

## QE65ELP-H-MB-D0

Pyroelectric detector for laser energy measurement up to 50 J.



### PRODUCT FAMILY KEY FEATURES

#### MODULAR CONCEPT

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

#### LARGE APERTURE

Effective aperture of 65 x 65 mm

#### QED ATTENUATOR AVAILABLE

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

#### LOW NOISE LEVEL

10  $\mu$ J for the MB coating

#### TEST TARGET INCLUDED

With the MB models

#### SMART INTERFACE

Containing all the calibration data

#### COMPATIBLE STAND

[STAND-D-443](#)

## SPECIFICATIONS

### MEASUREMENT CAPABILITIES

|  |                    |
|--|--------------------|
| Spectral range <sup>1</sup>            | 0.193 - 20 $\mu$ m |
| Typical rise time                      | 6 ms               |
| Repeatability                          | <0.5%              |
| Maximum repetition frequency           | 20 Hz              |
| Maximum measurable energy <sup>2</sup> | 50 J               |
| Noise equivalent energy <sup>3</sup>   | 20 $\mu$ J         |
| Maximum pulse width                    | 5 ms               |
| Energy calibration uncertainty         | $\pm$ 3 %          |

1. For the calibrated spectral range, see the user manual.
2. At 1064 nm, 150  $\mu$ s, single-shot. Increasing pulse width increases maximum measurable energy.
3. Nominal value. Actual value depends on electrical noise in the measurement system.

### DAMAGE THRESHOLDS

|  |                       |
|--|-----------------------|
| Maximum average power density <sup>1</sup> | 10 W/cm <sup>2</sup>  |
| Maximum energy density <sup>2</sup>        | 0.6 J/cm <sup>2</sup> |
| Maximum power                              | 40 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

|                 |                       |
|-----------------|-----------------------|
| Cooling         | Convection (heatsink) |
| Aperture width  | 65 mm                 |
| Aperture height | 65 mm                 |
| Absorber        | MB                    |
| Dimensions      | 92H x 92W x 99D mm    |
| Weight          | 0.9 kg                |

### ORDERING INFORMATION

|                 |        |
|-----------------|--------|
| QE65ELP-H-MB-D0 | 201280 |
|-----------------|--------|

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](https://gentec-eo.com/contact-us)