

UP19-H

19 mm Ø, 1 mW - 200 W



KEY FEATURES

- > **MODULAR CONCEPT**
Increase the power capability of your detector: 5 different cooling modules
- > **HIGH PERFORMANCE**
Fast Rise Time (0.6 s)
High damage threshold (45 kW/cm²)
- > **COMPACT DESIGN**
Only 20.6 mm thick (15S model)
- > **ENERGY MODE**
Measure single shot energy up to 25 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)



Isolation tube



Fiber adaptors and connectors
(FC, SC or SMA)



12V power supply



Pelican carrying case

UP19-H

Specifications



*Also traceable to NRC-CNRC



	UP19K-155-HS-DO	UP19K-30H-HS-DO	UP19K-SOL-HS-DO	UP19K-110F-H9-DO	UP19K-200W-H9-DO
MAX AVERAGE POWER (CONTINUOUS/1MINUTE)	15W / 30W	30W / 60W	S0W / 90W	110W / 150W	200W ^f / 200W ^g
EFFECTIVE APERTURE	19mm ϕ	19mm ϕ	19mm ϕ	19mm ϕ	19mm ϕ
COOLING METHOD	Convection	Heatsink	Large heatsink	Fan-cooled	Water-cooled

MEASUREMENT CAPABILITY

Spectral range	0.19-20 μ m	0.19-20 μ m	0.19-20 μ m	0.19-20 μ m	0.19-20 μ m
Calibrated spectral range ^a	0.248 - 21 μ m	0.248 - 21 μ m	0.248 - 21 μ m	0.248 - 21 μ m	0.248 - 21 μ m
Noise equivalent power ^c	1mW	1mW	1mW	3mW	3mW
Rise time (nominal) ^d	0.65	0.6s	0.6s	1.5s	15 s
Calibration uncertainty ^e	$\pm$ 2.5%	$\pm$ 2.5%	$\pm$ 2.5%	$\pm$ 2.5%	$\pm$ 2.5%
Repeatability	$\pm$ 0.5%	$\pm$ 0.5%	$\pm$ 0.5%	$\pm$ 0.5%	$\pm$ 0.5%
Energy mode					
Maximum measurable energy ^b	15 J	15 J	15 J	25 J	25 J
Noise equivalent energy ^c	0.02J	0.02J	0.02J	0.06J	0.06J
Minimum repetition period	4 s	4 s	4 s	4 s	4 s
Maximum pulse width	88 ms	88ms	88ms	88ms	88ms
Accuracy with energy calibration option $\pm$ 5%		$\pm$ 5%	$\pm$ 5%	$\pm$ 5%	$\pm$ 5%

DAMAGE THRESHOLDS

Maximum average power density ^f	36kW/cm ²	36kW/cm ²	36kW/cm ²	45 kW/cm ²	45 kW/cm ²
Maximum energy density					
1064 nm, 360 μ s, 5 Hz	5 J/cm ²	5 J/cm ²	5 J/cm ²	5 J/cm ²	5 J/cm ²
1064 nm, 7 ns, 10 Hz	1 J/cm ²	1 J/cm ²	1 J/cm ²	1 J/cm ²	1 J/cm ²
532 nm, 7 ns, 10 Hz	0.6 J/cm ²	0.6 J/cm ²	0.6 J/cm ²	0.6 J/cm ²	0.6 J/cm ²
266 nm, 7 ns, 10 Hz	0.3 J/cm ²	0.3 J/cm ²	0.3 J/cm ²	0.3 J/cm ²	0.3 J/cm ²

PHYSICAL CHARACTERISTICS

Effective aperture	19mm ϕ	19mm ϕ	19mm ϕ	19mm ϕ	19mm ϕ
Absorber (high damage threshold)	HS	HS	HS	H9	H9
Dimensions	50Hx50W x20.6Dmm	50Hx50W x56.3Dmm	76.2H x 76.2W x74.7Dmm	50Hx50W x63Dmm	50Hx50W x33Dmm
Weight (head only)	0.16kg	0.21 kg	0.48 kg	0.25 kg	0.24 kg

ORDERING INFORMATION

Available output options	DBIS, USB, RS-232 or Bluetooth	DBIS, USB, RS-232 or Bluetooth	DBIS, USB or RS-232	DBIS, USB, RS-232 or Bluetooth	DBIS, USB, RS-232 or Bluetooth
Compatible stand	STAND-5-233	STAND-5-233	STAND-5-233	STAND-5-233	STAND-5-233
Product page					

- a. Calibrations at 21 to 25 μ m and 10.6 μ m are 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 360 μ s pulses. Higher pulse energy possible for long pulses (ms), less for short pulses (ns).
f. Minimum cooling flow 0.5 liters/min, water temperature 22 $^{\circ}$ C, 1/8 NPT compression fittings for 1/4 inch semi-rigid tube.
g. Contact Gentec-EO for clean deionized water cooling module option.
h. At 1064nm, 10W CW

Specifications are subject to change without notice
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PRODUCT GUIDE 2022

gentec-EO

POWER DETECTORS

ENERGY DETECTORS

BEAM PROFILING

TEMPERATURE DETECTORS

OPTICAL INTERFACE

CUSTOM / OEM PRODUCTS