

UP17P

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/cm²
 - W5: Unequalled 100 kW/cm²
- 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

AVAILABLE MODELS



UP17P-6S-H5
(6W-36 kW/cm²)



UP17P-6S-W5
(6W-100 kW/cm²)

ACCESSORIES



Stand with Steel Post



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



Pelican Carrying Case

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COMPATIBLE MONITORS	
MAESTRO	18
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UNO	24
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UP17P

SPECIFICATIONS



*Also traceable to NRC-CNRC

MODELS	UP17P-6S-H5	UP17P-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	
	Max Energy Density	Peak Power Density	Max Energy Density	Peak Power Density
Pulsed Laser Damage Thresholds				
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 Diameter	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

Full Product Name	UP17P-6S-H5	UP17P-6S-W5
Product Number (Including stand)	201036	201037

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

b. With Gentec-EO MAESTRO, UNO, P-LINK and S-LINK-2 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