

QE-I-USB

20 nJ - 20 mJ, Integrated USB Module



KEY FEATURES

1 Integrated USB Module

Plug the device directly to your PC, no need for an additional PC-Interface

2 Powered by your PC

No external wiring needed

3 Software Application Included

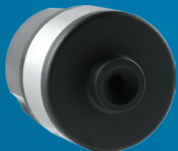
Take full control of your instrument with our unique software:

- Set Range and Trigger Level
- Measure and Display Energy and Full Statistics
- Display Data in Strip Chart or Histogram
- Log Data to a File
- Dual Channel Software Available

4 2 Models Available

- QE8SP-I-BL-USB: Organic Black coating for flat spectral response
- QE8SP-I-MT-USB: Chromium coating for pulse-to-pulse response up to 1000 Hz

AVAILABLE MODELS



QE8SP-I-MT-USB
(Chromium Coating)

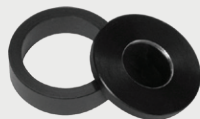


QE8SP-I-BL-USB
(Organic Black Coating)

ACCESSORIES



Stand with Delrin Post



Removable IR Windows
(Various types available)



Pelican Carrying Case

SEE ALSO

TECHNICAL DRAWINGS

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QE-I-USB

SPECIFICATIONS



Approved or in the process of being approved *

MODELS	QE8SP-I-BL-USB	QE8SP-I-MT-USB
MAX ENERGY	20 mJ	20 mJ
EFFECTIVE APERTURE	7.8 x 7.8 mm	7.8 x 7.8 mm
INTEGRATED MODULE	Digital (USB)	Digital (USB)

MEASUREMENT CAPABILITY

	QE8SP-I-BL-USB	QE8SP-I-MT-USB
Spectral Range	0.1 - 1000 μm	0.1 - 1000 μm
Max Measurable Energy	20 mJ	20 mJ
Noise Equivalent Energy	20 nJ	20 nJ
Rise Time (0-100%)	23 μs	23 μs
Max Repetition Rate	400 Hz	1000 Hz
Max Pulse Width	15 μsec	15 μsec
Sensitivity	100 V/J	100 V/J
Calibration Uncertainty	$\pm 3.0\%$	$\pm 3.0\%$
Repeatability	$\pm 0.5\%$	$\pm 0.5\%$

DAMAGE THRESHOLDS

	QE8SP-I-BL-USB	QE8SP-I-MT-USB
Max Average Power	0.5 W	0.5 W
Max Avg Power Density (@ 1.064 μm)	1 W/cm ²	1 W/cm ²
Max En. Dens.: 1.064 μm , 7 ns, 10 Hz	50 mJ/cm ²	50 mJ/cm ²

PHYSICAL CHARACTERISTICS

	QE8SP-I-BL-USB	QE8SP-I-MT-USB
Effective Aperture	7.8 x 7.8 mm	7.8 x 7.8 mm
Sensor	Pyroelectric	Pyroelectric
Absorber	BL	MT
Analog Output	0-2 V	0-2 V
Dimensions	81.3 \varnothing X 94.0D mm	81.3 \varnothing X 94.0D mm
Weight	500 g	500 g

ORDERING INFORMATION

	QE8SP-I-BL-USB	QE8SP-I-MT-USB
Full Product Name	QE8SP-I-BL-USB	QE8SP-I-MT-USB
Product Number	201715	201713

Specifications are subject to change without notice

* For details, contact your Gentec-EO representative