gentec-e
PARTNERS for ACCURACY

# QE95ELP-H-MB-D0

Pyroelectric detector for laser energy measurement up to 70 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 higher energy levels. Available with optional calibration, all wavelengths between 532 and 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-443

# SPECIFICATIONS

## MEASUREMENT CAPABILITIES

| | |
|---|---|
| Spectral range[1] | 0.193 - 20 µm |
| Typical rise time | 6 ms |
| Repeatability | <0.5% |
| Maximum repetition frequency | 10 Hz |
| Maximum measurable energy[2] | 70 J |
| Noise equivalent energy[3] | 30 µJ |
| Maximum pulse width | 5 ms |
| Energy calibration uncertainty | ±3 % |

1. For the calibrated spectral range, see the user manual.
2. At 1064 nm, 150 µs, 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[1] | 10 W/cm² |
| Maximum energy density[2] | 0.6 J/cm² |
| 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 diameter | 95 mm |
| Absorber | MB |
| Dimensions | 122H x 122W x 99D mm |
| Weight | 1.2 kg |

## ORDERING INFORMATION

| | |
|---|---|
| QE95ELP-H-MB-D0 | 201313 |
| QE95ELP-H-MB-IDR-D0 | 203301 |

| | |
|---|---|
| QE95ELP-H-MB-INE-D0 | |
| QE95ELP-H-MB-INT-D0 | 202770 |

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