

Light Measurement Integrating Spheres



Due to their geometric properties, integrating spheres are the solution of choice when characterizing the total output from a light source.

Our Light Measurement Integrating Sphere series include both standard and one-of-a-kind custom solutions, ranging from 25 mm to 2 meters in diameter. Access options include hinged and sliding rail opening.

The products can be coupled with our full range of light measurement instrumentation including spectroradiometers, photometers and radiometers – or coupled with a light source for uniform intensity output.

Gamma Scientific is an ISO17025 accredited calibration facility (NVLAP lab code 200823-0).

Accurate, Flexible Light Measurement Solutions In Sizes and Configurations to Fit Your Needs

Our wide range of integrating spheres and light measurement solutions are complemented by ISO/IEC 17025 accreditation by NVLAP (NVLAP lab code 200823-0), resulting in unmatched performance and custom configuration as required.

Key Features

- Options for Total Luminous Flux Measurements
- Options for Optical Power Measurements
- Couple with our SpectralLED® Light Sources for Highly Uniform Light Output with up to 600mm Port Size
- Light-tight Closure & Internal Baffles
- Lightweight and Rugged Coatings from the UV through the NIR

Applications

- LED and SSL Lighting Test & Characterization
- Lamp Test and Characterization
- Laser Power Measurement
- Fiber-Optic Testing
- Photometric and Radiometric Measurements
- As a Uniform Light Source

Sphere Options

Model	Diameter	Coating	Internal Baffles
GS-IS1	25 mm (1 in)	PTFE or Barium Sulfate	No
GS-IS1.5	38 mm (1.5 in)	PTFE or Barium Sulfate	No
GS-IS4	100 mm (4 in)	PTFE or Barium Sulfate	Yes
GS-IS6	150 mm (6 in)	PTFE or Barium Sulfate	Yes
GS-IS8	200 mm (8 in)	PTFE or Barium Sulfate	Yes
GS-IS12	300 mm (12 in)	Barium Sulfate	Yes
GS-IS12-TLS-H	300 mm (12 in)	Barium Sulfate	Yes
GS-IS20	500 mm (20 in)	Barium Sulfate	Yes
GS-IS40	1 meter (40 in)	Barium Sulfate	Yes
GS-IS60	1.5 meter (60 in)	Barium Sulfate	Yes
GS-IS80	2 meter (80 in)	Barium Sulfate	Yes

Standard Port Locations

2-port	0° and North Pole or 0° and 90°
3-port	0°, 90°, and North Pole
4-port	0°, 90°, 270° and North Pole
5-port	0°, 90°, 180°, 270° and North Pole

Contact us for custom sizes, number of ports, or port locations. Specifications are subject to change without notice.



The interior coating is a critical factor in terms of integrating sphere performance. Gamma Scientific uses Barium Sulfate or PTFE, depending on the application.