



gentec-e)

QE12HR-H-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. Read mo

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

Spectral range ¹	0.3 - 2.1 μm
Typical rise time	70 µs
Repeatability	<0.5%
Maximum repetition frequency ²	1000 Hz
Maximum measurable energy ³	3.9 J
Noise equivalent energy ⁴	2.8 µJ
Maximum pulse width	40 µs
Energy calibration uncertainty	±3 %

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

Cool	

Cooling	Convection (heatsink)
Aperture width	9 mm
Aperture height	9 mm
Absorber	QED
Dimensions	39H x 41W x 38D mm





203897

203905

205364

ORDERING INFORMATION

QE12HR-H-MB-QED-D0

QE12HR-H-MB-QED-INT-D0

QE12HR-H-MB-QED-IDR-D0

QE12HR-H-MB-QED-INE-D0

Specifications are subject to change without notice. Refer to the user manual for complete specifications.

INTERESTED IN THIS PRODUCT?



Find your local sales representative at gentec-eo.com/contact-us