

IS12L-9S-RSI

Integrating sphere detector for laser power measurement up to 9 W.



KEY FEATURES

AVAILABLE SOON

[Receive an alert when it becomes available](#)

FASTEST RESPONSE

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

HIGH AVERAGE POWER

Measure up to 9 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 IS12L detectors have a NIST-traceable calibration for their entire spectral range. Temperature compensation completes the calibration to give you the most accurate and stable measurements.

CHOICE OF OUTPUT

The IS12L detectors are available with two output options:

- INTEGRA with USB output (-INT)
- INTEGRA with RS-232 output (-IDR)

COMPATIBLE STAND

[STAND-D-233](#)

SPECIFICATIONS

MEASUREMENT CAPABILITIES

Maximum average power (continuous) ¹	9 W
Noise equivalent power ²	1 μW
Spectral range	400 - 1065 nm
Typical rise time	0.2 sec
Power calibration uncertainty	±5.0 % (400 - 499 nm) ±3.5 % (500 - 1063 nm) ±2.5 % (1064 nm)
Linearity with power	±1 %
Sphere inner diameter	50 mm Ø
Maximum incidence angle	± 10°
Maximum divergence	10° (half-angle)

1. At 1064 nm. See curves for maximum power at other wavelengths.

2. At 1064 nm. Nominal value. Actual value depends on environmental electromagnetic interference and wavelength.

DAMAGE THRESHOLDS

Maximum average power density ¹	2 kW/cm ²
Maximum energy density ²	400 mJ/cm ²

1. At 1064 nm, CW.

2. At 1064 nm, 7 ns.

PHYSICAL CHARACTERISTICS

Aperture diameter	12 mm
Absorber	Si
Dimensions	66H x 78W x 66D mm

ORDERING INFORMATION

IS12L-9S-RSi	TBD
IS12L-9S-RSi-IDR-D0	TBD
IS12L-9S-RSi-INT-D0	TBD

INTERESTED IN THIS PRODUCT?

GET A QUOTE

Find your local sales representative at gentec-eo.com/contact-us