

QE12LP-H-MB-QED-D0

Pyroelectric detector for laser energy measurement up to 1.5 J.



PRODUCT FAMILY KEY FEATURES

MODULAR CONCEPT

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

LOW NOISE LEVEL

0.7 μ J 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.](#)

HIGH REPETITION RATE OPTIONS

- QE12HR-MB: 1 000 Hz
- QE12HR-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 ¹	0.3 - 2.1 μ m
Typical rise time	550 μ s
Repeatability	<0.5%
Maximum repetition frequency ²	300 Hz
Maximum measurable energy ³	1.5 J
Noise equivalent energy ⁴	1.4 μ J
Maximum pulse width	400 μ s
Energy calibration uncertainty	$\pm$ 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 ¹	600 W/cm ²
Maximum energy density ²	8 J/cm ²
Maximum power	12.5 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	9 mm
Aperture height	9 mm
Absorber	QED
Dimensions	39H x 41W x 38D mm
Weight	0.12 kg

ORDERING INFORMATION	
QE12LP-H-MB-QED-D0	202179
QE12LP-H-MB-QED-INE-D0	
QE12LP-H-MB-QED-IDR-D0	203252
QE12LP-H-MB-QED-INT-D0	202722

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