

QE195-MB

The largest pyroelectric energy detector on the market

New product



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 Ø
- > **QED ATTENUATOR AVAILABLE**
 - Measure up to 5X higher energies
 - Available with optional calibration, all wavelengths between 532 & 1064 nm, or single wavelength
- > **LOW NOISE LEVEL**
- > **TEST TARGET INCLUDED**

OUTPUT OPTIONS

- > **SMART INTERFACE**
Containing all the calibration data
- > **integra ALL-IN-ONE-METER**
Connects directly to a PC
Three models available:
 - USB output (-INT)
 - RS-232 output (-IDR)
 - USB with external trigger (-INE)

COMPATIBLE DISPLAYS & PC INTERFACES



MIRO ALTITUDE



MAESTRO



U-LINK



M-LINK



S-LINK

ACCESSORIES



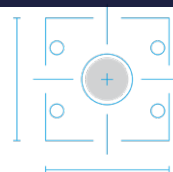
Stand with delrin post



DB15 to BNC adaptor



Pelican carrying case



	QE195, CUSTOM CAPABILITIES	QE195-QED, CUSTOM CAPABILITIES
MAX MEASURABLE ENERGY ^a	Up to 250 J	Up to 700 J
MAX REPETITION FREQUENCY	Up to 200 Hz	Up to 200 Hz
EFFECTIVE APERTURE	195 mm Ø	185 mm Ø
MEASUREMENT CAPABILITY		
Spectral range	0.19 - 20 µm	0.3 - 2.1 µm
Calibrated spectral range ^b	0.248 - 2.1 µm	0.308 - 2.1 µm
Maximum measurable energy ^a		
1064 nm, 150 µs	Up to 250 J	Up to 700 J
1064 nm, 7 ns	Up to 125 J	Up to 400 J
Noise equivalent energy ^c	As low as 100 µJ	As low as 200 µJ
Max repetition frequency	Up to 200 Hz	Up to 200 Hz
Maximum pulse width (typical) ^d	Up to 5 ms	Up to 5 ms
Calibration uncertainty ^e	± 3 %	± 3 %
Repeatability	< ± 0.5 %	< ± 0.5 %
DAMAGE THRESHOLDS		
Maximum average power	Up to 150 W	Up to 350 W
Maximum energy density		
1064 nm, 150 µs, 10 Hz	1.2 J/cm ²	14 J/cm ²
1064 nm, 7 ns, single shot	0.6 J/cm ²	16 J/cm ²
1064 nm, 7 ns, 10 Hz	0.6 J/cm ²	8 J/cm ²
266 nm, 7 ns, 10 Hz	0.5 J/cm ²	1 J/cm ²
Maximum average power density ^f	10 W/cm ²	600 W/cm ²
PHYSICAL CHARACTERISTICS		
Effective aperture	195 mm Ø	185 mm Ø
Absorber	MB or MT	QED
Dimensions	229H x 229W x 24D mm (thicker with heatsink)	229H x 229W x 27D mm (thicker with heatsink)
Weight	3 - 5 kg	3 - 6 kg
Cooling	Convection or heatsink	Convection or heatsink
ORDERING INFORMATION		
Available output options	DB15, USB or RS-232	DB15, USB or RS-232
Compatible stand	STAND-D-443	STAND-D-443
Product page		

* These products are custom-built. Contact us with your requirements for a version tailored to your needs.

- a. Not exceeding maximum average power. Increasing pulse width increases the maximum measurable energy. The maximum measurable energy depends on the display or PC interface used. If your laser is close to the maximum, contact us to check your specifications.
- b. Calibration at 2.1 to 2.5 µm is available on special request.
- c. Nominal value, actual value depends on electrical noise in the measurement system.
- d. Excludes non-linearities.
- e. At 12 W.