

UP50N-40S-W9-D0

Thermal detector for laser power measurement up to 40 W.



PRODUCT FAMILY KEY FEATURES

MODULAR CONCEPT

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

VERY HIGH DAMAGE THRESHOLD 100 kW/cm² in average power density

VERY LARGE APERTURE 50 mm effective aperture diameter, perfect for the largest beams

HIGHEST ENERGY READINGS IN THE SERIES Measure single shot energy up to 500 J

SMART INTERFACE Containing all the calibration data

COMPATIBLE STAND

STAND-S-443

SPECIFICATIONS

Maximum average power (continuous)	40 W
Maximum average power (1 minute)	80 W
Noise equivalent power ¹	5 mW
Spectral range ²	0.193 - 10 µm
Typical rise time ³	3.5 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 (ENERGY MODE)	
Maximum measurable energy ¹	500 J
Noise equivalent energy ²	0.25 J
Minimum repetition period	11.1 s
Maximum pulse width	467 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/cm ²
Maximum average power density	

PHYSICAL CHARACTERISTICS

Aperture diameter	50 mm
Absorber	W
Dimensions	89H x 89W x 38D mm
Weight	0.62 kg
ORDERING INFORMATION	
UP50N-40S-W9-D0	200893
UP50N-40S-W9-BLU-D0	203676
UP50N-40S-W9-INT-D0	203059
UP50N-40S-W9-IDR-D0	203369

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

INTERESTED IN THIS PRODUCT?



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