

QE95-MB

95 mm Ø, 15 µJ - 250 J



KEY FEATURES

- > **MODULAR CONCEPT**
Increase the power capability of your detector:
2 different cooling modules
- > **EXTRA LARGE APERTURE**
Effective aperture of 95 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
(200428, For -S model)



Stand with delrin post
(201284, For -H model)



DB15 to BNC adaptor



QED-95 attenuator



Pelican carrying case

QE95-MB

Specifications



*Also traceable to NRC-CNRC



	QE9SLP-S-MB	QE9SLP-S-MB-QED	QE9SLP-H-MB	QE9SLP-H-MB-QED	QE9SELP-H-MB
MAX MEASURABLE ENERGY*	35J	250J	35 J	250J	70J
MAX REPETITION FREQUENCY	40Hz	40Hz	40Hz	40 Hz	10Hz
EFFECTIVE APERTURE	95mm(/)	90mm(/)	95mm(/)	90mm(/)	95mm(/)

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
Calibrated spectral range ^b	0.248 - 21 μm	0.308 - 21 μm	0.248-2.1 μm	0.308 - 21 μm	0.248 - 21 μm
Maximum measurable energy ^c					
1064 nm, 150 μs pulse, Single shot	35J	250J	35 J	250J	70J
1064 nm, 7 ns, 10 Hz	35J	150J	35 J	150J	35J
266 nm, 7 ns, 10 Hz	30J	50J	30J	50J	30J
Noise equivalent energy ^d	15 μJ	30 μJ	15 μJ	30 μJ	30 μJ
Max repetition frequency	40Hz	40Hz	40Hz	40 Hz	10Hz
Maximum pulse width (typical) ^e	1.5ms	1.5ms	1.5ms	1.5ms	5ms
Rise time (typical 0-100%)	2ms	2ms	2ms	2ms	6ms
Calibration uncertainty ^f	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$
Repeatability	<0.5%	<0.5%	<0.5%	<0.5%	<0.5%

DAMAGE THRESHOLDS

Maximum average power	20W	45W	40W	90W	40W
Maximum energy density					
1064 nm, 150 μs , 10 Hz	1.2J/cm ²	14J/cm ²	1.2J/cm ²	14J/cm ²	1.2J/cm ²
1064 nm, 7 ns, single shot	0.6J/cm ²	16J/cm ²	0.6J/cm ²	16J/cm ²	0.6J/cm ²
1064 nm, 7 ns, 10 Hz	0.6J/cm ²	5J/cm ²	0.6J/cm ²	8J/cm ²	0.6J/cm ²
532 nm, 7 ns, 10 Hz	0.6J/cm ²	6J/cm ²	0.6J/cm ²	6J/cm ²	0.6J/cm ²
266 nm, 7 ns, 10 Hz	0.5J/cm ²	1J/cm ²	0.5J/cm ²	1J/cm ²	0.5J/cm ²
Maximum average power density ^f	10W/cm ²	600W/cm ²	10W/cm ²	600W/cm ²	10W/cm ²

PHYSICAL CHARACTERISTICS

Effective aperture	95mm(/)	90mm(/)	95mm(/)	90mm(/)	95mm(/)
Absorber	MB	QED	MB	QED	MB
Dimensions	122H x 122W x 20D mm	122H x 122W x 24D mm	122H x 122W x 98D mm	122H x 122W x 102D mm	122H x 122W x 98D mm
Weight	0.78 kg	0.78 kg	1.2kg	12 kg	12 kg

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
Compatible stand	STAND-D-233	STAND-D-233	STAND-D-443	STAND-D-443	STAND-D-443
Product page					

- a. Not exceeding maximum average power. Increasing pulse width increases the maximum measurable energy.
b. Calibration at 21 to 2.5 μm is available on special request.
c. Nominal value, actual value depends on electrical noise in the measurement system.
d. Also available on special order: ELP (extra-long pulse) version.
e. Excludes non-linearities.
f. At maximum power.