

UP12E-10S-H5-D0

Thermal detector for laser power measurement up to 10 W.



PRODUCT FAMILY KEY FEATURES

MODULAR CONCEPT

Increase the power capability of your detector: 3 different cooling modules

HIGH PERFORMANCE

- Fast rise time (0.3 sec)
- High damage threshold (36 kW/cm²)

COMPACT DESIGN

Only 14 mm thick (10S model)

ENERGY MODE

Measure single shot energy up to $5\,\mathrm{J}$

SMART INTERFACE

Containing all the calibration data

COMPATIBLE STAND

STAND-S-233

SPECIFICATIONS

MEASUREMENT CAPABILITIES	
Maximum average power (continuous)	10 W
Maximum average power (1 minute)	20 W
Noise equivalent power ¹	1 mW
Spectral range ²	0.193 - 20 μm
Typical rise time ³	0.3 s
Power calibration uncertainty ⁴	±2.5 %
Repeatability	±0.5 %
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. Including linearity with power.

MEASUREMENT CAPABILITIES (E	ENERGY MODE)
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Maximum measurable energy ¹	5 J
Noise equivalent energy ²	0.02 J
Minimum repetition period	1.5 s
Maximum pulse width	50 ms
Energy calibration uncertainty ³	±5 %

- 1. For 360 µs pulses. Higher pulse energy possible for long pulses (ms), less for short pulses (ns).
- 2. Nominal value, actual value depends on electrical noise in the measurement system.
- 3. When single-shot energy calibration is purchased

DAMAGE THRESHOLDS

Maximum average power density ¹	36 kW/cm²
Maximum energy density ²	1 J/cm ²

- 1. At 1064 nm, 10 W CW. May vary with wavelength and average power.
- 2. At 1064 nm, 7 ns, 10 Hz. May vary with wavelength and pulse width.

PHYSICAL CHARACTERISTICS

Cooling Convection

Aperture diameter	12 mm
Absorber	H5
Dimensions	38H x 38W x 14D mm
Weight	0.13 kg
ORDERING INFORMATION	
UP12E-10S-H5-D0	200383
UP12E-10S-H5-INT-D0	202613
UP12E-10S-H5-IDR-D0	203321

Specifications are subject to change without notice. Refer to the user manual for complete specifications.

INTERESTED IN THIS PRODUCT?



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