

DH-InGaAs (x) detector (incl. -cal, -QC and -LP options)

User notes



Overview

The Bentham DH-InGaAs (x) houses an x mm diameter active region InGaAs detector, which may either be mounted to the exit slit of Bentham monochromators, or used free-standing.



This device is responsive over the spectral range 800-1700nm.

The DH-InGaAs can be operated in either the DC or AC regimes; in the latter instance, a chopping frequency of 225Hz is suggested.

Should a calibration be purchased (_cal), please see the accompanying certificate for calibration results.

Electrical

This device is operated in the photovoltaic mode, without bias, and may be input into any Bentham current amplifier/ ORM via BNC. The pin configuration is inner pin cathode, outer sheath anode.

Specifications

The device specifications are as follow:-

Detector Type	Active area	Cooling	Rec. range μm	Shunt resistance MW	D* at Ip $\text{cm.Hz}^{1/2}/\text{W}$	Housing options
DH-InGaAs(2)	2mm	None	0.9 - 1.7	25	5×10^{12}	Standard & QC
DH-InGaAs(3)	3mm	None	0.9 - 1.7	10	5×10^{12}	Standard & QC
DH-InGaAs(3)-Te	3mm	Te ⁽¹⁾	0.9 - 1.65	200	3×10^{13}	Te housing
DH-InGaAs(5)-Te	5mm	Te ⁽¹⁾	0.9 - 1.65	60	3×10^{13}	Te housing

WEEE statement:

Bentham are fully WEEE compliant, registration number is WEE/CB0003ZR. Should you need to dispose of our equipment please telephone 0113 385 4352 or 4356, quoting account number 135419.

