

PTI New Product Release

Multi-mode 914 PMT for QuantaMaster™ and RatioMaster™ Product Lines

PTI introduces its new multi-mode PMT housing as the new standard detector offering for the QuantaMaster™ and RatioMaster™ product lines where side-on PMT's are used. The new 914 PMT housing offers improved versatility and features at no additional cost. The multi-mode PMT supports five different modes of operation, making it the most versatile PMT housing on the market today.

Single Shot Mode:

This is a unique form of detection used only by PTI. It allows the user to measure phosphorescence lifetimes as short as 300 nanoseconds, using just one shot of a pulsed light source.

Photon Counting Mode (digital):

This is the ideal mode for low light level, steady state measurements. With this mode one can measure a single photon. We use this type of detection as the default setting with our continuous excitation sources. The 914 PMT housing has 10 times the speed and improved dynamic range of our previous models.

3 Analog Modes:

This form of detection is better suited to higher signal levels. Analog mode is used by virtually all fluorimeters that use a pulsed light source—as it is with our pulsed light source. We offer three different modes of analog detection in order to optimize the detector's response time for your measurements

Specifications:*

The 914 housing supports most 28 mm diameter PMT's. While most tubes will work in the various modes, they do vary as to performance. PTI is happy to provide you the best tube for your applications.

Single Shot Mode

Detection: Detect an entire phosphorescence decay in 1 μ s (requires flash lamp)

Analog Mode

Low	10 kHz bandwidth	0.1 ms time response
Medium (default)	30 MHz bandwidth	30 ns time response
High	200 MHz bandwidth	4–5 ns time response

Photon Counting Mode (digital)

Max acquisition rate:	10 kHz, up to 1 MHz in burst mode
Max count rate:	10 million
Absolute linear count rate:	3 million
Linear count rate (-5% deviation):	7 million
Pulse pair resolution:	60 nanoseconds
Output pulses:	TTL



*When used with the ASOC-10 electronics interface and FelixGX software

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