QE50LP-H-MB-QED-D0

Pyroelectric detector for laser energy measurement up to 40 J.

PRODUCT FAMILY KEY FEATURES

MODULAR CONCEPT

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

LOW NOISE LEVEL

10 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

- QE-MB: 200 Hz (standard)
- QE-MB: 500 Hz (upon request)
- QE-MT: 4 000 Hz (standard)

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 µm
Typical rise time	900 µs
Repeatability	<0.5%
Maximum repetition frequency	200 Hz
Maximum measurable energy[2]	40 J
Noise equivalent energy[3]	20 µJ
Maximum pulse width	675 µs
Energy calibration uncertainty	±3 %

1. For the calibrated spectral range, see the user manual.
2. At 1064 nm, 7 ns, 10 Hz. Increasing pulse width increases maximum measurable energy.
3. Nominal value. Actual value depends on electrical noise in the measurement system.

DAMAGE THRESHOLDS

Maximum average power density[1]	600 W/cm²
Maximum energy density[2]	8 J/cm²
Maximum power	45 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	47 mm
Aperture height	47 mm
Absorber	QED
Dimensions	78H x 80W x 49D mm

Weight	0.34 kg

ORDERING INFORMATION

QE50LP-H-MB-QED-D0	202187
QE50LP-H-MB-QED-INE-D0	
QE50LP-H-MB-QED-INT-D0	202748
QE50LP-H-MB-QED-IDR-D0	203278

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