

# 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

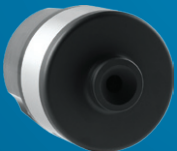
Take full control of your instrument with our unique software:

- 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)

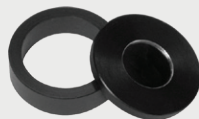


QE8SP-I-BL-USB  
(Organic Black Coating)

## ACCESSORIES



Stand with Delrin Post



Removable IR Windows  
(Various types available)



Pelican Carrying Case

## SEE ALSO

TECHNICAL DRAWINGS

58

# 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 $\mu\text{m}$	0.1 - 1000 $\mu\text{m}$
Max Measurable Energy	20 mJ	20 mJ
Noise Equivalent Energy	20 nJ	20 nJ
Rise Time (0-100%)	23 $\mu\text{s}$	23 $\mu\text{s}$
Max Repetition Rate	400 Hz	1000 Hz
Max Pulse Width	15 $\mu\text{sec}$	15 $\mu\text{sec}$
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 $\mu\text{m}$ )	1 W/cm <sup>2</sup>	1 W/cm <sup>2</sup>
Max En. Dens.: 1.064 $\mu\text{m}$ , 7 ns, 10 Hz	50 mJ/cm <sup>2</sup>	50 mJ/cm <sup>2</sup>

### 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