

UP19-W


19 mm Ø, 1 mW - 85 W, 100 kW/cm²



KEY FEATURES

- > **MODULAR CONCEPT**
Increase the power capability of your detector:
4 different cooling modules
- > **VERY HIGH DAMAGE THRESHOLD**
100 kW/cm² in average power density
- > **COMPACT DESIGN**
Only 21 mm thick (15S model)
- > **ENERGY MODE**
Measure single shot energy up to 200 J

OUTPUT OPTIONS

- > **SMART DB15 CONNECTOR**
Contains all the calibration data
- > **integra ALL-IN-ONE-METER**
Connects directly to a PC
Two models available:
 - USB output (-INT)
 - RS-232 output (-IDR)
- > **BLU WIRELESS METER** 
Connects via Bluetooth® to a smartphone, tablet or PC

COMPATIBLE DISPLAYS & PC INTERFACES



MIRO ALTITUDE



MAESTRO



TUNER



UNO



U-LINK and P-LINK



S-LINK and M-LINK

ACCESSORIES



Stand with steel post



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







12V power supply



Pelican carrying case



	UP19K-15S-W5-DO	UP19K-30H-W5-DO	UP19K-50L-W5-DO	UP19K-50F-W5-DO
MAX AVERAGE POWER (CONTINUOUS / 1 MINUTE)	15 W / 30 W	30 W / 60 W	50 W / 85 W	50 W / 85 W
EFFECTIVE APERTURE	19 mm \varnothing	19 mm \varnothing	19 mm \varnothing	19 mm \varnothing
COOLING METHOD	Convection	Heatsink	Large heatsink	Fan-cooled
MEASUREMENT CAPABILITY				
Spectral range	0.19 - 10.0 μm	0.19 - 10.0 μm	0.19 - 10.0 μm	0.19 - 10.0 μm
Calibrated spectral range ^a	0.248 - 2.1 μm	0.248 - 2.1 μm	0.248 - 2.1 μm	0.248 - 2.1 μm
Noise equivalent power ^b	1 mW	1 mW	1 mW	1 mW
Rise time (nominal) ^c	1.4 s	1.4 s	1.4 s	1.4 s
Calibration uncertainty ^d	$\pm 2.5\%$	$\pm 2.5\%$	$\pm 2.5\%$	$\pm 2.5\%$
Repeatability	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$
Energy mode				
Maximum measurable energy ^e	200 J	200 J	200 J	200 J
Noise equivalent energy ^b	0.02 J	0.02 J	0.02 J	0.02 J
Minimum repetition period	5 s	5 s	5 s	5 s
Maximum pulse width	133 ms	133 ms	133 ms	133 ms
Accuracy with energy calibration option	$\pm 5\%$	$\pm 5\%$	$\pm 5\%$	$\pm 5\%$
DAMAGE THRESHOLDS				
Maximum average power density ^f	100 kW/cm ²	100 kW/cm ²	100 kW/cm ²	100 kW/cm ²
Maximum energy density				
1064 nm, 150 μs , 10 Hz	100 J/cm ²	100 J/cm ²	100 J/cm ²	100 J/cm ²
1064 nm, 7 ns, 10 Hz	1.1 J/cm ²	1.1 J/cm ²	1.1 J/cm ²	1.1 J/cm ²
532 nm, 7 ns, 10 Hz	1.1 J/cm ²	1.1 J/cm ²	1.1 J/cm ²	1.1 J/cm ²
248 nm, 26 ns, 10 Hz	0.7 J/cm ²	0.7 J/cm ²	0.7 J/cm ²	0.7 J/cm ²
PHYSICAL CHARACTERISTICS				
Effective aperture	19 mm \varnothing	19 mm \varnothing	19 mm \varnothing	19 mm \varnothing
Absorber (high damage threshold)	W5	W5	W5	W5
Dimensions	50H x 50W x 20.6D mm	50H x 50W x 56.3D mm	76.2H x 76.2W x 74.7D mm	50H x 50W x 63D mm
Weight (head only)	0.16 kg	0.21 kg	0.48 kg	0.25 kg
ORDERING INFORMATION				
Available output options	DB15, USB, RS-232 or Bluetooth	DB15, USB, RS-232 or Bluetooth	DB15, USB or RS-232	DB15, USB, RS-232 or Bluetooth
Compatible stand	STAND-S-233	STAND-S-233	STAND-S-233	STAND-S-233
Product page				

a. Calibration at 2.1 to 2.5 μm is available on special request.
 b. Nominal value, actual value depends on electrical noise in the measurement system.
 c. With anticipation.
 d. Including linearity with power.
 e. For 150 μs pulses. Higher pulse energy possible for long pulses (ms), less for short pulses (ns).
 f. At 1064 nm, 10 W CW.