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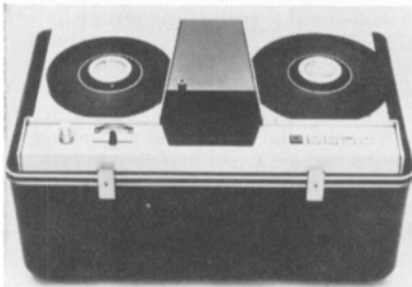
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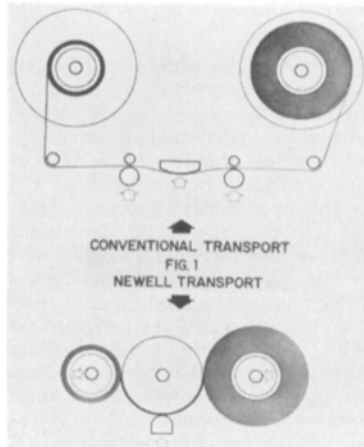
**new
products**

(and developments)

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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.



A new video-tape recorder which has a high-speed transport using only three basic rotating parts has been introduced by Newell Associates Inc., 155 San Lazaro Ave., Sunnyvale, Calif. Tape speeds are up to 1,000 in./s with bandwidths of over 10 MHz. A speed of 4,000 in./s with a bandwidth of more than 50 MHz is said to be possible using the principle of the new transport. Limiting factors, such as flutter, wow, tape skew and related problems have been reduced, and tape travel can be reversed from full speed forward to full speed reverse instantaneously. Recorders using the principle are self-threading and require no cartridges or flanged reels. The tape can contain as many as 50 tracks per 1/2-in. of tape.



The new transport is the result of more than five years of research. Early research and development efforts were aimed at significantly increasing the surface velocity of magnetic tape motion past the recording head and, at the same time, improving the efficiency of packing information on the

tape. A method of transporting tape was finally evolved which eliminated the requirements for the magnetic tape to act as anything but an information carrier. By using a single power source at the central drive capstan and coupling all mechanical power into the system at the rims of the tape rolls rather than through the tape itself, the purpose was accomplished. On the Newell transport, the tape never exists as an open filament but only in a solid-packed condition. The tape rolls become literally solid discs of plastic since the normal lubrication effect of air film entrapment between layers is eliminated by the "squeegee" action as the tape is rolled under compression upon the tape roll. Since no power is transmitted through the tape, and the tape exists nowhere in an unsupported condition in the system, rapid acceleration and deceleration can be accomplished without tension effects on the tape.

The company has also introduced a tape reel for home audio recorders containing a complete LP album with 44 min playing time, and measuring less than 2 in. in diameter.

A number of firms have been licensed to use the tape transport principle in various configurations such as instrumentation applications, data recording, tape duplication and audio-visual applications.

A battery-powered portable video-tape and camera combination designed primarily for remote high-speed taping of news events by a single operator has been announced by Ampex Corp., 401 Broadway, Redwood City, Calif. 94063. Designated Model VR-3000, the recorder weighs 35 lb and is said to produce either high-band or low-band monochrome tape that may be immediately replayed on the air on any standard transverse (four-head) studio recorder. It is also capable of recording high-band color from studio color cameras without modification. In a carrying case it measures 23 by 12 3/4 by 6 in. It records up to 20 min of video action and sound on an 8-in. reel of 2-in. video tape. The battery permits 20 min of continuous recording without recharging and an additional 20 min of preview operation of the camera only or live telecasting. The accompanying camera, which weighs 13 lb employs a Plumbicon tube. The system, including recorder and camera, is priced at \$65,000.

New 17-in. and 23-in. video monitors designed to assure a stable picture under adverse conditions have been introduced by Conrac Div., Giannini Controls Corp., 600 N. Rimsdale Ave., Covina, Calif. 91722. Designated Models RVB17/C and RVB23/C the monitors are said to provide stable pictures even from industrial cameras which produce other than EIA sync waveshapes. A differential input minimizes hum and other extraneous pickup on long video cables. A separate sync channel with independent gain control is used to assure positive interlace and stability. Video response is flat to 10 MHz. Underscan coils permit operation at reduced scan showing all four picture corners.



A monitor/viewfinder television camera called the TCM-20 has been announced by Concord Electronics Corp., 1935 Armadillo Ave., Los Angeles, Calif. 90025. The camera features a built-in monitor with a 6-in. screen on the rear of the camera so that the operator can view the picture being recorded while operating the camera. A 3-position switch on the camera allows it to operate as a camera, a combination camera/monitor while recording on the Concord VTR-600 video-tape recorder, or as a monitor for playback of the video-tape recorder. A standard control panel below the monitor permits the operator to make immediate adjustments for vertical and horizontal hold, brightness and contrast. Automatic light correction is also provided. The camera operates with internal or external synchronization providing for random or fixed interlace scanning. Dimensions are 7½ by 10 by 15 in. and it weighs 20 lb. It is priced at under \$900.



The EMR photo receiver, intended for receiving and recording TV pictures from the automatic picture taking (APT) cameras on board ESSA and Nimbus meteorological satellites, has been developed by Aerospace Sciences Division of Electro-Mechanical Research, Inc., College Park, Md. Designed especially for use by news media such as television stations and newspapers, the photoreceiver is supplied as a single unit combining RF receiver, cathode-ray tube synchronizer-display, and Polaroid camera recorder. In operation, the satellites, in a polar orbit, are within range of a given location on the earth for three passes a day. During each pass, from three to five complete frames may be recorded, depending on the antenna system used. Each frame covers a square area roughly 1,800 miles on a side the EMR photo receiver displays the satellite picture on a high-resolution TV-type screen where it is recorded on Polaroid film. Outputs are supplied for driving a facsimile recorder if desired. The unit is priced at \$3,500.

CVI Model 120 Bar Graph Generator has been announced by Colorado Video, Inc., Box 928, Boulder, Colo. 80302. The device is used with standard closed-circuit TV systems to provide a graphic display of 30 separate input signals in the form of horizontal bars, the length of each being proportional to the associated input voltage. Features include selection of black or white bars for display, individual bar identification, expansion of individual decades to fill the entire TV screen, zero suppression, and individual input level controls. Price of Model 120 is \$4,200.

A new sweep generator, Model 2003, has been announced by Telonic Instruments, 60 N. First Ave., Beech Grove, Ind. 46107. The instrument is designed for flexibility with spaces for seven modular plug-in units. There are spaces for plug-in oscillator units and attenuators. The RF portion of the instrument's frequency marker system occupies two of the plug-in spaces. Marker display processing is controlled in another plug-in unit. One space is allocated to plug-in RF detector units of various frequency ranges, polarities and impedances. The seventh space accepts a master control unit that allows functional variations to be made, such as sweep rate regulation, single trace trigger for X-Y recordings and AM and FM modulation level control. The instrument measures 19 in. wide, 9 in. high and 17 in. deep.

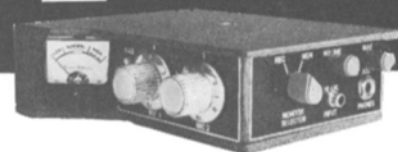
Multilock, a new system to synchronize separately recorded sound with the video picture output of a video-tape recorder has been announced by Ampex Corp., 401 Broadway, Redwood City, Calif. 94063. The system was developed by Ampex of Canada, Ltd. Designed primarily as a teleproduction tool for use by networks and production studios, it may be used whenever separate sound recording is required. In operation multiple channel sound is recorded on a separate audio recorder and the sound channels are synchronized with video recording during playback. The system features a fast search mode for the synchronized recorder so that it can be brought rapidly in step with the master recorder. It is priced at about \$6,000.

The Universal Colortec is a video-tape recorder accessory designed for color adaptation of Ampex VR-200 and VR-1200 high-band recorders for recording and reproducing NTSC, PAL and SECAM color signals. Announced by Ampex Corp., 401 Broadway, Redwood City, Calif. 94063, the unit is said to be the first designed specifically for PAL and SECAM standards. It is used in conjunction with the Intersync picture synchronizer and Amtec time element compensator to stabilize the color signal and thus allow the recorder to reproduce a color signal with full bandwidth luminance and chrominance. The Universal Colortec is priced at \$18,500.

An international version of the Automatic Velocity Compensator which eliminates color hue banding from the VR-2000 and VR-1200 high-band video-tape recorders has been announced by Ampex Corp., 401 Broadway, Redwood City, Calif. 94063. The new unit is designed for use

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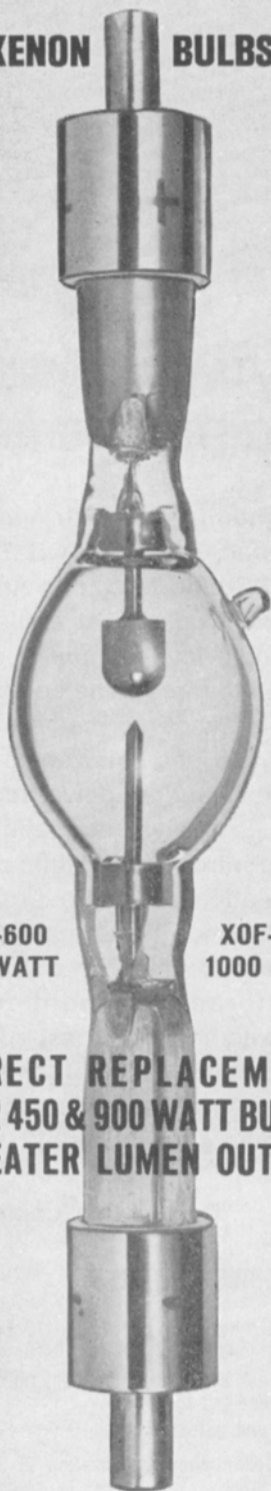
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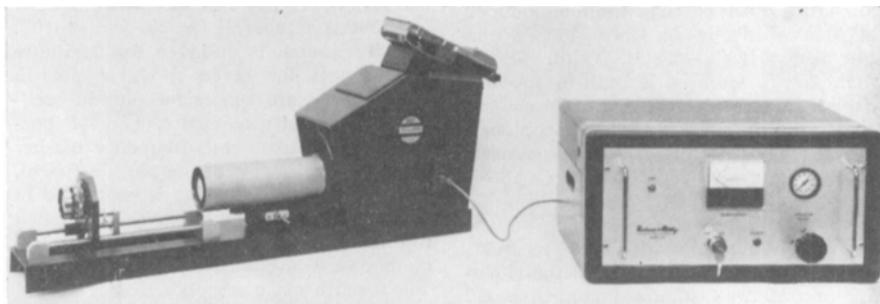
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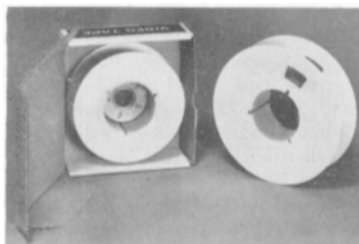


with video-tape recorders operating on either the NTSC or PAL color standard. It is priced at \$10,950.

A new **Edittec electronic programmer** called Mark II has been announced by Ampex Corp., 401 Broadway, Redwood City, Calif. 94063. The new Edittec system operates with the Ampex Mark III Electronic Editor to provide added versatility in the production of monochrome and color master tapes. The original Edittec system was available with VR-2000 or VR-1000 recorders. The system controls the beginning and ending of a recorded segment of



A **synchronous streak camera**, Model 201S, said to produce time resolution up to 2.1×10^{-8} has been introduced by Beckman & Whitley Division of Technical Operations, Inc., 441 N. Whisman Rd., Mountain View, Calif. 94040. The camera is designed to record streak photorecords



The **Plio-Magic 2-in. video-tape reel**, announced by Plastic Reel Corp. of America, 640 South Commercial Ave., Carlstadt, N.J., is available in 6½ in. and 8 in. diameter sizes. The reel is made of a high impact formulation and has a rubber pickup band on the hub. A retainer pivot is used to hold the reels securely in a special shipping carton.

New solid state video and pulse distribution amplifiers have been announced by Ampex Corp. 401 Broadway, Redwood City, Calif. 94063. The amplifiers are designed for both broadcast and closed-circuit use. A 3½-in.-high, standard 19-in. rack mounting frame holds eight modules in any combination of video and pulse amplifiers, permitting a mix of four video amplifiers and four pulse amplifiers in a single frame. Each plug-in module contains one bridge input and four outputs, totaling 32 outputs for each frame. Each frame contains two power supplies with each group of four modules operating from a separate power supply. The amplifiers are priced at about \$2,800 for a full tray.

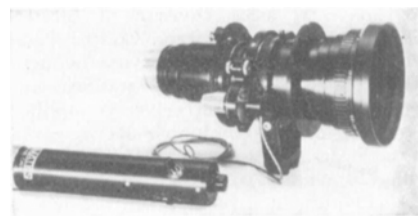
Special marked ground glasses for the Arriflex 16 BL camera have been an-

video tape. Cue tones which are recorded on the program tape generate start and stop pulses to program the electronic editor. The Mark II system is priced at \$5,500.

A **general purpose 2-in. quadruplex video tape** designated Type 302 has been introduced by Reeves Soundcraft, Great Pasture Rd., Danbury, Conn. The tape is made by the Reeves Micro-Plate process to assure a smooth oxide surface and thus provide longer tape and head life. The new tape is available in lengths from 600 to 7,200 ft.

of ultra-fast events, such as shocks, arc discharges, laser effects, plasmas, exploding wires and detonations. Recording rates range from 0.2 mm to 6.9 mm/μs with nonlinearity under 0.3. The basic system includes camera, objective lens and remote control. The price is \$11,590.

announced by Arriflex Corp. of America, 25-20 Brooklyn-Queens Expressway West, Woodside, N.Y. 11377. The ground glasses are available in two formats: Catalog #339129, marked with TV safe action area, corner markings for projection format and with center cross and Catalog #339128, marked with projection aperture and center cross. In both formats the camera aperture appears as a bright field, while the surrounding area is subdued to permit the cameraman to anticipate action entering the filming field. The TV ground glass also includes small corner markings to indicate standard 16mm camera aperture. Each type of ground glass is mounted in a small metal frame for ease of installation and interchanging. The ground glasses are priced at \$36 each.



A **motorized zoom control** for the Angenieux 12-240mm zoom lens has been announced by Zolomatics Corp., 5875 Melrose Ave., Hollywood, Calif. 90038. A battery-operated hand control is used to permit variation of speed. The unit is priced at \$425.

The **Kalart/Victor 70 MC-3 projector** using the General Electric Marc 300 light source has been announced by Kalart Co.,

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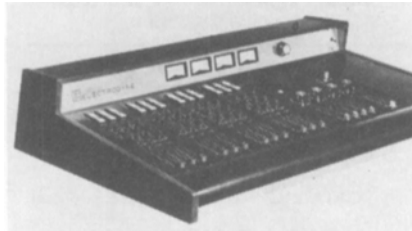
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Plainville, Conn. 06062. The new light source is said to produce four times the brightness and light intensity as compared to a 1,000-W incandescent lamp. The new projector has a safety film trip, a single-drive sprocket, offset loop to eliminate picture weave, compensating film shoes that adjust automatically to film thickness, and other features. Prices range from \$1,225 (15-W amplifier and 5- by 7-in. door-mounted speaker for classrooms, lecture halls, etc.) to \$1,330 (25-W amplifier, 12-in. speaker for larger auditoriums).



An audio control console designated the ACC-1204 has been introduced by Electrodyne Corp., 10747 Chandler Blvd., North Hollywood, Calif. 91601. The console is a self-contained table-top unit with 12 microphone or line inputs using straight-line attenuators, four main output channels with illuminated VU meters, illuminated pushbutton channel and cue switching, complete 6-position equalization with echo send and cue on each input channel, four echo return controls, four straight-line submasters, a four-ganged straight-line master attenuator, four-ganged motor control, talkback microphone and mode switch for direct or tape output monitor. Integrated circuit amplifier modules are used throughout. The console is priced at \$11,200.



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A 35mm developing machine featuring a new turbine drive has been introduced by General Film Laboratories division of Deluxe Laboratories, Inc., 1546 N. Argyle Ave., Hollywood, Calif. 90028. The turbine drive, developed by Everett Hanson, was described in a paper presented by Mr. Hanson at the Society's 100th Technical Conference in Los Angeles. The new machine is said to process color positive film at a speed of 200 ft/min, and color negative at a speed of 100 ft/min. Other features include a "perf tear detector" which warns of breaks in the film; an electric film brake on the put-on end used for splicing rolls continuously; a "no loss" safety feature on the take-off end which minimizes damage resulting from the loss of the end of a roll and low- and high-pressure air and water rinse operated by "disconnects" which eliminates the need for dangling hoses when in the raised position. The machine has a 17-roller span. It is 4 ft wide, 6 ft deep and 54 ft long. It is capable of holding 6,500 ft of film.

Digital Display Unit, Model ST-15, intended for such applications as election return displays, baggage boards for air terminals, stock quotation display boards, weather information, and the like, has been announced by Signaltron Corp., 82-16 31st. Ave., East Elmhurst, N.Y. 11370. The system displays a maximum of 12 characters, height 2 3/8 in., width 1 1/2 in. and digits 1 through 9, 0 and 2 blank positions supplied on the standard unit. Digit dimensions are: height 4 3/8 in., width 2 1/2 in., length 4 1/2 in. with a weight of 1 3/4 lb. Features include use of a vibrator instead of a motor to ensure reliability. Mounting is front or back panel. Prices range from \$41 each (for 1 to 24) through \$30.50 (1,000 and up).

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