

XLE4

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



KEY FEATURES

- 1 Low Energy Pyroelectric**
Low energy readings, without the need for a photo detector
- 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)

AVAILABLE MODELS



XLE4
(4 mm-Metallic)

ACCESSORIES



Stand with Delrin Post



DB-15 to BNC Adaptor



Pelican Carrying Case

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XLE4

SPECIFICATIONS



*Also traceable to NRC-CNRC

MODEL	XLE4
MAX MEASURABLE ENERGY	4 mJ
MAX REPETITION FREQUENCY	2000 Hz
APERTURE	4 mm Ø

MEASUREMENT CAPABILITY	
Spectral Range	0.35 – 2.5 µm
Maximum Measurable Energy	4 mJ
1064 nm, 7 ns, 10 Hz ^a	
Noise Equivalent Energy ^b	150 nJ
Sensitivity ^{c,d}	1100 V/J
Max Repetition Frequency	2000 Hz
Maximum Pulse Width (typical)	5 µs
Rise Time (typical 0-100 %)	10 µs
Calibration Uncertainty ^e	±4 %
Repeatability	<0.5 %
DAMAGE THRESHOLDS	
Maximum Average Power	0.4 W
Maximum Energy Density	90 mJ/cm ²
1064 nm, 7 ns, 10 Hz	
PHYSICAL CHARACTERISTICS	
Effective Aperture	4 mm Ø
Absorber	Metallic
Dimensions	36Ø x 26.5D mm
Weight	130 g
ORDERING INFORMATION	
Full Product Name	XLE4
Product Number (Including stand)	201057

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 MΩ and ≤ 30 pF.

d. Maximum output voltage = sensitivity x maximum energy.

e. At 1064 nm. ±9 % at other wavelengths. Not including linearity with power.

Specifications are subject to change without notice