

UP16K-30H-OED-D0

Thermal detector for laser power measurement up to 30 W.



KEY FEATURES

MODULAR CONCEPT

Increase the power capability of your detector: 4 different cooling modules

HIGH PEAK POWER DIFFUSING ABSORBER

Perfect for pulsed beams with high energy density

COMPACT DESIGN

59.3 mm thick

HIGH AVERAGE POWER

Measure up to 30 W of continuous power

SMART INTERFACE

Containing all the calibration data

COMPATIBLE STAND

STAND-S-233

SPECIFICATIONS

MEASUREMENT CAPABILITIES	
Maximum average power (continuous)	30 W
Maximum average power (1 minute)	35 W
Noise equivalent power ¹	4 mW
Spectral range ²	0.266 - 2.5 µm
Typical rise time ³	2.5 sec
Typical power sensitivity ⁴	0.11 mV/W
Power calibration uncertainty ⁵	±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. Into 100 k Ω load. Maximum output voltage = sensitivity x maximum power.
- 5. Including linearity with power.

MEASUREMENT CAPABILITIES (ENERGY MODE)

MEASOREMENT CAPABILITIES (ENERGY MODE)	
Maximum measurable energy ¹	500 J
Noise equivalent energy ²	0.06 J
Minimum repetition period	4 s
Maximum pulse width	61 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	100 kW/cm²
Maximum energy density ²	8 J/cm²

- 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	
Aperture diameter	16 mm
Absorber	QED
Dimensions	50H x 50W x 59.2D mm
Weight	0.21 kg
ORDERING INFORMATIONS	
UP16K-30H-QED-D0	203877
UP16K-30H-QED-INT-D0	205193
UP16K-30H-QED-IDR-D0	205200
LIDJ6K-30H-OED-BLU-DO	TBD

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