

UPI9K-30H-VR-D0

Thermal detector for laser power measurement up to 30 W.



KEY FEATURES

MODULAR CONCEPT

Increase the power capability of your detector: 2 different cooling modules

HIGH PEAK POWER VOLUME ABSORBER

Perfect for high density beams

COMPACT DESIGN

Only 21 mm thick (15S model)

ENERGY MODE

Measure single shot energy up to 40 J

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	2 mW
Spectral range ²	0.3 - 2.5 μm
Typical rise time ³	2.5 sec
Typical power sensitivity ⁴	0.34 mV/W
Power calibration uncertainty ⁵	$\pm 2.5\%$
Repeatability	$\pm 0.5\%$

1. Nominal value, actual value depends on electrical noise in the measurement system.
2. This spectral range refers to the calibration traceability.
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)

Typical energy sensitivity	0.1 mV/J
Maximum measurable energy ¹	40 J
Noise equivalent energy ²	0.02 J
Minimum repetition period	4.5 s
Maximum pulse width	90 ms
Energy calibration uncertainty ³	$\pm 5\%$

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	700 W/cm ²
Maximum energy density ²	6 J/cm ²

1. At 1064 nm, 10 W CW.
2. At 1064 nm, 7 ns, 10 Hz.

PHYSICAL CHARACTERISTICS

Aperture diameter	18 mm
Absorber	VR
Dimensions	50H x 50W x 56.3D mm
Weight	0.21 kg

ORDERING INFORMATION

UP19K-30H-VR-D0	201148
UP19K-30H-VR-IDR-D0	203347
UP19K-30H-VR-INT-D0	202641
UP19K-30H-VR-BLU-D0	203646

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