gentec-eo PARTNERS for ACCURACY

LASER COMPONENTS®

QE25-MB

25 x 25 mm, 2 µJ - 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
- 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

Germany and Other Countries
Laser Components Germany GmbH
Tel: +49 8142 2864–0
Fax: +49 8142 2864–11
info@lasercomponents.com
www.lasercomponents.com

France
Laser Components S.A.S.
Tel: +33 1 39 59 52 25
Fax: +33 1 39 59 53 50
info@lasercomponents.fr
www.lasercomponents.fr

Nordic Countries
Laser Components Nordic AB
Tel: +46 31 703 71 73
Fax: +46 31 703 71 01
info@lasercomponents.se
www.lasercomponents.se

LASER COMPONENTS®

QE25-MB
Specifications

CE NIST* Traceable

*Also traceable to NRC-CNRC

	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	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 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
Calibration uncertainty [f]	± 3%	± 3%	± 3%	± 3%	± 3%	± 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/cm²	16 J/cm²	0.6 J/cm²	16 J/cm²	0.6 J/cm²	16 J/cm²
1064 nm, 7 ns, 10 Hz	0.6 J/cm²	8 J/cm²	0.6 J/cm²	8 J/cm²	0.6 J/cm²	8 J/cm²
532 nm, 7 ns, 10 Hz	0.6 J/cm²	6 J/cm²	0.6 J/cm²	6 J/cm²	0.6 J/cm²	6 J/cm²
266 nm, 7 ns, 10 Hz	0.5 J/cm²	1 J/cm²	0.5 J/cm²	1 J/cm²	0.5 J/cm²	1 J/cm²
Maximum average power density [g]	10 W/cm²	600 W/cm²	10 W/cm²	600 W/cm²	10 W/cm²	600 W/cm²
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 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.

Specifications are subject to change without notice

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France
Laser Components S.A.S.
Tel: +33 1 39 59 52 25
Fax: +33 1 39 59 53 50
info@lasercomponents.fr
www.lasercomponents.fr

Nordic Countries
Laser Components Nordic AB
Tel: +46 31 703 71 73
Fax: +46 31 703 71 01
info@lasercomponents.se
www.lasercomponents.se