

## QE12LP-S-MB-QED-D0

Pyroelectric detector for laser energy measurement up to 3.9 J.



### KEY FEATURES

#### MODULAR CONCEPT

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

#### LOW NOISE LEVEL

0.7  $\mu$ 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

- 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 <sup>1</sup>	0.3 - 2.1 $\mu$ m
Typical rise time	550 $\mu$ s
Repeatability	<0.5%
Maximum repetition frequency <sup>2</sup>	300 Hz
Typical energy sensitivity	60 V/J
Maximum measurable energy <sup>3</sup>	3.9 J
Noise equivalent energy <sup>4</sup>	1.4 $\mu$ J
Maximum pulse width	400 $\mu$ 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 <sup>1</sup>	600 W/cm <sup>2</sup>
Maximum energy density <sup>2</sup>	8 J/cm <sup>2</sup>
Maximum power	7.5 W

1. At 1064 nm, 7 ns, 10 Hz.
2. At 1064 nm, 7 ns, 10 Hz.

### PHYSICAL CHARACTERISTICS

Aperture width	9 mm
Aperture height	9 mm
Absorber	QED
Dimensions	36H x 36W x 14D mm
Weight	0.09 kg

ORDERING INFORMATION

QE12LP-S-MB-QED-DO

202178

QE12LP-S-MB-QED-INE-DO

QE12LP-S-MB-QED-IDR-DO

203256

QE12LP-S-MB-QED-INT-DO

202726

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