



DH-3 Photomultiplier Tube
End-window multi-alkali detector

DH-3 PMT End-Window Multi- Alkali Detector

For low light-level applications, such as the measurement of spectral irradiance, the photomultiplier is an indispensable spectroradiometer component.

The DH-3 photomultiplier, consisting of a housed end-window multi alkali (S20 photocathode) is the detector of choice for such measurements over the UV-Visible region.

The DH-3 is supplied with interface plate for mounting to the entrance port of any Bentham monochromator.

The housing also contains a PCB-based dynode chain for reliable operation and exceptional linearity.

The tube is surrounded by a mu-metal shield to mitigate the effect of external magnetic fields on the performance of the device.

The high voltage required to operate the device is derived from the Bentham 215 high voltage supply. The photocathode is maintained at negative high voltage such that the anode be a ground potential for adaption to any transimpedance current amplifier, such as the Bentham 487.

Specification	
Spectral range of Operation	200-900nm
Typical Dark Current	100pA
Maximum anode current	100µA
Temperature Stability	Up to $\pm 1\%$ / °C at beyond 800nm
Connectors	BNC and HV-BNC SMA and SHV optional
Dynode Chain Resistance	Linear: 750 kΩ
	Pulse Counting: 3.92 MΩ



**DH-3 fitted to DMC150
monochromator**