10010. The K-800 can be used in 16 mm, 35 mm or in any mixed arrangement. Film to video transfer is done through the TV unit which consists of a 24-face Kemscope polygon and several front-service mirrors, a prism, an optical sound module, and ballbearing rollers. Results of the transfer are enhanced by the color correction mechanism positioned in front of the polygon, reflecting an air image of  $8\frac{1}{4} \times 5\frac{7}{8}$  in. The machine can be used for editing the soundtrack and video. Through the lock-system, using the SMPTE time code, a specific value is assigned to each frame of the video. All movements (forward, reverse, start, and

# SMPTE

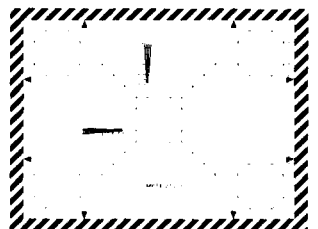
## Television Test Films & Slides



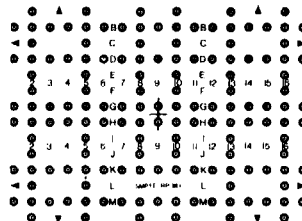
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Alignment and Resolution



Operational Registration



Deflection Linearity

SMPTE's TV test films and slides are used for setting up and checking television studio cameras and telecine systems. These are manufactured under carefully controlled conditions to insure constant dimensions and densities.

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\*Also available in 8 X 10 transparency.

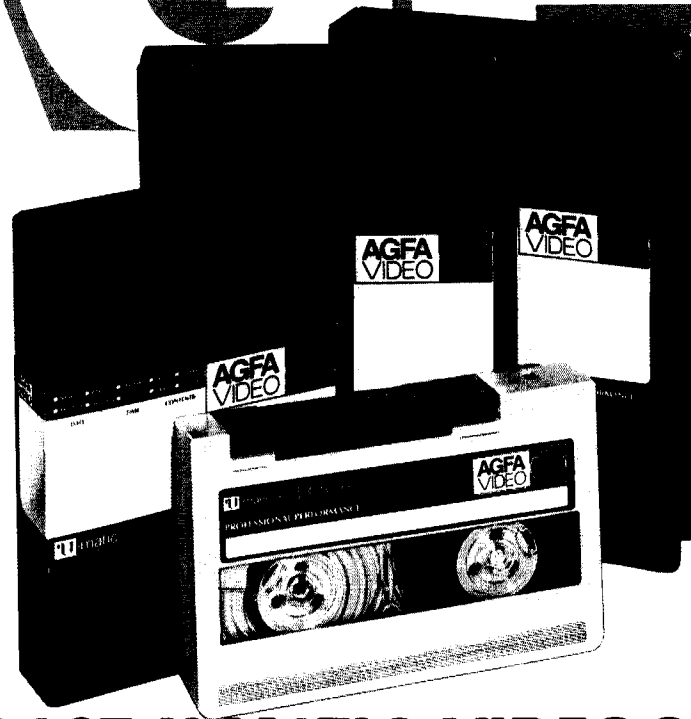
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# AGFA



## **BROADCAST U-MATIC VIDEOCASSETTES A NEW DIMENSION OF COLOR BRILLIANCE**



*Agfa*

stop) are controlled by the rheostat. An interlock system enables the K-800 to connect with as many editing tables as are required for cutting the film and sound-track.

Also announced was the KEM RS-2, a compact system with a twin picture module. It has a 24-sided, flicker-free prism in 16 mm and switchable aspect ratios in 35 mm. Big, handy, inching knobs are mounted on each transport path, making it possible for the operator to inch manually with all three (or all four) transports either in sync or out. Each sound transport has its own frame counter, and each path has adjustable sync points.

**The Intelligent Video Editing System (IVES-1)**, a complete SMPTE time code videotape editing system, has been announced by EECO, Inc., 1601 East Chestnut Ave., P.O. Box 659, Santa Ana, CA 92702. Designed as a self-contained package, the system provides post-production capabilities, performing single-source/single-record SMPTE or control track editing as well as all the necessary pre- and post-edit functions. Features include Auto-Dub, a one-button command that performs a direct dub from the play VTR to the record VTR or from the record to the play; Pre-Stripe, a one-button command that automatically stripes the record

tape with continuous SMPTE time code, control track pulses, and video black; and an internal Audio Mixer that can blend audio inputs from a microphone jack or an auxiliary audio line jack with the audio track of the play VTR for recording onto the record VTR audio track.

A single shuttle knob provides all functions necessary to search either VTR at variable speeds, mark "soft loaded" edit points, and initiate edit preview, allowing an entire edited master to be built using only the shuttle knob and the Perform key. "Hard loaded" edit points may be marked on-the-fly or designated using a numerical keyboard.

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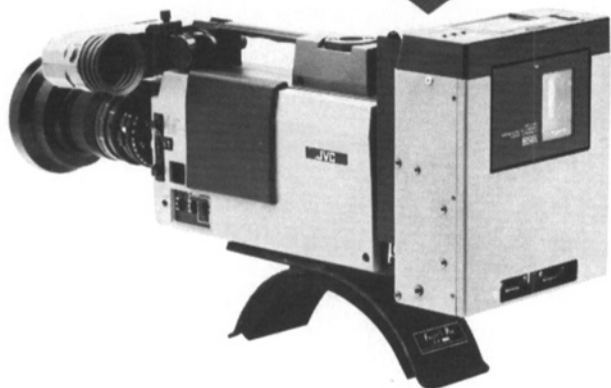


*Viewing hood, Stereographics Corp.*

A stereoscopic viewing hood for KEM 35-mm editing tables has been announced by Stereographics Corp., P.O. Box 2309, San Rafael, CA 94912. The device is designed to enable an editor to see a three-dimensional picture as it will appear in the theater. The standard 2.35:1 aspect ratio can be viewed as a single 3-D image on a retrofit basis. The hoods are available for Academy aperture picture heads. The device can be supplied as a slide-on unit, or the picture head can be converted for swing-away operation. Normal two-dimensional viewing is preserved. Prices start at \$2,500.

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*Chroma Meter II Incident, Minolta*

The Minolta Chroma Meter II Reflectance for measuring reflected subject color and the Minolta Chroma Meter II Incident for measuring light-source color have been announced by Minolta Corp., 101 Williams Dr., Ramsey, NJ 07446. Using

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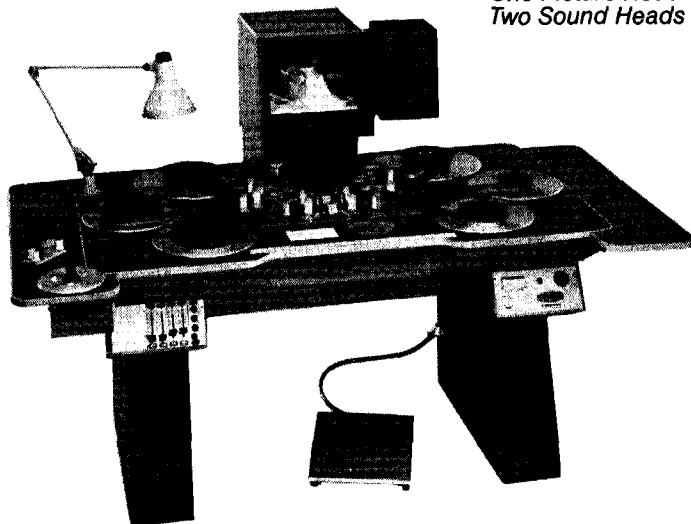
*The demonstrably superior*

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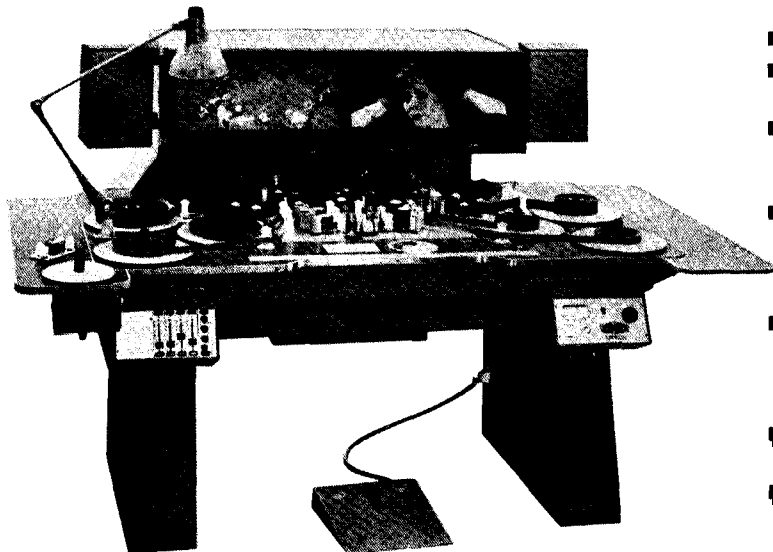
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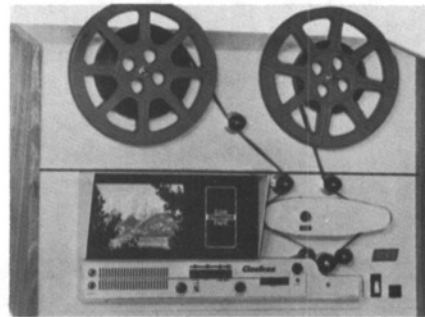
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high-sensitivity silicon photo cells filtered to match CIE Standard Observer Response, the meter makes precise readings which are processed by a built-in microcomputer and displayed on a custom-designed liquid crystal display. Both models are handheld and have a variety of measuring modes for determining chromaticity and deviation from a standard.

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Color measurements of light sources, such as tungsten or fluorescent lamps, cathode ray tubes, or color-TV picture tubes, can be made with the Chroma Meter II Incident.

Both models of the Chroma Meter II are powered by a single 9-V battery for more than 30,000 individual readings. There is no need for warm-up before taking readings. Price of the Chroma Meter Incident II is \$1,280. The Chroma Meter II Reflectance is priced at \$1,980.



*Cinescan film viewer, RTI.*

A compact table-top film viewer less than three feet wide with optional speech-processing capability has been announced by Research Technology International, 4700 Chase Ave., Lincolnwood, IL 60646. The device eliminates the need for separate previewing rooms, projectors, and screens. Named the Cinescan™, the new unit has a 40-in.<sup>2</sup> viewing area and dual speaker system. It provides easy, one-hand threading and simplified controls that cut down the viewing time.

The optional Quik-Trac™ speech processor module allows the operator to check sound films at twice sound-speed and still understand every word. The optional microprocessor generates large, bright LED displays that show time or footage. The 16-sided crown glass prism assures clear, sharp pictures and virtually eliminates image flicker.

The Ultradrive 600, a modular electronic film drive for use on animation stands and optical printers, has been announced by Elicon, 273 Viking Ave., Brea, CA 92621. The system consists of a compatible series of modules. As the need arises, more control modules may be added. Seven preset film speeds are included as well as a manual switch for setting variable speeds.

# THE COUNTDOWN HAS STARTED for Direct Broadcast Satellite Engineers!



Satellite Television Corporation is launching a large and very challenging enterprise...the development of a new Direct Broadcast Satellite Service designed to bring home subscription television to the American people. Outstanding ground floor opportunities at our Washington, D.C. facility will give you responsibility and high visibility in a field with broad technical and management horizons.

## **SENIOR DIGITAL ENGINEER – BSEE**

Individual will provide digital engineering for the STC LSI descrambler module development and function as the STC technical representative during LSI design and production. Individual will supervise the following: design and production of STC encryptors for the Broadcast Center, product improvement projects, and implementation of STC Broadcast Center Monitor & Controls Systems.

Position requires knowledge of circuit design, D/A and A/D converters, digital telecommunications and video techniques and LSI design, plus 9-12 years of experience with design and production of digital circuits and LSI implementation.

## **SENIOR BROADCAST ENGINEER – BSEE**

Individual will play a major part in design, specification and implementation of 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. This individual will also be involved in equipment evaluation and selection as well as participate in industry development of emerging new technologies such as teletext and high definition television.

Position requires a minimum of 5 years of broadcast project experience. Candidate should have established familiarity with state-of-the-art broadcast video equipment and technical standards. Design, testing and implementation of complex video systems using latest construction techniques is also required.

## **SENIOR SYSTEM DESIGN AND DEVELOPMENT ENGINEER – BSEE, MSEE**

Individual will participate in the design and development efforts at STC in the area of baseband signal processing and signal design for the video, audio, data and control information related to STC's signal format. This individual will prepare system technical requirements and specifications for the DBS Home Terminal signal processor; exercise computer and analytic models and develop various baseband signal processors for DBS Home Terminals; and develop test and evaluation plans for subjective and objective video tests of signal processing prototypes.

Position requires 5 years of video-signal processing experience. Candidate will be familiar with the state-of-the-art and be able to do independent design and development work.

## **SENIOR TELEVISION SYSTEM ENGINEER – BSEE, MSEE**

This is a key position in the engineering group that is responsible for advanced television system technologies, including the research and development in video-signal processing and high definition television/enhanced definition television. The engineer in this position will also participate in high definition television transmission experiment through satellites. Individual should have a record of accomplishment in digital and/or analog TV signal processing so as to make significant technical contributions.

Position requires 5 years of experience in television signal processing and experience in prototype development is desirable.

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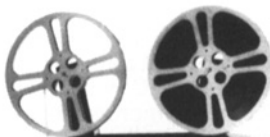
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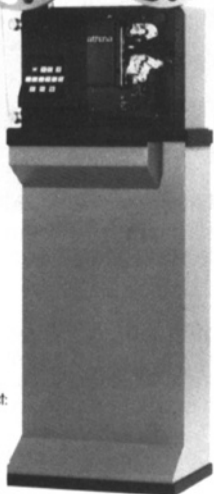
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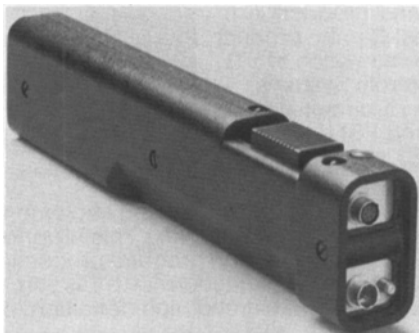


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*Ultradrive 600, Elicon.*

Available options include an LED frame counter for each head, which can stop the printer at a preset frame number. Other options include a skip framer, fade/dissolve, lens follow focus, electronic exposure compensator, and a computer interface.



*J-6 Joystick zoom control, Cinema Products.*

The **J-6 Joystick zoom control**, providing the widest available range of variable zoom rates (from 2 sec to 30 min), has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025. The J-6 is reported to be exceptionally smooth and silent in operation. Designed to operate with the same zoom motor used in the earlier J-4 and J-5 systems, the J-6 Zoom Control can be used with most professional 16-mm and 35-mm cameras, the EC-35 video camera for electronic cinematography, and EFP cameras. Handheld and completely self-contained, the J-6 features an internal 12-V rechargeable battery and solid state circuitry all in one rugged cast-aluminum housing. All controls and connectors are recessed for maximum protection, eliminating the need for a separate control box.

Featuring a remote camera on/off switch, the J-6 can also operate off external power (10-35 V dc) from the camera head. VTR Start/Stop and Return video switches are optional. The calibrated Speed Limit Dial presets the maximum speed of the zoom motor from 2 sec to 30 min/rev. Other features include a linear voltage differential transformer — a ferrite core moving within a magnetic coil, and the elimination of all microswitches, cams, and pots. Prices start at \$1,500.

A new zoom lens, the 12 × 10, 10-120-mm, T2 zoom for 16-mm cine cameras, has been announced by Angenieux Corp. of America, 120 Derry Rd., Hudson, NH 03051. The 12 × 10 elements all new elements of

# KEM

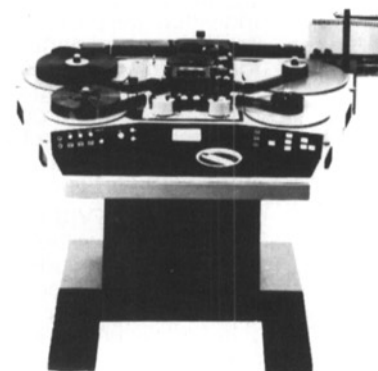
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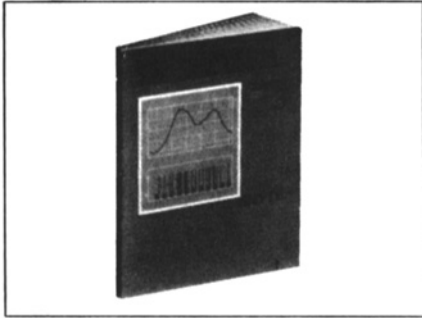
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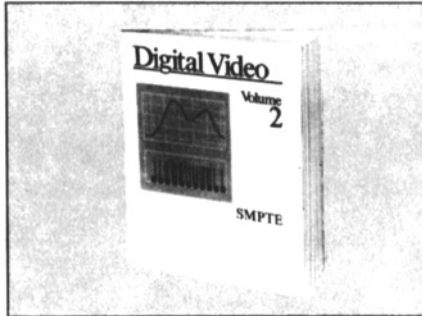
# Digital Video—Volumes 1, 2, 3



## Digital Video—Volume 3

Published 1980. SMPTE's newest book on digital television. It contains 24 papers presented at SMPTE's 1980 Television Conference, the transcript of SMPTE's NAB Digital Decade Workshop, plus a glossary of digital video terms. Subjects covered are The All-Digital TV Plant, Digital Signal Processing, Digital Transmission and Testing, and Digital Recording.

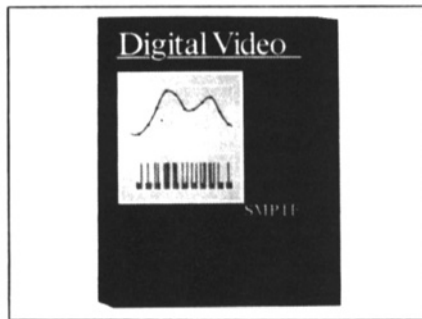
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