

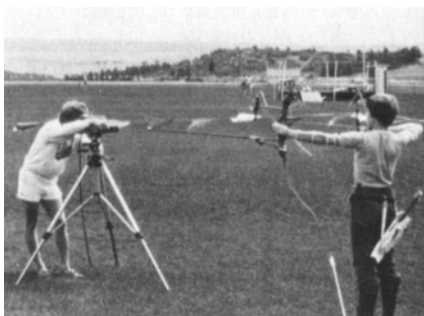
NEW PRODUCTS

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.



Skymount, Cinema Products Corp.

The Skymount, a camera mounting and stabilizing system designed for use on various makes of helicopters, has been announced by Cinema Products Corp., 2037 Granville Ave., Los Angeles, CA 90025, exclusive U.S. distributor. The lightweight device can be used with all ENG video cameras, and most portable 16-mm and 35-mm cameras, as well as still cameras. Skymount is built around the principle of precisely balanced tension. Its counter-sprung system achieves maximum stability without excessive weight. Most of the vibration generated by the helicopter is absorbed before reaching the camera. Depending on the aircraft, Skymount's base interface units allow the cameraman considerable latitude in the choice of camera positions and flight pattern. Various adjustments can be made in both the main support arm and the camera arm so the operator can choose the optimum working position for the camera according to its shape and viewfinder height.

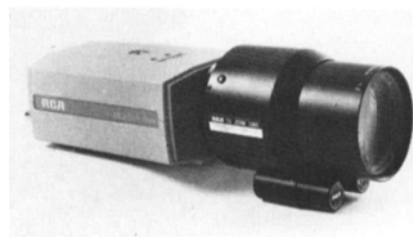


SP2000 system camera aimed at archer, Eastman Kodak Co. and Spin Physics

The SP2000™ motion analysis system described as "the world's fastest" slow-motion and instant-replay device, has three components described as "major breakthroughs." The first is the system's solid-

state sensor, a development of Kodak Research Laboratories; the second, a high-density recording tape, developed with an assist from Kodak-Pathe in France; and the third, the precision magnetic recording heads developed by Spin Physics in San Diego, Calif. Spin Physics specializes in research and development in the area of magnetic recording and storage. Advanced technology has been successfully applied to the SP2000 system, enabling it to record up to 12,000 pictures/sec while maintaining the capability of instant slow-motion replay, and on-the-spot viewing. Thus, the SP2000 can break a second's worth of motion into 12,000 images, fast enough to freeze the wings of a hummingbird.

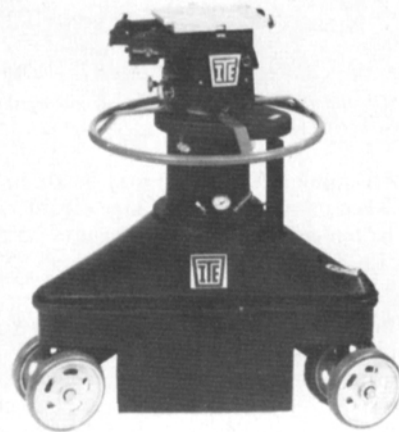
Among applications suggested for the system, one of the most important is that of a training aid for athletes. A mobile laboratory for recording and analyzing motion, and evaluating the performance of athletes, is equipped with the complete SP2000 system, two solid-state video cameras, an analyzer console with a 12-in. diagonal monitor screen, and an additional television monitor. The fast and exacting sport of archery was considered well-suited for analysis. The dual camera mode permitted simultaneous recording of the archer's movements from two different angles. The first view was that of the archer's figures as they released the arrow. The second view, from the top of the vehicle, showed bow orientation during release and the trajectory of the arrow. The archer then returned to the vehicle to study his form for possible errors, using the immediate playback capability of the system.



TC2900 closed-circuit TV camera, RCA Corp.

The TC2900 series of all-solid-state high-sensitivity CCTV cameras for nighttime surveillance and industrial applications has been announced by RCA Closed-Circuit Video Equipment, New Holland Ave., P.O. Box 3134, Lancaster, PA 17604. The heart of the new camera is a 1/2-in. CCD (charge-coupled device) imager containing 206,336 picture elements. This device is used in place of the conventional vidicon tube. The CCD imager provides pictures with no burn, lag, image retention, or geometric distortion. It is unaffected by

strong magnetic fields and has high resistance to vibration and shock. The cameras use large-scale integration technology and incorporate most circuit functions on only three integrated circuits.



Pneumatic studio pedestal, Innovative Television Equipment

A pneumatic studio pedestal, and a heavy-duty, fluid drag counterbalanced pan-and-tilt camera head have been announced by Innovative Television Equipment, P.O. Box 681, 6445 De Soto Ave., Woodland Hills, CA 91365. Designated the ITE-P1, the pedestal incorporates computer-assisted design parameters, and offers a virtually leakproof pneumatic counterbalance system for safe operation. The counterbalance system utilizes fingertip control, and handles camera load up to 290 lb. The elevation range is from 28 to 52 in. Vertical and horizontal movement is controlled by a steering wheel 26-in. in diameter.



XES-100A exciter supply, Xetron Corp.

An ac-dc exciter supply for use with professional motion-picture projectors, called the XES-100A series, has been announced by Xetron Corp., Ten Saddle Rd., Cedar Knolls, NJ 07927. Features include continuously variable outputs: dc 0-10 V, ac 0-10 V, both 0-6 A; protected input; 0.5% ripple in dc mode; continuous duty; and compact design.

A high-speed video recording camera, the NAC Model V-14, has been announced by Instrumentation Marketing Corp., 820 S. Mariposa St., Burbank, CA 91506. The camera is designed specifically for airborne and field video instrumentation. It operates at 200 or 60 fields/sec by switch selection, and has variable shutter speeds up to 1/10,000 sec with shutter phase lock to



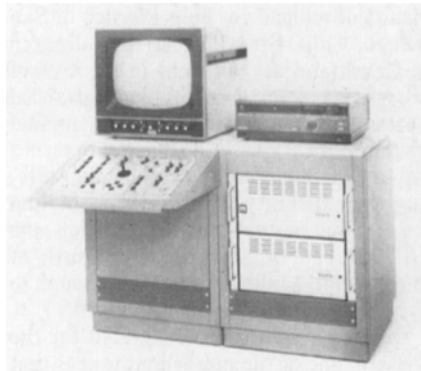
MOS Video recording camera, Instrumentation Marketing Corp.

IRIG timing. Recording may be accomplished on standard VHS tape recorders. The camera is ruggedized, measures 3.5 X 4.5 X 8.8 in., and weighs 4.5 lb.

The Director, and the Translator, micro-processor-based looping controllers used in the process of automatic dialogue replacement (ADR), have been announced by United Media Inc., 4075 Leaverton Court, Anaheim, CA 92807. These devices tie audio to video with full on-line editing capability. Functions include high-speed rock-and-roll of tape and picture, storing loop input and output points, and recording each cue point as an automatic re-assembly point for editing. The entire ADR can be preprogrammed using frame-by-frame SMPTE time-code cueing. All data are stored on floppy disk for backup. The operator can, through the captive memory,

scroll back through for cue review, or play through the tape. Both audible beeps and visual wipes are produced. The Director can be equipped with CRT video display, and/or a high-speed printer for expanded review capability.

The Translator incorporates those Director's functions that are required for recording cues, thus allowing the operator to pre-program the production via off-line cue recording.



Videometrics/200 video analysis system, Instrumentation Marketing Corp.

The Videometrics/200 video analysis system has been announced by Instrumentation Marketing Corp., 820 S. Mariposa St., Burbank, CA 91506. A complete stand-alone system, the Videometrics/200 allows

an operator to digitize coordinate information in successive fields of a video signal. It may include a videodisk with chroma processor and monitor which provides viewing and analyzing video in real time, or under operator-controlled field step rates. An RS-232C port provides for the transmission of digitized coordinate information to an external computer for further processing.

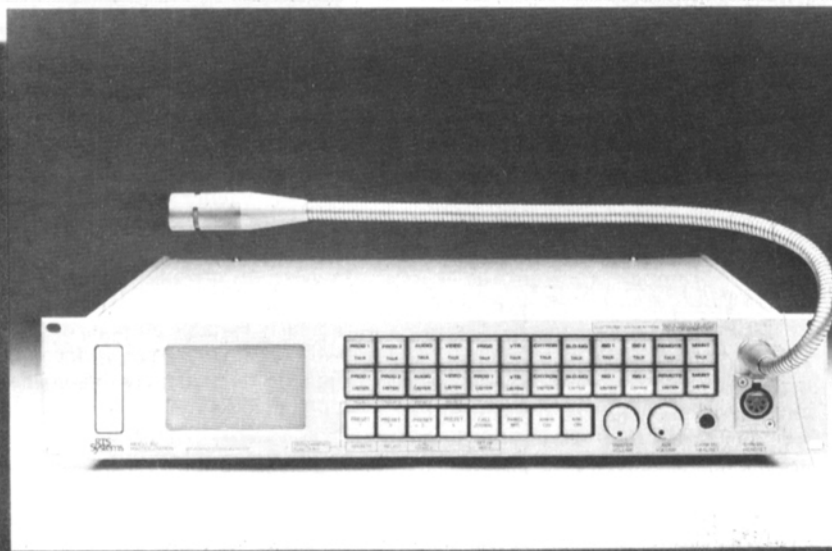


LHC-909 for checking video head wear, Leader Instruments Corp.

A device for electronically checking videotape recorder head wear has been announced by Leader Instruments Corp., 380

We call it the intelligent choice. You'll call it

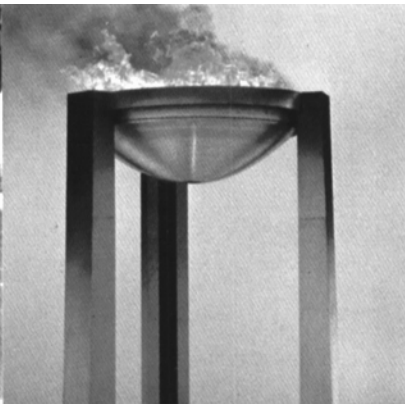
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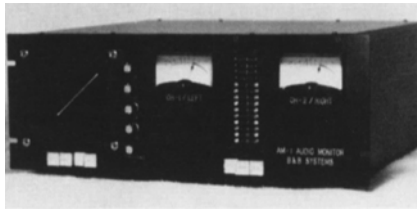
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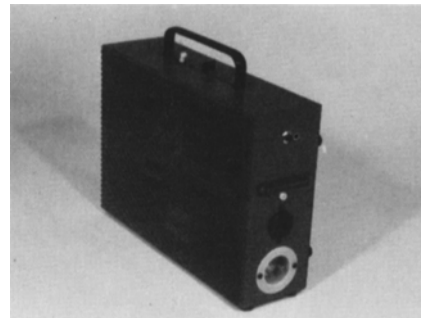
Oser Ave., Hauppauge, NY 11788. Designated the LHC-909, the instrument measures the inductance of the video head, using a bridge-type inductance meter with a 1-MHz test signal. Three measurement ranges are available. The analog meter scale "7 to 0" indicates head wear. Typically, any reading below "0" indicates the heads require replacement. Two versions are available, LHC-909B for Beta and U-Matic, and the LHC-909V for VHS.

The AM-1, a stereo audio and time-code phase verification system, has been announced by B & B Systems, 28111 N. Ave. Stanford, Valencia, CA 91355. The X-Y



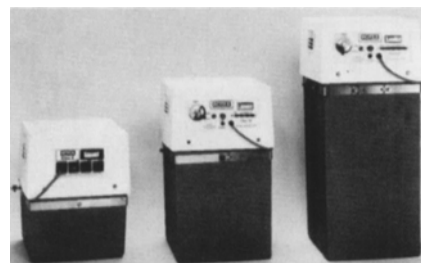
AM-1 stereo audio and time-code phase verification system, B & B Systems

scope shows stereo phase and separation. The field-locked scope display shows time-code phase and genlock. Features include separate peak and average audio level meters and scope display of left and right audio channels.



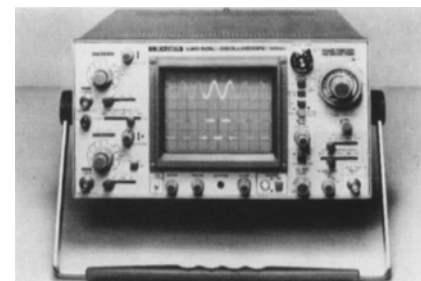
Self-contained dimmer, Theatre Techniques, Inc.

A single, self-contained, 2400-W dimmer has been announced by Theatre Techniques, Inc., 60 Connolly Pkwy., Hamden, CT 06514. Designated the GDI, the portable unit is equipped with the TTI Model-E dimmer. Built-in control provides for a stand-alone unit. Each unit is fully filtered and regulated, and carries short-circuit protection.



Silver recovery systems, The Allen Products Co.

Three automatic silver recovery systems have been announced by The Allen Products Co., 180 Wampus Lane, Milford, CT 06460. Designed to remove silver from the fixer overflow of automatically replenished processors, the units are adaptable to batch recovery with other processing systems. They have automatic power controls and make de-silvering the reusable cathode a five-minute job. The three units have tank capacities of 0.5, 1.5, and 0.3 troy oz per hour, and plating currents of 4, 8, and 24 A.



Two-channel oscilloscope, Leader Instruments Corp.

A 50-MHz, two-channel oscilloscope, the LBO-525L, has been announced by Leader Instruments Corp., 380 Oser Ave., Hauppauge, NY 11788. The oscilloscope has a delayed time base with both run-after-A and trigger-after-A modes for jitter-free

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When there's no light at the end of the tunnel

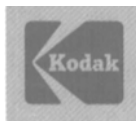
you can count on Eastman color high speed negative film 5294 to capture realistic and dramatic details—despite extreme low-light conditions. This new, fastest-available color motion picture negative film has an exposure index rating of 400! It can picture almost anything. No other film can.



EASTMAN Color High Speed Negative Film 5294

allows you to film dimly lit situations without compromise. Whether you're shooting for theatrical release or television, your gaffer can use less supplemental lighting to create the special atmosphere you desire.

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*Eastman film —
the imperative, not the alternative.*

For more information including complete technical data, contact your Eastman Kodak Company sales and engineering representative.

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HOW TO AVOID A FORMAT FAUX PAS.

There has been mounting confusion over which combination camera/recorder format to choose. And for obvious reasons. With the addition of so many new formats, nobody wants to make a mistake that can range from thousands to millions of dollars.

But if you follow these simple steps, you'll never get caught with your wallet, or your neck, in the proverbial wringer. **LOOK FOR EVOLUTION. NOT REVOLUTION.**

Apparently, many manufacturers feel it's in their best interest to have you replace your existing U-matic™ equipment with their new stand-alone systems.

At Sony, we think it's foolhardy to leave you no option but to make a 180° turn and orphan your existing editing suite. So we designed Betacam™ as an evolutionary system. One that easily and efficiently plugs into what's come before.

This Sony theory of peaceful coexistence allows you to enter the world of one-piece camera/recorders at your own pace. And in this way you not only protect your existing

U-matic investment. You gain field equipment that's more compact and portable, and a dramatic improvement in technical performance. Furthermore, dramatic improvements are also on the horizon for Sony U-matic. The evolution of both these formats is planned and it's total.

FIND A ½" SYSTEM THAT'S WHOLE.

For those of you who want to capitalize on the outstanding technical performance of an overall ½" system, scrutinize carefully the complete system from Sony.

After all, who else has a portable color field player like our BVW 20? Or our ½" edit-recorder, the BVW 40, which looks and feels like the Sony U-matic equipment you're accustomed to using? And who else promises an ongoing commitment to ½" system expansion and refinements that you will see next year and every other year?

BE PENNY-WISE

WITHOUT BEING POUND-FOOLISH.

The Sony Betacam system has proven itself on both the



firing line in Nicaragua and the fifty-yard line at the Super Bowl.

That's because our format was chosen to be optimum for both ENG and EFP, which is why Betacam is not just the lightest, smallest, most compact 1/2" system you can buy (as well as the least expensive), but its picture quality rivals 1".

Whatever you've been told you might gain from the various 1/4" formats, when and if they become available, will be totally erased by the fact that 1/4" is not at all suitable for high-quality EFP. Which means, if you purchase 1/4" for ENG, you'll no doubt have to purchase an entire new system for field production.

THERE'S SAFETY IN NUMBERS.

With over 1,000 Betacams already sold to key end users, Betacam is virtually the worldwide de facto standard now.

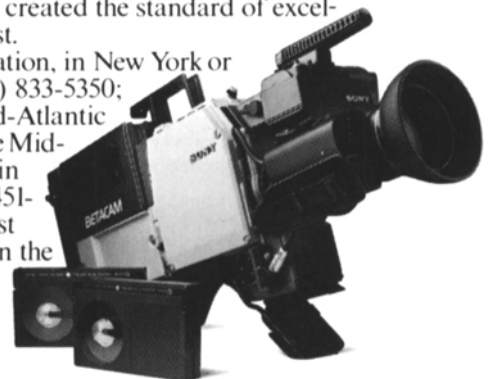
We believe Betacam is outselling all the others by such a wide margin because it's better than all the others by such a wide margin. It's the only camera/recorder that focuses on the big picture. A picture that includes your existing investment;

your need for both ENG and EFP; your desire for light weight and high quality; and a total system approach.

If you want to make sure you'll own the standard of excellence in the years ahead, insist on the camera/recorder from the people who created the standard of excellence in the years past.

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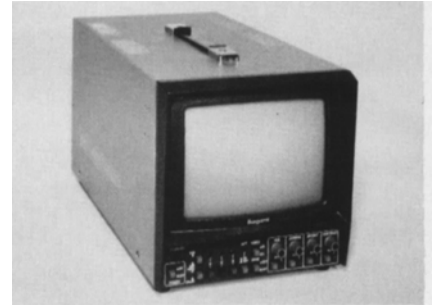
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operation. It has 500 μ V maximum sensitivity and 20 nsec maximum sweep speed which permit analysis of low-level and high-frequency signals, while still offering a maximum input rating of 500 V (dc plus ac peak). Features include an illuminated internal graticule for precise measurements and photography, and 12 kV CRT accelerating potential for maximum trace intensity even when observing transients at high sweep speeds. The LBO-525L has alternate triggering capability allowing the simultaneous display of two asynchronous signals.



TV monitor, Ikegami Electronics (USA) Inc.

A high-resolution 9-in. color TV monitor, Model TM9-9RH, designed for studio and mobile use, has been announced by Ikegami Electronics (USA) Inc., 37 Brook Ave., Maywood, NJ 07607. Features include advanced circuitry and inline gun, and self-converging high-resolution shadow-mask picture tubes with matched phosphors. The need for magnetic-convergence adjustments due to variations with temperature and time has been eliminated. The monitor can be operated from the ac power line at 9-130 V, or from 10-28 V dc through the use of a built-in dc-dc converter. A black-matrix screen enables the display of pictures with a high degree of contrast even under bright lights. Close spacing of the phosphor dots provides 600-line resolution. Other features include dual video (A/B) inputs; internal/external sync; pulse-cross display; preset control of contrast, chroma, brightness, and hue; and remote operation of video signal, sync mode, and color/monochrome switch.

Two power meters, Models 6950 and 6960, have been announced by Marconi Instruments, 100 Stonehurst Court, Northvale, NJ 07647. Features include fast response times, low measurement and instrumentation error, and flexible operation. The 10-MHz to 20-GHz frequency coverage of the associated sensor, 6910, includes the 19-GHz telecommunications band. True rms power readings are provided over the 50-dB range, from 1 μ W to 100 mW.

Also announced was the Model 6500 automatic amplitude analyzer, which is a scalar analyzer giving on-screen graphics, thus simplifying use and enhancing accuracy. Automatic amplitude and frequency

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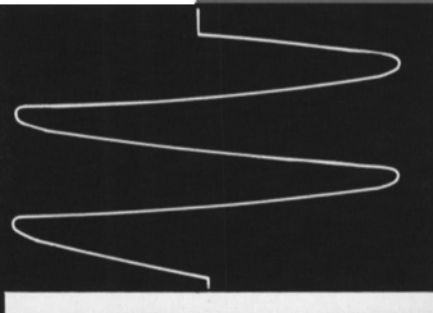
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TG-7 TEST SIGNAL GENERATOR

The TG-7 TEST SIGNAL GENERATOR is a unique system which contains a total of 48 different signals and functions and may also be completely automated with the optional IEEE-488 interface bus. Because of its modular design, you may select the perfect configuration for your facility and then expand at any time. Its special features are . . .

- A main frame with sync generator, color lock, gen lock with the VBS or sync with color burst.
- Chroma phase may be varied 360°
- Signals may be remote controlled by using the optional IEEE-488 interface bus.
- Seven modules are available: LINEARITY, SIN², COLOR BAR (10 signals), SINE WAVE, SQUARE WAVE, NOISE TEST, and a VITS Generator.
- Complete drives system (VBS), Sync, Black Burst, Sub Carrier, Burst Flag, and Blanking - Stability of ± 5Hz.
- Output amplifier with R-Y, B-Y modulator is built into the main frame and allows variations of the Burst, Luminance, Chroma, Sync, and pedestal level, available in NTSC and PAL.

226 COLOR BAR GENERATOR

The 226 is a COLOR BAR GENERATOR designed for use as a testing and adjustment device for ENG applications. The unit contains split field color bars and a programmable prom to generate station identification as well as a 1 KHz oscillator and a 0dBm output signal at 600 ohms. The 226 may be operated on both AC or DC power and it is available in NTSC only.



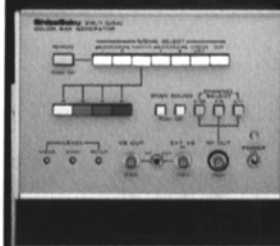
CB53A1 COLOR BAR GENERATOR CHARACTER GENERATOR

The CB5 3A1 combines a COLOR BAR GENERATOR and CHARACTER GENERATOR in one versatile instrument you can take right into the field for remotes and on-location shooting. It generates SMPTE and Y/REF color bars, plus red bar, black burst, multiburst, cross-hatch and dot signals. Standard NTSC sync signals and the gen-lock function are built in. You can insert character information into each signal using a special keyboard with Random Access Memory that retains the signals even if your power is lost. The CB53A1 gives you a total of 31 character spaces on 2 lines.

- Black burst output.
- Selectable black or white background, four characters.
- External or internal switching for video and audio signals.
- Output range of +8 dBm ~ -50 dBm for 400 Hz and 1 kHz audio signals.
- RF signal on USA channels 3, 4 and 6.
- AC-DC operation.
- Available in NTSC.

216 COLOR BAR GENERATOR

The 216 COLOR BAR GENERATOR is adaptable to all video service applications. It contains 2 color bar signals, Red, Green, Blue, & White Rasters, and 4 cross hatch & dot patterns. With this versatile instrument, you may obtain a video output as well as use the unit as a TV channel modulator with an internal or external video signal (2 VHF, 1 UHF). For audio, a one KHz signal is generated internally and modulated to form an RF signal. The 216 is available in NTSC, PAL B, M, N, and SECAM.



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