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Irradiance Integrating Sphere

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Diameter of Entrance Port (mm):
9.5

General

Model Number:
FOIS-1

Note:
Collects light from emission sources such as LEDs and lasers and is used to measure light fields with a

360° field of view

Title:

Irradiance Integrating Sphere

Physical & Mechanical Properties

Weight (g):

240

Dimensions (mm):

56.8 x 62.4 x 38.1

Diameter (mm):

38.10

Optical Properties

Coating:

Spectralon®

Spectral Range:

250 - 2500 nm

Threading & Mounting

Mounting Threads:

Side Mounts: (1)SMA 905 connector for coupling optical fiber to the spectrometer(1) 8-32 threaded hole for post mounts
Top Cap Mounts: (2) 8-32 (hardware not included)(1) 1/4-20 threaded hole in center (screw/adapter included)

Regulatory Compliance

RoHS 2015:

Compliant

Certificate of Conformance:

View

Reach 250:

Compliant

Product Details

- Measure Total Irradiance or Reflectance with Models Optimized for Emission Sources or Surface Illumination
- Ideal for UV–NIR Applications in Materials Testing, LEDs, Lasers, and More
- White Reflectance Standard Provides Stable, Repeatable Reference Measurements
- Compatible with Ocean Optics Spectrometers and Accessories

Ocean Optics integrating spheres provide flexible, accurate solutions for measuring light output or surface reflectance across a wide spectral range. Whether you need 360° field-of-view irradiance collection, uniform surface illumination for reflectance measurements, or a stable reference for calibration, these integrating spheres ensure consistent, reliable results. The White reflectance standard (**#90-586**) complements the spheres by providing a dependable calibration reference for diffuse reflectance measurements. Ocean Optics Integrating Spheres are well-suited for UV-NIR applications, including material testing, LED analysis, and laser measurements.

Selection Guide:

FOIS-1 (#90-588): Best for **irradiance measurements** and light emission sources; features a 360° field of view for collecting light from LEDs, lasers, and other broad light fields.

ISP-REF (#90-587): Best for **surface reflectance measurements**; provides even surface illumination and integrates a transfer optic and built-in light source for easy measurement of color or reflectivity on opaque or directional samples.

WS-1 (#90-586): Use alongside your integrating sphere for reliable white reference measurements when calibrating for diffuse reflectance.

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