

QE65-MB

65 x 65 mm, 10 μ J - 200 J



KEY FEATURES

- > **MODULAR CONCEPT**
Increase the power capability of your detector:
2 different cooling modules
- > **LARGE APERTURE**
Effective aperture of 65 x 65 mm
- > **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**
10 μ J for the MB coating
- > **TEST TARGET INCLUDED**
With the MB models

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-65 attenuator



Pelican carrying case

QE65-MB

Specifications

CE NIST*
Traceable
*Also traceable to NRC-CNRC



	QE65LP-S-MB	QE65LP-S-MB-QED	QE65LP-H-MB	QE65LP-H-MB-QED	QE65ELP-H-MB
MAX MEASURABLE ENERGY ^a	25J	200J	25 J	200J	50J
MAX REPETITION FREQUENCY	100Hz	100Hz	100 Hz	100 Hz	20Hz
EFFECTIVE APERTURE	65x65mm	62x62mm	65x65mm	62x62mm	65x65mm

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	0.24S-2.1 μm	0.30S-2.1 μm	0.24S-2.1 μm	0.30S-2.1 μm	0.24S-2.1 μm
Maximum measurable energy ^c					
1064 nm, 150 μs pulse, single shot	25 J	200J	25 J	200J	50J
1064 nm, 7 ns, 10 Hz	25J	125J	25 J	125J	25J
266 nm, 7 ns, 10 Hz	20J	35J	20J	35J	20J
Noise equivalent energy ^d	10 μJ	20 μJ	10 μJ	20 μJ	20 μJ
Max repetition frequency	100Hz	100Hz	100 Hz	100 Hz	20Hz
Maximum pulse width (typical) ^e	0.7ms	0.7ms	0.7ms	0.7ms	5ms
Rise time (typical 0-100%)	1ms	1ms	1ms	1ms	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%

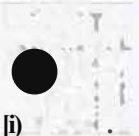
DAMAGE THRESHOLDS

Maximum average power	12W	30W	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	5J/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 ^{2h}	600W/cm ²	10W/cm ²

PHYSICAL CHARACTERISTICS

Effective aperture	65x65mm	62x62mm	65x65mm	62x62mm	65x65mm
Absorber	MB	QED	MB	QED	MB
Dimensions	90H x 90W x 20D mm	90H x 90W x 24D mm	90H x 90W x 94D mm	90H x 90W x 95D mm	90H x 90W x 94D mm
Weight	440g	440g	900g	900g	900g

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.