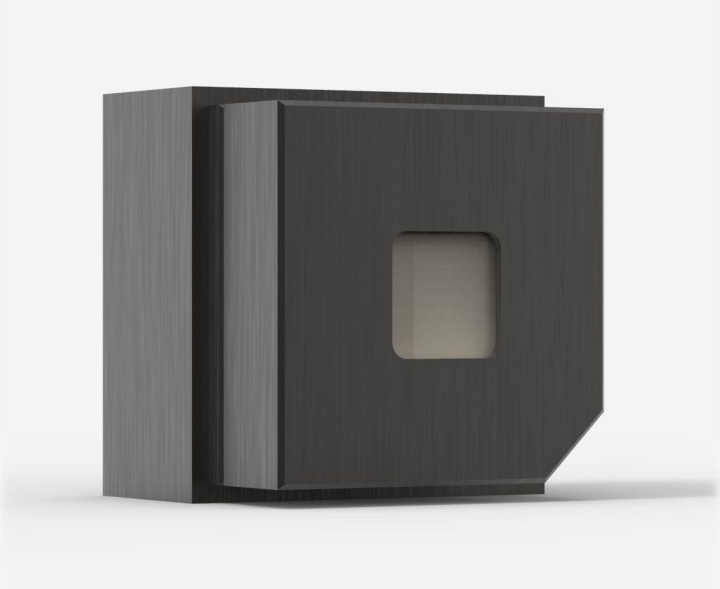
gentec-eo
PARTNERS for ACCURACY

QE12HR-H-MT-D0

Pyroelectric detector for laser energy measurement up to 0.70 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 higher energy levels. Available with optional calibration, all wavelengths between 532 and 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	7 µs
Repeatability	<0.5%
Maximum repetition frequency[2]	10000 Hz
Maximum measurable energy[3]	0.7 J
Noise equivalent energy[4]	1 µJ
Maximum pulse width	4 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]	0.5 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	MT
Dimensions	36H x 36W x 33D mm
Weight	0.12 kg

ORDERING INFORMATION

QE12HR-H-MT-D0	205104

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