

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.

The Marconi Mark 10, a compact color television camera, has been announced by GEC McMichael Ltd., Sefton Park, Bells Hill, Stoke Poges, Slough SL2 4HD, England. The camera uses 18-mm diode gun Plumbicons, and is suitable for both outside broadcast and studio use. It can be used with a wide range of lenses from 30X for OB to 14X for studio use.

The BVW-25, a self-contained field recorder/player and the **BVW-15 studio player** have been announced by Sony Broadcast Products Co., Sony Dr., Park Ridge, NJ 07656. The BVW-25 can record in component from either a component or composite input and provides a composite as well as a component output. For recording from a composite input, a Y/C separator incorporates a 3-line horizontal correlation filter. Other features



Sony Betacam BVW-25 recorder/player

include a TBC interface and a built-in time-code generator.

The BVW-15 features Dynamic Tracking® playback. It offers recognizable color playback at 5X search speed, and monochrome playback at 10X search speed. It



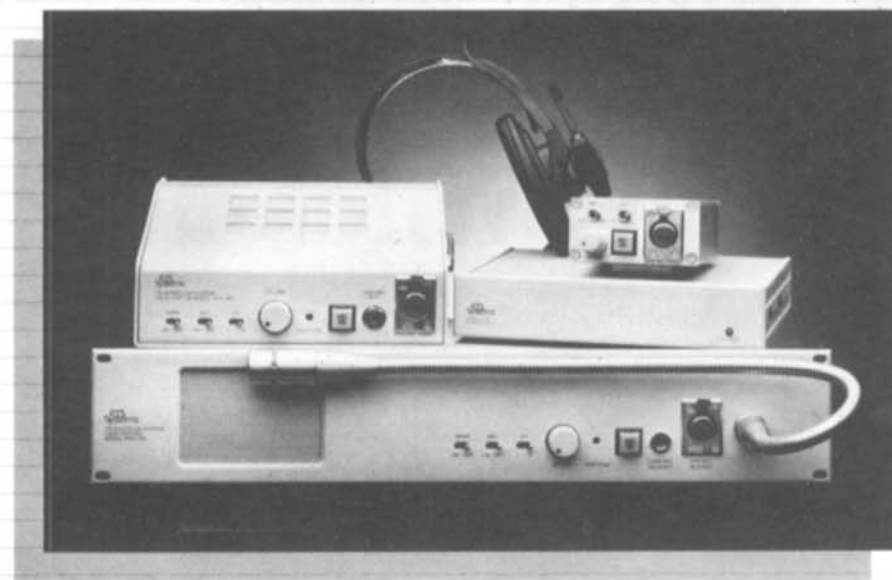
Sony BVW-15 studio player

can provide slow-motion playback at $-1\times$ to $+2\times$ operating speed. It also has still-frame picture capability.

The MK III_{HD}, an 1125-line flying spot, high-definition telecine, has been developed by Rank Cintel Ltd., Watton Rd., Ware, Herts SG12 OAE, England. The new telecine is based on the MK III_C telecine, but has been upgraded to operate on the 1125-line, 60-field, 2:1 interlace standard. It handles 35mm film at a fixed scanning speed of 24 frames/sec to produce an effective video bandwidth of 20 MHz. The MK III_{HD} was developed so that international libraries of high-definition material, namely 35mm films, could be transferred to video. The announcement noted that knowledge gained during the research would enable Rank Cintel to

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Studer for Film Production. For film audio applications, Studer offers a wide variety of recorders with pilot-tone and resolver capabilities. Standard versions include mono audio with pilot-tone (Neopilot® system) or stereo with FM pilot-tone, either with or without resolver modules. Systems are available in 1/4" or 1/2" tape formats, and with any combination of audio/pilot-tone track configurations currently in world use.

Both mono and stereo pilot systems – with record and playback capability – may now be incorporated in the new microprocessor-controlled A810 transport. Various other pilot-tone and resolver combinations are available with the Studer B67 and A80 transports. The fully modular design of all

Studer recorders allows easy modification for highly specialized applications.

Studer for Video Production. For years Studer multitrack recorders have been the overwhelming choice of the world's foremost music recording studios. Today, as sound quality becomes increasingly important in video production, more and more top video houses are turning to Studer.

Studer multi-track recorders are available in 4, 8, 16, and 24 track configurations. In demanding video post-production applications, the Studer A800 provides unsurpassed speed and versatility. What's more, the A800 is Swiss engineered for total reliability – and that means greater cost-effectiveness over the long run.

Studer's new video layback recorder, the A80VU-3-LB, is the first and only of its kind to handle both B & C format 1" video tapes. Studer's smooth, positive tape handling means you'll take no chances with your valuable video masters.

For stereo audio-for-video applications, Studer offers two recorders

designed from the outset to work with center-track SMPTE time code: the compact A810 and the new, ultra-sophisticated A820. Both recorders are Nagra compatible, and the unique time code system pioneered by Studer – utilizing two separate code heads with a microprocessor delay for offset compensation – remains the most elegant and flexible currently available.

In Sync with Studer. To tie it all together, Studer offers the TLS4000 universal modular resolver/synchronizer. More than just a SMPTE code synchronizer, the TLS4000 interlocks a wide range of audio, video and film equipment. For film applications it features resolver modes with programmable pilot reference frequencies.

Improve Your Image with Better Audio. For more information on Studer products for video and film production, please write or call: Studer Revox America, 1425 Elm Hill Pike, Nashville, TN 37210; (615) 254-5651.

STUDER REVOX

Did You Know?

SMPTE has a full line of test materials for television and motion pictures. The SMPTE has monochrome TV test patterns, color TV subjective reference films and slides, photographic sound test films, magnetic sound test films, and a complete range of projector performance films. Most TV films are available in 35mm, 16mm and in 8 X 10-inch and 2 X 2-inch transparencies. The sound films are available in 35mm and 16mm (the magnetic sound films are also available in super 8), and the projector performance films are available in 35mm, 16mm, super 8 and regular 8, depending upon the film type. Films are in stock for immediate shipment. All films are guaranteed.

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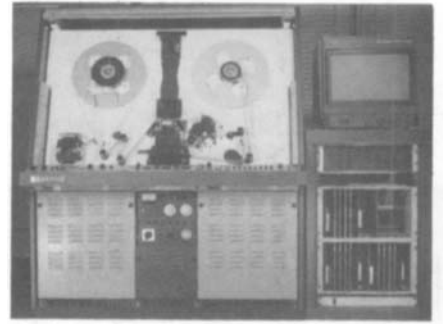
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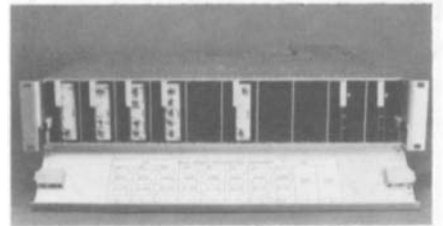
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Rank Cintel high-definition telecine

incorporate many of the HDTV benefits into PAL, NTSC, and SECAM telecine products.



Grass Valley distribution amplifier, 8500 series

A new range of video and audio distribution amplifiers, the 8500 series, has been announced by the Grass Valley Group Inc., P.O. Box 1114, Grass Valley, CA 95945. All models in the series feature differential inputs with six outputs. Circuit building blocks, such as input amplifiers, output amplifiers, and voltage regulators, have been reduced to individual hybrid integrated circuits that provide improved performance, unit-to-unit consistency, and ease of maintenance.

The Marconi B3410 digital line array telecine has been announced by GEC McMichael Ltd., Sefton Park, Bells Hill, Stoke Poges, Slough SL2 4HD, England. Using CCD image sensors and solid-state construction, the elimination of traditional scanning tubes has removed such problems as field flicker and phosphor grain effects. Features include X-Y zoom, Vari-speed, and a switching facility that enables the scanning standard to be selected between 625-line/50-Hz and 525-line/60-Hz.

SoundDroid™, a digital audio signal-processing system that can be used for editing, mixing, and synthesizing sound, has been announced by the Droid Works, an affiliate of Lucasfilm Ltd. and Convergence Corp., P.O. Box 2009, San Rafael, CA 94912. The system performs all processing functions normally required in audio post-production, including editing, multi-track recording, mixing, equalizing, panning, dynamic range, reverberation, and delay. The system features a control computer with a touch-sensitive screen that is used to mediate all oper-

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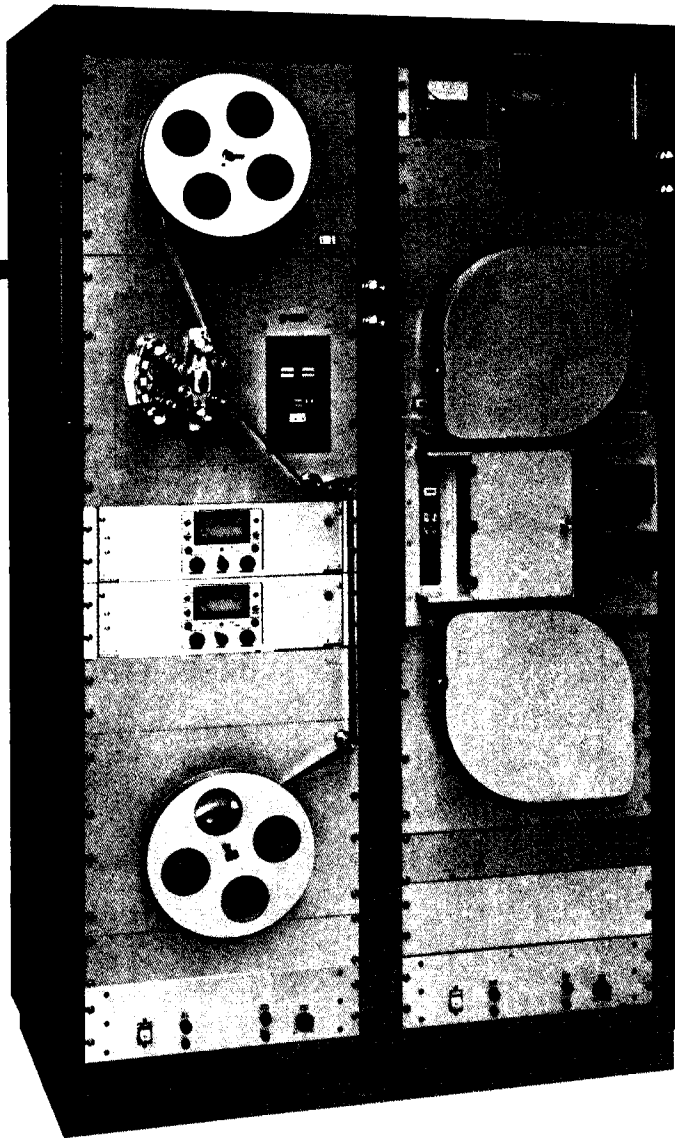
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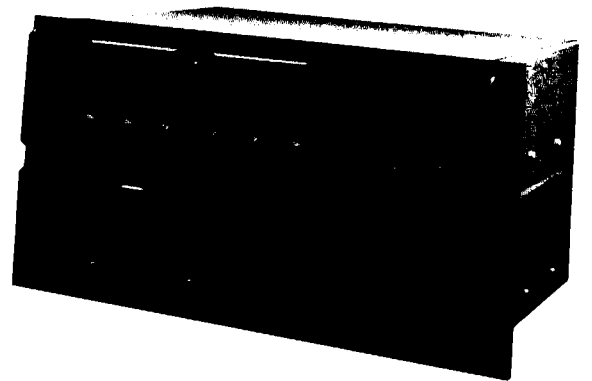
Can you do stereo?

Right now, the future of post production sound belongs to only a handful of studios in the whole world.

By 1990, stereo will be the standard theatrical motion picture sound format. Last year stereo movies accounted for 60% of the U.S. gross box office dollars, and the number of stereo releases is doubling every two years. And yet, less than 20 post production sound facilities throughout the world are equipped to produce stereo optical sound tracks.

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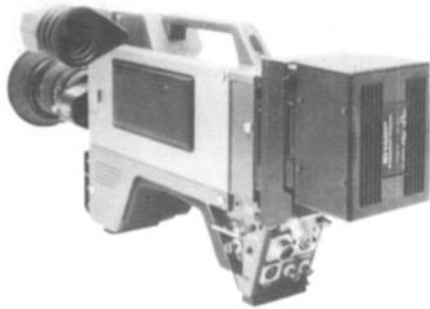
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ations and functions, and a bank of motorized faders, control knobs, and pushbuttons that relabel themselves depending on the function they perform.

The heart of the SoundDroid system is the audio signal processor, a proprietary, high-speed processor that has been optimized for digital audio. It performs all processing functions and retrieves and stores sound on magnetic disks. Within the audio processor are one or more digital signal-processing (DSP) boards that permit the SoundDroid to manipulate sound. A single SoundDroid system can be configured to accommodate up to 16 DSPs for processing of up to 256 channels.



Sharp Electronics component VTR adaptor

Component VTR adaptors, announced by Sharp Electronics Corp., 10 Sharp Plaza, Paramus, NJ 07652, are compatible with

either Betacam or M format, interfacing directly with either. The adaptors add only 1½ in. to the overall camera dimensions. Each adaptor has a built-in component color-bar generator with gray and white bar reference, a setup known as split-field reference.



Instrumentation Marketing HSV-200 video system

The Model HSV-200 high-speed video system, designed for analysis of problems associated with fast-occurring events, has been announced by Instrumentation Mar-

keting Corp., 820 S. Mariposa St., Burbank, CA 91506. The HSV-200 records fast-motion events at a rate of 200 pictures/sec. Events can then be instantly played back in slow motion, stop frame, or reverse to analyze and pinpoint problems that, under normal circumstances, happen too quickly to see.

The AU-IA30 serial interface has been announced by Panasonic Industrial Co., One Panasonic Way, Secaucus, NJ 07094. Designed for professional broadcast and teleproduction facility video equipment, the AU-IA30 allows for multi-source or interformat editing by interfacing Panasonic's AU-300Bs with 1 and ¾-in. VTRs in a single, versatile configuration. The unit also provides ¾ or 1-in. machines access to M-format direct systems control.

An interface for the EMME™ computerized editing system has been announced by EECO Inc., 1601 E. Chestnut Ave., P.O. Box 659, Santa Ana, CA 92702-0659. The interface makes the EMME compatible with the Hitachi HR-230 production reel-to-reel 1-in. videotape recorder. The EMME system allows precise control of multiple video recorders and a production switcher through interchangeable workstations to accommodate different editing styles.

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Sony View system

The View system, which combines a videodisc player and a microcomputer in a single package, has been announced by Sony Communications Products Co., Sony Dr., Park Ridge, NJ 07656. Components of the system are an internally expandable, quick-access LDP-2000 series videodisc player, and a 16-bit SMC-2000 microcomputer with micro floppy disks. The system permits the user to mix still-frame and moving video images and analog and digitally compressed audio from the videodisc with text and graphics generated by the computer.

Newstar, a satellite news-gathering van, has been announced by Conus Communications, 3415 University Ave., Minneapolis, MN 55414. Equipped with 35-A, 15-kW electric generators, the 22-ft-long van contains editing, cueing, and two-way communications systems that enable TV stations to broadcast tightly packed programming live. An on-board computer gives constant real-time readouts of breaking news stories around the nation while constantly tracking satellite transponder availability. The van is equipped with a 95-in. Ku-band uplink transmission dish that folds into the back of the van. The dish can be raised and aimed by one person.



Tektronix MP 2902 audio measurement package

The MP 2902 audio measurement package has been announced by Tektronix Inc., P.O. Box 500, Beaverton, OR 97077. The package includes a test program generation (TPG) tool, as well as stimulus,

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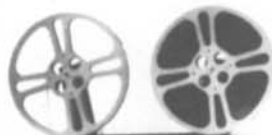
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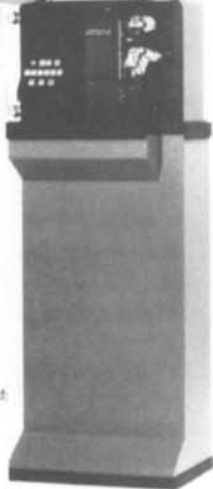
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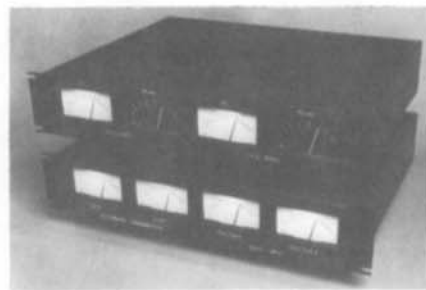
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Memo to Members: Have You Signed Up A New Member Lately?



As one who has chosen to belong to SMPTE, you are aware of the benefits of SMPTE membership. Among these benefits are the prestige of being associated with the world's premier professional organization in the fields of motion pictures and television, the monthly *SMPTE Journal*, the local section meetings, and the annual conferences and equipment exhibits. If you know someone who meets SMPTE's requirements, you can offer to sponsor him or her for membership. This is the best way to help strengthen the Society and point someone toward increased professional growth. Applications are available from SMPTE Membership Dept., 862 Scarsdale Ave., Scarsdale, NY 10583.

measurement, and control capabilities. Also included are a programmable distortion analyzer, a programmable oscillator, a power mainframe, an instrument controller, and a color graphics display. In addition to the TPG software, the controller software includes packages for graphics, plotting, and utility functions. Eleven of the most common audio tests are predefined by the TPG's interactive menus. A frequency sweep function enables program selection of start/stop frequencies, time per step, numbers of steps, and linear or logarithmic sweeps. Output is also program-selectable for balanced or unbalanced, floating, or grounded applications.



B&B Systems M-4 audio meter panel

The M-4 audio meter panel, featuring four meters in a 3 1/2-in. rack panel cabinet, has been announced by B&B Systems, 2811 N. Ave. Stanford, Valencia, CA 91355. A wide range of applications includes television broadcasting, production, and post-production. The M-4 is available in any combination of VU or peak program meters. Separate input circuits for each meter include buffered, balanced, and active bridging electronics.

An on-line method of testing audio lines, has been announced by Torpey Controls & Engineering Ltd., 2220 Midland Ave., Scarborough, Ont., Canada M1P 3E6. The unit cycles continuously through six pre-selected tones from 100 to 15,000 Hz, while displaying their frequencies on the video line. Applications include network line checks and videotape leaders. It occupies only one rack unit.



Studer Revox B215 cassette deck

The Revox B215 cassette deck, designed for cassette recording applications, has been announced by Studer Revox America Inc., 1425 Elm Hill Pike, Nashville, TN 37210. Features include an automatic alignment system to calibrate the deck. Operating under microprocessor control,

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the alignment system uses test tones at three frequencies (400 Hz, 4 kHz, and 17 kHz) to set bias and equalization. The 20-sec procedure aligns the two stereo channels independently. Once the calibration is complete, the setting can be stored in digital memory for instant recall. Settings for up to six different tape formulations can be stored.



Lenco 600 system audio distribution components

The 600 system audio distribution components have been announced by Lenco, Inc., 300 N. Maryland St., Jackson, MO 63755. The new components are versatile, permitting the mixing of Lenco's audio and video distribution equipment in any desired combination. The system's mainframe includes a power supply, switchable tap transformer, 9-position interconnect mother board, RFI shielding, and a modular design for the rear panel.



Studio Technologies AN-2 stereo simulator

The AN-2 stereo simulator has been announced by Studio Technologies, Inc., 7250 N. Cicero Ave., Lincolnwood, IL 60466. The device is a sound processor designed to create a wide range of effects, including stereo from any mono source. The stereo signal is mono-compatible. In addition, the AN-2 has a proprietary circuit that randomizes the nonrecursive filtering process, thereby avoiding the harmonic harshness that can result from stereo simulation with delay lines.

The MX-P3000 a studio mixing console has been announced by Sony Communications Products Co., Sony Dr., Park Ridge, NJ 07656. Described as a "ready-for-digital" analog console, the product uses linear crystal, oxygen-free copper audio cable throughout. Low-noise hybrid technology has been employed in all appropriate signal-processing areas. Features include unipoint grounding methods and a frame-accurate hard disk automation system that employs addressable faders. Fader assignment and fader commands are communicated to the automation system via a wireless IR keyboard on the front of the console. The data is stored

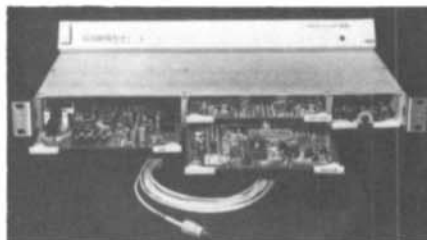
on a hard disk. Metering is available in either mechanical VU, PPM, or vacuum fluorescent configurations.



Panasonic WR-S216 audio mixer

Three new RAMSA stereo mixing consoles, Models WR-S208, WR-S212, and WR-S216, with 8, 12, and 16 inputs, respectively, have been announced by Panasonic Industrial Co., One Panasonic Way, Secaucus, NJ 07094. The consoles have a wide range of applications, including broadcast, production, and post-production. All three consoles can be used with a variety of input sources, including direct line inputs, tape decks, compact disk players, turntables, and VCRs.

The PCU-900 series UHF and the PCN-1400 series VHF television transmitters have been announced by NEC America, Inc., 130 Martin Lane, Elk Grove Village, IL 60007. Both series are multi-channel sound-compatible and can be used with any of the currently available stereo generators without modification.



Grass Valley Model 3291-10T transmitter

Wavelink fiber-optic transmitters and receivers, manufactured by the Grass Valley Group Inc., P.O. Box 1114, Grass Valley, CA 95945, communicate video, audio, and data across fiber-optic cable. Model 3290-10T transmits any wideband 10-MHz signal, such as broadcast-quality video or data. Digital transmission rates as great as 3.5 Mbit/sec can be accommodated on a single channel. Model 3291-10T transmits 5.8-MHz video. Subcarriers for transmitting FM audio and/or RS-232C data can be provided on the same channel with the video.

The TTG-60U, a 60-kW UHF broadcast transmitter, has been announced by RCA Broadcast Systems Div., P.O. Box 900, Gibbsboro, NJ 08026. The TTG-60U is completely solid state except for the two final power amplifiers. S series 60-kW VKP-7553 klystrons are used in both the visual and aural amplifiers. All of the

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The TSH gauge series locates problems causing edge damage and binding cassettes, the two biggest causes of tape destruction—available in 3 format sizes for Beta/Betacam, VHS/Recam, and mini/full size U-matic VCR's.

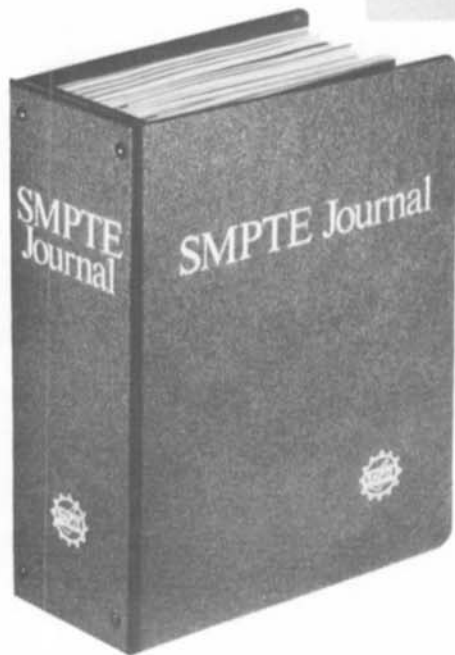
The New HPG head protrusion gauge series represents a breakthrough for an accurate, easy to use method of determining head life; takes the guesswork out of video head replacement. The HPG-1 for Beta/Betacam, VHS/Recam, and U-matic VCR's measures head tip protrusion and drum eccentricity in both microns and ten thousandths of an inch. The New HPG-C is the first universal head protrusion gauge for the SMPTE 1" Type "C" VTR's and measurements conform to the SMPTE measurement specification. These gauges also can be used for measuring drum eccentricity. These 3 products allow the entire mechanical performance of a VTR or VCR to be measured in just a few minutes, with no more disassembly required than the removal of the top cover on a VCR.

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transmitters in the TTG-U line are designed to operate with all existing and proposed stereo and multi-channel TV sound systems, providing two 75-ohm wideband multi-channel baseband inputs and a standard 150/600-ohm input for main-channel monaural service.

An experimental HDTV production switcher has been developed by Grass Valley Group Inc., P.O. Box 1114, Grass Valley, CA 95945. The new switcher is based on Grass Valley's 300 series NTSC/PAL switchers. The experiment was aimed at proving the feasibility of applying sophisticated mixing and special effects techniques to the 1125-line/60-field HDTV standard. The switcher is a 3-channel device, operating in an RGB mode. Several new components, including proprietary semiconductor devices, were developed for the project.



Feathercam Handy-Cam camera stabilizer

The **Handy-Cam camera stabilizer**, announced by Feathercam Inc., 7240 Valjean Ave., Van Nuys, CA 91406, is based on the principle that the human arm is an effective stabilizer. Designed to capture stable, action shots on the move, Handy-Cam will accept a variety of lightweight 16mm, 35mm, and video cameras. A retractable center post allows stable cinematography in confined areas. The 24-V rechargeable battery system also functions as a stabilization counterweight.



Colortran 192 dimmer pack

The **192 dimmer pack**, using plug-in dimmer technology, has been announced by Colortran, Inc., 1015 Chestnut St., Burbank, CA 91506. The 192 is available with twelve 2.4-kW or six 6.0-kW dim-

mers in plug-in modules. A plug-in control module accepts a variety of inputs, including digital and analog control signals.



Arriflex Arrisun lighting fixtures

The Arrisun 5 and 12 lighting fixtures, utilizing sealed-beam daylight PAR lamps, have been announced by Arriflex Corp., 500 Rt. 303, Blauvelt, NY 10913. The fixtures (575 and 1200-W) are said to have extremely powerful output, making them useful for interior bounce and exterior punch lighting. The lights feature thermoplastic housings rotatable 360° for precise beam positioning, aluminum inner housings to prevent spill and improve weatherproofing, and easy lamp access with safety cutoff switch.

Also announced was a new HMI fresnel location fixture, the ARRI 12K. Providing 12,000 W of daylight, it utilizes the same size head as the ARRI 6K HMI.

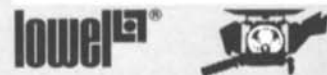
The SCAT™ documentation system, designed by Delcom Corp., 6019 S. 66th East Ave., Tulsa, OK 74145, is intended to translate engineering data into specific cable marker statements that can be understood by even nontechnical personnel. The connection and tracing program identifies each cable in any system. It identifies each cable end by rack, device, and name of the connection.

The StarGate 626 digital reverb has been announced by Ursa Major, Inc., P.O. Box 28, New Town Branch, Boston, MA 02258. The 626 is an improved version of the StarGate 323 with eight new reverb and effects programs added to the eight "rooms" of the 323 while maintaining the same 15-kHz bandwidth and 80-dB dynamic range. Features include 256K RAM chips which make possible expanded memory with 2-sec delay time. Other features include a fast-diffusing plate-type program with no discrete pre-echoes, a reverse reverb with adjustable decay time and duration, and three full-bandwidth delay lines with adjustable delay time and feedback gain. One program is mono, one stereo, and the third produces alternating channel outputs.

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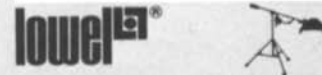


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