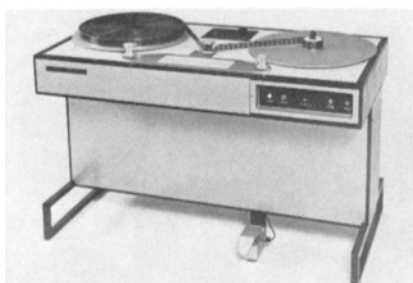


New Products & Developments

A new 30-mm low capacitance Diode Gun[®] Plumbicon, designated Type 45XQ, has been announced by Amperex Electronic Corp., Slatersville Div., Slatersville, RI 02876. The low capacitance target used in the new Plumbicons provides better overall system performance by either an increased sensitivity of 1 f/stop or an improved signal to noise ratio. The Diode Gun construction in the new tubes provides for high resolution, low lag, and beam reserve for highlight handling. The scan angle of the tube has been reduced by employing a 16-mm scan (1-in format), instead of the conventional 21.4-mm scan of the 30-mm format, thus reducing edge effects and providing improved center-edge uniformity and resolution as well as improved geometry and registration.

A new high speed automatic rewind table, the S80, has been announced by Acmade International, Oaksdale, Oxford Rd., Uxbridge UB9 4DX, Middlesex, England. The new table can accommodate rolls of 16-mm film or tape up to 3000 ft and rewinds at the rate of 1000 ft/min. Features include automatic braking. An illuminated panel is provided to en-



able the film to be inspected and a foot control pedal allows the speed to be infinitely varied. Improved electrical circuitry has been developed to ensure reliability as well as smooth transport of the film through the machine at high speed. An electronic counter can be supplied as an option. Base price of the machine is about \$4500.

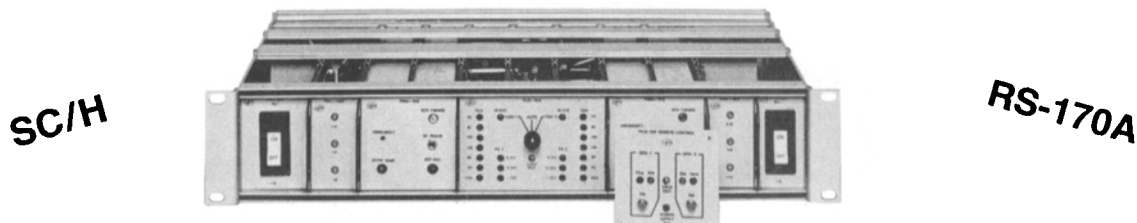
A new battery pack designated the On-Board Frezzi[®] has been announced by Frezzolini Electronics Inc., 7 Valley St., Hawthorne, NJ 07506. The new battery pack is 104 mm wide, 47 mm long, 130 mm high and weighs 1.9 kg.



The battery pack can be used to power Hitachi, Ikegami, RCA and other video cameras as well as Frezzi-Lite[™] portable camera lights. The On-Board pack is said to provide power for about 120 min without cables when mounted directly to the backs of Hitachi FP-40 and Ikegami HL-79A cameras or to a Frezzi camera mounting bracket. The battery packs contain nickel cadmium cells housed in aluminum cassettes with solid metal battery mount locking studs. The On-Board battery packs can be fully recharged in less than hour with the ac line isolated Frezzi-Fast[™] charger. The price, without the bracket is \$440. A bracket is available at a price of \$185.

A new Porta-Power battery pack system featuring 12 V at 10 Ah has been announced

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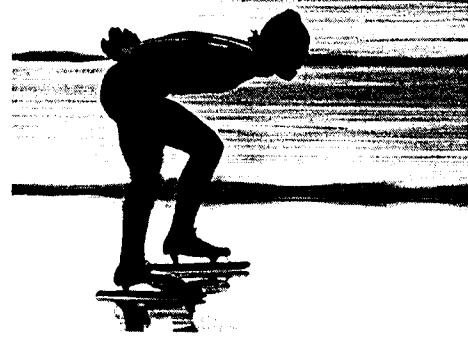
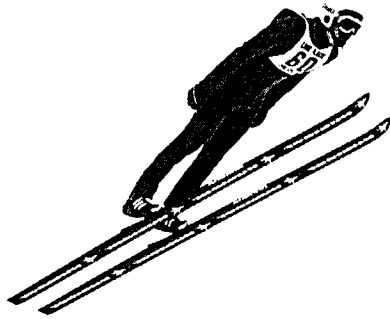
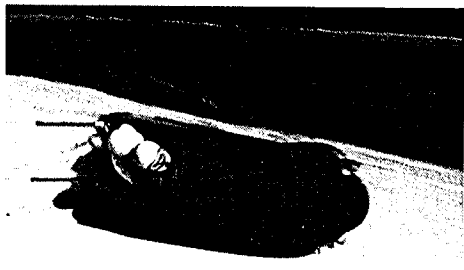


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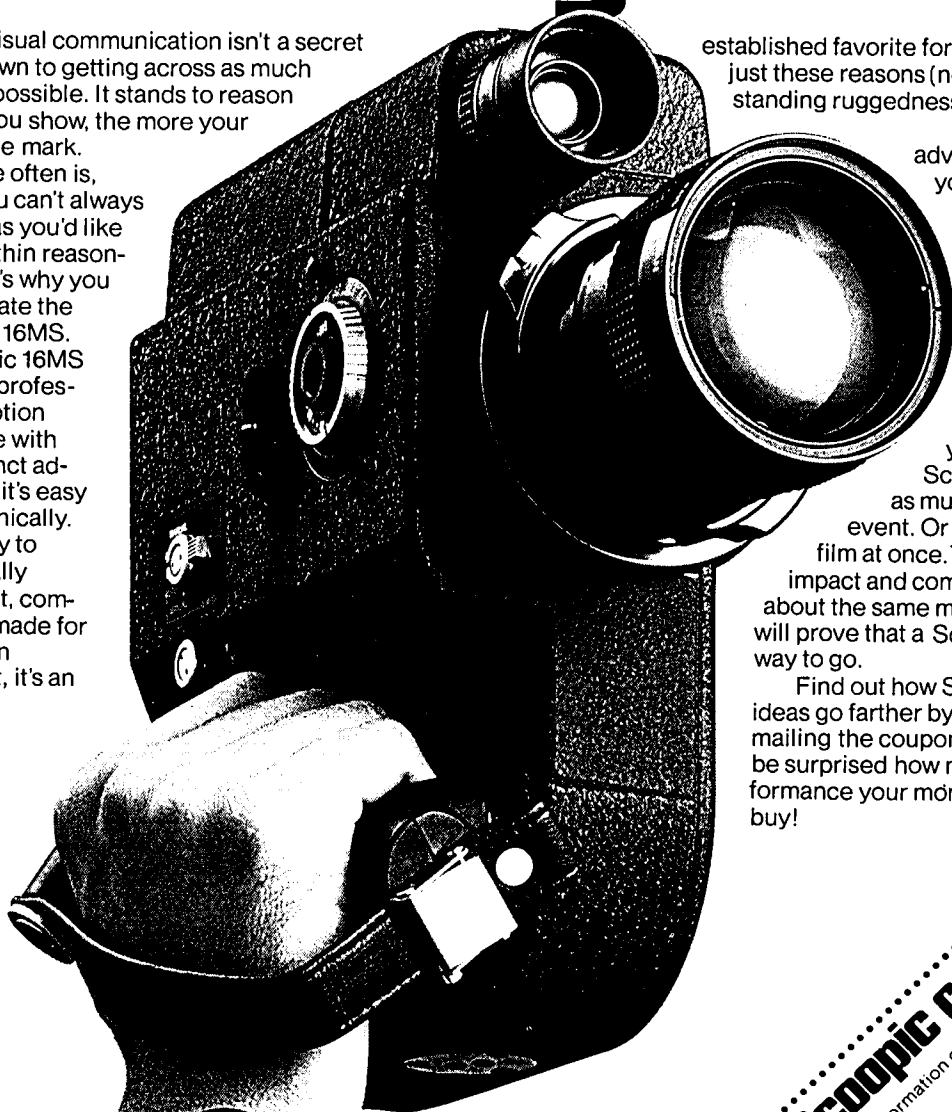


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established favorite for spot-news coverage for just these reasons (not to mention its outstanding ruggedness and Canon zoom lens).

But the real Scoopic advantage lies in how it helps you get your ideas across by stretching your ability to cover your subject. Offering top-level performance in an amazingly affordable price range.

For the cost of some systems—with comparable end results—you could buy *three* Scoopics. That's three times as much coverage of a single event. Or three places you could film at once. Three times as much impact and communication value for about the same money. Simple arithmetic will prove that a Scoopic system is a smarter way to go.

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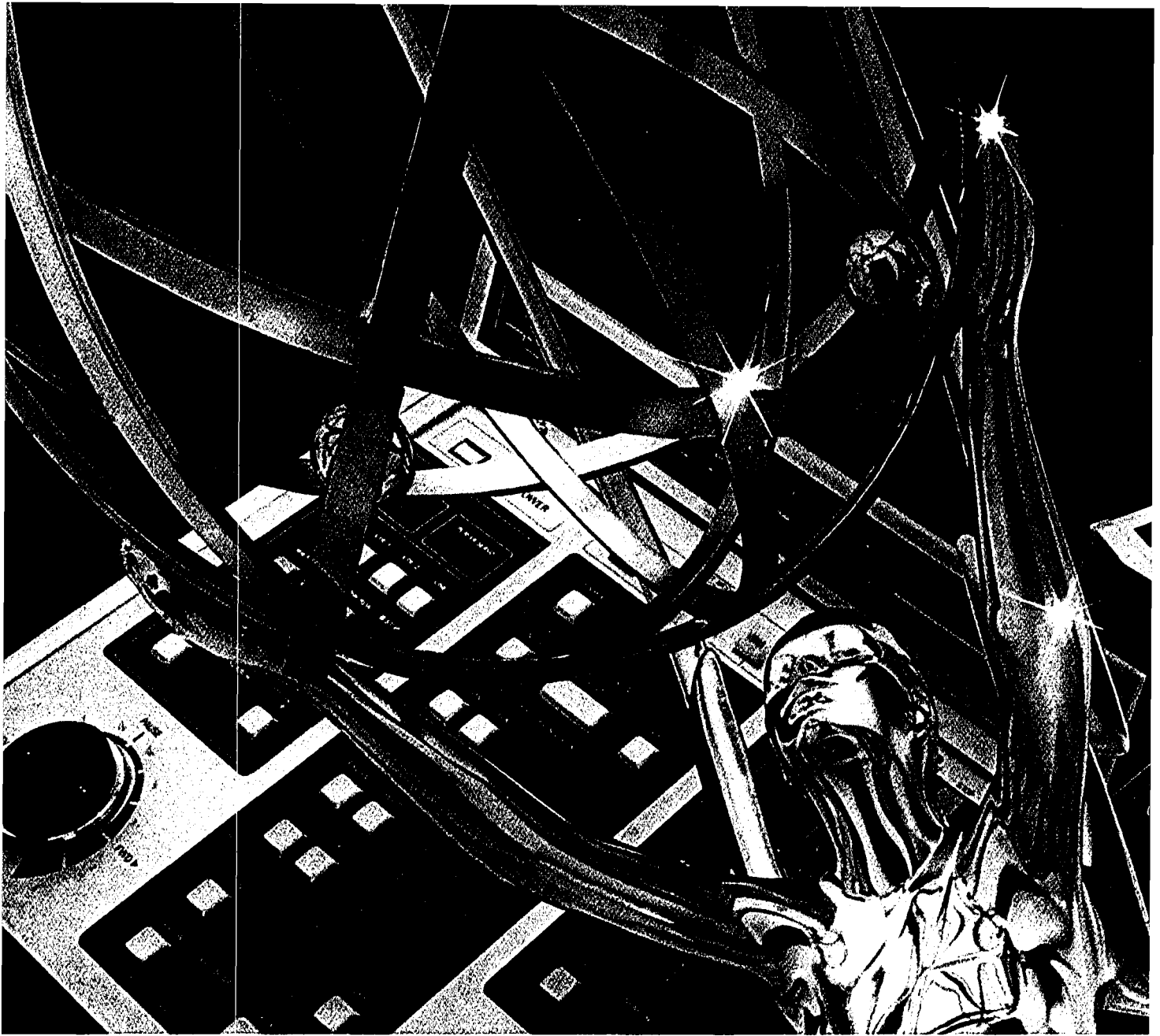


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When you buy Panasonic broadcast equipment you're buying award-winning technology.

Panasonic was awarded a 1979-1980 Engineering Achievement Emmy for the introduction of digital techniques in video special effects production.



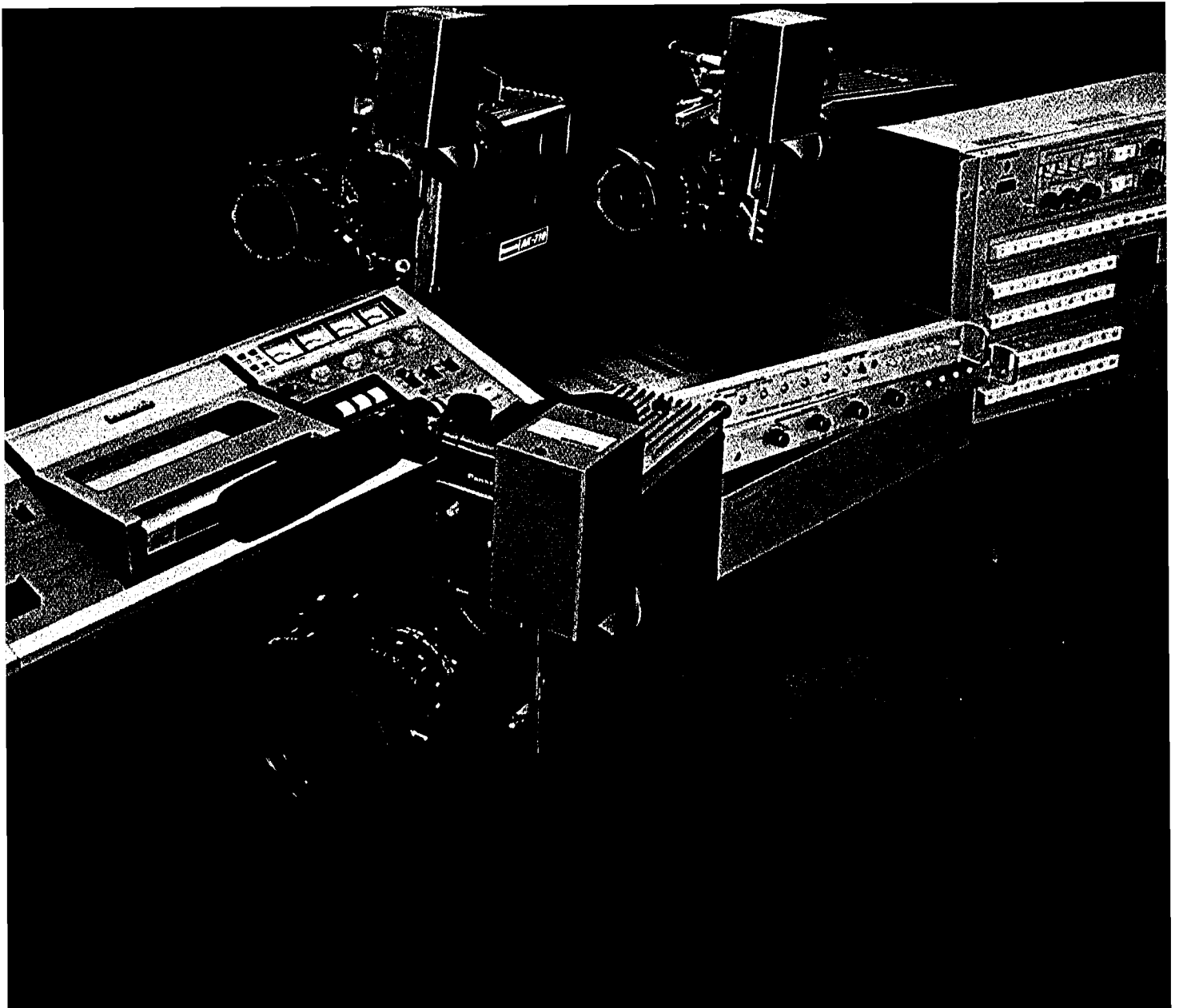
When one network executive first saw the special effects produced by the Panasonic AV-7000 video squeezer, he couldn't believe his eyes. But then he'd never seen a special effects generator that combines digital techniques with microprocessor technology. The members of the National Academy of Television Arts and Sciences were equally impressed. So impressed, they presented Panasonic with an Emmy.

The same innovative engineering that created the AV-7000 is available in a new line of Panasonic broadcast equipment.

Take the Panasonic 700 B-2 time-code editing system. The AU-700 editing recorder, the AU-A70 programmable editing controller and the AU-J10 multiple source adapter. Together they add speed and accuracy to $\frac{3}{4}$ " time-code editing by letting you do what other systems don't: Per-

form up to 20 automatic insert and assembly edits from multiple sources. How did we do it? By combining microprocessor technology with the precision of direct drive.

Another way Panasonic says innovation is with the AK-760 ENG/EFP camera. With its three diode-gun Plumbicon® tubes and built-in bias light, it offers incredibly high resolution (600 lines center) and extremely low lag. And with its feed-



ck beam control, the
-760 has the necessary
am current to stabilize
ne highlights to the
int where comet tailing
greatly reduced.
The Panasonic AK-750B
o gives you three-tube
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ng with a lot of extras
it don't cost extra. Like
o-line vertical enhance-
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three Saticon® tubes to a
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innovation with the
AS-6100 special effects
generator, the AS-2000

chroma key generator and
the AS-1000 color sync
generator. And, of course,
you can look forward to
even more Panasonic
broadcast equipment in
the future. But take a good
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Lowel-Light Mfg. Inc., 421 W. 54th St., N.Y., N.Y. 10019 (212) 245-6744. West coast: 3407 W. Olive Ave., Burbank, Ca. 91505 (213) 846-7740.



by Media Concepts Inc., P.O. Box 10745, 559 49th St. South, St. Petersburg, FL 33733. The unit measures 8⁷/₈ × 2³/₈ × 8¹/₄ in and weighs about 10 lb. Designated LAB 128, the battery pack is supplied with a belt loop and shoulder strap. The price is \$129.95.



A large-screen color monitor, the AM-26, having 340 in² of screen surface, has been announced by Amtron Corp., Box 1150, Aptos, CA 95003. The monitor combines Sony's Trinitron color system with operating features standard on the Amtron AM series of color monitors including switchable A/B inputs, switchable underscan, internal/external sync and separate RGB gun switches (plus background and gain controls). Talley light, separate horizontal and vertical scan delay (pulse cross display are optional and a separate tuner/audio amplifier and speaker section may be added, if desired, for installations with requirements for off-air monitoring as well as direct video display. An R-G-B version of the AM-26 is also available for computer or other data graphic display purposes. The base price of the AM-26 is \$2395.

A 16-bit linear, 18-bit resolution hybrid microcircuit digital-to-analog converter has been announced by Hybrid Systems Corp., Crosby Dr., Bedford, MA 01730. Designated the DAC370-18, the device has input storage registers, operates from a single +15 V supply and is TTL/DTL and CMOS compatible. The DAC370-18 contains two chips. A monolithic CMOS chip contains switches, storage



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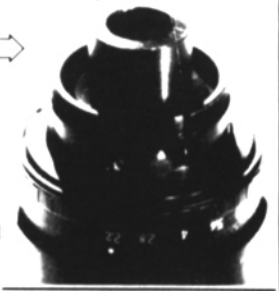
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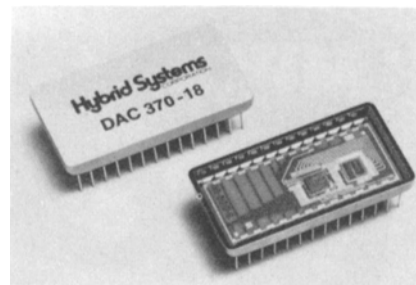
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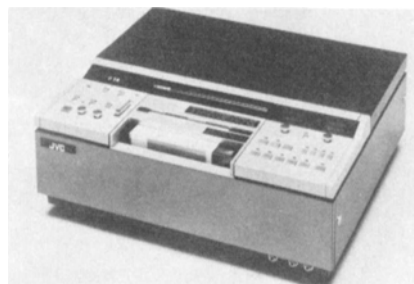
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registers and other electronics, for high resolution and low linearity error, yielding less than 60-mW dissipation. The storage registers are in two 8-bit and one 2-bit segments with independent level-triggered latches making the DAC370-18 compatible with most microprocessor data bus interfaces. A second thin-film chip provides all the necessary resistors.

Two models are available. The DAC370C operates over the 0°C to +85°C commercial temperature range. The DAC370B-18 operates over the -55°C to +125°C military temperature range and is screened to the requirements of MIL-STD-883. The price (100s) for the DAC370C-18 is \$159; for the DAC370B-18, \$470.



A color U-type editing videocassette recorder, designated the CR-8200U, has been announced by US JVC Corp., 58-75 Queens Midtown Expwy., Maspeth, NY 11378. The recorder can be the basis of an editing system when combined with the RM-82U automatic editing control unit, and the CP-5500U videocassette player. The three units are called the Tape Handlers series.

The CR-8200U has direct drive head drum and capstan as well as direct drive reel motors on the reel servo system to provide stable tape movement at any speed. A rotary erase head and blanking switcher permit clean assemble and insert edits. An audio limiter circuit is provided for each of the two audio channels to prevent distortion in the audio recording process. The limiter circuit is manual or automatic. Dual recording level meters are built in. An external subcarrier input terminal is provided for TBC connection. The FM output and input allow for tape duplication with low distortion.

When used with the RM-70U remote control unit or either of the edit controllers in the RM series, the CR-8200U has continuously variable playback speeds.

Other features include microprocessor-based logic tape controls, automatic rewind and repeat, pause control, and a switchable electronic tape counter and time clock with digital display. The CR-8200U has a video SNR of more than 48 dB, a horizontal resolution of 330 lines monochrome and 240 lines in color. The price is about \$5300.

A high speed 35mm projector, the ST-DCS, primarily intended for use in film mixing and

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“GSMO’s reliability is perfect for the rugged conditions we have to work in: from Lake Placid to the oil fields of Venezuela...”

**Gerry Souter, Senior Audio Visual Coordinator
Motorola Communications and Electronics Inc.**



Since Motorola provided the two-way radios, pagers, and communications systems to the United States team at the 1980 Winter Olympics, Gerry Souter was sent to Lake Placid as a one-man-band required to shoot both stills and motion pictures of the events and Motorola’s equipment in use.

“Naturally I looked for the most lightweight, quick-change cassette-load 16mm camera available,” says Souter. “GSMO answered my needs in every way, and I was very pleased with the results of my choice.

“During two weeks of shooting, the GSMO was always ready to go. Much of my footage was shot at 64 fps, and the GSMO came up to speed instantly as the slalom skiers and bobsleds zigzagged past. The on-board battery never failed. Not even when the temperatures dipped way down into the teens.



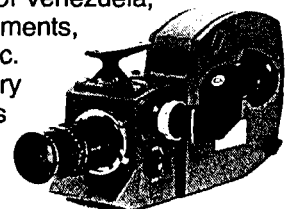
“I had been warned about the difficulties of loading coaxial magazines: how tricky and unforgiving they were if you were a frame off in building your loop. But I found GSMO magazines to be the easiest I’ve ever worked

with. Simple and straightforward from my first practice roll to the last, which I loaded sitting in the snow surrounded by other photographers cursing broken film and freezing fingers!

“Neither moisture build-up in the crowded humid buses, nor resting on a plastic bag in the snow while tripods were set up had any effect on the operation of the GSMO or any of its accessories.

“GSMO’s reliability is perfect for filming in the rugged conditions we have to work in: from the Winter Olympics at Lake Placid to the oil fields of Venezuela, including steel mills, fire departments, mountain top antenna sites, etc.

“GSMO is the ideal primary location camera for companies like Motorola!”



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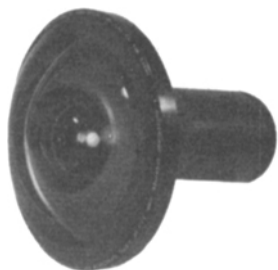
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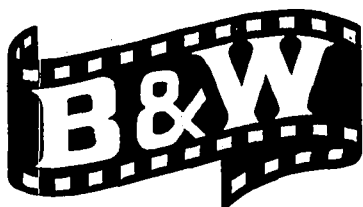
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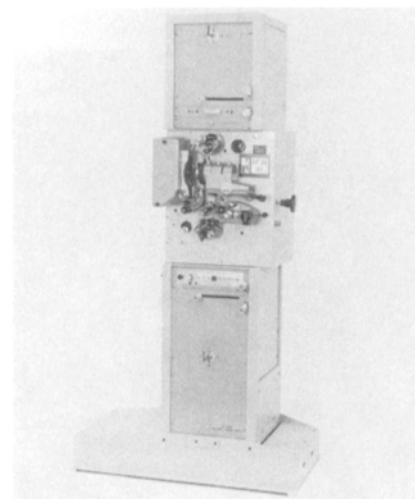
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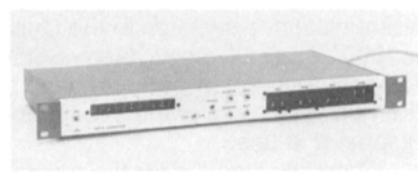
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dubbing studios, has been announced by Multi-Track Magnetics, 3 Industrial Ave., Upper Saddle River, NJ 97458. At normal forward or reverse synchronous speeds the projector uses a Kinotone Geneva Cross intermittent which provides a jitter-free image. At the start of high speed operation, a Multi-Track Magnetics shifter decouples the intermittent in about two seconds to allow high-speed turnover in forward and reverse up to five times synchronous speed. The projector is driven by Multi-Track Magnetics 5500 high speed dc servo motor to assure smooth quiet operation. The projector can be interlocked electronically with MTM's high speed dc servo drive dubbers or interfaced using a shaft encoder with conventional dubbers. Tension arms and reels for film supply and take-up are controlled and powered by dc servo torque motors capable of extremely rapid alterations in direction and speed. The reel servos are capable of delivering from 0-200 oz/in of torque on demand in under 10 ms. The heliarc welded aluminum frame was designed to save space. The unit stands on a tiltable base and can accept any standard xenon lamphouse up to 4000 W. The ST-35 DCS is priced at \$28,000 without the lamphouse and lens.



The SETC-1, an SMPTE Time Code Generator, which utilizes a shaft encoder to interface with conventional sound dubbers and projectors in film mixing and re-recording studios, has been announced by Multi-Track Magnetics, 3 Industrial Ave., Upper Saddle River, NJ 07458. Its primary use is to allow sprocketed film media to be interfaced and synchronized with nonsprocketed video or audiotape. Because the unit generates the SMPTE time code without requiring a control track on the film itself it does not require special soundheads and preamplifiers to read it. A bi-phase encoder attached to the drive motor of any conventional film transport translates the transport's speed and direction to the SETC-1 which outputs the information in the form of time and video frames. It also displays the time and user bit data in SMPTE format and provides time code data in forward and reverse up to six times synchronous

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■ Neilson-Hordell Senior Animation Stand shown with model 83 16mm/35mm animation camera and optional aerial Image Projector.

■ Neilson-Hordell is the manufacturer of animation and special effects equipment of the type used in SUPERMAN, STAR WARS, ALIEN and many other high technology films.

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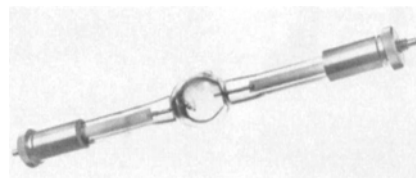
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speed. The time code can be started, stopped and restarted at any point on the film. The price of the SETC-1 with the shaft encoder is \$3500 and \$3150 without the shaft encoder.

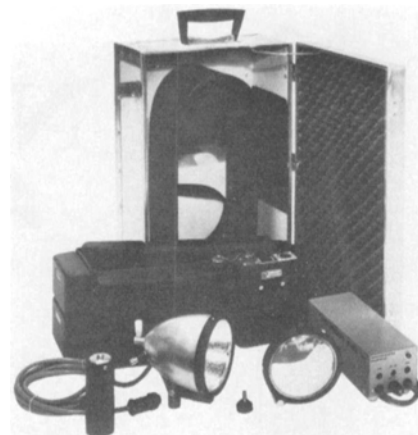


The Report 200, an Arri 200-W HMI light has been announced by Arriflex Corp., One Westchester Plaza, Elmsford, NY 10583. The light provides ac and dc operation through a modular power supply incorporating a square wave ballast for flicker-free operation. The dc operation is accomplished using quick chargeable sealed Ni-Cad batteries. The lamphead is lightweight, focusable and can be handheld or mounted on a light stand. The price, including the lamphead, bulb, ballast, ac buffer/charger, battery, barndoor, gel holder and case is about \$7654.



The 1200-W Brite-Arc studio lamp, a fill light for film and television studio, as well as for theatrical use, has been announced by Sylvania Lighting Center, Danvers, MA 01923. The new light is reported to provide about 90 lm of light per watt. A medium arc length light source, the 1200-W Brite-Arc lamp is reported to provide a higher level of daylight illumination than a 5000-W tungsten-halogen lamp filtered for daylight at a balance color temperature of 5000 K. The Brite-Arc is intended for use in follow spots, broads and Fresnels designed for use with HMI type lamps. The new Brite-Arc is priced at \$500.

Four battery-light kits designed to provide portable lighting for television and film cameras have been announced by Cine 60, 630 Ninth Ave., New York, NY 10036. The unit is a variable beam-width battery-powered light suitable for use by television news cameramen and documentary filmmakers as a fill light outdoors or a key or fill light indoors. The lamphead can be mounted directly on the television or film camera or it can be held separately. Power is supplied by a nickel-cadmium battery belt worn by the user. The kits include a variable focus lamphead with removable handle, a 100-W or 250-W tungsten-



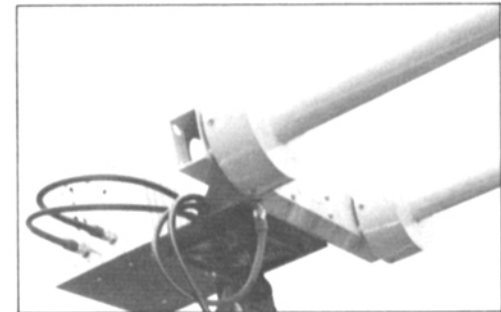
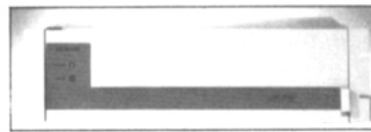
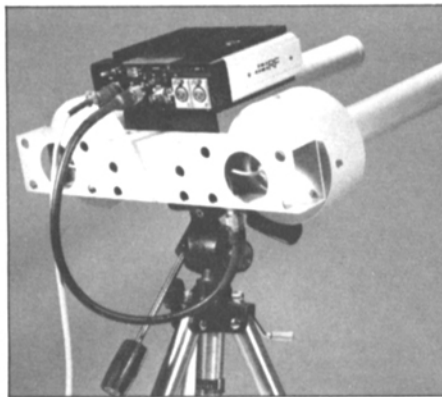
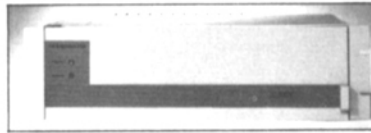
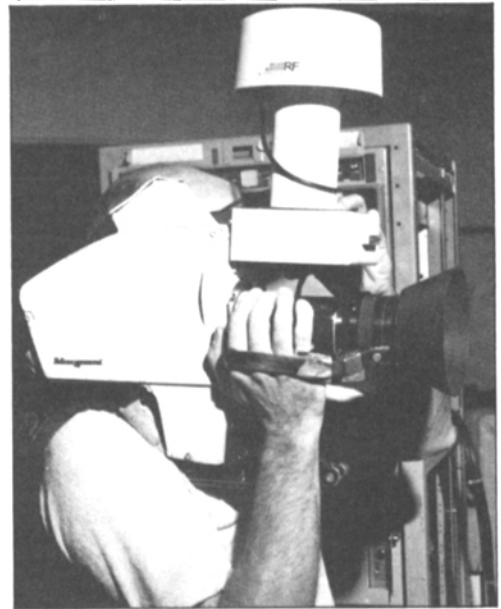
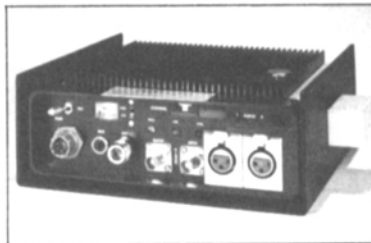
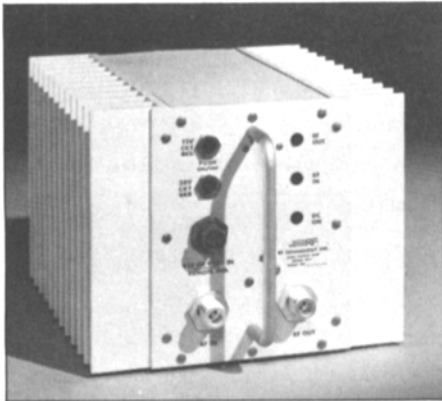
halogen lamp (depending on the model), a swingaway dichroic filter to provide proper color temperature at the turn of a knob, battery cable, slow or fast 1-h charger, a battery belt to power the lamp, and a portable padded carrying case. The 30-V, 7-Ah models employ a 250-W lamp that can operate for 40 min, or they can use a 350-W lamp that can operate for 30 min. The 12-V 14-Ah models employ a 100-W lamp that can operate for 80 min. The price range is about \$1024 to \$1375.



The Wheelit, Model IFP-20, a vehicle designed to assemble and transport all video equipment used in industrial television production, has been announced by Gruber Products Co., 5254 Jackman Rd., Toledo, OH 43613. The vehicle is said to be able to accommodate all makes of video cameras, cassette recorder with electronic editing, monitor, camera control unit, ac adapters, batteries and battery packs positioned so as to be ready to operate or transport. The load capacity is specified at 175 lb. The IFP-20 is constructed of heavy tubular steel and Formica laminated particle board. An optional elevator column and head provides taping capabilities directly from the vehicle. Price of the IFP-20 unassembled (without the elevator column and head) is \$225.

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.

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