





OUTPUT OPTIONS

- > integra ALL-IN-ONE-METER Connects directly to a PC Two models available:
 - USB output (-INT)
 - RS-232 output (-IDR)

COMPATIBLE PC INTERFACES



INTEGRA

KEY FEATURES

> FASTEST RESPONSE

With its silicon sensor, the integrating sphere is as fast as a photodiode.

> WIDE POWER RANGE

Very low noise level = wide power range with just one device

> HIGH AVERAGE POWER

Measure up to 1000 W of continuous power.

> RESISTANT COATING

Our proprietary coating is designed to be strong. Its damage thresholds are orders of magnitude higher than any other "white" coatings on the market.

> PRECISE CALIBRATION

The IS detectors have a NIST-traceable calibration for the entire calibrated spectral range.

ACCESSORIES



Stand with delrin post



Fiber adaptors & connectors (for IS12L only)



Pelican carrying cas

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	E P	202
	IS12L-9S-RSI-INT-DO	IS50A-1KW-RSI-INT-D0
MAXIMUM AVERAGE POWER	9 W	1000 W
EFFECTIVE APERTURE	12 mm Ø	50 mm Ø
COOLING METHOD	Convection	Water
MEASUREMENT CAPABILITY		
Spectral range	340 - 1100 nm	340 - 1100 nm
Calibrated spectral range	400 - 1070 nm	400 - 1070 nm
Maximum average power	9 W	1000 W
Noise equivalent power ^a	1 μW at 1070 nm	10 μW at 1070 nm
Maximum divergence	10° (half-angle)	10° (half-angle)
Maximum incidence angle	±10°	\pm 25° for beam diameter < Ø 12mm \pm 5° for beam diameter > Ø 12mm
Typical rise time	< 0.2 s	< 0.2 s
Sampling rate	15 Hz	15 Hz
Calibration uncertainty	± 5.0% (400 - 499 nm) ± 3.5% (500 - 1069 nm) ± 2.5% (1070 nm)	± 5.0% (400 - 499 nm) ± 3.5% (500 - 1069 nm) ± 2.5% (1070 nm)
Back reflections b	6%	12%
Linearity with power	± 1%	± 1%
DAMAGE THRESHOLDS		
Maximum average power density ^c	2 kW/cm²	5 kW/cm ²
Maximum energy density ^d	400 mJ/cm ²	400 mJ/cm ²
PHYSICAL CHARACTERISTICS		
Effective aperture	12 mm Ø	50 mm Ø
Mounting thread	SM1	SM2
Sphere inner diameter	50 mm Ø	100 mm Ø
Sensor	Silicon	Silicon
Dimensions	66H x 78W x 66D mm	127H x 140W x 115D mm
Weight	0.75 kg	4 kg
ORDERING INFORMATION		
Available output options	USB or RS-232	USB or RS-232
Compatible stand	STAND-S-443	STAND-S-443-C
Product page		

- a. Nominal value. Actual value depends on environmental electromagnetic interference and wavelength. With anticipation.
 b. The backscattered power (also known as back reflections) is concentrated in a cone with an apex located at the back of the sphere. For IS12, the cone has a 7.5-degree half-angle.
 For IS50, the cone has a 15-degree half-angle.
 C. At 1064 1070 nm, CW.
 d. At 1064 1070 nm, CY.

Specifications are subject to change without notice

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