

Inc., Palo Alto, Calif. The system utilizes a metal disc approximately 12 in. in diameter. Each disc has a storage capacity of 1,200 pictures which may be played any number of times with an accessibility rate of 500 pictures/sec. Any picture can be erased and replaced with another at any time. Combined with a disc storage and changer mechanism similar to a record player, the system can be expanded to have a capacity in the order of 100 discs, providing a total storage of 120,000 pictures. The reproduced picture is reported to have a resolution of more than 300 lines and a signal-to-noise ratio of 40 db. The recorder accepts any regular video signal and records one complete video frame at a time. Maximum re-

ording rate on the metal discs is 30 pictures/sec. The unit can be operated from any number of remote control stations and its recorded pictures displayed on any number of TV monitors or receivers, the announcement stated. Estimated price of the machine when it becomes commercially available is about \$3,500 without the camera and monitor.

A microphotometer, Model 380, for making light measurements in the micro-microlumen and microlumen ranges has been announced by Grace Electronics Inc., 4380 Warner Rd., Cleveland, Ohio 44105. The rise time is reported to be 0.5 msec on most ranges and 1 msec on the 1 milli-

microampere range. Seven switchable low-pass filters are incorporated to permit reducing the speed if fast rise time is not desired. The d-c amplifier is said to drift less than 2% in 4 days. It is permanently calibrated in microamperes within 1.5% and has 9 ranges from 10^{-6} amp to 10^{-9} amp. Equipment is included for zero suppression up to 100 times full scale. A 6-in. meter and a 3-ma recorder jack are the outputs. The integral high voltage power is adjustable from -500 v to -1800 v regulated within $\pm 0.1\%$. The instrument is priced at \$845. A variety of detachable probes is available for visible, infrared and ultraviolet, all of which use multiplier phototubes as transducers.

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