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The tripod allows all movement in azimuth and  $\pm 25^\circ$ , with respect to the horizontal, in elevation. Scales and level indications are provided.

A portable 20-w TWT RF power amplifier has been introduced by Microwave Associates, Inc., Burlington, Mass. Designated the MA-8531, the power amplifier is primarily designed for television broadcast relay operations, particularly airborne broadcasting and other field applications where greater transmitting power is required. The instrument operates on 150 v from a 28-v d-c source, and it can be modified to accept 110-v a-c. The unit is weather-sealed and framed in a compact metal case for rugged, all-weather field use. A front panel meter provides visual checks on all important circuit voltages and r-f output.

The firm also announced the MA-2TV Relay System, featuring a 15-lb, miniature, solid-state video-audio TV transmission constructed to withstand operational stress such as it would be subjected to in a news van, crash truck or aircraft. The system is weatherproof and self-contained with a built-in power supply. The system weighs less than 50 lb and can be quickly installed for extended range, multihop links.

A new series of reflex klystrons designed for use in microwave relay systems as transmitters or local oscillators has been announced by Varian Associates, Tube Div., 611 Hansen Way, Palo Alto, Calif. 94303. Designated the VA-287 series, the klystrons operate at frequencies of 10.7 to 12.7 Gc. The tubes provide output power of 1 w at 750 beam volts or 15 mw at 300 beam volts. Maximum beam voltage is 800 v d-c; maximum reflector voltage is -800 v d-c; heater voltage is 6.3 v and typical heater current is 0.75 amp.

Two new magnetic tape recorders, Model CM and Model Y, have been introduced by Kineloc Corp., 29 South Pasadena Ave., Pasadena, Calif. Model CM features two widely different tape speeds—1280 : 1 in either direction. The wide separation between record and playback speeds is made possible by an electromagnetic clutch drive and two hysteresis synchronous motors. Reliable data recovery at low tape speeds is achieved with specially designed magnetic heads and a low pass filtering system which gives a 40 db signal-to-noise ratio at very low playback rates (0.01 in./sec). The recorder is available in 1 in., 0.5 in. and 0.25 in. tape sizes and will accommodate 650 ft of tape.

The Model Y is a high-environment magnetic tape recorder featuring extended recording time with a capacity of up to 4,750 ft of 1-in. tape. It is designed to operate within a temperature range of -54 C to +85 C and in altitudes up to 150,000 ft. The recorder weighs only 27 lb with a volume of 1,040 cu in. It is hard mounted at three points, eliminating need for a shock mount.

A semi-automatic portable dehydrator for pressurizing coaxial cables, waveguides and transmission lines has been announced by Prodelin Inc., Highstown, N.J. The air machine employs a diaphragm-type motor compressor with a direct drive and supplies

clean, oil-free compressed air at the rate of  $\frac{1}{2}$  cu ft/min. The compressor is connected by hose to a plastic cylinder filled with indicating blue gel to deliver air with dew points as low as -60 C.

The B & K Model 2203/1613 Portable Noise Analyzer has been announced by B & K Instruments, Inc., 3044 W. 106 St., Cleveland, Ohio 4411. Used with its tripod and a tape recorder, the instrument can be used for such measurements as reverberation-decay values in auditoriums, and noise and vibration inside moving automobiles and aircraft. In combination with the firm's Model 2305 Graphic Level Recorder, and Model 4420 Statistical Distribution Analyzer, the instrument can be used in the laboratory to produce a recorded spectrogram and statistical analysis of the sound or vibration being measured. When the noise analyzer's output is fed to a tape recorder, the recorded signal can be taken to the laboratory and fed into the recorder and distribution analyzer. A wide range of accessories permits measurements under extreme sound incidence, such as high wind speeds, airplane runways, etc., or in enclosed spaces or small areas. The noise analyzer alone weighs only 11  $\frac{1}{2}$  lb. It is priced at \$1,070. A tripod designed especially for the analyzer is priced at \$86. The Portable Noise Analyzer, Graphic Level Recorder and Statistical Distribution Analyzer are sold as a package system for \$4,536.

### SMPTE Test Films

The Society has several test films available for testing sound reproduction and projection equipment as listed below.

Television—Alignment, Resolution, TV System Evaluation

35mm—CinemaScope—Projection Evaluation; image and 4-track magnetic sound tests

35mm—Projector Screen Image Evaluation

35mm—Sound Reproduction Tests: Optical

35mm—Sound Reproduction Tests: 3-track and single-track magnetic

70mm—Test Film, Projector Evaluation and Alignment: Image

16mm—Sound Reproduction Tests: Magnetic

16mm—Sound Reproduction Test: Optical

16mm—Sound Reproduction and Image Tests for Projector Evaluation: Optical

16mm—Projector Screen Image Evaluation

8mm—Projector Screen Image Evaluation

A catalog containing details and prices of all SMPTE test films can be obtained from Society headquarters.

The new SMPTE Universal Leader is now available. Details were published in the January, 1965, SMPTE Journal.

Most SMPTE test films are prepared in accordance with ASA/SMPTE Standards. The films are used for testing picture steadiness, traveling ghosts, framing, alignment, and focusing. Sound test films are used to check sound system frequency response, magnetic head or optical train alignment, and sound optics focusing. Other tests include those for sound system calibration and alignment.