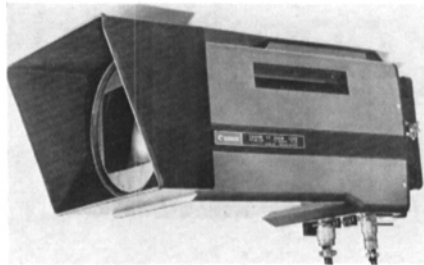
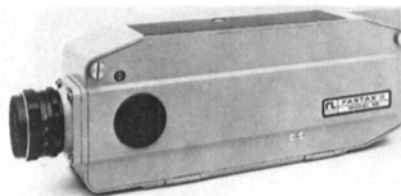


New Products & Developments

Further information about these items can be obtained direct 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.



Erratum: June 1976 *Journal*, p. 442, 1st col, 1st item, "The new Canon 18X broadcast studio lenses announced by Canon, U.S.A. Inc. . . ." The photograph of the Canon 18X lens was inadvertently printed upside down. The photograph appears above in the correct position.



The new Fastax® II, a high-speed, 16mm camera with a rotating prism and a frame rate of 100 to 6000 pictures/s, has been announced by Redlake Corp., 2991 Corvin Dr., Santa Clara, CA 95051. The new camera is built to combine the light transmission (natural aperture $f/2.7$) of the original Fastax with a modern built-in electronic speed control and servo brake system similar to the firm's Hycam. Applications for the Fastax II include outdoor high-speed studies such as automobile safety, high-velocity sled tracks, frame equipment testing and government test-range photography. The new camera is lightweight and compact, with controls located on the rear panel. It is said to be rugged enough for use in severe high-G applications. It has been tested and found dependable in 50-G environments.

Other features of the camera include easily interchangeable lens mounts for Pentax, Fastax and Illex lenses; direct-reading digital switches for accurate frame-rate and event synchronization settings and a detachable boresight for fast through-the-lens focusing and alignment. The price of \$4000 includes choice of one of the three lens plates and mating electrical connections.



A new version of the Insta-Load 16mm projector (above) has been announced by Singer Education Systems, Rochester, NY 14603. Features include automatic loop resetting, rack-and-pinion focusing, a hi/lo lamp switch, numbered

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Whatever happened to the concept of TV news as an important public service?

It was only natural that the advent of ENG would generate a great deal of excitement. Because, conceivably, for the very first time, television news could begin to compete with radio news in terms of immediacy. The ENG minicams made it possible to transmit live coverage of 'action news' as it happens. And the live coverage of the SLA Shootout made television history!

Unfortunately, it also unleashed a form of ENG hysteria bordering on dementia. To extrapolate this unique SLA Shootout-type situation to every other type of news coverage — from minor local stories to in-depth news documentaries — is invalid in the extreme.

A new mentality — a 'minicam mentality' — seems to have invaded television news. A self-serving mentality that insists that all stations must go all-electronic regardless of news-worthiness or cost effectiveness.

Whatever happened to the concept of TV news as an important *public service* — which is what serious news programming is supposed to be all about?

It is no secret that one of the first true casualties of this new 'minicam mentality' is an O&O's local evening news program in Los Angeles, for many years one of the most respected and admired news programs in the area.

It is indeed a strange mentality that will not recognize that a 'Top 20 News' approach has reduced this TV news program to a headline service at best.

... a mentality that condescendingly presumes that the average viewer has an attention span of 8 seconds, and an insatiable appetite for all the fires,



Ed DiGiulio, President of Cinema Products Corp., rapping with TV-news cameramen at the National Association of Press Photographers conference in Atlanta.

accidents and murders that can possibly be covered — preferably live — during the scheduled news hour.

... a mentality that deems it desirable to fire up to 50% of a station's veteran TV-journalists, and by going fully electronic, to mechanize and computerize the news gathering process to where the reporter may become no more than a puppet at the end of a microphone!

It is a vacuous 'minicam mentality' that would judge a newscaster's performance by measuring (through some dubious 'skin test' response) an audience's reaction to his TV screen personality, rather than evaluate his effectiveness as a journalist performing an important public service.

As if the name of the game in television news is purely showbiz and higher ratings! (Interestingly enough, this O&O's evening news program is still very much behind in the daily ratings!)

And yet, all the hoopla and ballyhoo in support of going all ENG continues unabated. For the 'minicam mentality' refuses to recognize that the recording and transmitting paraphernalia of ENG still make it far less portable and versatile than a newsfilm camera,

and would have us believe that merely speeding up the news is in the public interest.

What it really aims to do is provide us with an electronic brand of 'instant news'— cosmetic, pretty packaging (with blood and gore, to be sure), but without any substance.

Needless to say, this is patent nonsense. Any real newsman knows it! And so do serious station owners and managers who won't let themselves be sold a bill of goods and be made suckers for a fad!

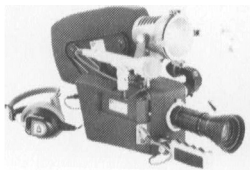
If your main concern is better TV news coverage and more in-depth news stories rather than blind pursuit of the latest equipment fad — before you commit yourself to a capital outlay of \$200,000 or more per quality ENG outfit (complete with van and microwave transmitting equipment) — do consider what a reliable and efficient CP-16R/A can accomplish at about one twentieth of the cost!

For the fact of the matter is that there is not one single ENG camera on the market today that can match our completely self-contained, single-system CP-16R/A camera for quality, mobility, and cost effectiveness!

As for performance, there is no way an ENG crew can cover a fast-moving news situation, or move into a crowd and become part of the developing action in the manner of a TV-journalist operating a CP-16R/A newsfilm camera 'one-man-band' style.

This is one in a series of 'open letters' to the TV news industry—to station owners, managers, chief engineers, news directors, controllers and accountants — dealing with the role of ENG in relation to film in a news gathering operation.

If you have any question concerning the issues raised in these 'open letters,' please feel free to call me directly at Cinema Products.



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Ed DiGiulio

film-path threading stations, in-path fast forward and fast rewind, automatic film counter, single-lever projection control action, full pushbutton control console and a 5-in heavy duty PM speaker. To ensure film safety, a built-in interlock light regulates pushbutton and lever functions during fast-mode operations.

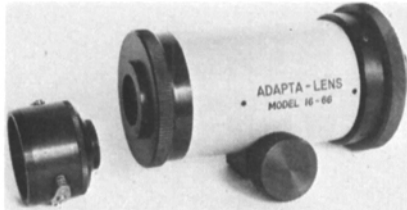
Also announced by Singer Education Systems was the Insta-Load 35, a new 35mm sound/filmstrip projector that provides both front and rear screen projection. In addition to its dual projection capability, the Insta-Load 35 features a cartridge loading concept to ensure fast, safe film loading. High-impact acrylic cartridges are "snap-in" types holding up to 250 frames and may be used as semi-permanent attachments or removed for convenient filmstrip storage.



New families of wireless audiovisual remote control systems and random-access digital remote control systems have been announced by International Visual Products, Inc., 111 Galway Pl., Teaneck, NJ 07666. The wireless 400 series (WR400) offers four portable models for multi-media applications. The WR410 is the simplest system, controlling 10 functions from audio and/or videotape recorders, film projectors and complete industrial systems to the

controlling of environmental factors such as lights, draperies and motorized screens. Models 420, 430 and 440 control 20, 30 and 40 functions respectively. Prices for the WR series begin at \$1295 for the WR410.

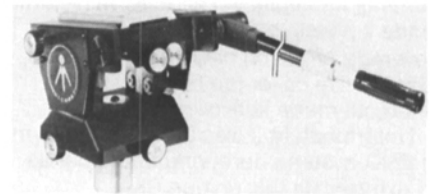
The Dicon system is the basic system in the IVP digital family. It controls 10 auxiliary functions with memory and programming capabilities and is the basis for expansion into other controls. The more advanced controls are the Random Access Systems. The systems allow for slides on a carousel to be viewed in any numerical sequence. Two models have fade dissolve capability. The RA160 operates two Random Access projectors with 10 auxiliary functions and the RA320 operates four projectors. The RA330 provides random access control of three projectors for three-screen presentations. The price range is from \$5490 to \$9465.



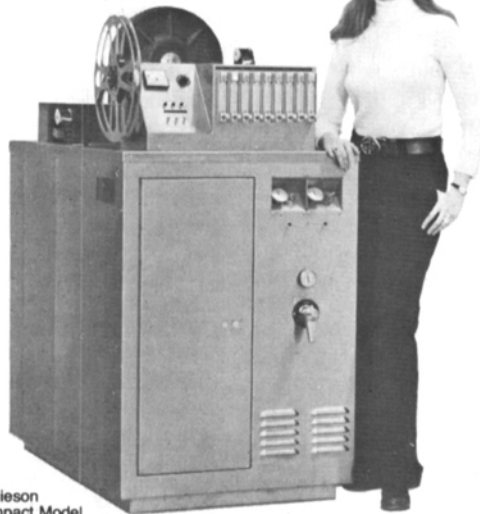
A new version of the Adapta-Lens designated Model 16-66 has been announced by Warren R. Smith Co., 8-09 Fern St., Fair Lawn, NJ 07410. Designed especially for electronic newsgathering (ENG) cameras, the Adapta-Lens permits the use of a wide variety of 16mm motion-picture lenses without loss of light or color fidelity and

without distortion or vignetting. The new Model 16-66 is designed to allow the new TV news-gathering cameras to take advantage of the full range of 16mm cinematographic lenses and possibilities including extreme wide angle, macro and special-effects shots not possible with the normal TV zoom lenses. The Adapta-Lens also enables the TV camera to be interfaced with microscopes, endoscopes and other optical equipment. All professional lenses as well as specialized lenses can be used with the Adapta-Lens. The lens can also double as a diaphragm by replacing the field lens with registration and step-wedge slides. A 35mm slide attachment is available to permit integration of production titles and products.

Non-adjustable lenses and camera mounts are used for simplicity and rigidity. The focus for each lens in use is accomplished by a knob controlling the internal optical elements. Removable field lenses facilitate cleaning. A filter slide is built in for N.D. or color compensation. The base price of \$1500 includes a standard "C" mount. Specialized mounts are available as options. Iris control and remote focus are also available.



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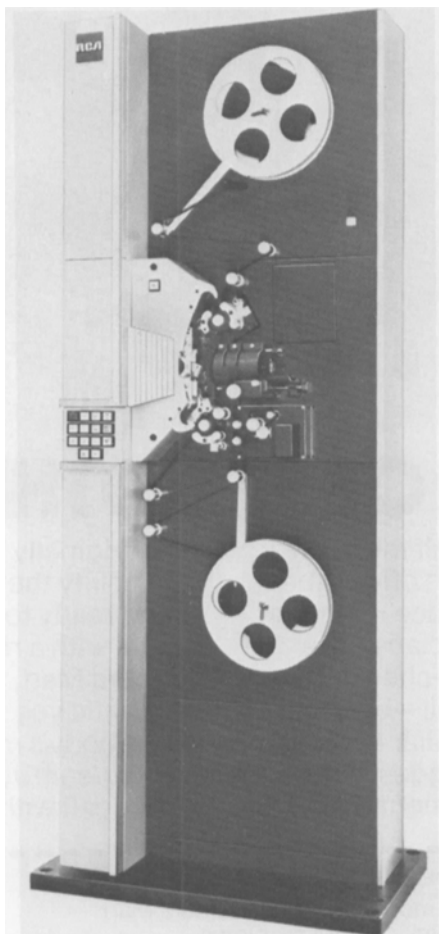
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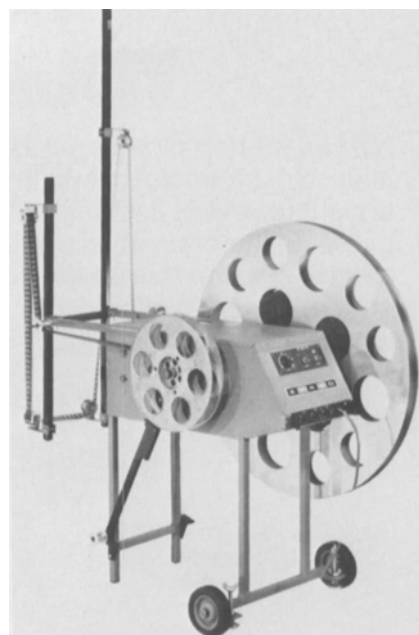


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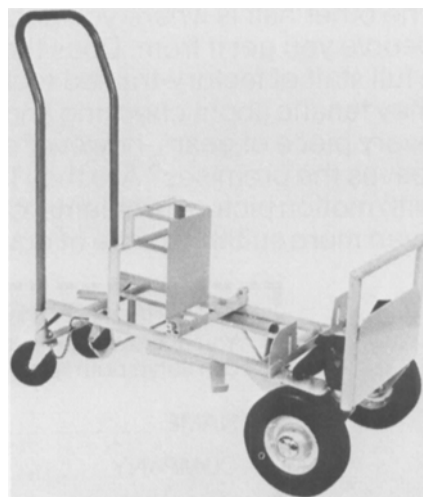
units with enough reserve capacity for large zoom lenses, teleprompters or other on-the-camera accessories, has been announced by Quick-Set, Inc., 3650 Woodhead Dr., Northbrook, IL 60062. The new cam head weighs 25.5 lb (11.6 kg) and has a load capacity of 140 lb. It is said to offer total critical adjustment and to provide smooth panning even under maximum load. Tilting to 50° up and down is achieved by dual interchangeable cams to counterbalance the camera load. Drag controls are easily accessible on both pan and tilt to allow for the operator's preference. Set for dual handle operation, the Hercules Cam Head uses the Quick-Set patented Quick-On dovetail camera plate designed to allow any camera to be balanced quickly without tedious resetting. The head is 8½ in high, 9½ in wide and 9½ in long (21.6 × 24.1 × 24.1 cm). It can rotate a full 360°. The base price is about \$675. Optional accessories include a second telescoping control arm, a wedge plate and a wedge-plate adapter.



A new servo-controlled 35mm film projector, the FR-35A, has been announced by RCA Photophone, 2700 W. Olive Ave., Burbank, CA 91505. Features include instant stop and start; variable-speed operation (0 to 48 frames/s); and freeze frame. The projector operates at normal cine speed or high speed (6 × cine) in forward and reverse modes. Applications include film post-production and film-to-tape transfer. The servo-controlled operation of the FR-35A permits precision registration of the picture at the gate; good sound reproduction and high-speed operation. For telecine use, the projector locks to line, TV vertical sync or external drive source. Base price of the FR-35A is \$35,000. A number of optional accessories are available.



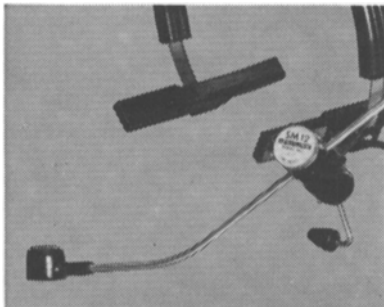
A portable film-handling device designated DBL-MUT (double make-up table) has been announced by Eprad Inc., P.O. Box 4712, 123 West Woodruff, Toledo, OH 43620. The device can function as a large-reel film transport (up to 4½ h of film on 48-in reels), as a make-up bench, or as a rewind bench. The design and operation are straightforward. Features include two dancer arm power supplies, two vertical film roller trees with aluminum rollers on bearings and variable-speed control to permit functioning as a stand-alone film transport, a rewind bench or an interdependent film-handling device to any existing pedestal. The dancer arms are designed to protect the film by maintaining a constant 8-oz film tension. Shutoff is automatic if the film breaks. The unit includes standard spindles (⅜- and/or ½-in shaft). Options include an extra ⅜-in spindle and 36-, 40-, and 48-in reels. Basic price of the DBL-MUT is \$1776.



The Video Crash Cart announced by Camera Mart, 456 W. 55 St., New York, NY, is designed to make the firm's ENG package even more portable for easier transportation and longer use without fatigue. The cart has a rugged frame of welded, tubular steel, configured to transport and protect the Sony VO-3800 videocassette recorder, two extra cassettes, a Sony AC-3000 ac adapter, the backpack for an Ikegami HL-33 or HL-35 color camera, plus 50 ft of connecting cable. The equipment is held in



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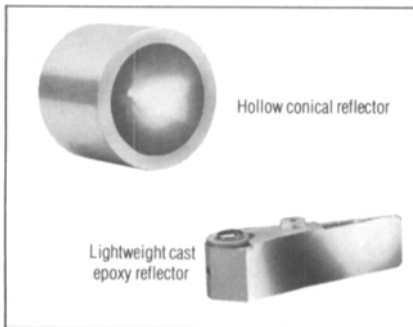
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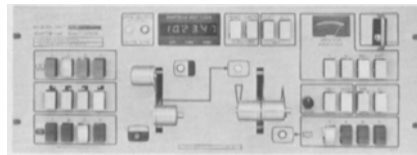


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sturdy mounting brackets by heavy straps designed for easy installation and removal. The cart has two oversize rubber-tired wheels, two swivelling casters and a repositionable handle enabling it to be operated in either an upright "handtruck" or horizontal "dolly" position. The Video Crash Cart is priced at about \$495. A separate protective cover for the Sony VO-3800 is available at a price of \$79.



The Model 361 Basic Four Switcher and the Model 367 Color Edit Code Switcher have been announced by Shintron, 144 Rogers St., Cambridge, MA 02142. The Model 361, a monochrome switcher, features a three-bus structure to provide dissolve to effects operation. The switcher has an internal RS-330 sync generator with genlock and any one of the four inputs may be used as a genlock source. The rear panel is equipped with BNC, Sony Hirschman (DIN) and Panasonic Hirose connectors. Total vertical interval switching is achieved by lighted momentary contact pushbuttons. Model 361 has six effects patterns. It fits in a 19-in rack mount. The price is \$1320.

The Model 367, a chromatic switcher, features a color switcher/fader with all vertical interval switching; six wipe patterns; and dissolve and key. It has a color NTSC genlock sync generator that genlocks to helical VTR signals or generates NTSC sync and has a built-in SMPTE edit code generator/reader. Of compact design, Model 367 is designed especially for use in mobile teleproduction vans and ENG systems as well as in the studio. The switcher package allows the user: (1) to switch and perform effects with up to four synchronous inputs plus an external key source; (2) to insert the

SMPTE code on the videotape while the taping is in process; (3) to read back the SMPTE code for obtaining an exact reference of the portion of the tape which is being played back; and (4) to genlock to prerecorded tapes for driving cameras. Titles may be keyed over the videotape or the tape may be used as a source and wiped or dissolved with a live source. Price of Model 367 is \$4320.



A special television control system described as a precision color phasing system has been developed by Leitch Video Ltd., 705 Progress Ave., Scarborough, Ont., Can. The system was used at the XX1st Olympiad at Montreal by the Olympic Radio & Television Organization (ORTO) at more than 20 locations where television pictures were originated by ORTO, the pictures appearing in "flawless" NTSC regardless of the type of color camera used. The

STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION

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B. Paid circulation		
1. Sales through dealers and carriers, street vendors and counter sales	None	None
2. Mail subscriptions	9,264*	9,271†
C. Total paid circulation (Sum of 10B1 and 10B2)	9,264*	9,271†
D. Free distribution by mail, carrier or other means: samples, complimentary, and other free copies	489*	577†
E. Total distribution (Sum of C and D)	9,753*	9,848†
F. Copies not distributed		
1. Office use, left over, unaccounted, spoiled after printing	1,362*	972†
2. Returns from news agents	None	None
G. Total (Sum of E, F1 and 2—should equal net press run shown in A)	11,115*	10,820†

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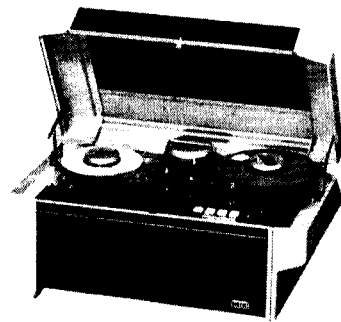
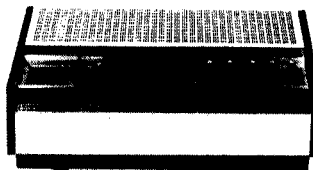
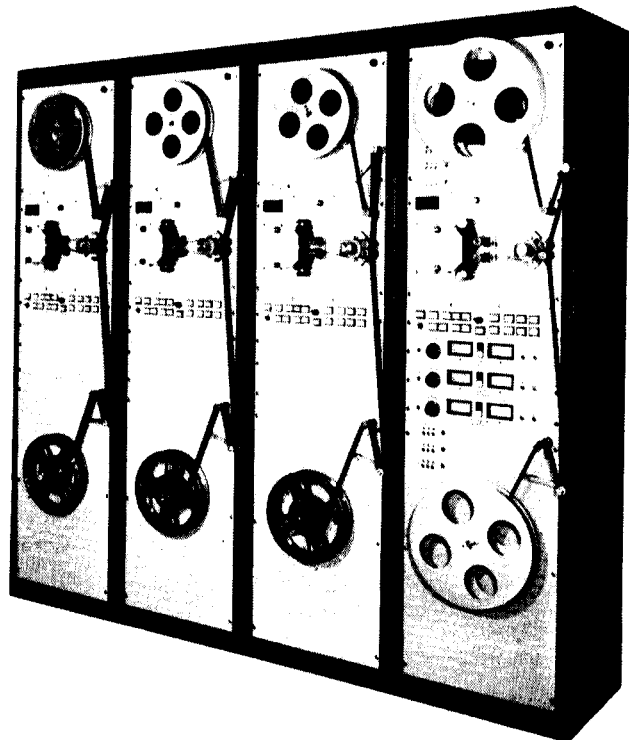
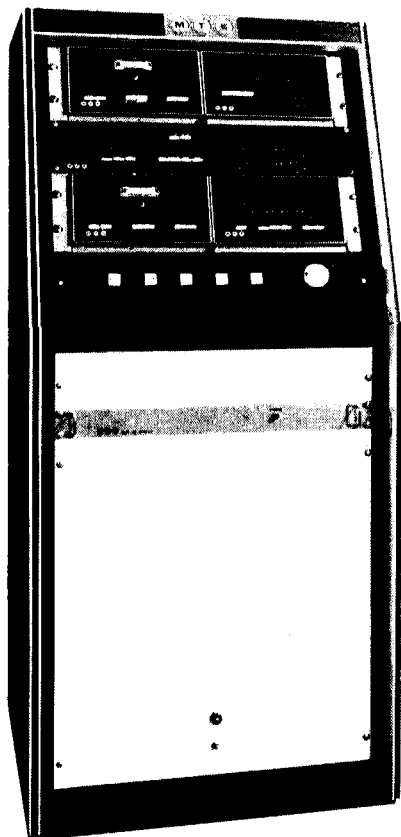
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The TBC-1, a fifth-generation digital time-base corrector designed for compatibility with all current helical scan videotape recorders, has been announced by Ampex Corp., 401 Broadway, Redwood City, CA 94063. Designed for broadcast, teleproduction, CATV and CCTV videotape recording applications, it operates with capstan-servoed, nonsegmented helical VTRs. The TBC-1 is said to be the only currently available time-base corrector compatible with the special electronics and automatic scan tracking (AST) features of the Ampex VPR-1 helical videotape recorder (*Journal*, p. 250, April 1976). Features include "dynamic correction" combining "averaging" and line-by-line correction systems in a single unit. When initially locking up and during severe error overloads the TBC-1 uses an averaging correction technique to permit even severely degraded video to pass properly through the system. With normal quality video it switches automatically to line-by-line correction. An enlarged correction window of more than six full lines (10 lines in PAL/SECAM), allows handling of overloads without degrading picture quality.

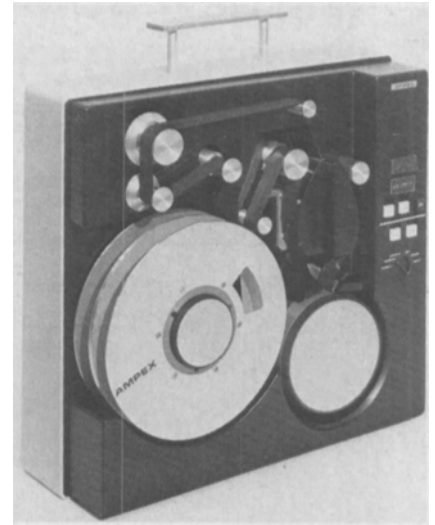
VTR interfacing is built in and no VTR modifications are necessary for most recorders.

Operation is "single wire" with no "conversational" signals back to the VTR. The interface makes it possible for the machine to accept either a TTL or RF signal from the VTR for optional dropout compensator. Options include a line-by-line velocity compensator to enhance performance and improve the quality of multiple-generation dubs. Other options include a dropout compensator to replace dropouts with information from the previously correctly-phased line of video and a heterodyne color processor switchable with the standard direct-color recovery system. Prices for the TBC-1 begin at \$12,800.



The Audio Tape Reproduce Amplifier, Model 376, a self-contained, dual channel, reproduce-only electronics package for professional applications, has been announced by Inovonics, Inc., 1630 Dell Ave., Campbell, CA 95008. Features include a combination of IC and discrete circuitry for low residual noise and 3-speed equalization with wide adjustment range for any combination of NAB and IEC characteristics, 3/4 to 30 in/s. Model 376 can accommodate virtually any tape or film reproduce head. Other features include remotable solid-state EQ switching and phase compensation adjustment to correct recording errors which degrade multigeneration tape copies. Model 376 is priced at \$550.

A new 16mm viewer/editor, model P-16, is available from Hervic Corp., 14225 Ventura Blvd., Sherman Oaks, CA 91423. It is manufactured for Hervic Corp. by Minette. Designed for professional use, it incorporates a built-in 12-V, 50-W halogen lamp, a cooling fan, and a pilot lamp. Film is protected by a newly designed pressure plate and transport mechanism which has four rollers, sprocket wheel, film puncher, framing lever, and a glass dust filter. It is priced at \$404.50.



The VPR-10, a portable version of the VPR-1 helical scan videotape recorder (*Journal*, p. 250, April 1976), has been introduced by Ampex Corp., 401 Broadway, Redwood City, CA 94063. The VPR-10 is designed to function as a field recorder to complement the VPR-1 as well as for electronic newsgathering and other remote production situations. The VPR-10 has remote-control capability and can be operated while the unit is in motion. Equipped with a handle and case, it weighs 45 lb with batteries and cover. The ac power pack includes a quick charger system and gives a 90-min running time. The unit has concentric reels with the supply reel on top. Other features include a built-in tape timer and a color playback system to permit full color recording anywhere.



A new version of the PC-3 Triple-Function Program Computer has been announced by Convergence Corp., 179 Sky Park Circle, Bldg. D, Irvine, CA 92714. The device is a plug-in accessory to the firm's ECS-1 joystick editor used in editing programs on videocassettes. Coupled with the ECS-1, the PC-3 is designed to provide precise end-insert timing with preview and frame-accurate duration timing. Both end-insert and stopwatch functions are programmable from the PC-3's computer keyboard. All timing data are displayed on the six-digit LED readout in minutes, seconds and frames and can be trimmed up to ± 99 frames with the keyboard.

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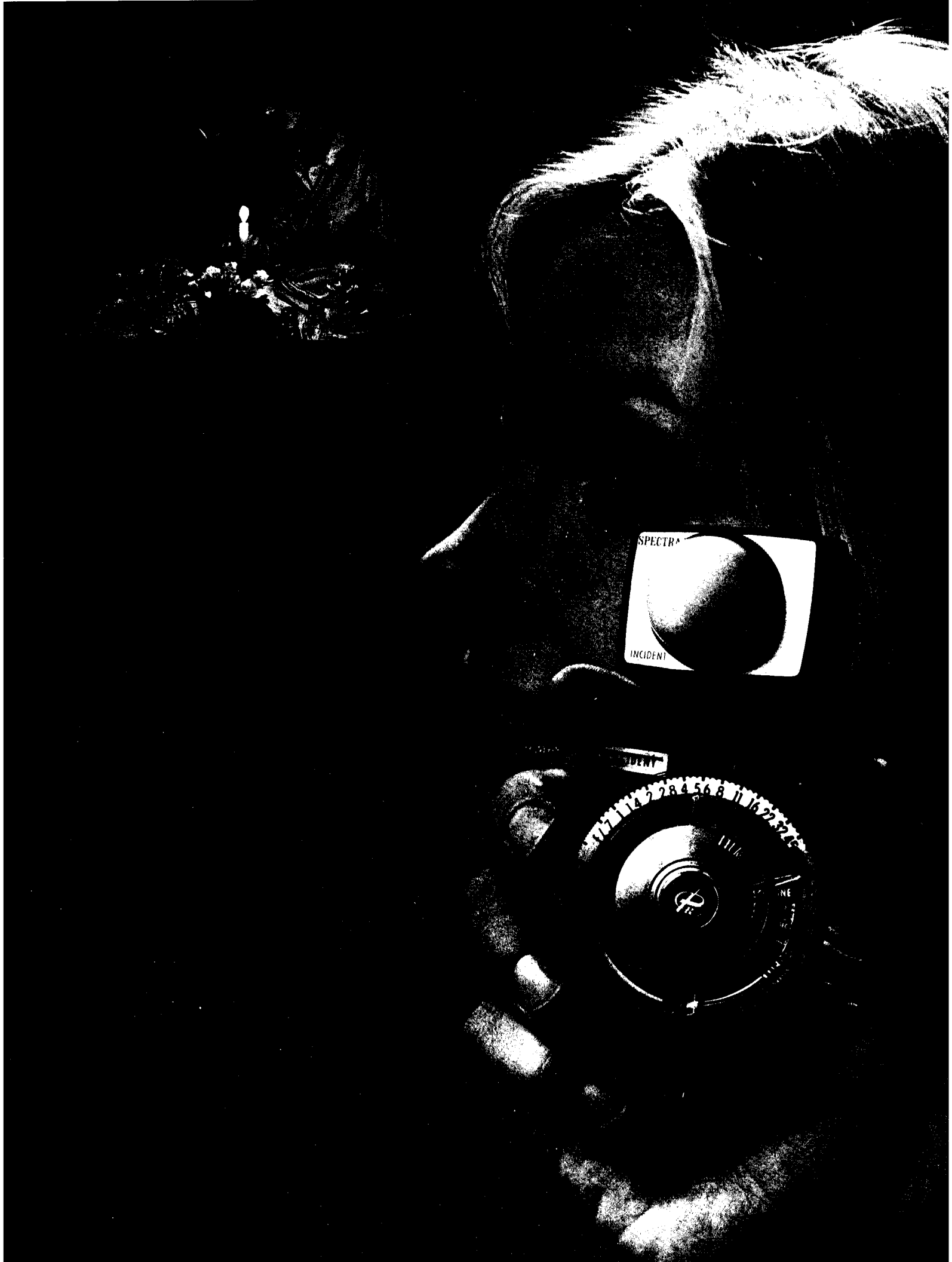
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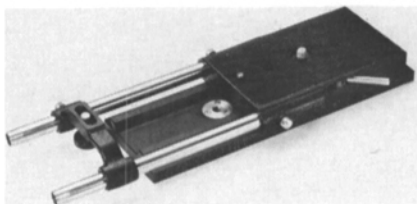
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Accuracy is maintained by a "closed loop" system of counting control track pulses off normal videocassette tapes rather than the conventional method of using time codes. Price of the PC-3 is \$1900.

The Model 5305B Frequency Counter Plug-On, covering frequency bands from 50 Hz to 1300 MHz, has been announced by Hewlett-Packard, 1501 Page Mill Rd., Palo Alto, CA 94304. In addition to all mobile communications bands, the counter's range includes TACAN/DME and ATC radar transponders as well as AM and FM broadcast bands and VHF and UHF television bands. The 5305B operates with the 8-digit 5300B mainframe. Sensitivity is 20 mV rms in both channels over the full bandwidth. A high resolution mode for tone measurements to 10 kHz improves resolution by 1000. Automatic gain control is included on both channels plus a manual attenuation control on the high-frequency channel. The 5305B is priced at \$900. The 5300B mainframe is priced at \$460.



A new multi-purpose bridge plate system for all Arriflex cameras has been announced by Arriflex Co. of America, 25-20 Brooklyn-Queens Expwy. West, Woodside, NY 11377. The bridge

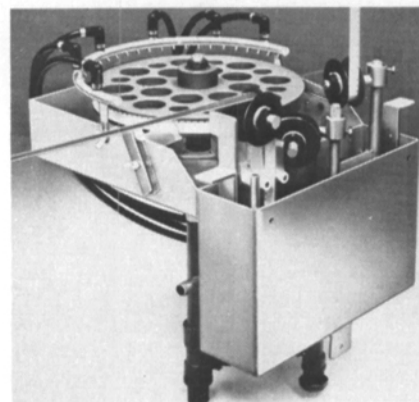
plate, a functional accessory, can be used in camera set-ups involving long or heavy lenses, extra large magazines or large, studio-type matte boxes. The main assembly consists of two dovetailed platforms with the bottom plate supplied with three steel $\frac{3}{8} \times 16$ in tripod socket inserts for center of gravity adjustments. Two removable stainless steel rods and a fitted adjustable slide serve as the base for a rugged lens support. The new bridge plate supersedes all older Arriflex lens cradles. It can accommodate any flat base camera up to the Arriflex 35BL with zoom lens and 1000-ft magazine. The price is \$560.



An automatic white noise test set, Model 2090C, and a spectrum analyzer, Model 2370, shown above, have been announced by Marconi Instruments Ltd., Longacres, St. Albans, Hertfordshire, England, represented in the United States by Marconi Electronics Inc., 100 Stonehurst Court, North Vale, NJ 07647. The 2090C

provides an automatic measuring capability for f.d.m. baseband noise loading tests. The test set is compatible with all the Marconi Instruments and conforms to the CCIR, CCITT and IN-TELSAT recommendations for white noise testing. Plug-in filter units in both generator and receiver permit easy changing of filters. Rapid interchange between systems is also possible by keeping spare filter units loaded with all the filters necessary for a system. Measurement functions are selected by pushbutton. The readout of noise power ratio, SNR or channel power either weighted or unweighted to CCITT psophometric or Bell "C" Message standards is indicated on a digital panel meter, the selected measurement units being displayed alongside. Outputs are provided in both b.c.d. and analog form for recording purposes. Price of the 2090C is \$6550.

Features of the 2370 spectrum analyzer include frequency cover from 30 Hz to 110 MHz; 100 dB displayed range; 0.1 dB and 5 Hz resolution; digital storage of spectral information; split-store mode with dual display; integral 9-digit frequency counter; and a built-in sweep generator. Price of the 2370 is \$14,500.



The Treise Carousel Bead Remover, a device for washing hypo beads off film, has been announced by Treise Engineering, Inc., 1941 First St., San Fernando, CA 91340. The device consists of a precision wheel about 11 in in diameter that is mounted horizontally and around which the applied film travels for about 280°. The periphery of the wheel is surrounded by water jets precisely located to strip off the hypo bead into a tray located below the wheel. The washed film then passes through a dip of hypo eliminator solution as it leaves the carousel to continue in the processor. The unit, constructed of Type 316 stainless steel, measures about 12 x 15 x 12 in and has an operating range of 30 to 150 ft/min. The wheel is made of PVC and is surrounded by a manifold divided into six segments. Each segment is separately controlled by individual valves permitting the water consumption to be varied to accommodate film speed and operation of the unit to be adjusted to meet specific user requirements. Wiper squeegees are located at the wheel exit and after the hypo dip tank to prevent excessive carryover. Because the wiper squeegees are spring-loaded and the unit is film-driven and virtually friction-free, no power or air is needed. The unit is adaptable to most processors and can be used where a sound system is being added to a processor where the wash-off facilities are inadequate or unsuitable for such a system. The device can be used for both the 7389 and the 7390 silver soundtrack and can work equally well with sulphide and/or redeveloper tracks. Price of the Carousel Bead Remover is about \$925.

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1 9mm WIDE-ANGLE LENS ATTACHMENT

Snap this precision supplementary lens onto the front of Scoopic's 12.5-75mm macro-zoom (or filter) and you've got a 9mm wide-angle that lets you get in as close as 1 meter, and gives you such a high degree of brightness that there's no loss of f-stop. (By the way, this attachment also works with the Canon 12-120 macro zoom lens.)

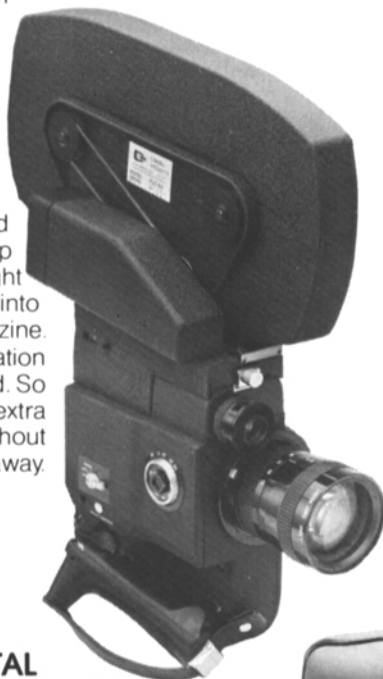


2 1 1/2 X TELE-CONVERTER ATTACHMENT

This snap-on precision supplementary lens gives you tighter telephoto shots, by increasing the maximum effective focal length of Scoopic's lens to 112.5mm, with no loss of f-stop. (Also works with 12-120mm macro zoom.)

3 400' MAGAZINE ADAPTER

With this new factory installed adapter you'll be able to snap Cinema Products' new lightweight 400' Lexan™ magazine right into place. Or, a Mitchell 400' magazine. Better still, it won't affect normal operation using the Scoopic's 100' internal load. So for just a little, you've added a lot of extra production and sports capability. Without taking anything away.



4 LIGHT BRACKET

This rugged mounting bracket with its positive safety locking nut, slips right onto the accessory shoe. So, you can put a lot of extra light on the subject without an extra pair of hands. The engine turned 1/2" stud gives any standard light a sure, non-slip grip.



5 CRYSTAL CONTROL UNIT

All you need is a recorder designed for crystal use, our new crystal unit, and a factory modification of your Scoopic... and you can shoot absolutely synchronized sound at 24 fps. The convenient built-in unit adds no extra bulk and you can also purchase a new Scoopic from your dealer with the crystal unit already installed.



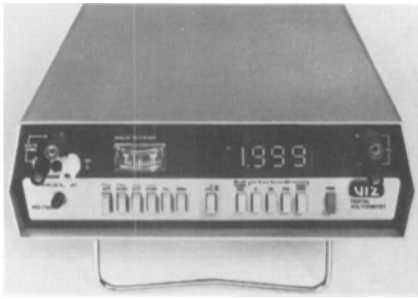
6 SOUND BARNEY

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A digital multimeter designated the WD-750A VoltOhmyst® has been added to the line of test instruments acquired from RCA Corp. by VIZ Test Instrument Group, 335 E. Price St., Philadelphia, PA 19144. Features include an exceptionally bright 3½-digit, ¾-in LED display and a built-in analog meter. The unit is powered by either 120 V ac or by its own rechargeable long-life nickel-cadmium battery. It has six dc and six ac voltage ranges with coverage from 1 mV to 1200 V (rms for ac). The instrument has five current ranges from 1 µA to 1 A and six resistance ranges from 1Ω to 10 MΩ. Resolution is about 0.1% full scale, and input impedance is 10 MΩ. The price is \$267.

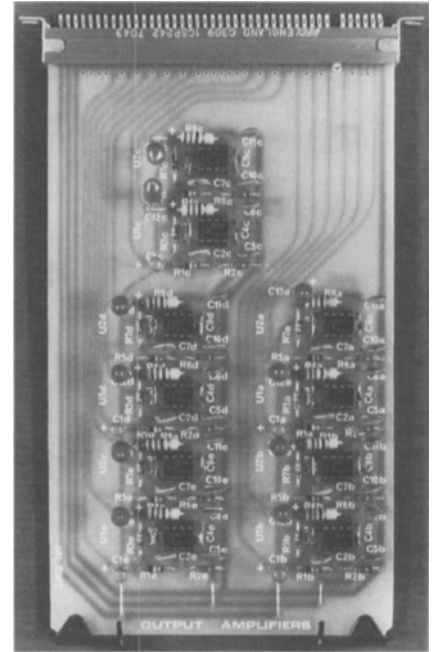
The Model 360 Color Bar and Sync Generator has been announced by Dynasciences, subsidiary of Whittaker Corp., Township Line Rd., Blue Bell, PA 19422. The unit produces a full-field NTSC color bar pattern and a full set of synchronizing signals. Other features include a black burst output and a 1000 Hz audio test

tone. Video outputs are via BNC connectors, audio by standard phone jack. Sync generator outputs (two of each) are 4 V p-p negative-going for sync, blanking and horizontal and vertical drive with subcarrier outputs of 2 V p-p at 3.579545 MHz ± 10 Hz. The color bar output is 1 V p-p for white bar amplitude of 100 IRE and 75% saturated colors. All video outputs are 75Ω impedance, source terminated. The audio output is low-impedance, single-ended. Price of the 360 is \$750.

A 5-in color video monitor for professional use is available from Amtron Corp., P.O. Box 1038, Aptos, CA 95003. Designated the AM-5, the unit operates on ac or dc and includes as standard equipment switchable A/B inputs and internal/external sync, individual RGB gun switches, manual degauss circuit, front panel primary and secondary controls plus dc restoration. Pulse-cross display is optional. It is used either as a portable unit or rack-mounted as a companion to half-rack video waveform monitors, or it may be combined as a dual unit into standard 19-in rack configuration. Utilizing a 5-in, 55° deflection Sony Trinitron™ CRT, the AM-5 weighs 16 lbs and is priced at \$895.

Series 104 and 108 professional modular audio mixer consoles have been announced by Interface Electronics, 3810 Westheimer, Houston, Texas 77027. They include mainframes for 8, 16, 24, or 32 inputs, and 4 (Series 104) or 8 (Series 108) stereo or mono mixes plus equalizers, panpot, four cue/echo sends, six step gain adjust with two input pad positions, monitor-

only solo button, and several output section options including mixdowns, talk-slate, graphic analyzers, dual three-way tunable crossover, etc. Output transformers are optional, input and output connectors are XLR type; zero level output is 1-V rms (+8 dBm with transformers); distortion under 0.1% (+3 VU, 400 Hz), noise at least 75 dB below zero VU and response is within ±1 dB from 20 to 20 kHz, with 12 dB boost or cut with the equalizers at selected frequencies. It is entirely modular and portable. Model 104-16 × 4A-16D is priced at \$3900.



A unit consisting of five balanced/isolated amplifiers on a fiber glass card measuring 204mm × 115mm has been announced by Transound, P.O. Box 148, Welwyn Garden City, Herts. AL6 0HF, England. The unit is designed to provide transformerless floating outputs from single-ended inputs. Features include gold-plated edge terminations. The response is ±0.1 dB, 20 dB 20 Hz-20K/Hz; +18 dBm for 0.05% T.H.D. The unit requires 12- to 18-V split supply (0.06 A, all amplifiers at full output). The card is fully legended and supplied with output mating connector and card latches. A power supply unit is optionally available. Price of the card alone is \$74.

A slide rule calculator, designated Model SRC-1, has been announced by Shure Brothers Inc., 222 Hartrey Ave., Evanston, IL 60204. Designed mainly for use by sound engineers, the device provides a convenient means for calculating room reverberation time and acoustic absorption coefficients; microphone output voltage and sensitivity ratings; and attenuation pad resistance values. The price of \$2.40 includes a brochure containing detailed operating instructions, appendixes with charts and tables, and a bibliography listing sources for additional information.

Registration Slide Sets for use with two-projector dissolve shows have been announced by Visual Horizons, 208 Westfall Rd., Rochester, NY 14620. A colorful grid with special pin-registered glass mounts provides accurate projector alignment. A package of two matched color slides in a storage box is priced at \$4.95.



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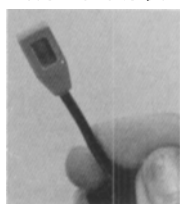
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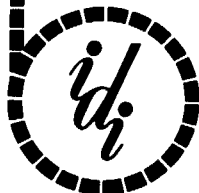


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Index to Advertisers

Acton Research Corp.	914
Arriflex Co. of America	907
Atlas	921
Bebell, Inc.	920
Camera Mart, Inc.	911
Canon USA	919
Cinema Products Corp.	909, 924
Classified	922
Eastman Kodak Co.	902, 903
EPOI	917
Filmline Corp.	899
Frezzolini Electronics Inc.	916
Goldberg Bros.	898
Image Devices, Inc.	922
IREECON International	908
Jamieson Film Co.	910
JVC Industries, Inc.	901
LaVeZZi Machine Works, Inc.	918
Magna-Tech Electronic Co., Inc.	915
Matthews Studio Equipment	900
Professional Services	923
Quick-Set, Inc.	906
RCA	897
Shure Brothers Inc.	913
SMPTE	923
Sony Corp. of America	904, 905
Western Cine	912

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Laboratory Manager. Shaw Bros. (Hong Kong) Ltd. requires a laboratory film processing manager with sound knowledge in color laboratory operations. Experience in processing machines, printing machines, optical effects, color timing and quality control are absolutely essential. Send complete resume, including photograph and salary history to: The Personnel Manager, Shaw Bros. (H.K.) Ltd., Lot 220 Clearwater Bay Road, Kowloon, Hong Kong.

Professional Film Editor. This is an unusual opportunity for an experienced editor to become associated with one of the country's best and most progressive motion picture labs. If you feel you can fill this position, please write or call: WRS Motion Picture Laboratory, 210 Semple St., Pittsburgh, PA 15213, (412) 687-3700, attention Mr. Thomas.

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Media Coordinator Manager. Seeking employment in the advertising, training, public relations motion picture, TV or still photographic fields. College degree in advertising and journalism fields. 28 years of experience in the communication business. Contact Gordon Reid Ray, 30 Bosswood Circle, Rochester, NY 14615, (716) 621-6887.

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These notices are published as a service to expedite disposal and acquisition of out-of-print Journals. Please write direct to the persons and addresses listed.

For sale - best offer, Journals from 1936-1956 (less two copies, 3/42 and 1/45). Richard Parris, 232 Bacon St., Natick, MA.