

XLPI2-3S-VP-D0

Thermopile detector for laser power measurement up to 3 W.



KEY FEATURES

LOW POWER THERMOPILE

Noise level of a photo detector with the large bandwidth and high power capacity of a thermal device

MINIMAL THERMAL DRIFT

Only 6 $\mu\text{W}/^\circ\text{C}$ (with the IR filter)

HIGH SENSITIVITY

200 mV/W (without the IR filter)

SPECIAL MODEL FOR ULTRASHORT PULSES

VP (volume absorber) version is perfect for low power lasers with ultrashort pulses (ps and fs)

IR FILTER (XLPI2 MODEL)

Removes unwanted IR interference

ISOLATION TUBE

Eliminates power fluctuations created by air turbulence

COMPATIBLE STAND

[STAND-S-233](#)

SPECIFICATIONS

MEASUREMENT CAPABILITIES

Maximum average power (continuous)	3 W
Maximum average power (1 minute)	3 W
Noise equivalent power ¹	0.5 μW
Spectral range ²	0.25 - 20 μm
Typical rise time ³	3 sec
Typical power sensitivity ⁴	220 mV/W
Power calibration uncertainty ⁵	$\pm 2.5\%$
Repeatability	$\pm 0.5\%$
Thermal drift ⁶	12 $\mu\text{W}/^\circ\text{C}$

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

2. For the calibrated spectral range, see the user manual.

3. With anticipation.

4. Into 100 k Ω load. Maximum output voltage = sensitivity x maximum power.

5. Including linearity with power.

6. With MAESTRO.

DAMAGE THRESHOLDS

Maximum average power density ¹	30 W/cm ²
Maximum energy density ²	4 J/cm ²

1. At 1064 nm, 1 W CW.

2. At 1064 nm, 7 ns, 10 Hz.

PHYSICAL CHARACTERISTICS

Aperture diameter	12 mm
Absorber	VP
Dimensions	73H x 73W x 20D mm (72D mm with tube)
Weight	0.32 kg

ORDERING INFORMATION

XLPI2-3S-VP-D0

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INTERESTED IN THIS PRODUCT?

GET A QUOTE

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