

UP25-H


25 mm Ø, 3 mW - 350 W



KEY FEATURES

- > **MODULAR CONCEPT**
Increase the power capability of your detector:
4 different cooling modules
- > **HIGH PERFORMANCE**
Fast rise time (1.3 s)
High damage threshold (45 kW/cm²)
- > **ENERGY MODE**
Measure single shot energy up to 40 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)
- > **OPTION SANS-FIL BLU** 
Se connecte via Bluetooth® à un smartphone, une tablette ou un 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)



Fiber adaptors and connectors
(FC, SC or SMA)



12V power supply



Pelican carrying case

UP25-H

Specifications



*Also traceable to NRC-CNRC



	UP25N-40S-H9-DO	UP25N-100H-H9-DO	UP25N-250F-HI2-DO	UP25M-350W-HI2-DO
MAX AVERAGE POWER (CONTINUOUS/1 MINUTE)	40W /SOW	100W /200W	250W /300W	350W' /350W'
EFFECTIVE APERTURE	25mm ϕ	25mm ϕ	25mm ϕ	25mm ϕ
COOLING METHOD	Convection	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
Calibrated spectral range ^a	0.248 - 21 μ m	0.248 - 21 μ m	0.248 - 21 μ m	0.248 - 21 μ m
Noise equivalent power ^c	3mW	3mW	10mW	10mW
Rise time (nominal) ^d	1.3s	1.3s	1.3s	1.3s
Calibration uncertainty ^e	\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 ^b	40J	40J	40J	40J
Noise equivalent energy ^f	0.2J	0.2J	0.2J	0.2J
Minimum repetition period	4.6s	4.6s	11.5s	11.5s
Maximum pulse width	123ms	123ms	390ms	390ms
Accuracy with energy calibration option	\pm 3%	\pm 3%	\pm 5%	\pm 5%

DAMAGE THRESHOLDS

Maximum average power density				
1064 nm, 10 W, CW	45kW/cm ²	45 kW/cm ²	45 kW/cm ²	45 kW/cm ²
10.6 μ m, 10 W, CW	14kW/cm ²	14kW/cm ²	14kW/cm ²	14kW/cm ²
Maximum energy density				
1064 nm, 360 μ s, 5 Hz	9J/cm ²	9J/cm ²	9J/cm ²	9J/cm ²
1064 nm, 7 ns, 10 Hz	1J/cm ²	1J/cm ²	1J/cm ²	1J/cm ²
532 nm, 7 ns, 10 Hz	0.6J/cm ²	0.6J/cm ²	0.6J/cm ²	0.6J/cm ²
266 nm, 7 ns, 10 Hz	0.3J/cm ²	0.3J/cm ²	0.3 J/cm ²	0.3J/cm ²

PHYSICAL CHARACTERISTICS

Effective aperture	25mm ϕ	25mm ϕ	25mm ϕ	25mm ϕ
Absorber (high damage threshold)	H9	H9	H12	H12
Dimensions	89H x 89W x 320 mm	89H x 89W x 106D mm	89H x 89W x 116D mm	89H x 89W x 40D mm
Weight (head only)	0.68 kg	0.99 kg	1.44 kg	0.87kg

ORDERING INFORMATION

Available output options	D815, USB, RS-232 or Bluetooth	D815, USB, RS-232 or Bluetooth	D815, USB, RS-232 or Bluetooth	D815, USB, RS-232 or Bluetooth
Compatible stand	STAND-S-443	STAND-S-443	STAND-S-443	STAND-S-443
Product page				

- a. Calibrations at 21 to 2.5 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: 5 liters/min, water temperature \geq 22°C, 1/8 NPT compression fittings for 1/4 inch semi-rigid tube. Contact Gentec-EO for clean deionized water cooling module option.