QE12HR-H-MB-D0

Pyroelectric detector for laser energy measurement up to 0.85 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 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]	0.193 - 20 µm
Typical rise time	70 µs
Repeatability	<0.5%
Maximum repetition frequency[2]	1000 Hz
Maximum measurable energy[3]	0.85 J
Noise equivalent energy[4]	1.4 µJ
Maximum pulse width	40 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[1]	10 W/cm²
Maximum energy density[2]	0.6 J/cm²
Maximum power	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	12 mm
Aperture height	12 mm
Absorber	MB
Dimensions	36H x 36W x 33D mm
Weight	0.12 kg

ORDERING INFORMATION

QE12HR-H-MB-D0	203895
QE12HR-H-MB-INT-D0	203903
QE12HR-H-MB-INE-D0	
QE12HR-H-MB-IDR-D0	205363

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