

# 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

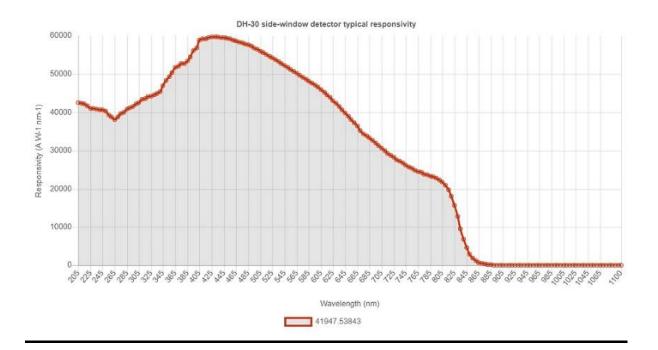
Photocathode	S20
Active area	20x8mm
Window material	UV Glass
Number dynodes	9
Dynode chain resistance	- Linear: $750 \text{ k}\Omega$ - Pulse Counting: $3.92 \text{ M}\Omega$
Operating mode	Photoemmisive
Spectral response range	200-850nm
Peak wavelength (typ.)	420 nm
Dark current (typ.)	500pA at 750V
NEP	1.3 x 10-16 W.Hz-1/2
Max. high voltage	1250V DC
Max. anode current	100μΑ
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



Singapore Main Office Telephone: +65 6996 0391 Email: info@simtrum.com China Main Office
Telephone: +86 15000853620

Email: sales@simtrum.cn

