AVAILABLE WITH integra

See page **36** for details

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/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

6. **integra OPTIONS**
   - Standard: USB Output (-INT)
   - In Option: RS-232 Output (-IDR)

AVAILABLE MODELS

UP17P-6S-H5
(6W-36 kW/cm²)

UP17P-6S-W5
(6W-100 kW/cm²)

ACCESSORIES

Stand with Steel Post
(Model Number: 200160)

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

Pelican Carrying Case

SEE ALSO

HOW IT WORKS **202**
CALIBRATION **6**
TECHNICAL DRAWINGS **98**
ABSORPTION CURVES **102**
COMPATIBLE DISPLAYS & PC INTERFACES
- MAESTRO **18**
- TUNER **22**
- UNO **24**
- S-LINK **26**
- P-LINK **28**
- M-LINK **32**

LIST OF ALL ACCESSORIES **206**

APPLICATION NOTE
MEASURING LASER POWER WITH A THERMOPILE DETECTOR: THE BASICS! 202175

UP17-H/W

CE NIST* Traceable WEEE/RoHS COMPLIANT

*Also traceable to NRC-CNRC

SPECIFICATIONS

	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 – 10.0 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
Maximum Energy Density		
1064 nm, 360 µs, 5 Hz	5 J/cm^2	100 J/cm^2
1064 nm, 7 ns, 10 Hz	1 J/cm^2	1.1 J/cm^2
532 nm, 7 ns, 10 Hz	0.6 J/cm^2	1.1 J/cm^2
266 nm, 7 ns, 10 Hz	0.3 J/cm^2	0.7 J/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	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.

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