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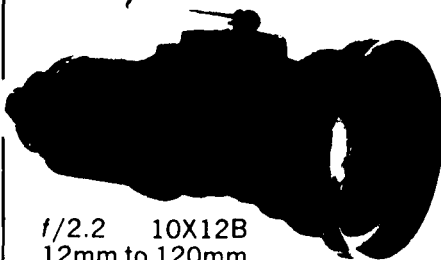
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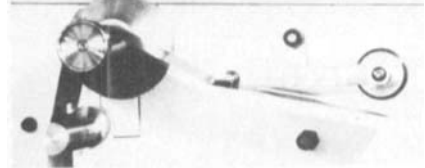
16MM PROFESSIONAL CAMERAS
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New Products & Developments

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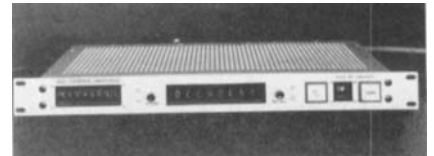


An **image analyzer/photo-optical digitizer** was
announced by L-W International, 6416 Variel
Ave., Woodland Hills, CA 91364. The
LW-110C is easy to use and may include a pro-
jector, console viewer with display, x-y coordi-
nates, area and length, angle calculation, and
electronic frame count. It may also include pe-
ripheral equipment, such as a printer and tape
drive (shown in photo), plotter, or graphic dis-
play. Bit parallel or RS232C interface is stan-
dard, and custom output programs may be
developed to suit special requirements. The sys-
tem can set various scale factors: inches, feet,
miles, degrees, etc. Origin point may be set an-
ywhere on the screen area, and electronic axis ro-
tation eliminates time-consuming and awkward
movement of the whole screen. The price range
of the digitizing system is \$12,000 to \$14,000.



A **half rack mount SMPTE time code reader**
for TV broadcast editing applications has been
announced by Datametrics, Inc., 340 Fordham
Rd., Wilmington, MA 01887. The edit code
reader, designated Model SP-733, accepts
SMPTE time codes from a VTR or other source,
translates and displays the time for off-line edit
decisions, coding verifications, or other pur-
poses. The unit is 1 3/4 in high, 9 1/2 in wide, and 13
in deep (excluding connectors) and weighs 5 lb.
It can read codes at 1/20 to 40 times recorded
speech. Sensing either drop-frame or nondrop-
frame format of the input SMPTE code, Model

SP-733 can operate in forward or reverse mode.
An 8-digit LED display indicates decoded time.
The unit operates on 110/220 V ac, 50/60 Hz.
The price is \$1950.



A **user-bit encoder**, Model UBE-118, to be ul-
tized with the Gray edit code generators DT-104,
DT-113, or the Gray user-bit modifier-display
equipment MD-111, was announced by Gray En-
gineering Laboratories, 504 W. Chapman Ave.,
Suite O, Orange, CA 92668. This equipment
features the use of multiplexing 320 separate
user bits in the SMPTE Edit Code every 10
frames, allowing the operator to transmit more
kinds of information than with past, conven-
tional methods.

Basically, the UBE-118 is a 10-channel, user-
bit multiplexer of eight 4-bit hexadecimal words
repeating every 10 frames. It provides ten differ-
ent 8-digit, user-bit hexadecimal words on one
edit-code transmission line. Each channel, 1
through 10, can be displayed by the channel
thumbwheel section, including an "all" selec-
tion.

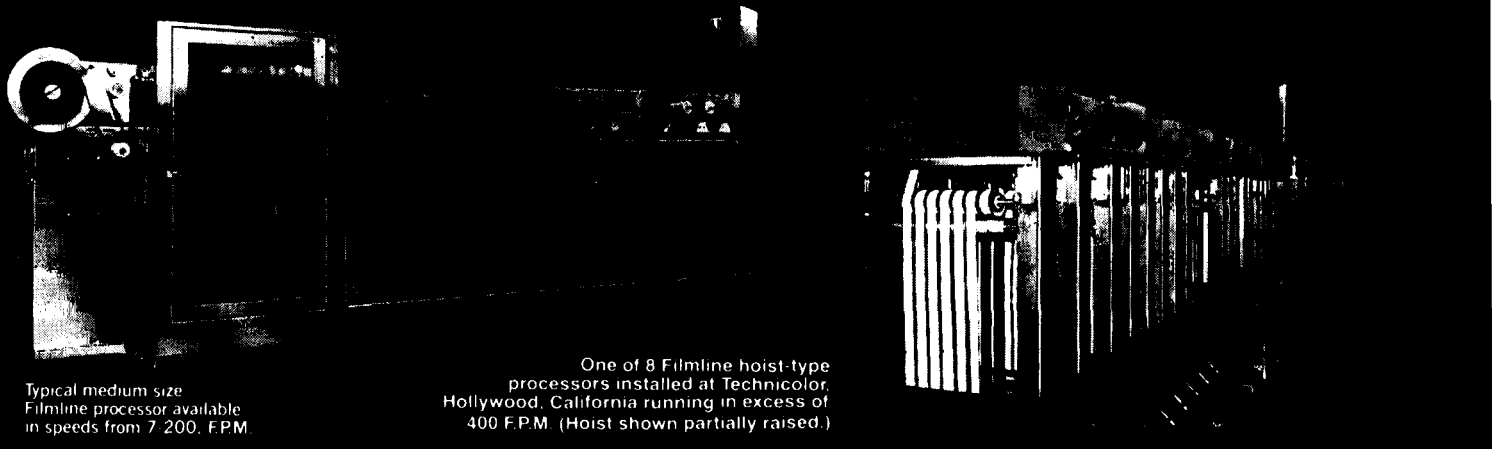
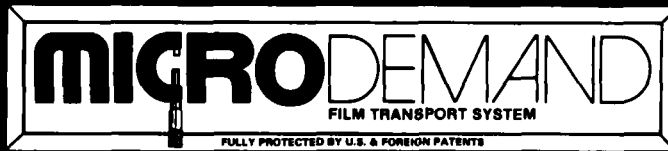
To store information in memory the message
is dialed on the thumbwheel, the appropriate
channel number is selected, and the store button
is pushed to record and display the message at
the same time. A recall button is provided to dis-
play information in memory on any channel.
The price of the UBE-118 is \$1595.



A **video time base corrector**, Model ccd2h-1,
was announced by Edutron Inc., 25 Oak St.,
Suite 1, Roswell, GA 30075. The ccd2h-1 will
work with any 1/2-in or 3/4-in heterodyne video
player that is either capstan-servo or non-cap-
stan-servo controlled. The ccd2h-1 will exter-
nally lock to a master sync generator allowing
the use of a VTR as a source for the purpose of
doing A-B rolls. It has a signal-to-noise ratio of
58 dB, a differential phase of 1/2°, and a differ-
ential gain of 1.5%. It has a correction window of
two horizontal lines (2H) with an automatic
steerable advanced sync to keep the VTR cen-
tered in the window.

Additional features are an adjustable noise
coring that will reduce chrominance and lumi-
nance noise up to 4 dB; an adjustable horizontal
enhancement that allows up to 100% boost in the
picture; and sync, burst, and blanking for a clean
signal and proper rise and fall times. The price
of the ccd2h-1 is \$5800.

The Standard of Excellence!



Typical medium size
Filmline processor available
in speeds from 7-200 F.P.M.

One of 8 Filmline hoist-type
processors installed at Technicolor,
Hollywood, California running in excess of
400 F.P.M. (Hoist shown partially raised.)

Micro-Demand is a patented exclusively different concept in demand drive film transport systems.

Micro-Demand is a dynamically tension-controlled friction film transport system that operates effectively at minimum tension and with complete reliability. When used with Filmline Feather-Touch film spool "tires" it transports 35mm, 16mm and single strand 8mm film interchangeably and without adjustments even when these films are spliced back-to-back.

Once optimum tensions are set there is no need for further adjustments, yet the design allows easy and rapid, dynamic adjustment of film tension while the machine is running.

Micro-Demand has a broad band of self-compensation, is of functional construction and requires minimum maintenance.

There are no fragile, plastic spring bushings, no wobble rollers. No elaborate articulations of any type. Just sound engineering and the highest quality materials and workmanship.

No other competitive processor or film transport system commercially available has ever achieved the operational speeds and proven reliability of Filmline Micro-Demand Processors.

SIGNIFICANT MICRO-DEMAND FEATURES:

- | | | |
|----------------------|--|--|
| Versatility | Any speed, any process. | <input type="checkbox"/> Push-Button operation, and reliability allows operator to perform other functions while the machine is running! |
| Reliability | Rugged construction, quality materials and sound engineering. Always ready when you are! | <input type="checkbox"/> Automatic compensation for elongation and contraction of film during processing cycle. |
| Flexibility | Any format 35mm, 35/32mm (1-3), 35/32mm (1-4), 35mm 5R SB, 16mm - 70MM-105MM etc. | <input type="checkbox"/> Virtually eliminates all film breakage, scratches and static marks. |
| Dependability | Can stand the gaff of long, continuous, top speed runs with "Zero-down-time." | <input type="checkbox"/> All film spools use standard bearings or bushings. |
| Credibility | Ask the labs who own them. Most of them own not one but several. | <input type="checkbox"/> Entire upper film shaft/roller assemblies easily removed. No tools needed. |
| Maintenance | Exclusive Maintenance Monitor tells when and where the machine needs attention. Significant savings assured. | <input type="checkbox"/> Stainless steel construction used throughout. |
| Performance | Every Filmline machine is backed by a superb performance record compiled in over 25 years of continuous service to the industry. Twenty five years in the forefront of processing machine design and innovation. | <input type="checkbox"/> Proper operation can be determined at a glance, while machine is running. |
| | | <input type="checkbox"/> Submerged developer racks. |
| | | <input type="checkbox"/> Pumps for recirculation and agitation of all required systems. |
| | | <input type="checkbox"/> Professional spray bars. |
| | | <input type="checkbox"/> In-line filters on all required systems. |
| | | <input type="checkbox"/> Professional air and wiper squeegees. |
| | | <input type="checkbox"/> Temp-Guard Temperature Control System. Thermistor sensing and transistorized controller. |
| | | <input type="checkbox"/> Film-Guard dry box with dual heat input and dial thermometer. |
| | | <input type="checkbox"/> Individual switches for all control functions. |

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**“FINALLY THERE’S A ONE-INCH
AS WELL UPSIDE DOWN**



VIDEO RECORDER THAT WORKS AS IT DOES RIGHT SIDE UP."

DAVID HALL / OPRYLAND PRODUCTIONS

Opryland Productions is one of the largest video production houses east of the Mississippi. The company's facilities have been used for shows as varied as "Nashville on the Road," "Big Ten Basketball," and "Dance in America."

David Hall, General Manager of Opryland Productions, has been using the Sony BVH-1000 video recorder for close to two years and two BVH-500 portable recorders for about six months.

"Sony one-inch equipment has expanded our capabilities considerably," says Hall. "With a BVH-500, we were able for the first time to get broadcast quality tape on a roller coaster for an upcoming special.

"We also took the BVH-500 on a ferris wheel and in a helicopter to tape 'Superstars at the Ohio State Fair.' It performed as well as they did.

"Now we're using Sony on almost all shows we tape in the field. The big advantages are portability and cost. Durability, too. Sony even bailed us out when we were taping a quad production and our equipment broke down. We used Sony to finish the job, then transferred the results to quad. The client was more than satisfied.

"And when the Dominican Republic asked us to tape the visit of Pope John Paul II, we couldn't have done it without our Sony video recorders," Hall adds.

"Because they travel so well, we could get down there fast and do a professional job."

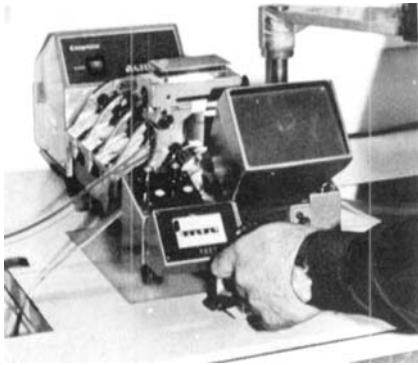
Of course, Sony makes a full line of one-inch broadcast equipment, all of it backed by state-of-the-art technology. We have video recorders, cameras, editors, and the BVT-2000 digital time base corrector.

For information, write Sony Broadcast, 9 West 57th Street, New York, N.Y. 10019. Or call us in New York at (212) 371-5800; in Chicago at (312) 792-3600; or in Los Angeles at (213) 537-4300.

Like David Hall at Opryland, you'll be impressed. Even if your productions don't have you going around in circles.

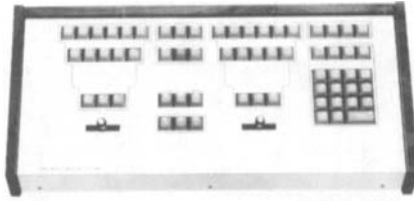
SONY BROADCAST

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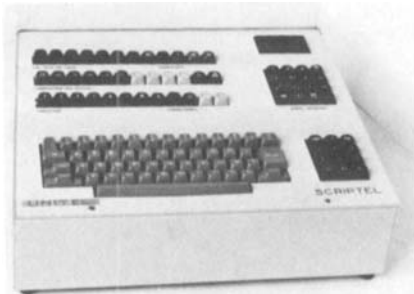


A 35mm version of the Acmade picture synchronizer, designated Compeditor 35, was announced by Alan Gordon Enterprises Inc., 1430 N. Cahuenga Blvd., Hollywood, CA 90028. This motorized editing machine incorporates a viewing head and four soundtracks, with one of the tracks being disengageable, allowing all searching to be carried out on the same machine. The manipulation of film and magnetic sound tapes on these machines is very simple, enabling the editor to work at high speed. The portable and rugged unit weighs 19 kg. The price of the Compeditor 35 is \$4500 to \$4750.

A single event editing system called the Mini Z has been announced by Videomedia, 250 N. Wolfe Road, Sunnyvale, CA 94086. Features include bidirectional shuttle arms, auto search, cruise control, auto tag, and edit. The operating program of the Mini Z is designed as a software package to allow for ease of updating. The sys-



tem incorporates the Micro-Loc, which provides a numeric display in either SMPTE Format or pulse count readout. The Mini Z gives a complete data readout with all editing parameters displayed and continuously updated as the editing session progresses. A full complement of error messages prompt the operator through each sequence, calling attention to illegal or illogical commands. The price of \$8500 for the Mini Z includes the Micro-Loc.



Two microprocessor-controlled character generators, Scriptel "P" and Scriptel "V" (shown above), were announced by UNITEL, 80 Rue

D'Arcueil, 94250 Gentilly, France. The Scriptel "P" contains various features for the composition of titles and subtitles on a television screen: standard alphanumeric keyboard adapted to each country; all control keys on a single keyboard; four sizes of characters which can be placed throughout the screen on a character by character basis; underlining on a word by word basis; eight colors, inverted or colored background and flashing, character by character; and editing facilities: character and line insert and delete, automatic centering, line interchange, tabulation, and brush function. Internal memory holds 16 pages extensible to 32; each page takes 16 rows of 32 characters.

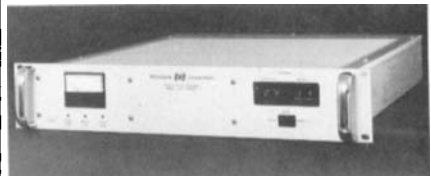
The system is modular and has six options: a floppy disk memory which holds 250 pages of characters and associated functions; a time counter designed to display four or six figures on the broadcast picture (hours, minutes, seconds or minutes, seconds, hundredths depending on the selected function); computer connection, to broadcast directly results of games, elections, etc.; a Graphlet function that allows a secondary font to be added to the basic one; and a Subtel function designed for automatic subtitling of tape and film pictures.

The Scriptel "V" is a compact character generator designed for titling television pictures in small to medium size television studios and outside broadcasting vans. It contains many of the same features as the Scriptel "P" and its internal memory holds 16 pages of 12 rows of characters. The transfer from preview to broadcast picture is its most important operational function; animated transfers are crawl, which can be positioned anywhere in the picture, and roll which allows a continuous display of the content of the memory.

Both character generators can be adapted to any television standard. They are priced at \$2600 to \$5800 for the Scriptel "P" and \$1800 to \$2700 for the Scriptel "V".

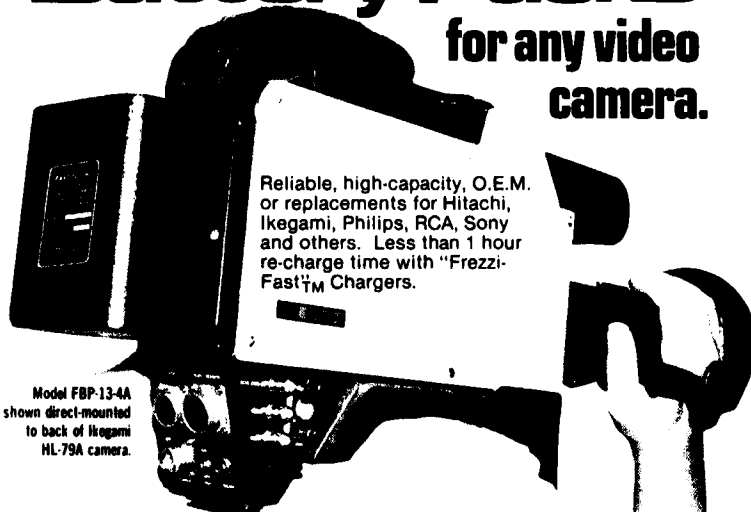


An RGB to NTSC color encoding system that enables computer graphics or alphanumeric information to be displayed on a standard commercial color television monitor was announced by Lenco, Inc., Electronics Div., 300 N. Maryland St., Jackson, MO 63755. Model CCE-850 encoder is specifically designed to encode high resolution RGB colorgraphic computer displays, regardless of scan rates. A color reference test pattern is included to allow for proper NTSC color monitor alignment. The encoder measures 1 1/4 x 17 x 8 in as a tabletop unit. The price of the CCE-850 is \$1595.



A 24-channel receiver for satellite receive-only ground stations has been announced by Microdyne Corp., 491 Oak Rd., Ocala, FL 32672. Designated the X-24, the receiver features frequency agility as well as automatic polarity selection. The receiver can be tuned manually

"On-Board" FrezziTM Battery PacksTM for any video camera.



Reliable, high-capacity, O.E.M. or replacements for Hitachi, Ikegami, Philips, RCA, Sony and others. Less than 1 hour re-charge time with "Frezzi-Fast"™ Chargers.

Model FBP-13-4A is shown direct-mounted to back of Ikegami HL-79A camera.

For information call (N.J. 201) 427-1160 (N.Y.C. 212) 594-2294

Made in U.S.A. **Frezzolini Electronics Inc.**
7 Valley St. Hawthorne, N.J. 07506 USA

Export Agents: **STEREOMAX** 11 Caesar Place, Moonachie, N.J. 07074 U.S.A. • (201) 939-0875
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There is only one cutting table that can beat the Oldelft table: the Oldelft table with crown optics



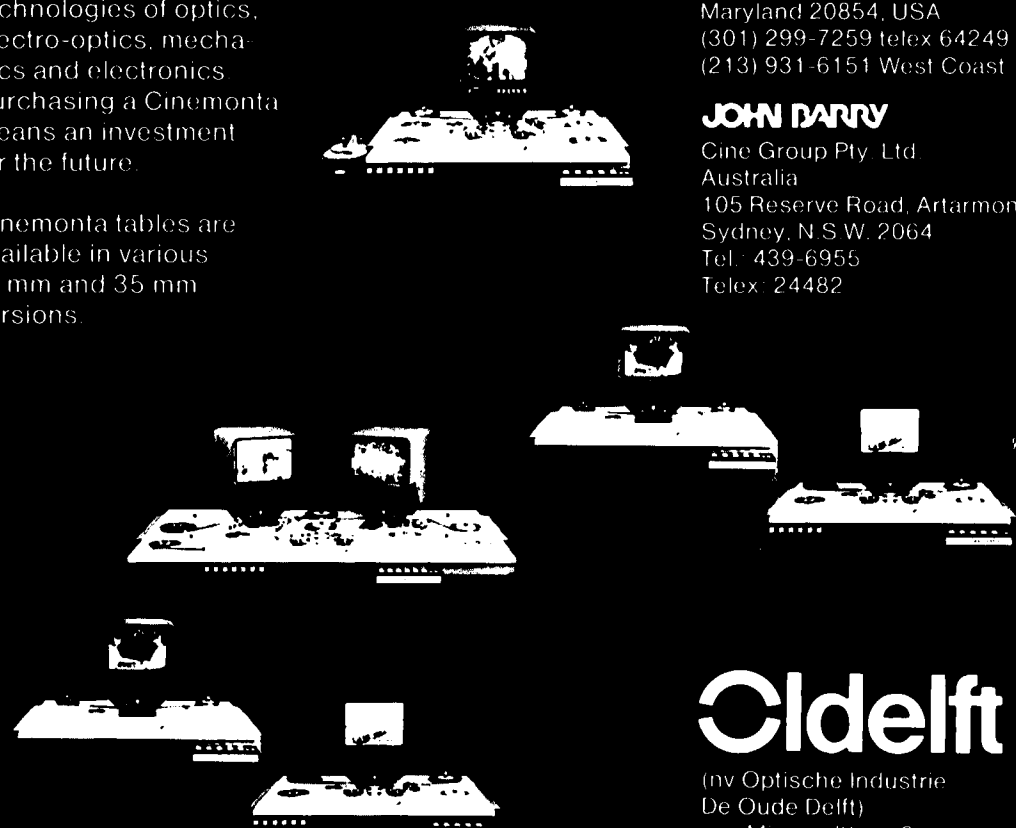
Cinemonta, the Oldelft film-editing table, in its standard version offers more benefits than its closest competitor. Greater ease of operation, higher reliability, improved image brightness and better sound quality.

Yet there is an editing table which is an improvement on the standard Cinemonta: the Oldelft table with the unique optical crown system. Thanks to this system the quality of the viewer image can be compared only with that obtained by a film projector: unsurpassed brightness and a resolution power of more than 60 lines/mm. Hard facts which you can see for yourself. Telephone us and make an appointment for a demonstration of the Oldelft film-editing table.

Cinemonta film-editing tables are a development

of Oldelft, a firm that knows all about the combination of the technologies of optics, electro-optics, mechanics and electronics. Purchasing a Cinemonta means an investment for the future.

Cinemonta tables are available in various 16 mm and 35 mm versions.



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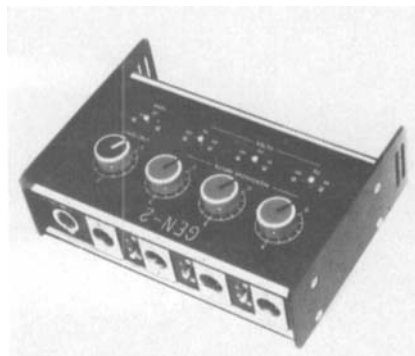
using front panel controls, or remotely via a BCD interface, to provide a wide choice of remote tuning methods including computer control. Threshold extension circuitry is incorporated to ensure FM demodulator C/N performance. An internal coax switch automatically selects the properly polarized antenna feed when any one of the 24 channels is selected. Price of the X-24 is \$4040. Also available is an optional rack mount audio subcarrier demodulator. The unit provides up to four subcarriers ranging from 4.5 to 7.5 MHz for processing slow scan video, high fidelity audio, or other software items offered by the programming sources. The price is \$590.

A new Kowa macro zoom lens with a 12.5 – 75mm focal length range and *f*/1.8 aperture for video cameras has been announced by D. O. Industries, 317 East Chestnut St., East Rochester, NY 14445. The firm now offers a line of wide angle, telephoto, normal and zoom lenses for 2/3- and 1-in television and CCTV vidicon cameras. The new Kowa macro zoom lens is priced at \$291.50.



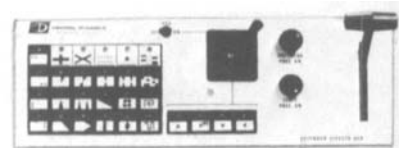
The Automar 16mm zoom prime projection lens has been announced by Kalart Victor Corp., Plainville, CT 06062. It is a Swiss-made zoom

lens with a 35 – 65mm range and is said to have no vignetting at the shorter focal lengths. It provides flexibility in projection distances. It is available for use with Bell & Howell, Singer, Viewlex, Elmo, Eiki, Hokushin, and Bauer 16mm projectors as well as the Kalart Victor Series 90 projectors. The price is \$278.50.



A location sound mixer, Model GEN-2, was announced by Paul Simmon Ltd., 2 Market St., Halifax, W. Yorkshire, England. Features of the advanced second generation mini-mixer include high performance integrated circuits, variable gain circuitry, and switchable polarity that allows use with Nagra IS and 4.2 audiotape recorders. The price of the GEN-2 mini-mixer is £364.

The new EEG-1980 Rotary, Matrix, and Star Wipe effects system can now be added to any size switcher by connecting it to a switcher's external key input, according to an announcement



from Central Dynamics Ltd., 147 Hymus Blvd., Montreal, Canada H9R 1G1. The EEG-1980 effects patterns can be used simultaneously with a switcher's existing effects generator, such as an EEG clock wipe within the switcher's circle pattern or, independently, permitting creative freedom and control. The centerpoint of any EEG wipe can be positioned anywhere on the screen, and provisions are included for soft edge EEG wipes. The system electronics are derived from the CD-480 extended effects generator module and consist of a remote control head and rack electronics. The price of the EEG-1980 is \$6500.

A programmatic super-8 sound projector, Model SM 80, was announced by Bolex, 250 Community Dr., Great Neck, NY 11020. The projector can be programmed in three different ways for sound recording. First, it can be set to start recording on a specific frame and end in another. Secondly, the type of transition on the track can be preselected: either straight cut, fade, or dissolve. Thirdly, a cassette recorder with remote control operation, linked to the projector by cable, can automatically put the recording on the preselected film segment when the projector is started. Recording will start and end exactly on the frames chosen with the type of transition selected and without wow because the

The Insurance Policy:

(so you can be ULTRA-sure of what's been captured on film)



Put an Isco Cinelux-ULTRA lens on your review room projector

No longer need you inspect footage in a review room where the screen image lacks crisp definition of detail. The new Cinelux-ULTRA lens by Isco dramatically upgrades screening room projectors...letting you examine the brilliance, the contrast, the nuances you labor so hard to achieve.

See a totally new level of picture clarity and image brightness, thanks to the technological wizardry of the world leader in theatre projection lenses. Already revolutionizing picture

quality in movie theatres across the country, the new Cinelux-ULTRA lens by Isco recently received the only Technical Achievement Award ever bestowed on a new lens by the Academy of Motion Picture Arts & Sciences.

This same lens is now available to add ULTRA-modern definition to your screening room projection. Ask your local Theatre Products dealer for a demonstration, or write.

ISCO Theatre Lenses

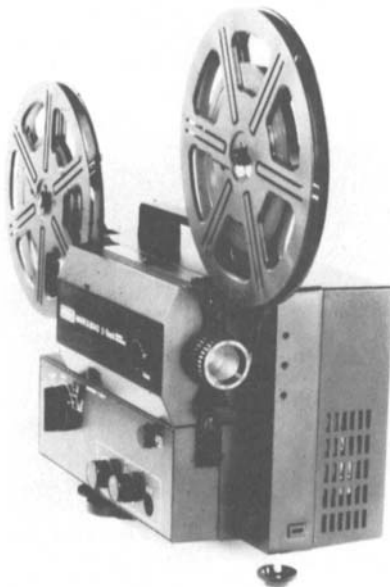
Distributed in the U.S. exclusively by Schneider Corporation of America, 185 Willis Avenue, Mineola, NY 11501



projector is already running. The ease and precision with which soundtracks can be embellished or corrected allows for sound fades to coincide with visual fades, accurate erasure of commentary, and the superimposition of sound where gaps between sequences recorded with a sound camera exist.

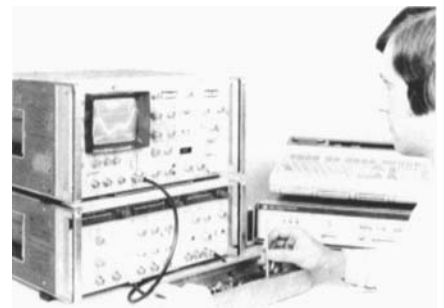
The SM 80 is equipped with two sets of magnetic heads for extra sound versatility. Record and playback are not limited to the main track because the sound set can record and play back on the balance stripe of pre-stripped sound films. The entire range of programmable recording facilities can be carried out on either track. Simul-

taneous playback of both tracks permits automatic mixing of both recordings. Working with the balance stripe for added sound prevents accidental erasure of the original track recorded with the sound camera. Separate playback is also possible with either track. The price of the SM 80 is \$780.



The new Mark S-804D dual 8mm sound movie projector featuring two-track recording capability allowing separate sound input to be recorded on the balance stripe has been announced by Eumig (U.S.A) Inc., Lake Success Business Park, 225 Community Drive, Great Neck, NY

11020. Both regular 8mm and super-8 film and both sound and silent can be projected. Threading is fully automatic, and a continuously variable 18 to 24 frames/s speed control allows matching the camera's filming speed to the projection speed. The price is \$429.50.



A dual IF microwave link analyzer (MLA), Model 3711/12A, covering both 70-MHz and the broadband 140-MHz IF carrier communication systems, has been announced by Hewlett-Packard, 1501 Page Mill Rd., Palo Alto, CA 94304. The system, consisting of the transmitter and receiver, has an improved back-to-back residual performance with sensitivity quoted at -20 dBm. A third generation instrument, improvements include a new frequency identification system which provides both fixed markers in the form of a comb with selectable spacings of 2, 5, and 10 MHz, and a variable marker which may be adjusted over the entire measurement range. Sweep range is adjustable from 0.5 MHz to 50 MHz at 70 MHz and out to 100 MHz at the higher IF. Direct readout of the variable marker frequency is displayed on a 5-digit LED counter. Resolution is to 10 kHz and accuracy is typically

RCA's Automatic Bulk Tape Erasers: Consider the value.

Start with this important fact: RCA's Bulk Tape Erasers feature fully automatic erasure of either video or audio tape—down to the noise level of the magnetic medium.

An "air core" coil eliminates "spokes", a common problem with less expensive erasers using iron core coils. What you get is *total* erasure of tape or film in rolls up to 15-inch diameter.

The erase cycle is fully automatic and accomplished in an 18-second cycle. Models available for both 50 and 60 cycle operation.

For more information on our Automatic Bulk Tape Erasers, or on the total RCA Photophone Systems product line, contact your Representative, or write RCA, 2700 W. Olive Avenue, Burbank, CA. 91505 U.S.A. Telex 68-6215

RCA Photophone Systems



to 20 kHz, making it useful for narrow band satellite filter testing as well as for establishing IF inputs and setting modulator center frequencies.

Other features include a 10 × 8 cm, high intensity CRT with a logged amplitude display and a facility which allows swept RF amplitude response measurements at RF monitor points. Direct readout of both IF and base-band power levels can be measured on a dual resolution power meter. Certain improvements have been made possible by the use of Hewlett-Packard thin-film circuits, including an IF amplifier with harmonic levels better than 35 dB down at a frequency of 190 MHz and power level of +11 dBm and precision detectors used both for source leveling and IF flatness measurements.

Although MLA measurements are made and displayed using analog methods, digital techniques may be added by using the HP 8501A storage normalizer. The instrument, when connected via a special interface, simultaneously converts the analog X and Y signals from both traces to digital form, processes them as required and reconverts them to analog form for display on the MLA screen.

Price of the MLA Model 3711/12A is \$28,500. Price of the 8501A storage normalizer is \$5300.

A new line of VHS and Beta Format videocassettes, designed for the new extended play (EP) videocassette recorders and players as well as for standard play (SP) and long play (LP), has been announced by Fuji U.S.A., Magnetic Tape

Division, 350 Fifth Ave., New York, NY 10001. The new tapes are said to have improved video characteristics and increased durability, with the cassettes incorporating an improved binder system to increase tape life. The new videocassettes have been reformulated for improved sensitivity and SNR, lower dropouts, and better chroma characteristics. Prices for the Beta Format range from \$11.95 through \$17.50 depending on the length (125 to 500 ft), and for the VHS format, \$15.50 through \$22.50 (223.1 to 813.6 ft).

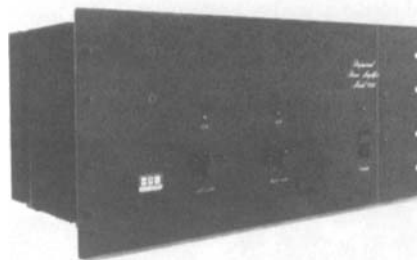


A line of U-Matic 3/4-in and VHS 1/2-in videocassettes was announced by Maxell Corp. of America, 60 Oxford Dr., Moonachie, NJ 07074. The U-Matic videocassettes, Models KCA-30 and KCA-60, have playing times of 30 and 60

min respectively and are, accordingly, priced \$28.50 and \$41.50. Of the VHS Format videocassettes (shown above), Model T-60 has a playing time of 60 to 120 min, and Model T-120 has a playing time of 120 to 240 min. They are priced \$19.95 and \$28.50 respectively.

Two 1/2-in VHS videocassettes, T-60 (1-2 h) and T-120 (2-4 h), were announced by Memorex Corp., San Tomas at Central Expwy., Santa Clara, CA 95052. Performance features include low noise, high RF output, high chroma output, and low chroma noise. They come in consumer and professional versions. The consumer version is packaged in a dust-proof protective plastic case with pressure-sensitive labels for cassette and case identification; the professional version is packaged in a royal blue storage box with a large labeling area on the back. Prices are \$19.99 for the T-60 and \$27.99 for the T-120.

A 30-min VHS videocassette, Scotch T-30, was announced by the 3M Co., Magnetic Audio/Video Products Div., 600 Third Ave., New York, NY 10016. This is the first of the Scotch videotapes to designate playback and recording time on the package. Likewise, the VK-125 is now a T-60 (60 min) and the VK-250 is now T-120 (120 min). The high density magnetic tape is housed in a plastic cassette and is compatible with the VHS video system. The price is \$16.75.



A professional power amplifier, Model 600, was announced by BGW Systems, Hawthorne, CA 90250. A continuous 175-W per channel stereo amplifier offers total harmonic distortion (THD) of 0.1% (8Ω, 20 Hz to 20 kHz); at 4Ω there are 250 W with .15% THD; and from a convenient rear panel switch, the mono mode yields 500 W, .15% THD.

Features include a modular design with massive heat sink assemblies, redundant output stages utilizing ten 150-W complementary transistors each, loss-of-feedback clipping indicators, high speed 15-mHz Op-amp front end, and independent front panel gain controls. Hum and noise is greater than 106 dB below rated output into 8Ω and frequency response is +0, -.25 dB, 20 Hz to 20 kHz. The size is 8 3/4 × 19 × 11 3/4 in; the weight is 44 lb. The price of the amplifier is \$849.

A 3 1/2 digit LED bench-type multimeter, Model MC-535 (shown above), featuring five function modes (dcV, acV, dc mA, and ohms) has been announced by Soar Electronics (U.S.A.) Corp., 200 13th Ave., Ronkonkoma, NY 11779. The instrument provides automatic zero adjustment and polarity indication. All modes appear on the LED display. The unit can also be supplied with an ac to dc adaptor. The instrument has a dc measurement range of 200 mV to 1000 V, an ac measurement range of 200 mV to 750 V, a current measurement range of 200 μA to 1000 mA (dc and ac), and a resistance measurement range

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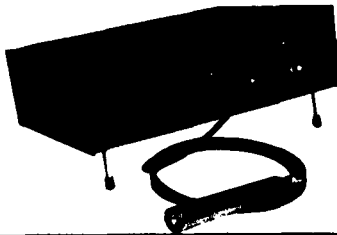
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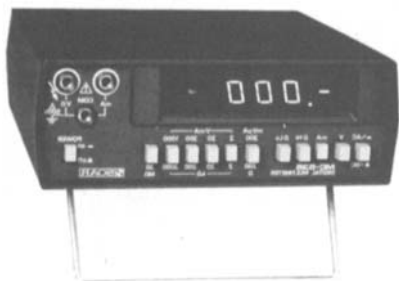
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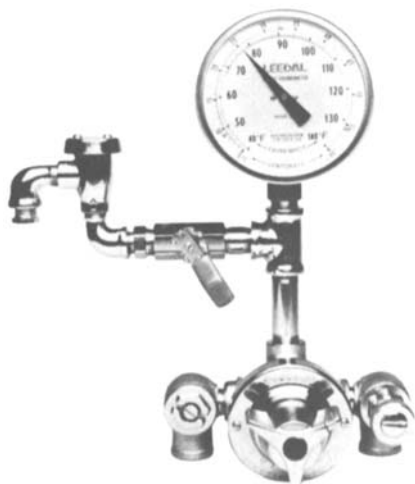
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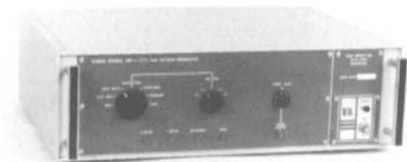
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of 200Ω to 20 MΩ. Maximum indication is 1999 to -1999. Price of Model MC-535 is \$200. Also available is Model MC-536, an auto-ranging model where auto-ranging is provided for dcV, acV, and ohms. It is priced at \$250.



A thermostatic water mixing control, designed to maintain accurate water temperature for processing films and prints, was announced by Leedal Inc., 1918 S. Prairie Ave., Chicago, IL 60616. Model 4629 features a 5-in thermometer dial with large, easy-to-read markings that range from 40° to 140°F. It maintains an accuracy of $\pm \frac{1}{2}^\circ\text{F}$ and automatically compensates for the usual fluctuations in water supply or temperature. It protects against hot water damage by automatically shutting off if cold water fails. A choice of flow ranges are available, including $\frac{1}{2}$ to 2 gal/min for processors. The price range of the thermostatic water mixing control is \$330 to \$400.



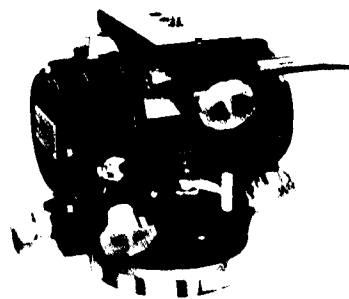
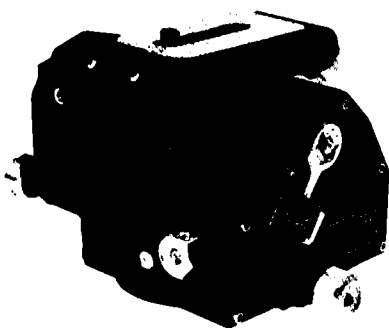
Signal Source 1201, designed to offer a complete set of video test patterns in a basic form, has been announced by Visual Information Institute, Inc., P.O. Box 33, Xenia, OH 45385. Functions include Bar, Dot, Resolution, Gray Scale, Window, and Flat Field for evaluation of monochrome displays. Provision is included for the addition of Color Bars for use of the instrument with RGB color display devices. It can be calibrated for use at any one scan rate from 525 to 1225. An optional accessory synchronizing generator can be installed inside the generator for completely independent operation. The output is

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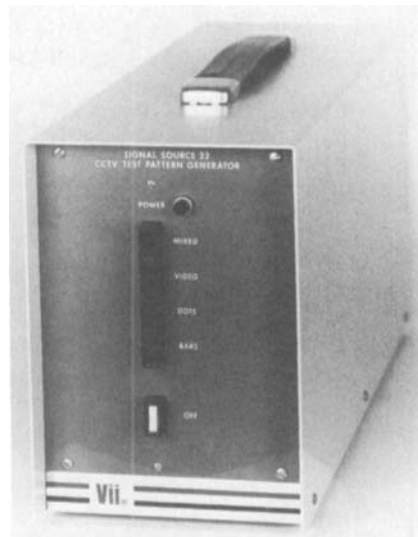


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a composite video signal, typically with 10 ns rise and fall times. The source is terminated at 75Ω for proper drive of a coaxial cable. Signal Source 1201 is priced at \$2300.



Signal Source 22 has been completely redesigned to include updated circuitry on printed cards, according to an announcement from Visual Information Institute, Inc., P.O. Box 33, Xenia, OH 45385. Circuits have been designed to offer faster video rise times with resolution output of up to 1000 television lines at scan rates of up to 1225. Functions include Bars and Dots for display linearity and size setup and a Video function which displays Resolution bursts, a Black Reference (Pluge) segment, and Gray Scale all on each horizontal scanning line, making it possible to evaluate all critical parameters simultaneously for quality. In the Mixed mode Dots are added to Video to permit complete display analysis from one single test pattern. The expanded Black Reference segment is significant

in that black level can be set quite accurately without the danger of clipping off lower gray scale steps, as can occur without a suitable reference signal. Signal Source 22 is priced at \$1900.



A flatbed slide editor that projects 35mm or super slides onto a self-contained rear projection screen without the use of trays or changer mechanisms has been announced by Super O Corp., 431 Midland Ave., Saddle Brook, NJ 07662. The device, designated the Slide Analyzer[®], has a versatile flatbed design. Slides can be moved back and forth, rotated, or flipped by fingertip while being viewed on the screen. A built-in holder accepts filters, masks, or lenses to preview special effects. The optical system consists of an $f/3.5$ aperture with matched condenser and a dichroic cold mirror. It uses an ELH lamp cooled by a cowled fan. The system is priced at \$300. Various accessories are available.

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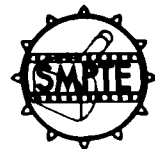
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