

QE65LP-H-MB-QED-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 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	0.3 - 2.1 µm
Typical rise time	1 ms
Repeatability	<0.5%
Maximum repetition frequency	100 Hz
Maximum measurable energy ²	50 J
Noise equivalent energy ³	20 µJ
Maximum pulse width	0.7 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 ¹	600 W/cm ²
Maximum energy density ²	8 J/cm ²
Maximum power	90 W

1. May vary with wavelength and average power.

2. At 1064 nm, 7 ns, 10 Hz. May vary with wavelength and pulse width. With QED diffuser, derate these values by 60 % for pulse energies greater than 0.5 J.

PHYSICAL CHARACTERISTICS

Cooling	Convection (heatsink)
Aperture width	62 mm
Aperture height	62 mm
Absorber	QED
Dimensions	95H x 97W x 104D mm
Weight	0.9 kg

ORDERING INFORMATION

QE65LP-H-MB-QED-D0	202191
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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