

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

UP19-W

Specifications



*Also traceable to NRC-CNRC



	UP19K-155-WS-DO	UP19K-30H-WS-DO	UP19K-SOL-WS-DO	UP19K-SOF-WS-DO
MAX AVERAGE POWER (CONTINUOUS/1 MINUTE)	15W/30W	30W/60W	S0W/SSW	S0W/SSW
EFFECTIVE APERTURE	19mm0	19mm0	19mm0	19mm0
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 - 21 μm	0.248 - 21 μm	0.248 - 21 μm	0.248 - 21 μm
Noise equivalent power ^b	1mW	1mW	1mW	1mW
Rise time (nominal) ^c	1.4s	1.4s	1.4s	1.4s
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	200J	200J	200J	200J
Noise equivalent energy ^f	0.02J	0.02J	0.02J	0.02J
Minimum repetition period	5s	5s	5s	5s
Maximum pulse width	133ms	133ms	133ms	133ms
Accuracy with energy calibration option	$\pm 9\%$	$\pm 5\%$	$\pm 5\%$	$\pm 5\%$
DAMAGE THRESHOLDS				
Maximum average power density ¹	100kW/cm ²	100kW/cm ²	100kW/cm ²	100kW/cm ²
Maximum energy density				
1064 nm, 150 μs , 10 Hz	100J/cm ¹	100J/cm ¹	100J/cm ¹	100J/cm ¹
1064 nm, 7 ns, 10 Hz	1.1J/cm ¹	1.1J/cm ¹	1.1J/cm ¹	1.1J/cm ¹
532 nm, 7 ns, 10 Hz	1.1J/cm ¹	1.1J/cm ¹	1.1J/cm ¹	1.1J/cm ¹
248 nm, 26 ns, 10 Hz	0.7J/cm ¹	0.7J/cm ¹	0.7J/cm ¹	0.7J/cm ¹
PHYSICAL CHARACTERISTICS				
Effective aperture	19mm0	19mm0	19mm0	19mm0
Absorber (high damage threshold)	ws	ws	ws	ws
Dimensions	50Hx50W x20.6Dmm	50Hx50W x56.3Dmm	76.2H x 76.2W x74.7D mm	50Hx50W x63Dmm
Weight (head only)	0.16kg	0.21 kg	0.48kg	0.25 kg
ORDERING INFORMATION				
Available output options	DB15, USB, RS-232 or Bluetooth	D815, USB, RS-232 or Bluetooth	D815, USB or RS-232	D815, USB, RS-232 or Bluetooth
Compatible stand	STAND-S-233	STAND-S-233	STAND-S-233	STAND-S-233
Product page				

- a. Calibration at 21 to 25 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.

Specifications are subject to change without notice
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