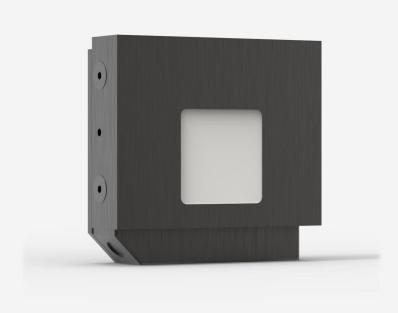


## QE25LP-S-MB-QED-D0

Pyroelectric detector for laser energy measurement up to 23 J.



#### **KEY FEATURES**

#### MODULAR CONCEPT

Increase the power capability of your detector: 2 different cooling modules

#### LOW NOISE LEVEL

2 µJ for the MB coating

#### **QED ATTENUATOR AVAILABLE**

Measure up to 5X higher energies. Available with optional calibration, all wavelengths between 532 & 1064 nm, or single wavelength. Read more.

22 mm

## HIGH REPETITION RATE OPTIONS

- QE25HR-MB: 1 000 Hz
- QE25HR-MT: 10 000 Hz

#### **TEST TARGET INCLUDED**

With the MB models

#### **SMART INTERFACE**

Containing all the calibration data

#### **COMPATIBLE STAND**

STAND-D-233

# **SPECIFICATIONS**

#### MEASUREMENT CAPABILITIES

| Spectral range <sup>1</sup>               | 0.3 - 2.1 µm |
|---|--------------|
| Repeatability                             | <0.5%        |
| Maximum repetition frequency <sup>2</sup> | 300 Hz       |
| Maximum measurable energy <sup>3</sup>    | 23 J         |
| Noise equivalent energy <sup>4</sup>      | Гц 8         |
| Maximum pulse width                       | 400 μs       |
| Energy calibration uncertainty            | ±3 %         |

- 1. For the calibrated spectral range, see the user manual.
- 2. May be limited by the display or PC interface. Please refer to the corresponding user manual.
- 3. At 1064 nm, 7 ns, 10 Hz. Increasing pulse width increases maximum measurable energy.
- 4. Nominal value. Actual value depends on electrical noise in the measurement system.

### DAMAGE THRESHOLDS

| Maximum average power density <sup>1</sup> | 600 W/cm <sup>2</sup> |
|--|-----------------------|
| Maximum energy density <sup>2</sup>        | 8 J/cm²               |
| Maximum power                              | 15 W                  |

- 1. May vary with wavelength and average power.
- 2. At 1064 nm, 7 ns, 10 Hz. May vary with wavelength and pulse width.

#### PHYSICAL CHARACTERISTICS

Aperture width

| Cooling |  | Conve | ection |
|---------|--|-------|--------|
|         |  |       |        |

| Aperture height        | 22 mm              |
|------------------------|--------------------|
| Absorber               | QED                |
| Dimensions             | 53H x 55W x 19D mm |
| Weight                 | 0.12 kg            |
| ORDERING INFORMATION   |                    |
| QE25LP-S-MB-QED-D0     | 202182             |
| QE25LP-S-MB-QED-INT-D0 | 202740             |
| QE25LP-S-MB-QED-IDR-D0 | 203270             |
| QE25LP-S-MB-QED-INE-D0 |                    |

 $Specifications\ are\ subject\ to\ change\ without\ notice.\ Refer\ to\ the\ user\ manual\ for\ complete\ specifications.$ 

# **INTERESTED IN THIS PRODUCT?**

GET A QUOTE

Find your local sales representative at gentec-eo.com/contact-us