

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.

The new Gauss 1200 cassette audiotape duplicator, said to provide a duplication rate of 64:1, has been announced by Cetec Audio, 13035 Saticoy St., North Hollywood, CA 91605. A companion 64:1 conversion kit is available to permit earlier models to be converted to the new system, the announcement stated. The maximum duplication ratio was raised from 32:1 to 64:1 by using a 3 3/4 in/s master played back at 240 in/s with slaves running at 120 in/s. The gap of the Gauss system heads were decreased to assure precise reproduction of the shorter wave length at 3 3/4 in/s.

The kit includes amplifier cards and head assemblies for both master and slave units.

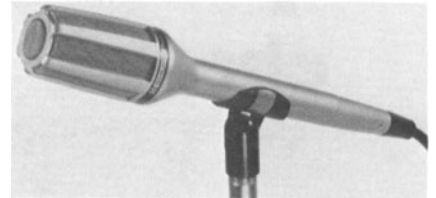
A typical system, including a master, a 1-in bin and five slaves is priced at \$95,640. Optical

spares and parts are priced at \$7,152. Total price for a typical system with optional spares would be \$102,792.

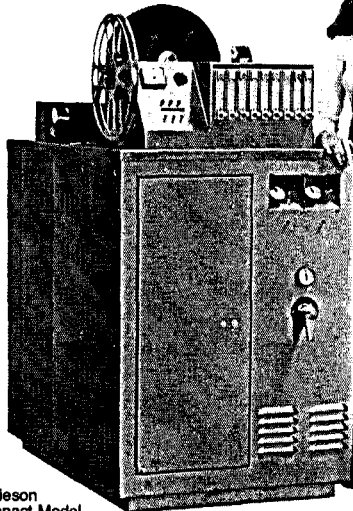


The new AKG dual-diaphragm C-414EB studio condenser microphone has been announced by Philips Audio Video Systems Corp., 91 McKee Dr., Mahwah, NJ 07430. It is a redesigned version of the dual-diaphragm C-414 microphone. All switching controls are contained within the microphone. The twin-diaphragm

design provides for the selection of four different polar patterns (cardioid, omnidirectional, figure-eight, hypercardioid) for varying recording situations. Pre-attenuation levels of 0, -10 and -20 dB are provided for close-up recordings. A base-cut filter of more than 14 dB/octave slopes provides flat, 75 Hz or 150 Hz cutoff frequencies to offset extraneous vibration and/or proximity effects. An all-metal housing is used to add to the rejection of RF interference. Using a standard XLR type connector, the microphone may be energized via 12/48 V phantom powering thus further minimizing the possibility of extraneous interference. The C-414EB is priced at \$495. A new elastic suspension providing superior isolation is available as an option.



A new dynamic type microphone called the SM59 has been announced by Shure Brothers Inc., 222 Hartrey Ave., Evanston, IL 60204. Features include a wide 50-15,000 Hz frequency response providing clean, natural reproduction without a presence peak in the higher frequency range. The unit has an antifeedback, cardioid pickup pattern. Features also include a mechano-pneumatic shock mount system to reduce mechanical noise and pickup of floor and desk stand vibrations. The microphone weighs 215 g and is 197.3 mm long. The price is \$132.



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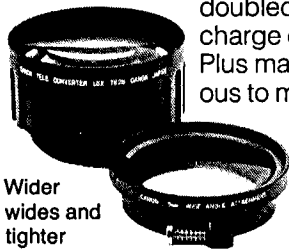
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documentary model in the world. Now, far more versatile and flexible than ever.

Our latest Scoopic embodies and refines the most popular qualities of the famous original Scoopic 16: Compactness. Light weight. Extreme ruggedness and reliability. Easy point-and-shoot handling. Economy. Features that quickly

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Wider wides and tighter telephoto shots.

that boosts continuous capacity to 400', without losing the camera's internal 100' capability. For sync sound, there's an optional internal crystal control, accurate

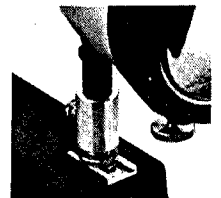
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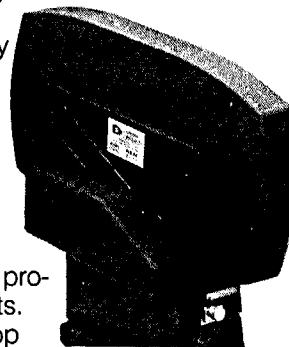
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Our new Scoopic also boasts Supplementary lenses for 9mm wide-angle and 112.5mm telephoto shots with no f-stop loss. And a host of other accessories, including: Remote control. Sound barneys for use with and without magazines. Cold weather shooting case. Even a light-mounting stud to eliminate extra brackets and bulky adaptors.

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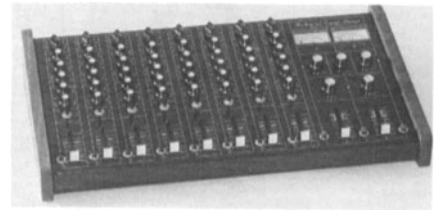
3245 American Dr, Mississauga, Ontario,
Canada (416) 678-2730



A television audio console with 16 inputs and four outputs has been announced by Opamp Labs Inc., 1033 North Sycamore Ave., Los Angeles, CA 90038. Features include 16 inputs — microphone, line and cue (optional); input select — 0 dB, -10 dB, -20 dB, -30 dB mike level; line 1 (transformer 10 kHz input); line 2 (50 Hz, 100 Hz, 1 kHz, 5 kHz, 10 kHz oscillator). Echo — 1 channel (16 send and one receive to output

channel 1). Low frequency EQ — ± 12 dB, 40 Hz (shelf), 100 Hz (shelf), 300 Hz (peaking). High frequency EQ — ± 12 dB, 1 kHz (peaking), 3 kHz, 5 kHz, 10 kHz (shelf). Four outputs — four alternate action lighted pushbutton switches. Meter — 4 to $4\frac{1}{2}$ Simpson lighted VU meters for output assign channels. Monitoring — boom-line assign and feed; slate mike-line feed; mixer-line assign and feed; director-line assign and feed. Power supplies — external rack mounted. Size — 40 in wide, 30 in deep and 13 in high. Weight — 100 lb. Price, \$5900 (kit); \$10,000 (wired).

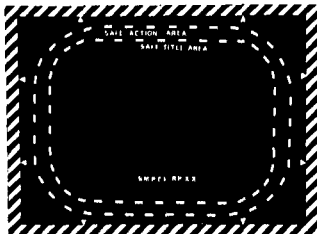
The Richmond Sound Design Model M82B Broadcast Audio Control Console has been an-



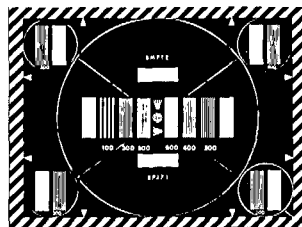
nounced by Listec Television Equipment Corp., 39 Cain Dr., Plainview, NY 11803. The console has eight channels, each with three balanced, transformerless inputs. Features include switch-selectable line inputs and microphone attenuation for each input channel, and continuously variable foldback or echo send mix, and equalization on all channels. Other features include unitized expandability up to 24 channels and complete monitoring facilities. The console weighs 25 lb. The price is \$2195. A four-channel extender, the S42B, is available at a price of \$895.

SMPTE

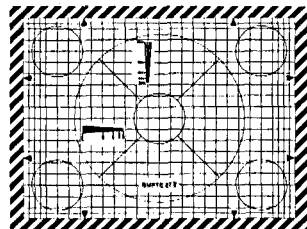
Television Test Films & Slides



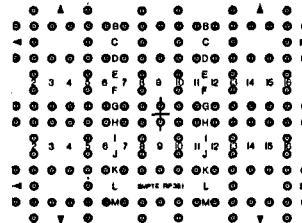
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Operational Registration



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SMPTE's TV test films and slides are used for setting up and checking television studio cameras and telecine systems. These are manufactured under carefully controlled conditions to insure constant dimensions and densities.

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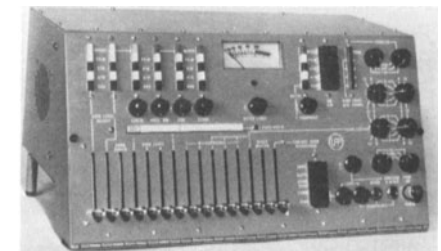
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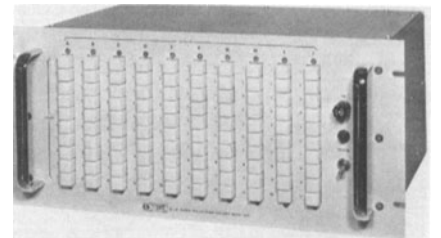
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Don't Miss the 119th SMPTE Technical Conference and Equipment Exhibit, Oct. 16-21, 1977, Century Plaza Hotel, Los Angeles.

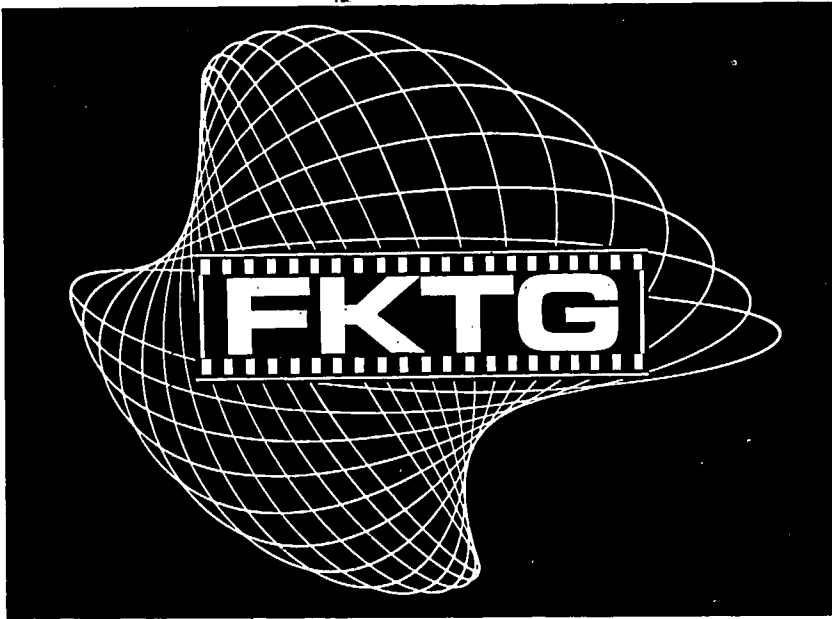


The MS-105, an audio mixer/master-control for television studios has been announced by Ultra Audio Products, Box 921, Beverly Hills, CA 90213. The MS-105 mixes 13 high- and low-level sources. Features include group mastering, auditioning of microphones and high-level sources. Other features include variable equalization, studio warning light, reverberation circuit, compression, cuing and others. The master control allows the airing of one program while prerecording another. Price of the MS-105 is \$1595.



A 10 x 10 matrix (Model 1010) providing pushbutton assignment of any combination of 10 input audio lines to any combination of 10 output lines has been announced by Opamp Labs Inc., 1033 North Sycamore Ave., Los Angeles, CA 90038. Isolation between input lines is 80 dB and any number of input channels may be assigned to one output channel. The matrix eliminates patch bays with their cords. Features include plug-in solid state amplifiers and transformers and barrier terminals on the rear for input and output. The unit is 7 in high, 19 in wide and 14 in deep. It weighs 35 lb. The price is \$2000.

The CPR-16 Computer Programmed Reverberation simulator has been announced by Quad/Eight Electronics, 11929 Vose St., North Hollywood, CA 91605. Designed to provide reverberation effects including acoustic chambers,

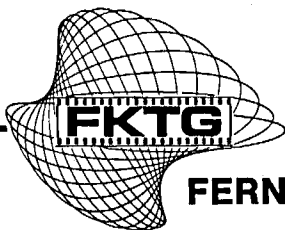


DIE FERNSEH- UND KINO-TECHNISCHE GESELLSCHAFT (FKTG)

In the Federal Republic of Germany, the tasks and aims of the "Fernseh- und Kinotechnische Gesellschaft (FKTG) e.V." are similar to those of the "Society of Motion Picture and Television Engineers (SMPTE)". The two societies are on a friendly footing and good personal contacts exist between many individual members too.

Apart from regional meetings, the FKTG arranges a large international symposium every year. This year, it will take place in Kiel, from September 19th til 23rd. Papers will be read on video technology, receiver and transmission techniques, and cinematography.

The presidium of the FKTG would be pleased if as many SMPTE members as possible could attend the convention in Kiel, as this would serve to promote the good relations between the two societies. The program and details concerning the event are available from the office of the FKTG Secretary, Mr. Georg Dreschsler, c/o ZDF, D 65 Mainz, P.O. Box 4040, West Germany.



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The President
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- Super Stix with Miller F\$695
- Super Stix with Ronford F-2\$995
- Super Stix with O'Connor 30\$960

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mechanical plates, spring systems and tape loops, the device is a digital electronic package measuring 5 1/4 x 14 in and fitting the standard 19-in rack. A programmable microprocessor which has full 16-bit digital arithmetic allows future expansion for special signal-processing effects. Control functions on the front panel include reverb time, 250 ms to 20 s; room size (decay time setting); high-frequency damping; and low-frequency filtering. The CPR-16 is priced at \$5995.



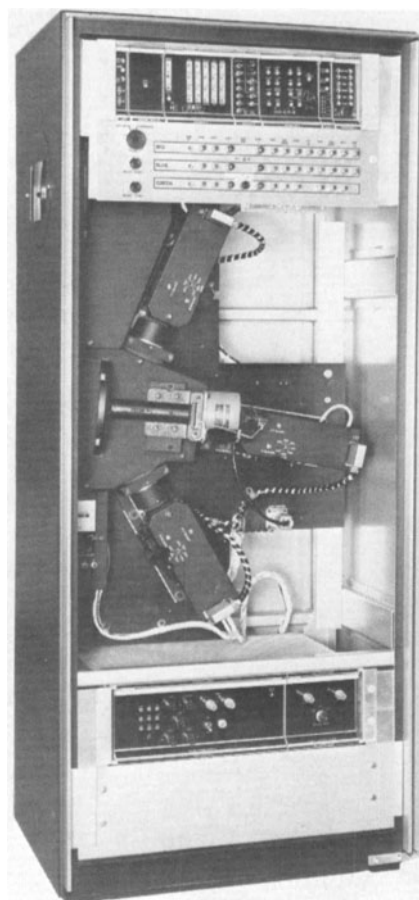
The XSD-II modified stereo cassette recorder, an improved version of the XSD, has been announced by Super8 Sound, Inc., 95 Harvey St., Cambridge, MA 02140. It has Dolby noise reduction circuitry, a limiter, and an internal 60 Hz crystal-generated signal on one stereo channel. The XSD-II, based on the Sony TC158-SD recorder, has certain advantages over the earlier model. It is smaller and lighter (10 lb, 9 oz with batteries); has improved frequency response (30 to 15,000 Hz) and improved SNR (59 dB with Dolby off; 64 dB with Dolby on). The new recorder also has more effective separate bias and equalization switches offering nine possible combination settings, improved wow and flutter (0.2%), full automatic shutoff in all modes, LED peak-level indicators in record mode and timed lights on VU meters. The XSD-II is priced at \$650. Various accessories are available including a completely redesigned XSD Resolver for transfers to 16mm magnetic film. The price is \$300. No resolver is necessary for transfers to super-8 fullcoat using either Super8 Sound Recorder I or II.

The PEM 468 mastering audiotape developed by Agfa-Gevaert in Belgium is now available in the United States it was announced by Agfa-Gevaert Inc., 275 North St., Teterboro, NJ 07608. A high output, low noise, low print mastering tape, tolerances are ± 1/4 dB within a roll and ± 1/2 dB from roll to roll. The highly tensilized polyester base reduces the possibility of stretching due to equipment malfunction. Should there be an equipment failure, the PEM 468 will break rather than stretch. The tape is available on 1/4-, 1/2-, 1-, and 2-in hubs and 1/4- and 2-in reels. Prices range from \$9.68 for 1/4-in x 2400 ft hub to \$85.30 for 2-in x 2400-ft reel for orders up to \$1000 and lower for orders over \$1000.

The Fujica ZXM 500, a new 8mm sound camera having an f/1.3, 5:1 zoom lens and total rewind capability, has been announced by Fuji Photo Film U.S.A., Inc., 350 Fifth Ave., New York, NY 10001. Designed for existing-light sound filming, the ZXM 500 can provide a full range



of image perspectives from extreme wide angle to telephoto. For special effects including lap dissolves, the camera offers total film rewinding. Other features include a total information finder system, a reflex system providing accurate, through-the-lens observation. It incorporates a split-image rangefinder for accurate focusing in dim light even at f/1.3. Also incorporated is a special capstan drive designed to eliminate any delay between the start of recording and the start of filming for completely synchronized sound. Price of the ZXM 500 is about \$495.50.



The TK-28A television film system, used for originating television broadcasts from film and also for teleproduction and corporate communications television programming, has been announced by RCA Broadcast Systems, Front and Cooper St., Camden, NJ 08101. The TK-28A is equipped with a 1-in Saticon tube designed to

improve the system's performance by reducing "lag." The Saticons also provide uniform sensitivity for clear, sharp pictures.

The TK-28B includes circuitry which automatically corrects errors in television film caused by film aging, improper exposure or errors in processing. The system, known as ASCET (Automatic System for Correction of Errors in Telecine), includes circuitry to control black level, white level, flare, black balance and white balance and to automatically detect and correct minute errors in mid-gray tonal areas while the film is on the air. The TK-28B also uses a new combined aperture correction system which allows for operation with either in-band, wide-band or combined wide-band/in-band correction for the best choice of correction consistent with firm resolution, grain and scratch. The TK-28A is priced at about \$39,000 and the TK-28B (including ASCET) is priced at about \$59,000.

A new television image enhancer with an internally-generated output suitable for chroma-key application has been announced by 3M Company's Minicom Division, P.O. Box 33600, St. Paul, MN 55133. Designated Model 6220 In-Line Image Enhancer, the device accepts NTSC color video signals from a camera and provides both horizontal and vertical enhancement. For chroma-key operation, an auxiliary output provides a keying signal which may be applied to the key input of a switcher for chroma-key effects. An "automatic detail gain" is incorporated to adjust automatically the detail gain if the input signal was previously enhanced. Other controls include detail gain, coring adjust, level-independent aperture equalization, horizontal and vertical balance and by-pass switch. The horizontal enhancement frequency is approximately 3.1 MHz. Delay is approximately one horizontal line. Model 6220 is priced at about \$3400.



A digital video frame synchronizer designed to produce a smooth intermix of remote and studio video sources into newscasts and other live programs and to provide visual effects such as stop motion and compressed picture has been announced by RCA Broadcast Systems, Front and Cooper St., Camden, NJ 08101. Designated the TFS-121, the system locks automatically to station sync all non-synchronous signals such as

remote pickups or satellite and network feeds without disrupting a live show in progress or program production and recording at the station. The system accepts a nonsynchronous signal from any external source, converts it from analog to digital format and stores it in memory. The unit stores two complete television fields, a full frame. The signal then is converted back to analog and processed through a processing amplifier. Sync, blanking and color burst signals from an internal color sync generator are added to the output picture. The picture information stored in memory is read out at a rate which is synchronous with the local station sync generator timing system. The signal from the video synchronizer can be used for mixing, special effects, chroma key, etc., along with signals from the live cameras, tape machines or other sources already operating synchronously with the local plant.

A picture compressor option is available which allows a full television picture to be compressed to one-fourth size and positioned in a selected portion of the television screen.

Price of the TFS-121 is \$39,900. The picture compression option is priced at about \$15,000. Also available as an option is a still-picture mode of operation enabling a single picture to be retained on the screen as long as desired. The option is priced at \$3600.

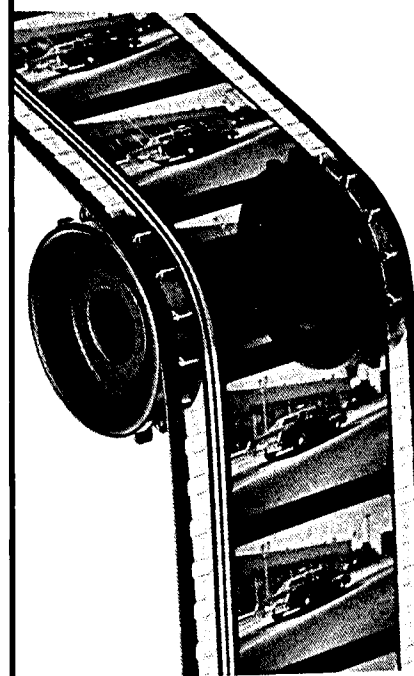


A television line selector designed to provide a plug-in solution to waveform triggering on oscilloscopes, manufactured in Great Britain by Matthey Printed Products Ltd., has been announced by the United States representative, Television Equipment Associates Inc., Box 260, South Salem, NY 10590. Designated the 2506 TV Line Selector, the instrument combines line recognition and selection with a digital delay to provide triggering for each line in the NTSC system. The instrument is connected at the video source — which should be at levels of ± 8 dB — and the oscilloscope. When its thumbwheel is set to a coded line number, a pulse is generated which coincides with the sync pulse of the selected line to provide a jitter-free waveforms. The device, which operates from a 110-V, 60-Hz power supply, measures $6 \times 3 \times 2$ in and weighs 2.2 lb. The price is \$600.

The Moviemaker™ Cinema I super-8 movie projection system featuring a 2-hour endless loop cartridge has been announced by General Production Services, Inc., 883 South East St., Anaheim, CA 92805. The system, formerly available only for airline applications, can now be used in many other situations, such as a restaurant, mini-theater, or in any situation where a feature film or long-playing capability is required. The units can be provided with dual sound playback for super-8 dual sound films with either magnetic or optical soundtracks. There are numerous options available including such features as full remote control. In some

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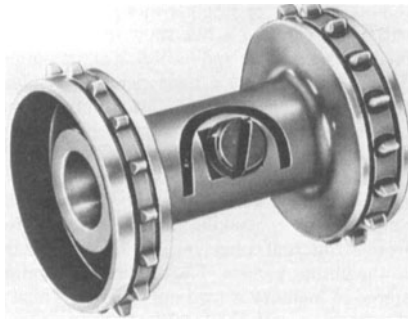
What's more, Posi-Trol sprockets are designed to maintain film integrity, relieving problems of torn perforations. And Posi-Trol sprockets can limit the need for secondary guide components to simplify camera and projector design.

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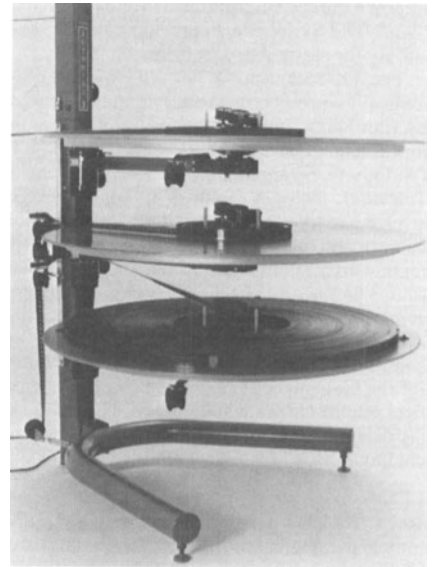
LaVeZZi
machine works, inc.

applications a hidden projector can be operated from 100 ft away. No special training is required for operating the projector which is a simple plug-in type. The basic unit is priced at \$1400.

The Posi-Trol positive control sprockets designed to restrict side-to-side movement of 35mm motion-picture film in a camera or projector thus minimizing chances of film damage have been announced by LaVeZZi Machine Works, Inc., 900 Larch Ave., Elmhurst, IL 60126. The Posi-Trol sprockets have a row of teeth 0.106 in wide that interface with 0.110-in-wide film perforations said to reduce the maximum lateral slippage to 0.004 in. This acts to stabilize the image on the film in a camera or the projected image on a theater screen. The



teeth in the second row are 0.065 in wide to compensate for any variation in the width of the film. The price range is from \$25.50 to \$35 depending on the quantity ordered and the specifications.



The Autowind III, a third generation model for the automation of 35mm projection, has been announced by Christie Electric Corp., 3410 W. 67 St., Los Angeles, CA 90042. Among the improvements of the Autowind III over earlier Autowind models are new platters with aluminum covering for extra stability and a more compact design to save floor space. Plug-in circuit boards are located at the top of the vertical column for easy access and to eliminate mechanical misalignment of the module. Other features include direct drive motors for the platters and the make-up table to provide smoother and quieter operation; adjustable feed and take-up rollers for more versatile positioning in the projection room; and SCR solid state speed control for stable operation. Service lights are provided above the two lower platters for ease of operation in the darkened projection room. The control to prevent film jamming has been improved and simplified. Price of the Autowind III is \$4630; with a make-up table the price is \$5225. Also available is a five-platter version at a price of \$7255.

The A/V Tote™, a lightweight case for carrying, storing and protecting the multimedia components of an audiovisual presentation, has been announced by Plastic Reel Corp. of America, 640 South Commercial Ave., Carlstadt, NJ 07072. The case, measuring 11½ × 16 × 3 in can carry a wide variety of materials including super-8 cartridges, filmstrip and cassette combinations, ¾-in videocassettes, 35mm slides and rotary slide trays. The inside of the case can contain a vacuum-formed insert to hold the contents securely during transit and to cushion them against impact. Standard interiors can be designed to meet individual requirements. Prices range from \$6.30 to \$9.45.

A new Plio-Magic® 16mm, 1200-ft motion-picture film reel has been announced by Plastic Reel Corp. of America, 640 South Commercial Ave., Carlstadt, NJ 07072. A new hub design reinforces the body of the reel providing strength and rigidity to help prevent deflection of the flanges and to eliminate openings that trap cleaning fluids. Hardened steel inserts molded into the center of the reel are used to prevent wear and damage from winding torque. The size of the flanges has been increased to provide larger areas for labeling and imprinting. Footage and metric markings appear on both sides of the reel for easy identification. Price of the new reel is \$1.77.

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