

QE25-MB

25 x 25 mm, 2 μ J - 23 J



KEY FEATURES

- > **MODULAR CONCEPT**
Increase the power capability of your detector:
2 different cooling modules
- > **LOW NOISE LEVEL**
- > **QED ATTENUATOR AVAILABLE**
 - Measure up to 5X higher energies
 - Available with optional calibration, all wavelengths between 532 & 1064 nm, or single wavelength
- > **HIGH REPETITION RATE OPTIONS**
 - QE25LP: 300 Hz
 - QE25HR: 1000 Hz
- > **TEST TARGET INCLUDED**

OUTPUT OPTIONS

- > **SMART INTERFACE**
Containing all the calibration data
- >  **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



QED-25 attenuator



Pelican carrying case

QE25-MB

Specifications



	QE25LP-S-MB	QE25LP-S-MB-QED	QE25LP-H-MB	QE25LP-H-MB-QED	QE25HR-H-MB	QE25HR-H-MB-QED
MAX MEASURABLE ENERGY^a	3.8 J	23 J	3.8 J	23 J	3.8 J	23 J
MAX REPETITION FREQUENCY^b	300 Hz	300 Hz	300 Hz	300 Hz	1 kHz	1 kHz
EFFECTIVE APERTURE	25 x 25 mm	22 x 22 mm	25 x 25 mm	22 x 22 mm	25 x 25 mm	22 x 22 mm

MEASUREMENT CAPABILITY

Spectral range	0.19 - 20 μ m	0.3 - 2.1 μ m	0.19 - 20 μ m	0.3 - 2.1 μ m	0.19 - 20 μ m	0.3 - 2.1 μ m
Calibrated spectral range^c	0.248 - 2.1 μ m	0.308 - 2.1 μ m	0.248 - 2.1 μ m	0.308 - 2.1 μ m	0.248 - 2.1 μ m	0.308 - 2.1 μ m
Maximum measurable energy^a						
1064 nm, 7 ns	3.8 J	23 J	3.8 J	23 J	3.8 J	23 J
266 nm, 7 ns	3.1 J	4.8 J	3.1 J	4.8 J	3.1 J	4.8 J
Noise equivalent energy^d	4 μ J	8 μ J	4 μ J	8 μ J	10 μ J	20 μ J
Max repetition frequency^b	300 Hz	300 Hz	300 Hz	300 Hz	1 kHz	1 kHz
Maximum pulse width (typical)^e	400 μ s	400 μ s	400 μ s	400 μ s	40 μ s	40 μ s
Calibration uncertainty^f	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$
Repeatability	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%

DAMAGE THRESHOLDS

Maximum average power	5 W	15 W	10 W	30 W	10 W	30 W
Maximum energy density						
1064 nm, 7 ns, single shot	0.6 J/cm ²	16 J/cm ²	0.6 J/cm ²	16 J/cm ²	0.6 J/cm ²	16 J/cm ²
1064 nm, 7 ns, 10 Hz	0.6 J/cm ²	8 J/cm ²	0.6 J/cm ²	8 J/cm ²	0.6 J/cm ²	8 J/cm ²
532 nm, 7 ns, 10 Hz	0.6 J/cm ²	6 J/cm ²	0.6 J/cm ²	6 J/cm ²	0.6 J/cm ²	6 J/cm ²
266 nm, 7 ns, 10 Hz	0.5 J/cm ²	1 J/cm ²	0.5 J/cm ²	1 J/cm ²	0.5 J/cm ²	1 J/cm ²
Maximum average power density^g	10 W/cm ²	600 W/cm ²	10 W/cm ²	600 W/cm ²	10 W/cm ²	600 W/cm ²

PHYSICAL CHARACTERISTICS

Effective aperture	25 X 25 mm	22 X 22 mm	25 X 25 mm	22 X 22 mm	25 X 25 mm	22 X 22 mm
Absorber	MB	QED	MB	QED	MB	QED
Dimensions	50H x 50W x 14D mm	53H x 55W x 19D mm	50H x 50W x 53D mm	53H x 55W x 58D mm	50H x 50W x 53D mm	53H x 55W x 58D mm
Weight	120 g	120 g	193 g	193 g	193 g	193 g

ORDERING INFORMATION

Available output options	DB15, USB or RS-232	DB15, USB or RS-232	DB15, USB or RS-232	DB15, USB or RS-232	DB15, USB or RS-232	DB15, USB or RS-232
Compatible stand	STAND-D-233	STAND-D-233	STAND-D-233	STAND-D-233	STAND-D-233	STAND-D-233
Product page						

- 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. With the IDR version, measured values are sampled when the repetition rate is > 200 Hz.
- c. Calibration at 2.1 to 2.5 μ m is available on special request.
- d. Nominal value, actual value depends on electrical noise in the measurement system.
- e. Also available on special order: ELP (extra-long pulse) version
- f. Excludes non-linearities.
- g. At maximum power.