

QE25



25 x 25 mm, 2 μ J - 20 J



Key Features

- 1 **Modular Concept**
Increase the power capability of your detector : 2 different cooling modules
- 2 **Low Noise Level**
2 μ J for the MT coating
- 3 **Test Target Included**
With the MB models
- 4 **Available with Metallic Absorber**
High Repetition Rate (6000 Hz)
- 5 **Noise Reduction Stand**
Delrin post to reduce noise coming from exterior vibrations
- 6 **Smart Interface**
Containing all the calibration data



Diamond Configuration

See also

- . How it works 12
- . Calibration 6
- . QED attenuator 30
- . Detailed dimensions 43
- . Spectral absorption 106
- . Compatible monitors
 - SOLO 2 20
 - S-LINK-2 24

Accessories

» **QED Attenuator**
30 - 40% transmittance
190 nm - 2.5 μ m



» **DB-15 to BNC Adaptor**
Make your QE Series detector compatible with your oscilloscope.



» **Pelican Carrying Case**
We offer a robust hard shell polymer carrying case.



Monitors

Energy Detectors

Power Detectors

OEM Detectors

Calorimeters

Diffractive Optics

Beam Diagnostics

SPECIFICATIONS





Models	QE25LP-S-MB	QE25LP-H-MB	QE25SP-S-MT	QE25SP-H-MT
Max Measurable Energy (with Attenuator)	23 J	23 J	10 J	10 J
Max Repetition Frequency	300 Hz	300 Hz	6000 Hz	6000 Hz

MEASUREMENT CAPABILITY	S-MB		H-MB		S-MT		H-MT	
Spectral Range	0.19 – 20 μm		0.19 – 20 μm		0.19 – 20 μm		0.19 – 20 μm	
Maximum Measurable Energy	Alone	Attenuator	Alone	Attenuator	Alone	Attenuator	Alone	Attenuator
1064 nm, 7 ns, 10 Hz ^a	3.8 J	23 J	3.8 J	23 J	3.0 J	10 J	3.0 J	10 J
266 nm, 7 ns, 10 Hz	3.1 J	4.8 J	3.1 J	4.8 J	0.44 J	1.5 J	0.44 J	1.5 J
Noise Equivalent Energy ^b	4 μJ		4 μJ		2 μJ		2 μJ	
Sensitivity ^{c, d}	10 V/J		10 V/J		20 V/J		20 V/J	
Max Repetition Frequency	300 Hz		300 Hz		6000 Hz		6000 Hz	
Maximum Pulse Width (typical)	400 μs *		400 μs *		10 μs		10 μs	
Rise Time (typical 0-100%)	550 μs		550 μs		20 μs		20 μs	
Calibration Uncertainty ^e	± 3 %		± 3 %		± 3 %		± 3 %	
Repeatability	<0.5 %		<0.5 %		<0.5 %		<0.5 %	

DAMAGE THRESHOLDS

	S-MB		H-MB		S-MT		H-MT	
Maximum Average Power All Wavelengths	Alone	Attenuator	Alone	Attenuator	Alone	Attenuator	Alone	Attenuator
	5 W	15 W	10 W	30 W	5 W	15 W	10 W	30 W
Maximum Energy Density	Alone	Attenuator	Alone	Attenuator	Alone	Attenuator	Alone	Attenuator
1064 nm, 7 ns, single shot	0.6 J/cm ²	16 J/cm ²	0.6 J/cm ²	16 J/cm ²	0.50 J/cm ²	2 J/cm ²	0.50 J/cm ²	2 J/cm ²
1064 nm, 7 ns, 10 Hz	0.6 J/cm ²	8 J/cm ²	0.6 J/cm ²	8 J/cm ²	0.50 J/cm ²	2 J/cm ²	0.50 J/cm ²	2 J/cm ²
532 nm, 7 ns, 10 Hz	0.6 J/cm ²	6 J/cm ²	0.6 J/cm ²	6 J/cm ²	0.07 J/cm ²	0.35 J/cm ²	0.07 J/cm ²	0.35 J/cm ²
266 nm, 7 ns, 10 Hz	0.5 J/cm ²	1 J/cm ²	0.5 J/cm ²	1 J/cm ²	0.07 J/cm ²	0.30 J/cm ²	0.07 J/cm ²	0.30 J/cm ²

PHYSICAL CHARACTERISTICS

Effective Aperture (with Attenuator)	25 X 25 mm (22 X 22 mm)			
Absorber				
	Multi-Band	Multi-Band	Metallic	Metallic
Dimensions	50H x 50W x 14D mm	50H x 50W x 52.5D mm	50H x 50W x 14D mm	350H x 50W x 52.5D mm
Weight	120 g	187 g	120 g	187 g

ORDERING INFORMATION

Full Product Name	QE25LP-S-MB	QE25LP-H-MB	QE25SP-S-MT	QE25SP-H-MT
Product Number (including stand)	200312	200313	200310	200311

*Also available on special order: The Extra Long Pulse Series QE25-ELP-MB for pulse widths up to 4 msec, custom-tuned for rep. rate, sensitivity, and pulse width.

a. Increasing pulse width increases the maximum measurable energy.

b. Nominal value, actual value depends on electrical noise in the measurement system.

c. Load: 1 M Ω and \leq 130 pF.

d. Maximum output voltage = sensitivity x maximum energy.

e. Excludes non-linearities.

Specifications are subject to change without notice