

UP55-H


55 mm Ø, 5 mW - 500 W



KEY FEATURES

- > **MODULAR CONCEPT**
Increase the power capability of your detector:
4 different cooling modules
- > **HIGH PERFORMANCE**
Fast rise time (2 s)
High damage threshold (45 kW/cm²)
- > **COMPACT DESIGN**
Only 32 mm thick (40S 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)



Fiber adaptors and connectors
(FC, SC or SMA)



3-Port fiber cylinder with
adaptors and plug



12V power supply



Pelican carrying case

UP55-H

Specifications



*Also traceable to NRC-CNRC



	UPSSN-40S-H9-DO	UPSSN-100H-H9-DO	UPSSN-300F-HI2-DO	UP55M-500W-HI2-DO
MAX AVERAGE POWER (CONTINUOUS/1 MINUTE)	40W /SOW	100W /200W	300W /300W	SCOW' /SCOW'
EFFECTIVE APERTURE	55 mm ϕ	55 mm ϕ	55 mm ϕ	55 mm ϕ
COOLING METHOD	Convection	Heatsink	Fan-cooled	Water-cooled

MEASUREMENT CAPABILITY				
Spectral range	0.19-20 μm	0.19-20 μm	0.19-20 μm	0.19-20 μm
Calibrated spectral range ^a	0.248 - 21 μm	0.248-2.1 μm	0.248 - 21 μm	0.248 - 21 μm
Noise equivalent power ^b	5mW	5mW	15mW	15mW
Rise time (nominal) ^c	2 s	2 s	25	2 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	200J	200J	200J	200J
Noise equivalent energy ^b	0.25J	0.25J	0.25J	0.25J
Minimum repetition period	111 s	111 s	12s	12s
Maximum pulse width	433ms	433ms	430ms	430ms
Accuracy with energy calibration option	$\pm 5\%$	$\pm 5\%$	$\pm 5\%$	$\pm 5\%$

DAMAGE THRESHOLDS				
Maximum average power density				
1064 nm, 10 W, CW	45kW/cm ²	45kW/cm ²	45kW/cm ²	45kW/cm ²
10.6 μm , 10 W, CW	14kW/cm ²	14kW/cm ²	14kW/cm ²	14kW/cm ²
Maximum energy density				
1064 nm, 360 μs , 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	0.3J/cm ²	0.3J/cm ²

PHYSICAL CHARACTERISTICS				
Effective aperture	55 mm ϕ	55 mm ϕ	55 mm ϕ	55 mm ϕ
Absorber (high damage threshold)	H9	H9	HI2	HI2
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)	0.62 kg	0.93 kg	141 kg	0.81 kg

ORDERING INFORMATION				
Available output options	DBIS, USB, RS-232 or Bluetooth	DB15, USB, RS-232 or Bluetooth	DB15, USB, RS-232 or Bluetooth	DBIS, USB, RS-232 or Bluetooth
Compatible stand	STAND-5-443	STAND-5-443	STAND-5-443	STAND-5-443
Product page				

- a. Calibrations at 21 to 2.5 μm and 10.6 μm 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 μs pulses. Higher pulse energy possible for long pulses (ms). less for short pulses (ns).
- f. Minimum cooling flow: 1.5 liters/min, water temperatures ZZ'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
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