

XLE4



4 mm Ø, 150 nJ - 4 mJ, eXtreme Low Energy



Key Features

- 1 **Low Energy Pyroelectric**
Low energy readings, without the need for a photodetector
- 2 **High Sensitivity**
1100 V/J with a noise level of 150 nJ
- 3 **Compact Design**
Only 36 mm in diameter
- 4 **Metallic Absorber**
High Repetition Rate (2000 Hz)
- 5 **Noise Reduction Stand**
Delrin post to reduce noise from exterior vibrations
- 6 **Smart Interface**
Containing all the calibration data



XLE4



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SOLO 2	20
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Accessories

» **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.



SPECIFICATIONS

Models	XLE4
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Max Measurable Energy	4 mJ
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Max Repetition Frequency	2000 Hz
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MEASUREMENT CAPABILITY	XLE4
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Spectral Range	0.35 – 2.5 μm
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Maximum Measurable Energy 1064 nm, 7 ns, 10 Hz ^a	4 mJ
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Noise Equivalent Energy ^b	150 nJ
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Sensitivity ^{c, d}	1100 V/J
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Max Repetition Frequency	2000 Hz
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Maximum Pulse Width (typical)	5 μs
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Rise Time (typical 0-100%)	10 μs
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Calibration Uncertainty ^e	$\pm 4\%$
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Repeatability	$< 0.5\%$
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DAMAGE THRESHOLDS	
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Maximum Average Power	0.4 W
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Maximum Energy Density 1064 nm, 7 ns, 10 Hz	90 mJ/cm ²
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PHYSICAL CHARACTERISTICS	
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Effective Aperture	4 mm \emptyset
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Absorber	
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Metallic

Dimensions	36 mm \emptyset x 26.5D mm
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Weight	130 g
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ORDERING INFORMATION	
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Full Product Name	XLE4
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Product Number (Including stand)	201057
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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 ≤ 130 pF.

d. Maximum output voltage = sensitivity x maximum energy.

e. Not including linearity with power.

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