

QE-B

50 nJ - 3.6 mJ, ultra-low energy measurements



KEY FEATURES

- > **VERY LOW NOISE LEVELS**
Noise levels of a photodetector, but with the high energies of a pyroelectric:
 - 50 nJ with the MT coating
 - 100 nJ with the BL coating
- > **2 COATINGS AVAILABLE**
 - BL: Black coating, sensitivity of 900 V/J, readings up to 400 Hz
 - MT: Metallic coating, sensitivity of 2400 V/J, readings up to 1000 Hz

OUTPUT OPTIONS

- > **SMART INTERFACE**
Containing all the calibration data
- > **ANALOG OUTPUT**
When used with APM (D) analog power supply
- > **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



MAESTRO



U-LINK



M-LINK



S-LINK

ACCESSORIES



Stand with delrin post



Fiber adaptors & connectors
(FC, ST or SMA)



APM (D) analog power supply



Pelican carrying case



Isolation tube

This product cannot be used with DB15 extension cables



	QE8SP-B-BL	QE8SP-B-MT
MAX MEASURABLE ENERGY	3.6 mJ	1.3 mJ
MAX REPETITION FREQUENCY	400 Hz	1000 Hz
EFFECTIVE APERTURE	7.8 X 7.8 mm	7.8 X 7.8 mm
MEASUREMENT CAPABILITY		
Spectral range	0.19 - 20 μm	0.19 - 20 μm
Calibrated spectral range ^a	0.248 - 2.1 μm	0.248 - 2.1 μm
Max measurable energy		
With U-LINK	3.6 mJ	1.3 mJ
With S-LINK	2.9 mJ	1.1 mJ
With MAESTRO	2.5 mJ	0.93 mJ
Noise equivalent energy		
With U-LINK	150 nJ	80 nJ
With S-LINK	100 nJ	50 nJ
With MAESTRO	150 nJ	80 nJ
Max repetition frequency	400 Hz	1000 Hz
Max pulse width	10 μs	10 μs
Risetime (0-100%)	30 μs	30 μs
Calibration uncertainty	$\pm 4.0\%$	$\pm 4.0\%$
Repeatability	$< 0.5\%$	$< 0.5\%$
DAMAGE THRESHOLDS		
Maximum average power	0.5 W	0.5 W
Maximum average power density		
1064 nm, 7 ns, 10 Hz	1 W/cm ²	1 W/cm ²
Maximum energy density		
1064 nm, 7 ns, 10 Hz	50 mJ/cm ²	50 mJ/cm ²
PHYSICAL CHARACTERISTICS		
Effective aperture	7.8 x 7.8 mm	7.8 x 7.8 mm
Absorber	Organic black	Metallic
Dimensions	38.1 ϕ X 27.4D mm	38.1 ϕ X 27.4D mm
Weight	91 g	91 g
ORDERING INFORMATION		
Available output options	DB15, USB or RS-232	DB15, USB or RS-232
Compatible stand	STAND-D-233 or STAND-D-233-M	STAND-D-233 or STAND-D-233-M
Product page		

a. Calibration at 2.1 to 2.5 μm is available on special request.

POWER DETECTORS

ENERGY DETECTORS

BEAM PROFILING

TERAHERTZ DETECTORS

DISPLAYS & PC INTERFACES

CUSTOM / OEM PRODUCTS