

Mole-Richardson SOLARSPOTS



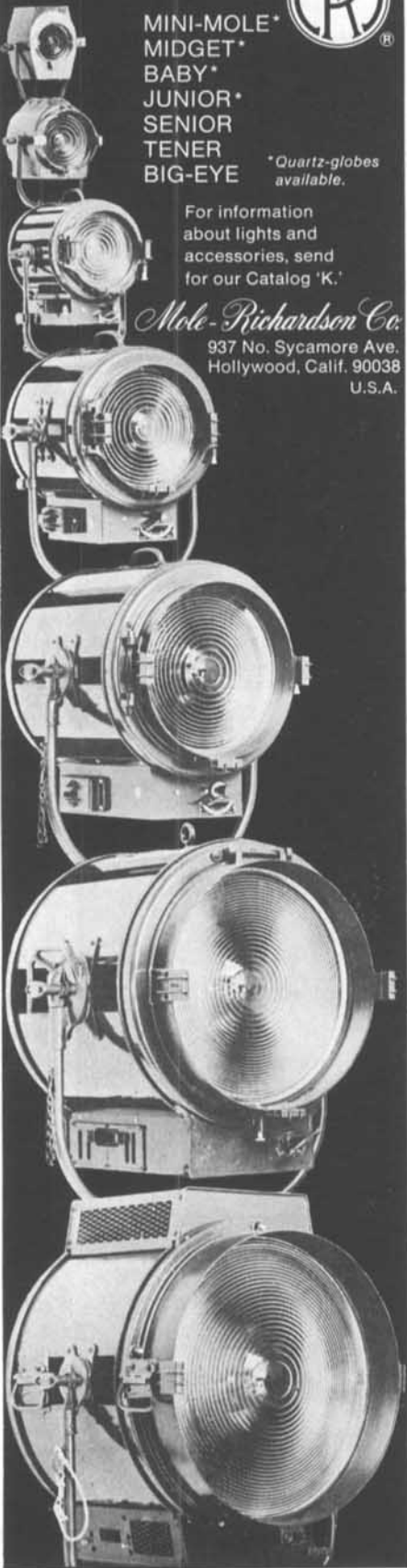
MINI-MOLE*
MIDGET*
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* Quartz-globes available.

For information about lights and accessories, send for our Catalog 'K.'

Mole-Richardson Co.

937 No. Sycamore Ave.
Hollywood, Calif. 90038
U.S.A.



mounted loudspeaker with two built-in 30-W silicon transistor amplifiers. It measures 19 by 12 by 9 in and weighs 44 lb. It has low-, mid- and high-frequency loudspeakers. Crossover frequencies are 500 Hz for the woofer, 500 Hz and 6 kHz for the midrange speaker and 6 kHz for the high-frequency horn. The speaker has a four-step frequency control in addition to a low-frequency control. An input attenuator allows gain control of the entire system. Model OY is priced at \$520.

Three new lamps, X-80, X-160 and X-310, designed for high-power pulse service over a range of 75- to 300-W maximum average pulsed power, have been announced by Illumination Industries, Inc., 610 Vaqueros Ave., Sunnyvale, CA 94026. The lamps, described as rod-seal short-arc lamps are designed to eliminate conventional molybdenum-foil seals thus permitting peak currents of several thousand amperes and energy loadings to several hundred joules. The lamps are capable of either pulse or dc operation. Spectral output is typical of pulsed-xenon short-arc lamps with a pronounced shift toward the ultraviolet. Normally convection-cooled, the lamps are essentially instant starting and can be modulated. The X-80 is priced at \$45; the X-160 at \$59.50 and the X-310 at \$105.

Sound level meters, Models 8052A and 8062A, designed to measure discontinuous or impulsive sounds as well as steady-state sounds, have been announced by Hewlett-Packard, 1501 Page Mill Rd., Palo Alto, CA 94304. The new sound level meters respond to the rms value of sounds. The meters can be operated in four modes, Fast, Slow, Impulse and Peak. The peak mode can be used for assessing transient sounds that could cause ear damage. Model 8052A, for use with ac line power, is priced at \$670. Model 8062A is similar but is powered by rechargeable batteries. It is priced at \$720.

A direct reading bandpass filter covering the frequency range of 4.4 to 5.0 GHz has been announced by Frequency Engineering Laboratories, a division of Harvard Industries Inc., Farmingdale, NJ 07727. Designated WD-4450, the new filter is a 4-section filter exhibiting a 3-dB bandwidth of 38 MHz. Features include a high-resolution tape readout. Direct-coupled resonators are employed. Frequency-determining elements are made of Invar. Other models are available in other frequency ranges. Price range is from \$295 to \$495.

Two new direct-reading absorption-type wavemeters have been announced by Frequency Engineering Laboratories, a division of Harvard Industries Inc., Farmingdale, NJ 07727. Designated Models WDA 940 and WDA 3712, the instruments measure cw, am, fm or pm microwave signals in ranges of 960 to 4200 MHz and 3700 to 12,400 MHz. Each meter consists of a temperature-stable, tunable cylindrical resonator incorporating a movable plunger coupled to a spiral drum and an RF transmission line connector. When tuned to resonance, the cavity absorbs a sample of the signal passing through the trans-

mission line, causing a power dip in the line. The resonant frequency is indicated on the drum as a direct readout in MHz. WDA 940 measures 7 in in diameter and is 10 in high. It weighs 11 lb. VSWR off resonance is 1.2 : 1. WDA 3712 measures 4 in in diameter and is 6 in high. It weighs 5 lb. VSWR off resonance is 2.00 : 1. Each model is priced at \$495.

The Adtrol Series TLG-111 of timing light generators has been announced by Instrumentation Marketing Corp., 820 S. Mariposa St., CA 91506. The generators are designed to trigger multiple neon glow lamps to produce timed pulses on motion-picture film at preselected intervals. Three models are available, TLG-111, TLG-111AC and TLG-111B. Each unit weighs about 1 lb. The three selectable frequencies are 10, 100 and 1000 Hz. Output pulse is 30 microseconds and accuracy is reported better than 1% through a temperature range of -10C to +55C. TLG-111 has input power of 28-V dc. It is priced at \$175. The TLG-111AC has input power of 115-V ac. It is priced at \$225. The TLG-111B has a built-in 28-V battery. It is priced at \$195.

A miniature standard cell, Type K-375-C, 1/2 in in diameter and 1 3/4 in long, has been announced by Muirhead Instruments, Inc., 1101 Bristol Rd., Mountainside, NJ 07092. The cell, designed for stability, reliability and simplicity of application can be mounted directly on printed circuit boards. The cell is constructed in a single tube, hermetically sealed by glass fusion. It is priced at \$7.80.

Crystals of lithium niobate (LiNbO₃) for use in light modulators and optical harmonic generation applications are available from Crystalab Products Corp., 19 Legion Place, Rochelle Park, NJ 07662. The crystals are reported to be clear and free from striation and Tyndall effect inclusions. The core-free, single-domain crystals are available up to 6 in in length with diameters greater than 1/2 in. They can be oriented to 6 min of arc and supplied as boules, rough blanks or finished to better than 1/10 wave flatness and 5 s parallelism. Price range is from about \$300 to \$975.



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