

DH_30 Multi-Alkali Photomultiplier (200-850nm) Brochure



The DH_30 photomultiplier is an economical solution for low light-level applications throughout the UV-vis. Housing a side-window multi-alkali (S20 photocathode) photomultiplier tube, a mu-metal shield and a PCB based dynode chain, reliable operation can be ensured. The 215 high voltage supply module maintains the photocathode at a negative high voltage.

The photocurrent generated by this detector is best measured using the 487 picoammeter or the 477-pre-amplifier followed by the 496 lock-in amplifier. The mounting flange supplied with the DH_30 is compatible with the entire range of Bentham monochromators and accessories.

Core benefits

- ✓ Economical choice for UV-vis low light level applications
- ✓ High sensitivity
- ✓ Spectral coverage 200-850nm

Features

- ◆ Housed photomultiplier tube featuring mu-metal shield and PCB dynode chain
- ◆ Operated in either the DC or AC regimes
- ◆ Compatible with Bentham's entire range of monochromators and accessories
- ◆ Recommended for use with 400 series detection electronics

DH-30 Specifications

Electro-optical

Photocathode	S20
Active area	20x8mm
Window material	UV Glass
Number dynodes	9
Dynode chain resistance	- Linear: 750 kΩ - Pulse Counting: 3.92 MΩ
Operating mode	Photoemmisive
Spectral response range	200-850nm
Peak wavelength (typ.)	420 nm
Dark current (typ.)	500pA at 750V
NEP	1.3×10^{-16} W.Hz ^{-1/2}
Max. high voltage	1250V DC
Max. anode current	100μA
Max. operating temperature	-30 to +50°C

Mechanical

Connector	BNC/HV-BNC
Compatibility	Supplied with an interface plate, 4 x M3 clearance holes (Bentham slit pattern)
Dimensions	

Wavelength vs Responsivity

