

QE95LP-S-MB-QED-D0

Pyroelectric detector for laser energy measurement up to 60 J.



PRODUCT FAMILY KEY FEATURES

MODULAR CONCEPT

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

EXTRA LARGE APERTURE

Effective aperture of 95 mm Ø

QED ATTENUATOR AVAILABLE

Measure higher energy levels. Available with optional calibration, all wavelengths between 532 and 1064 nm, or single wavelength. [Read more.](#)

LOW NOISE LEVEL

15 µJ for the MB coating

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	2 ms
Repeatability	<0.5%
Maximum repetition frequency	40 Hz
Maximum measurable energy ²	60 J
Noise equivalent energy ³	30 µJ
Maximum pulse width	1.5 ms
Energy calibration uncertainty	±3 %

1. For the calibrated spectral range, see the user manual.

2. At 1064 nm, 7 ns, single-shot. 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
Aperture diameter	90 mm
Absorber	QED
Dimensions	125H x 127W x 25D mm
Weight	0.78 kg

ORDERING INFORMATION

QE95LP-S-MB-QED-D0	202194
QE95LP-S-MB-QED-IDR-D0	203311

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