

QE25HR-H-MB-QED-D0

Pyroelectric detector for laser energy measurement up to 10 J.



PRODUCT FAMILY KEY FEATURES

MODULAR CONCEPT

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

LOW NOISE LEVEL

2 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

- QE25HR-MB: 1 000 Hz
- QE25HR-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	70 μ s
Repeatability	<0.5%
Maximum repetition frequency ²	1000 Hz
Maximum measurable energy ³	10 J
Noise equivalent energy ⁴	20 μ J
Maximum pulse width	40 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	30 W

1. May vary with wavelength and average power.

2. At 1064 nm, 7 ns, 10 Hz. May vary with wavelength and pulse width. With QED diffuser, derate these values by 60 % for pulse energies greater than 0.5 J.

PHYSICAL CHARACTERISTICS

Cooling	Convection (heatsink)
Aperture width	22 mm
Aperture height	22 mm
Absorber	QED
Dimensions	53H x 55W x 58D mm
Weight	0.193 kg

ORDERING INFORMATION	
QE25HR-H-MB-QED-D0	203901
QE25HR-H-MB-QED-INE-D0	
QE25HR-H-MB-QED-IDR-D0	205366
QE25HR-H-MB-QED-INT-D0	203909

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