

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)
- **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)



Fiber adaptors and connectors
(FC, SC or SMA)



12V power supply







Pelican carrying case

UP25-H

Specifications

CE NIST*
Traceable
*Also traceable to NRC-CNRC



	UP25N-40S-H9-DO	UP25N-100H-H9-DO	UP25N-250F-H12-DO	UP25M-350W-H12-DO
MAX AVERAGE POWER (CONTINUOUS / 1 MINUTE)	40 W / 80 W	100 W / 200 W	250 W / 300 W	350 W ¹ / 350 W ¹
EFFECTIVE APERTURE	25 mm ϕ	25 mm ϕ	25 mm ϕ	25 mm 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 - 2.1 μ m	0.248 - 2.1 μ m	0.248 - 2.1 μ m	0.248 - 2.1 μ m
Noise equivalent power^b	3 mW	3 mW	10 mW	10 mW
Rise time (nominal)^c	1.3 s	1.3 s	1.3 s	1.3 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	40 J	40 J	40 J	40 J
Noise equivalent energy^b	0.2 J	0.2 J	0.2 J	0.2 J
Minimum repetition period	4.6 s	4.6 s	11.5 s	11.5 s
Maximum pulse width	123 ms	123 ms	390 ms	390 ms
Accuracy with energy calibration option	\pm 5%	\pm 5%	\pm 5%	\pm 5%
DAMAGE THRESHOLDS				
Maximum average power density				
1064 nm, 10 W, CW	45 kW/cm ²	45 kW/cm ²	45 kW/cm ²	45 kW/cm ²
10.6 μm, 10 W, CW	14 kW/cm ²	14 kW/cm ²	14 kW/cm ²	14 kW/cm ²
Maximum energy density				
1064 nm, 360 μs, 5 Hz	9 J/cm ²	9 J/cm ²	9 J/cm ²	9 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
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
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
PHYSICAL CHARACTERISTICS				
Effective aperture	25 mm ϕ	25 mm ϕ	25 mm ϕ	25 mm ϕ
Absorber (high damage threshold)	H9	H9	H12	H12
Dimensions	89H x 89W x 32D mm	89H x 89W x 106D mm	92H x 92W x 117D mm	89H x 89W x 40D mm
Weight (head only)	0.68 kg	0.99 kg	1.44 kg	0.87 kg
ORDERING INFORMATION				
Available output options	DB15, USB, RS-232 or Bluetooth	DB15, USB, RS-232 or Bluetooth	DB15, USB, RS-232 or Bluetooth	DB15, 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 1.5 liters/min, water temperature \leq 22°C, 1/8 NPT compression fittings for 1/4 inch semi-rigid tube. Contact Gentec-EO for clean deionized water cooling module option.

Specifications are subject to change without notice