

# PTI New Product Release

## *Dual Stage Thermoelectrically Cooled PMT Housing 920C*

PTI's new PMT housing is an economical, compact, thermoelectrically air cooled housing for any 28 mm diameter side-on PMT. Our new PMT housing offers increased signal to noise enhancement by reducing dark counts of photo multiplier tubes. PMT tubes above 600 nanometers have high dark counts making a cooled housing virtually mandatory. This option for PTI systems makes increased sensitivity affordable and extends useful measurement range to 1200 nm.

The 920C can be purchased as an option for all PTI systems where PMT detection is used, it can also be bought as an upgrade for most existing PTI systems.



## **Specifications:**

<b>PMT's supported:</b> (PMT sold separately)	Virtually all 28 mm diameter side-on tubes
<b>Cooling:</b>	Double stage thermo-electric cooling—air cooled
<b>Cooling temperature:</b>	-30° C minimum
<b>Temperature control:</b>	Monitored and controlled from -20° C, includes overheat protection for heat exchanger
<b>Window:</b>	Synthetic silica 185 nm to 2,200 nm, heated to prevent condensation
<b>High Voltage power supply:</b>	150 to 1250 V included, manual or can be controlled remotely with PC
<b>Multi-mode detection:</b>	1. Direct to anode mode – high speed operation 2. Photon counting mode – extremely low light levels 3. Analog modes – fast, medium, and slow settings
<b>Settling time:</b>	Will reach desired temperature in less than 45 minutes
<b>AC input voltage:</b>	100 to 260 V, 50 or 60 Hz
<b>Mode of operation:</b>	DC

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