

TAD

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HIGH CURRENT MULTIPLIER PHOTOTUBE

A PRODUCT OF ITT LABORATORIES

Nutley, N. J. • Fort Wayne, Ind. • Chicago, Ill. • San Fernando and Palo Alto, Calif.



The High Current Multiplier Phototube is primarily used for determining the shape and the peak amplitude of very brief, extremely intense light flashes.

The basic elements of the High Current Multiplier Phototube are a translucent photoemissive cathode prepared on conducting glass and a secondary-emission multiplier. Ultraviolet and visible radiation striking the elongated cathode strip causes electrons to be emitted from the side nearest the secondary emitting dynodes. The electrons are caused to move to the first dynode and the resulting secondary electrons to the next and so on by means of the potentials established at the dynodes by

the external power supply. The collector electrodes of the multiplier have been designed so that a coaxial transmission line having a characteristic impedance of 50 ohms will be well matched at the tube output when connected between the 6th dynode and the collector. High-frequency components of the signal will therefore be preserved at the output so that the tube can be used for very accurate measurements of the rise time of light flashes.

For further information and detailed technical specifications write to the Director, Components and Instrumentation Laboratory, ITT Laboratories, 3702 E. Pontiac St., Fort Wayne, Indiana.