



GAMMA SCIENTIFIC *Light Measurement Solutions*



Multi-Purpose Integrating Spheres



GAMMA SCIENTIFIC Light Measurement Solutions

About Gamma Scientific

Since 1961 Gamma Scientific has produced LED, display and light measurement test solutions for production and R&D environments. Gamma Scientific instruments are trusted by leading global organizations that require high-speed, precision measurements and custom configurations for the most challenging environments. Gamma Scientific also operates a NVLAP accredited laboratory that performs LM-79/ LM-80 LED testing and is ISO 17025 compliant. NVLAP Lab Code 200823-0.

To view the complete line of test and measurement solutions from Gamma Scientific, please visit our website at www.gamma-sci.com.

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www.gamma-sci.com

Multi-Purpose Integrating Spheres



With over 40 years of experience in designing integrating spheres, Gamma Scientific has the expertise to build custom integrating spheres and sphere systems to meet your testing requirements.

Multi-Purpose Integrating Spheres from Gamma Scientific have been designed to provide maximum flexibility for a wide range of testing applications. With [multi-purpose integrating spheres](#) we can quickly build a custom sphere to meet your exact test requirements.

Custom Built Integrating Spheres

Get started by choosing your required interior diameter size, reflectance coating material and port configuration. We will then custom build the integrating sphere based on your specific requirements. This ensures that you receive a sphere which is optimized for your exact test and measurement needs.

Complete Light Measurement Systems

Multi-purpose integrating spheres can be coupled with Gamma Scientific spectrometers, light sources and integrating spheres to create custom light measurement systems for nearly any testing need.

Gamma Scientific instrument calibration is performed in our accredited laboratory using NIST-traceable standards by our staff of experienced scientists and engineers.

All Gamma Scientific instruments are distinguished by their value, providing unmatched quality at competitive prices.





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Multi-Purpose Integrating Spheres



Multi-Purpose Integrating Sphere Applications

- LED and SSL (Solid State Lighting) Measurement
- Laser Power Measurement
- Fiber-Optic Testing
- Automotive Lighting
- Standard Lamps and Bulbs
- Architectural Lighting
- Photometric and Radiometric Measurements
- As a Uniform Light Source

Measurement Capabilities

- Total Luminous Flux
- Optical Power Measurements

LED Integrating Spheres

LED [Integrating Spheres](#) from Gamma Scientific range in size from 25mm to 3m and are specially designed to measure total luminous flux for LEDs and lamps. LED spheres can be combined with our line of spectrometers, spectroradiometers, light sources and accessories to construct complete LED measurement systems.

Spectral Sphere Systems

New [Spectral Sphere Systems](#) from Gamma Scientific combine our integrating spheres and RadOMA Spectroradiometers to produce highly repeatable measurements of total luminous flux and total spectral flux. Spectral Sphere Systems are uniquely designed for easy integration with your production lines or as turnkey LED test systems for R&D and QA applications.





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Multi-Purpose Integrating Sphere Selection Chart

Model Number	Diameter (in)	Coating	Entrance/Exit	90°	North Pole	180°
GS-IS-010-MP-3P-B	1	Barium Sulfate	0.25	0.25	0.25	
GS-IS-010-MP-3P-T	1	Teflon(PTFE)	0.25	0.25	0.25	
GS-IS-010-MP-4P-B	1	Barium Sulfate	0.25	0.25	0.25	0.25
GS-IS-010-MP-4P-T	1	Teflon (PTFE)	0.25	0.25	0.25	0.25
GS-IS-020-MP-3P-B	2	Barium Sulfate	1	0.5	0.5	
GS-IS-020-MP-3P-T	2	Teflon(PTFE)	1	0.5	0.5	
GS-IS-020-MP-4P-B	2	Barium Sulfate	1	0.5	0.5	0.5
GS-IS-020-MP-4P-T	2	Teflon(PTFE)	1	0.5	0.5	0.5
GS-IS-040-MP-3P-B	4	Barium Sulfate	1.5	1	1	
GS-IS-040-MP-3P-T	4	Teflon(PTFE)	1.5	1	1	
GS-IS-040-MP-4P-B	4	Barium Sulfate	1.5	1	1	1
GS-IS-040-MP-4P-T	4	Teflon(PTFE)	1.5	1	1	1
GS-IS-060-MP-3P-B	6	Barium Sulfate	2.5	1	1	
GS-IS-060-MP-3P-T	6	Teflon(PTFE)	2.5	1	1	
GS-IS-060-MP-4P-B	6	Barium Sulfate	2.5	1	1	1
GS-IS-060-MP-4P-T	6	Teflon(PTFE)	2.5	1	1	1

*Standard Operating Range for Gamma Scientific Instruments- Temperature: Minimum: 0°C (32°F) - Maximum: 35°C (95°F); Relative Humidity (Non-Condensing): Minimum: 20% - Maximum 70%

**The information contained in this data sheet is based on Gamma Scientific's internal evaluation and is subject to change at any time without notice.

***Revised on April 9, 2015