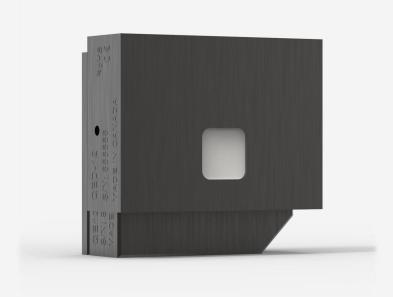




# QE12LP-S-MB-QED-D0

Pyroelectric detector for laser energy measurement up to 3.9 J.



#### PRODUCT FAMILY KEY FEATURES

### MODULAR CONCEPT

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

#### LOW NOISE LEVEL

0.7 µJ 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. Rea

#### 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 <sup>1</sup>	0.3 - 2.1 μm
Typical rise time	550 µs
Repeatability	<0.5%
Maximum repetition frequency <sup>2</sup>	300 Hz
Maximum measurable energy <sup>3</sup>	3.9 J
Noise equivalent energy <sup>4</sup>	1.4 μJ
Maximum pulse width	400 µs
Energy calibration uncertainty	±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 <sup>1</sup>	600 W/cm <sup>2</sup>	
Maximum energy density <sup>2</sup>	8 J/cm <sup>2</sup>	
Maximum power	7.5 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
Aperture width	9 mm
Aperture height	9 mm
Absorber	QED
Dimensions	39H x 41W x 19D mm

0.09 kg Weight





ORDERING INFORMATION	
QE12LP-S-MB-QED-D0	202178
QE12LP-S-MB-QED-INE-D0	
QE12LP-S-MB-QED-IDR-D0	203256
QE12LP-S-MB-QED-INT-D0	202726

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