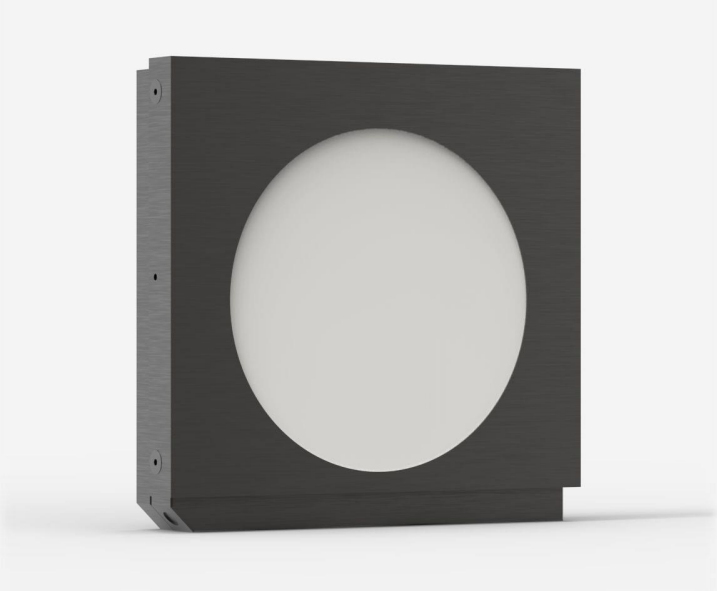
gentec-e
PARTNERS for ACCURACY

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

QE95LP-S-MB-QED-INE-D0	
QE95LP-S-MB-QED-INT-D0	202780

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