



# UP17-H/W

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



## KEY FEATURES

- 1. ULTRA THIN CASING**  
Only 10.7 mm thick!
- 2. CHOICE BETWEEN 2 ABSORBERS**
  - H5: 36 kW/cm<sup>2</sup>
  - W5: Unequalled 100 kW/cm<sup>2</sup>
- 3. HIGH POWER TO SIZE RATIO**  
6 W continuous reading
- 4. ENERGY MODE**  
Measure single shot energy up to 200 J (with the W5 version)
- 5. SMART INTERFACE**  
Containing all the calibration data
- 6.  integra OPTIONS**
  - Standard: USB Output (-INT)
  - In Option: RS-232 Output (-IDR)

## AVAILABLE MODELS



UP17P-6S-H5  
(6W-36 kW/cm<sup>2</sup>)



UP17P-6S-W5  
(6W-100 kW/cm<sup>2</sup>)

## ACCESSORIES



Stand with Steel Post  
(Model Number: 200160)



Extension Cables  
(4, 15, 20 or 25 m)



Pelican Carrying Case

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## APPLICATION NOTE

MEASURING LASER POWER WITH A THERMOPILE DETECTOR: THE BASICS! [202175](#)

## UP17-H/W



\*Also traceable to NRC-CNRC

## SPECIFICATIONS

	UP17P-6S-H5	UP17P-6S-W5
<b>MAX AVERAGE POWER (CONTINUOUS / 1 MINUTE)</b>	6 W / 7 W	6 W / 7 W
<b>EFFECTIVE APERTURE</b>	17 mm Ø	17 mm Ø
<b>COOLING METHOD</b>	Convection	Convection
<b>MEASUREMENT CAPABILITY</b>		
Spectral Range *	0.19 – 20 µm	0.19 – 10.0 µm
Noise Equivalent Power <sup>a</sup>	1 mW	1 mW
Rise Time (nominal) <sup>b</sup>	0.8 sec	1.4 sec
Sensitivity (typ into 100 kΩ load) <sup>c</sup>	0.6 mV/W	0.6 mV/W
Calibration Uncertainty <sup>d</sup>	±2.5 %	±2.5 %
Repeatability	±0.5 %	±0.5 %
<b>Energy Mode</b>		
Sensitivity	0.7 mV/J	0.2 mV/J
Maximum Measurable Energy <sup>e</sup>	15 J	200 J
Noise Equivalent Energy <sup>a</sup>	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 %
<b>DAMAGE THRESHOLDS</b>		
Maximum Average Power Density <sup>f</sup>	36 kW/cm <sup>2</sup>	100 kW/cm <sup>2</sup>
<b>Maximum Energy Density</b>		
1064 nm, 360 µs, 5 Hz	5 J/cm <sup>2</sup>	100 J/cm <sup>2</sup>
1064 nm, 7 ns, 10 Hz	1 J/cm <sup>2</sup>	1.1 J/cm <sup>2</sup>
532 nm, 7 ns, 10 Hz	0.6 J/cm <sup>2</sup>	1.1 J/cm <sup>2</sup>
266 nm, 7 ns, 10 Hz	0.3 J/cm <sup>2</sup>	0.7 J/cm <sup>2</sup>
<b>PHYSICAL CHARACTERISTICS</b>		
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
<b>ORDERING INFORMATION</b>		
Product Name	UP17P-6S-H5-D0	UP17P-6S-W5-D0
Product Number (without stand)	201033	201021
Add Extension for INTEGRA (USB)	-INT	-INT
Product Number (without stand)	203039	203041
Add Extension for INTEGRA (RS-232)	-IDR	-IDR
Product Number (without stand)	203327	203329

Specifications are subject to change without notice // Compatible stand: P/N 200160

\* For the calibrated spectral range, see the user manual.

- a. Nominal value, actual value depends on electrical noise in the measurement system.  
 b. With anticipation.  
 c. Maximum output voltage = sensitivity x maximum power.  
 d. Including linearity with power.  
 e. For 360 µs pulses. Higher pulse energy possible for long pulses (ms), less for short pulses (ns).  
 f. At 1064 nm, 10 W CW.