

QE25-MB

25 x 25 mm, 2 μ J - 23 J

New product



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
- > **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



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 μm	0.3 - 2.1 μm	0.19 - 20 μm	0.3 - 2.1 μm	0.19 - 20 μm	0.3 - 2.1 μm
Calibrated spectral range^c	0.248 - 2.1 μm	0.308 - 2.1 μm	0.248 - 2.1 μm	0.308 - 2.1 μm	0.248 - 2.1 μm	0.308 - 2.1 μm
Maximum measurable energy^a						
1064 nm, 7 ns, 10 Hz	3.8 J	23 J	3.8 J	23 J	3.8 J	23 J
266 nm, 7 ns, 10 Hz	3.1 J	4.8 J	3.1 J	4.8 J	3.1 J	4.8 J
Noise equivalent energy^d	4 μJ	8 μJ	4 μJ	8 μJ	10 μJ	20 μJ
Max repetition frequency^b	300 Hz	300 Hz	300 Hz	300 Hz	1 kHz	1 kHz
Maximum pulse width (typical)^e	400 μs	400 μs	400 μs	400 μs	40 μs	40 μs
Rise time (typical 0-100%)	550 μs	550 μs	550 μs	550 μs	70 μs	70 μs
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.
- b. With the IDR version, measured values are sampled when the repetition rate is > 200 Hz.
- c. Calibration at 2.1 to 2.5 μm 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.