

UP17P-H5 (W5)



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



Key Features

- 1 **Ultra Thin Casing**
Only 10.5 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 (W5)
- 5 **High Quality Stand**
Post threaded on both sides to allow extension
- 6 **Smart Interface**
Containing all the calibration data



UP17P-6S-H5



NEW

See also

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. Detailed dimensions	76
. Spectral absorption	107
. Compatible monitors	
SOLO 2	20
UNO	22
S-LINK-2	24
P-LINK	26

Accessories

» Fiber Optic Adapters (FC, SMA, SC)

Variety of fiber adapter options to give you the most flexibility in using our power detectors with your fiber coupled lasers.



» Extension Cables (4, 15, 20 and 25 m)

For some OEM, manufacturing and laboratory applications.





» Pelican Carrying Case

We offer a robust hard shell polymer carrying case.



UP17P-H5 (W5)

SPECIFICATIONS

Models	UP17P-6S-H5	UP17P-6S-W5
		
Max Average Power (continuous)	6 W	6 W
Max Average Power (1 minute)	7 W	7 W

MEASUREMENT CAPABILITY	H5	W5
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 k Ω 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 \emptyset	17 mm \emptyset
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 SOLO, 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.

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