



11UP17-H/W

POWER DETECTORS

17 mm Ø, 1 mW - 7 W, Ultra Thin Casing



*Also traceable to NRC-CNRC

Key Features

- **ULTRA THIN CASING**
Only 10.7 mm thick!
- **CHOICE BETWEEN 2 ABSORBERS**
 - H5: 36 kW/cm²
 - W5: Unequalled 100 kW/cm²
- **HIGH POWER TO SIZE RATIO**
6 W continuous reading
- **ENERGY MODE**
Measure single shot energy up to 200 J (with the W5 version)
- **SMART INTERFACE**
Containing all the calibration data

Available Models



11UP17P-6S-H5
(6W-36 kW/cm²)



11UP17P-6S-W5
(6W-100 kW/cm²)

Specifications

	11UP17P-6S-H5	11UP17P-6S-W5		
MAX AVERAGE POWER (CONTINUOUS / 1 MINUTE)	6 W / 7 W	6 W / 7 W		
EFFECTIVE APERTURE	17 mm Ø	17 mm Ø		
COOLING METHOD	Convection	Convection		
MEASUREMENT CAPABILITY				
Spectral Range *	0.19– 20 µm	0.19– 10 µm		
Noise Equivalent Power ^a	1 mW	1 mW		
Rise Time (nominal) ^b	0.8 sec	1.4 sec		
Sensitivity (typ into 100 kΩ load) ^c	0.6 mV/W	0.6 mV/W		
Calibration Uncertainty ^d	±2.5%	±2.5%		
Repeatability	±0.5%	±0.5%		
Energy Mode				
Sensitivity	0.7 mV/J	0.2 mV/J		
Maximum Measurable Energy ^e	15 J	200 J		
Noise Equivalent Energy ^a	0.02 J	0.02 J		
Minimum Repetition Period	4 sec	5 sec		
Maximum Pulse Width	88 ms	133 ms		
Accuracy with energy calibration option	±5%	±5%		
DAMAGE THRESHOLDS				
Maximum Average Power Density ^f	36 kW/cm ²	100 kW/cm ²		
Pulsed Laser Damage Thresholds	Max Energy Density	Peak Power Density	Max Energy Density	Peak Power Density
1064 nm, 360 µs, 5 Hz	5 J/cm ²	14 kW/cm ²	100 J/cm ²	667 kW/cm ²
1064 nm, 7 ns, 10 Hz	1 J/cm ²	143 MW/cm ²	1.1 J/cm ²	157 MW/cm ²
532 nm, 7 ns, 10 Hz	0.6 J/cm ²	86 MW/cm ²	1.1 J/cm ²	157 MW/cm ²
266 nm, 7 ns, 10 Hz	0.3 J/cm ²	43 MW/cm ²	0.7 J/cm ²	27 MW/cm ²
PHYSICAL CHARACTERISTICS				
Effective Aperture	17 mm Ø	17 mm Ø		
Absorber (High Damage Threshold)	H5	W5		
Dimensions	46H x 46W x 10.7D mm	46H x 46W x 10.7D mm		
Weight (head only)	0.1 kg	0.1 kg		

ORDERING INFORMATION

Product Name	11UP17P-6S-H5	11UP17P-6S-W5
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*For the calibrated spectral range, see the user manual.

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

b. With STANDA 11MAESTRO, 11UNO, 11P-LINK, 11TUNER and 11S-LINK monitors.

c. Maximum output voltage = sensitivity x maximum power.

d. Including linearity with power.

e. For 360 µs pulses. Higher pulse energy possible when customized for long pulses (ms), less for short pulses (ns).

f. At 1064 nm, 10 W CW.

Specifications are subject to change without notice