

## QE95LP-S-MB-D0

Pyroelectric detector for laser energy measurement up to 35 J.



### PRODUCT FAMILY KEY FEATURES

#### MODULAR CONCEPT

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

#### EXTRA LARGE APERTURE

Effective aperture of 95 mm Ø

#### 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

15 µJ for the MB coating

#### 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>            | 0.193 - 20 µm |
| Typical rise time                      | 2 ms          |
| Repeatability                          | <0.5%         |
| Maximum repetition frequency           | 40 Hz         |
| Maximum measurable energy <sup>2</sup> | 35 J          |
| Noise equivalent energy <sup>3</sup>   | 15 µJ         |
| Maximum pulse width                    | 1.5 ms        |
| Energy calibration uncertainty         | ±3 %          |

1. For the calibrated spectral range, see the user manual.

2. At 1064 nm, 7 ns, 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                              | 20 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           |
| Aperture diameter | 95 mm                |
| Absorber          | MB                   |
| Dimensions        | 122H x 122W x 20D mm |
| Weight            | 0.78 kg              |

### ORDERING INFORMATION

|                    |        |
|--------------------|--------|
| QE95LP-S-MB-D0     | 201307 |
| QE95LP-S-MB-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](https://gentec-eo.com/contact-us)