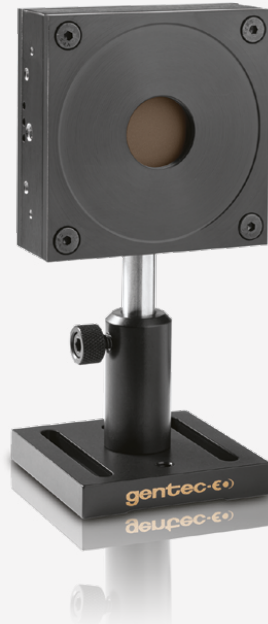


# UP25-H


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/cm<sup>2</sup>)
- **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
<b>MAX AVERAGE POWER (CONTINUOUS / 1 MINUTE)</b>	40 W / 80 W	100 W / 200 W	250 W / 300 W	350 W / 350 W <sup>f</sup>
<b>EFFECTIVE APERTURE</b>	25 mm $\phi$	25 mm $\phi$	25 mm $\phi$	25 mm $\phi$
<b>COOLING METHOD</b>	Convection	Heatsink	Fan-cooled	Water-cooled
<b>MEASUREMENT CAPABILITY</b>				
<b>Spectral range</b>	0.19 - 20 $\mu$ m	0.19 - 20 $\mu$ m	0.19 - 20 $\mu$ m	0.19 - 20 $\mu$ m
<b>Calibrated spectral range<sup>a</sup></b>	0.248 - 2.1 $\mu$ m	0.248 - 2.1 $\mu$ m	0.248 - 2.1 $\mu$ m	0.248 - 2.1 $\mu$ m
<b>Noise equivalent power<sup>b</sup></b>	3 mW	3 mW	10 mW	10 mW
<b>Rise time (nominal)<sup>c</sup></b>	1.3 s	1.3 s	1.3 s	1.3 s
<b>Calibration uncertainty<sup>d</sup></b>	$\pm$ 2.5%	$\pm$ 2.5%	$\pm$ 2.5%	$\pm$ 2.5%
<b>Repeatability</b>	$\pm$ 0.5%	$\pm$ 0.5%	$\pm$ 0.5%	$\pm$ 0.5%
<b>Energy mode</b>				
<b>Maximum measurable energy<sup>e</sup></b>	40 J	40 J	40 J	40 J
<b>Noise equivalent energy<sup>b</sup></b>	0.2 J	0.2 J	0.2 J	0.2 J
<b>Minimum repetition period</b>	4.6 s	4.6 s	11.5 s	11.5 s
<b>Maximum pulse width</b>	123 ms	123 ms	390 ms	390 ms
<b>Accuracy with energy calibration option</b>	$\pm$ 5%	$\pm$ 5%	$\pm$ 5%	$\pm$ 5%
<b>DAMAGE THRESHOLDS</b>				
<b>Maximum average power density</b>				
<b>1064 nm, 10 W, CW</b>	45 kW/cm <sup>2</sup>	45 kW/cm <sup>2</sup>	45 kW/cm <sup>2</sup>	45 kW/cm <sup>2</sup>
<b>10.6 <math>\mu</math>m, 10 W, CW</b>	14 kW/cm <sup>2</sup>	14 kW/cm <sup>2</sup>	14 kW/cm <sup>2</sup>	14 kW/cm <sup>2</sup>
<b>Maximum energy density</b>				
<b>1064 nm, 360 <math>\mu</math>s, 5 Hz</b>	9 J/cm <sup>2</sup>	9 J/cm <sup>2</sup>	9 J/cm <sup>2</sup>	9 J/cm <sup>2</sup>
<b>1064 nm, 7 ns, 10 Hz</b>	1 J/cm <sup>2</sup>	1 J/cm <sup>2</sup>	1 J/cm <sup>2</sup>	1 J/cm <sup>2</sup>
<b>532 nm, 7 ns, 10 Hz</b>	0.6 J/cm <sup>2</sup>	0.6 J/cm <sup>2</sup>	0.6 J/cm <sup>2</sup>	0.6 J/cm <sup>2</sup>
<b>266 nm, 7 ns, 10 Hz</b>	0.3 J/cm <sup>2</sup>	0.3 J/cm <sup>2</sup>	0.3 J/cm <sup>2</sup>	0.3 J/cm <sup>2</sup>
<b>PHYSICAL CHARACTERISTICS</b>				
<b>Effective aperture</b>	25 mm $\phi$	25 mm $\phi$	25 mm $\phi$	25 mm $\phi$
<b>Absorber (high damage threshold)</b>	H9	H9	H12	H12
<b>Dimensions</b>	89H x 89W x 32D mm	89H x 89W x 106D mm	92H x 92W x 117D mm	89H x 89W x 40D mm
<b>Weight (head only)</b>	0.68 kg	0.99 kg	1.44 kg	0.87 kg
<b>ORDERING INFORMATION</b>				
<b>Available output options</b>	DB15, USB, RS-232 or Bluetooth	DB15, USB, RS-232 or Bluetooth	DB15, USB, RS-232 or Bluetooth	DB15, USB, RS-232 or Bluetooth
<b>Compatible stand</b>	STAND-S-443	STAND-S-443	STAND-S-443	STAND-S-443
<b>Product page</b>				

- a. Calibrations at 21 to 2.5  $\mu$ m and 10.6  $\mu$ 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  $\mu$ 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