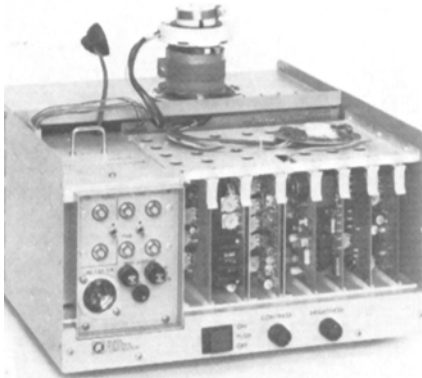


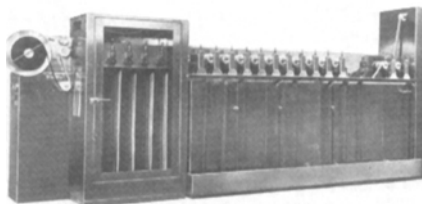
New Products & Developments

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: January 1976 *Journal*, p. 56, 1st. col., "A tie clasp microphone . . . announced by Sescom, Inc., P.O. Box 590 . . ." The address of Sescom, Inc., was left incomplete. The correct address is P.O. Box 590, Gardena, CA 90247.



The DD-100 Video Display Driver, designed for use in custom video installations to protect the cathode-ray tube from damage caused by sweep failure, improper inputs and settings, power failure and overvoltage has been announced by Sierra Scientific Corp., 2189 Leghorn St., Mountain View, CA 94043. It uses solid-state electronics to provide high-resolution displays on any size 70° or 90° low voltage, electrostatic-focused cathode-ray tube. The unit can be rack mounted. Front panel controls can be located up to 10 ft away from the Video Display Driver. Terminals and a selector switch are provided to permit the use of three forms of input — composite video, video plus composite sync, or video plus separate vertical and horizontal drive. Automatic line rate and size tracking cover commonly used line rates. Horizontal resolution is 1500 TV lines at center and 1300 TV lines in all corners within the 30 MHz bandwidth capability. The tightly regulated, current-limited high voltage provides anode voltage up to 20 kV with up to 500 μ A current. Prices for the DD-100 Video Display Driver begin at \$2000.



The Citation Series, a new line of color film processors featuring the patented Filmline

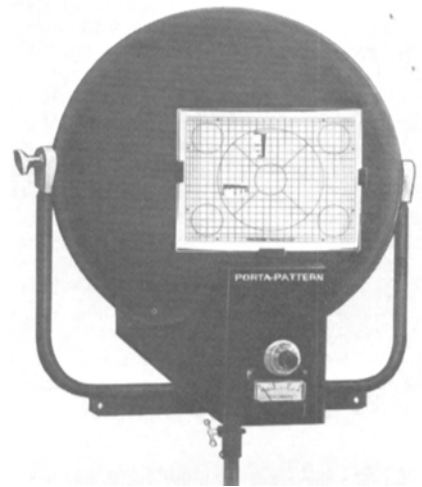
Micro-Demand Drive, has been announced by Filmline Corp., 43 Erna Ave., Milford, CT 06460. The new series makes the cost reduction factors of the Micro-Demand Drive available to small laboratories as well as to the very large. An advanced concept in film processing transports, it is now offered in machines designed for every commercial purpose and for operating speeds of 7 ft/min to 350 ft/min. Features include submerged developer racks; pumps for recirculation and agitation; professional spray bars; in-line filters on all required systems; professional air and wiper squeegees. Other features include upper shaft and roller assemblies removable without tools; Temp-Guard solution temperature control with thermistor sensing and solid-state controller; Film-Guard drybox; individual switches for all control functions; bottom drains and valves on all tanks; Feather-Touch multi-format silicone elastomer transport roller "tires" and stainless steel construction throughout.

Shown above is the DC28-35/16N2, 28 ft/min, 35/16mm, ECN-2 processor priced at about \$44,000.



A new portable lighting fixture designed to provide the equivalent of 1000 W of daylight in a 200-W package has been announced by Rosco Laboratories, 36 Bush Ave., Port Chester, NY 10573. The unit uses HMI (metal halide) bulbs to produce daylight (5800 K). Applications for the new unit include Electronic News Gathering. The new source is reported to provide more than 80 lm/W (16,000 lm for each 200-W fixture). The lighting head weighs less than 5 lb. It has a focus adjusting wheel and a pistol grip so it can be operated with one hand. Four-leaf barndoors permit sharp cutoffs of light for precise framing. The battery pack charger is equipped with a shoulder strap. Fully loaded with silver-zinc batteries it weighs less than 15 lb and provides 45 min of daylight (5800 K). The system can be operated from nickel cadmium batteries or 110-V sources when available. The square wave, flicker-free electronic system allows the instrument to be used for film, live or video-

tape transmission without any stroboscopic effect. The price of about \$2000 includes the unit, the battery, the charger and the carrying case.



The Porta-Pattern Transparency Illuminator, a new, radically-designed spherical transparency illuminator, has been announced by Telecommunications Industries Ltd., 6335 Homewood Ave., Los Angeles, CA 90028. The device is said to provide completely even illumination over the entire area of an 8 × 10 transparency. It is composed of a 20-in-diameter sphere, the inside of which is painted with Eastman Kodak's white reflectance coating 6080 achromatic calibration standard paint giving it totally flat illumination qualities without the use of reflectors. The light source is a 12-V quartz iodine lamp connected to a regulated dc power supply. This technique allows the color temperature and illumination level to be set and kept constant and to be virtually unaffected by voltage variations. A vernier-type calibrating knob is used to adjust the lamp position inside the sphere. Once set, the light condition is the same, day after day.

The spherical construction provides a maximum usable cone angle of 60% at full illumination. A variation of less than 1% in color temperature and light level across the entire surface of the 8 × 10 transparency can be achieved. Constructed of high-impact fiberglass, the Porta-Pattern Transparency Illuminator weighs less than 20 lb. The price of \$1150 includes a metal yoke for mounting on a standard light stand.



The Goldenrod, a circularly polarized transmit antenna, Model 20 HE 1, has been announced

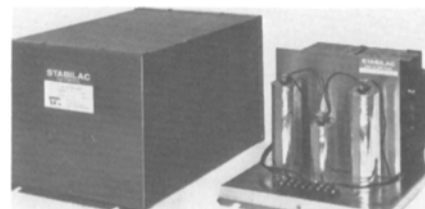
by Nurad, Inc., 2165 Druid Park Dr., Baltimore, MD 21211. The antenna is light in weight (about 3 lb exclusive of the pedestal), is 2 in in diameter and less than 4 ft long. A collapsible pedestal makes the 20 HE 1 suitable for installation on top of mobile vans. Features include a quick fold-down device that provides a rigid lock-in-place capability in either the stand-up position or when it is horizontally stored. The mounting assembly incorporates a locking pan-and-tilt head which provides the operator with full hemispherical coverage by means of a single, hand-controlled lever. The Goldenrod is of a traveling wave design, has less than 2-dB axial ratio and a gain of 19 dBic. It operates over the entire 2-GHz band from 1990 MHz to 2110 MHz with a beam width of 18° nominal. The connector is a standard Type N female and the antenna can handle up to 100-W CW power. The basic antenna is priced at \$780. With the pedestal pan/tilt mounting attached the price is \$1260.



The 2200 Graphic Equalizer designed for professional audio recording and sound applications has been announced by TAPCO, 405 Howell Way, Edmonds, WA 98020. The 2200's two independent channels have ten

equalization bands, each controlling one octave of the audio spectrum with 15 dB of boost and cut. Designed for compatibility with almost all kinds of audio equipment, the device has built-in line drivers to allow the 2200 equalizer to be interfaced with hi-fi equipment and low-level mixing systems. The equalizer's balanced and single-ended inputs and outputs can be used in place of transformers between pro- and semi-pro equipment. Separate EQ In/Out switches allow each channel of the equalizer to be programmed independently. The VU meters can be set for any reference level with the calibration controls accessible through the front panel. Solid-state technology eliminates the need for inductors. The maximum input level is reported at better than 10 V rms and the maximum output level at greater than +12 dBm into 600Ω, or 10 V rms into more than 2000Ω. Harmonic distortion is below 0.06% at 10 V output and SNR is reported at better than 80 dB. Price of the 2200 Graphic Equalizer is \$289.

A line of Stabilac™ stable ac sources designed to stabilize ac output voltage against widely varying line and load conditions has been announced by TDC, a division of Frequency Technology, Inc., Box 365, Whitcomb Ave., Littleton, MA 01460. The transformer-like device, which has no moving parts, or electronic components for voltage stabilization, uses a newly developed method (patent applied for) of manipulating magnetic flux within a specially configured magnetic core so as to add or subtract appropriate output voltage



increments. The device reportedly provides improvement in voltage stabilization characteristics especially for simultaneously varying line voltage and load current. Other reported features include significant reductions in size and weight; an ability to isolate sensitive loads from incoming voltage spikes; and extension of voltage stabilization capabilities to tens of kilowatts. Stabilac units are available for power loads from 0.25 kVA to 50 kVA single-phase and from 6 kVA to 150 kVA three-phase. Weights range from 18 lb to 470 lb for open construction units and the price range is from \$155 to \$1740. Enclosed in a metal cabinet, weight range of the units is 235 lb to 1500 lb. The price range is from \$1330 to \$5190.

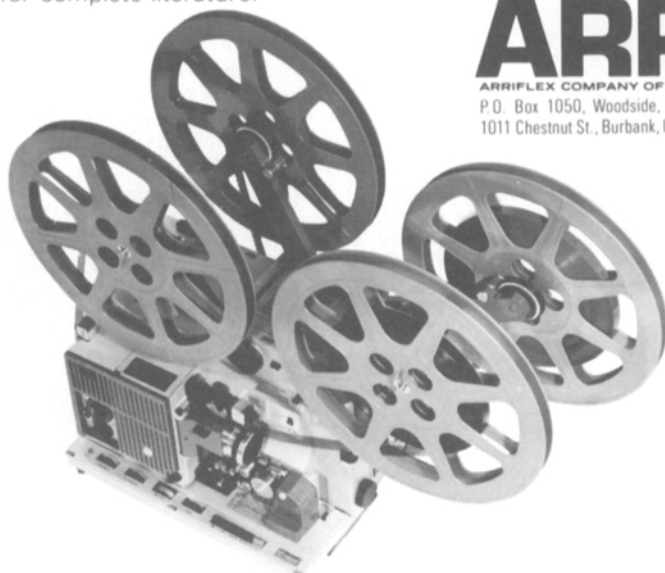


The TCA-1 Time Code Calculator, a device that adds or subtracts hours, minutes, seconds and frames based on a 24-h, 30 frames/s system, produced by Calaway Engineering, has been announced by Omega Associates (national representative for Calaway), 14169 Hawthorne Blvd., Hawthorne, CA 90250. The TCA-1 has been designed to permit the user to figure time segments quickly and efficiently, trim for matched frame dissolves segments and show lengths, and to record for automatic assemblies. The device has the capability of calculating back times for film and tape rolls to give a smoother on-the-air look. It permits figuring scene lengths from SMPTE-sponsored time-code displays and can aid in preparing logs and figuring commercial times. The calculator can accommodate the calculation of SMPTE-sponsored drop and non-drop frame codes and can convert from one to the other. The LED display divides by colons in hours, minutes, seconds and frames. The TCA-1 is priced at \$650.

The DGM modular Deglitchers designed to eliminate the effect of glitches from the output of D/A converters have been announced by Computer Labs, Inc., 505 Edwardia Dr., Greensboro, NC 27409. They can be used in CRT displays, television picture reconstruction, waveform generation, automatic test equipment systems and other applications. The DGM Series Deglitcher functions like a track and hold. During the period of time the glitch is present the analog output of the D/A is "held" at the deglitcher output at the value preceding the glitch. After the glitch has sub-

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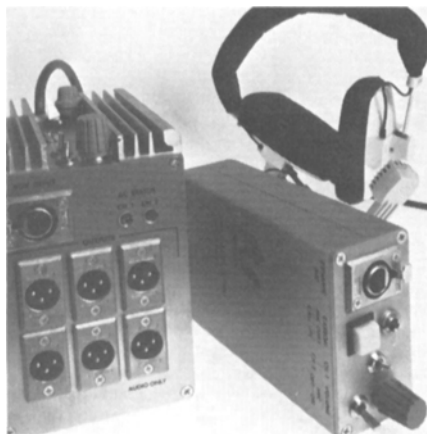
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sided, the deglitcher returns to the "track" mode and slews rapidly to the next analog value. The DGM Series Deglitcher is intended to obviate the need for bit input skew compensation and, in most cases, the need for output filtering, offering a straightforward solution to the glitch problem. The price is \$279.



The TW Intercom System, a two-wire, closed-circuit headset system designed for use in the field for all phases of television, film, concert, theater and audiovisual production, has been announced by RTS Systems, 4167 Fair Ave., North Hollywood, CA 91602. In its standard configuration, up to 50 "belt-pack" user stations can be connected on line to two independent channels. Designed to provide each user station with noise-free high-fidelity perfor-

mance, features include a built-in mike limiter; carbon or dynamic mike input; a flashing call light with variable frequency adjustment for selective paging; a 2-W headphone power amplifier with low distortion and extended response (150 Hz to 10 kHz); and an individual auxiliary input as well as a common on-line at the power supply. With #22-gauge cable the TW can operate on 2000 ft of line. Two available individual power supplies, PS-10 and PS-50, priced at \$350 and \$500, can operate up to 10, or up to 50 user stations. The power supplies and user stations are available in either rack-mount or portable configurations. Phase locked loop, CMOS and FET devices are utilized. Price of the belt-pack is \$150.

The Peter-Lisand LQR-75 Quick-Release system is designed to permit motion-picture and television cameras to be mounted on or released from any tripod in a few seconds. The device is also applicable to still cameras. The system is comprised of two parts; one part is attached permanently to the tripod and the other part is attached to the base of the camera. When mounting the camera to the tripod, the camera is placed over the tripod so that the two parts of the Quick-Release system mate. The latch is then closed and the camera is mounted securely to the tripod. Reversing the procedure enables quick removal of the camera. The Quick-Release system can be used with any camera or tripod with a 1/4-in or 3/8-in threaded thumbscrew or tripod socket. The Quick-Release system is priced at \$77.

The PE5EQ E. Qualidyne Equalizer Microphone (called "The Great Equalizer") has been announced by Shure Brothers Inc., 222 Hartrey Ave., Evanston, IL 60204. The microphone is designed with filters to tune out feedback. Four small control switches on the body of the microphone enable the user to activate attenuation filters at feedback-generating regions in the audio spectrum. By selectively attenuating the frequency ranges, feedback can be minimized. Other features include a four-position equalizer enabling the user to change the microphone's characteristics from mellow to bright or to strengthen or de-emphasize mid-range materials. Price of the PE5EQ E. Qualidyne microphone is \$155.

The Urei Modulimiter Model BL-40, an automatic limiter designed to provide adjustments for tailoring the audio modulation envelope to any program format or transmitter characteristics, has been announced by Urei (United Recording Electronics Industries), 11922 Valerio St., North Hollywood, CA 91605. Although designed especially for AM broadcasting the device is also applicable to television and closed-circuit TV audio signal processing, background music systems and commercial sound systems. Designed to eliminate unwanted overmodulation without clipping, independent adjustments are provided for rms and peak limiting and for variable positive overmodulation up to 125%. The BL-40 patented electrooptical attenuator offers unobtrusive and smooth rms limiting. The BL-40 Modulimiter is priced at \$695.

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