

## DH-Ge detector (incl. -cal, -QC and -LP options)

### User notes



#### Overview

The Bentham DH-Ge houses a 2mm diameter active region Germanium detector, which may either mounted to the exit slit of Bentham monochromators, or used free-standing.



This device is responsive over the spectral range 800-1800nm.

The DH-Ge 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:-

| Active area | Rec. range $\mu\text{m}$ | Peak Resp. (A/W) | Shunt resistance $\text{k}\Omega$ | D* at Ip $\text{cm.Hz}^{1/2}/\text{W}$ |
|-------------|--------------------------|------------------|-----------------------------------|--|
| 2mm dia.    | 0.8 - 1.8                | 0.90             | >90                               | $5 \times 10^{12}$                     |

#### 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.

