



QE195LP-S-MB-D0

Pyroelectric detector for laser energy measurement up to 250 J.



PRODUCT FAMILY KEY FEATURES

CUSTOM-BUILT

Contact us with your requirements for a version tailored to your needs

MODULAR CONCEPT

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

EXTRA LARGE APERTURE

Effective aperture of 195 mm \varnothing

QED ATTENUATOR AVAILABLE

Measure up to 5X higher energies. Available with optional calibration, all wavelengths between 532 & 1064 nm, or single wavelength. [Read more.](#)

TEST TARGET INCLUDED

With the MB models

SMART INTERFACE

Containing all the calibration data

AWARD-WINNING TECHNOLOGY

The QE195 series of laser energy detectors was recognized among the most innovative photonics technologies for the [2024 Laser Focus World Innovators Awards](#), as a Platinum honoree.



COMPATIBLE STAND

[STAND-D-443](#)

SPECIFICATIONS

MEASUREMENT CAPABILITIES

Spectral range ¹	0.193 - 20 μm
Repeatability	<0.5%
Maximum repetition frequency ²	200 Hz
Maximum measurable energy ³	250 J
Noise equivalent energy ⁴	100 μJ
Maximum pulse width ⁵	5 ms
Energy calibration uncertainty	$\pm 3\%$

1. For the calibrated spectral range, see the user manual.
2. These products are custom-built. Contact us with your requirements for a version tailored to your needs.
3. These products are custom-built. Contact us with your requirements for a version tailored to your needs.
4. Nominal value. Actual value depends on electrical noise in the measurement system.
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DAMAGE THRESHOLDS

Maximum average power density ¹	10 W/cm ²
Maximum energy density ²	0.6 J/cm ²
Maximum power	150 W



1. May vary with wavelength and average power.
2. At 1064 nm, 7 ns, 10 Hz. May vary with wavelength and pulse width.

PHYSICAL CHARACTERISTICS

Cooling	Convection (heatsink)
Aperture diameter	195 mm
Absorber	MB
Dimensions	229H x 229W x 24D mm
Weight	3.1 kg

ORDERING INFORMATION

- QE195LP-S-MB-D0
- QE195LP-S-MB-INT-D0
- QE195LP-S-MB-IDR-D0
- QE195LP-S-MB-INE-D0

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