

MODULAR INTEGRATING SPHERES

This easy-to-configure line is the ultimate choice for adaptability and value



GENERAL PURPOSE SPHERES SHOWN WITH OPTIONAL ACCESSORIES

ADAPTABLE

This line is designed to provide greater configuration flexibility than ever before. Choose your sphere by selecting size, ports, and reflectance material. Then design for your application by picking light sources, assemblies, port reducers, and more. Labsphere's wide range of interchangeable accessories offer you an endless number of application options.

This flexibility allows you to create your own uniform source or light measurement system, or modify an existing system in a matter of minutes. A variety of system calibration options enable systems to be customized for application specific tasks.

FEATURES:

Size

Miniature: 1 - 2 inches
Standard: 3 - 6 inches

Reflectance Material

Spectralon®
Spectrafect® coating
Infragold® coating

Number of Ports

3: two ports on the equator of the sphere at 0° and 90°, one port at the top
4: an additional port located opposite the 0° port

Optional Light Sources

Internal Halogen: 5 - 100 W
External Halogen:
Dichroic: 30 W, 80 W, 120 W
Rhodium: 40 W, 75 W, 100 W

Optional Detector Assemblies

Silicon
Germanium
Indium-Gallium-Arsenide

A variety of accessories

Illuminator or detector assemblies
Port reducers
Port plugs
Filters and more

Multiple Calibration Options

Total Spectral Flux Calibration
Radiance Calibration
Exit Port Uniformity Mapping and more

EASY-TO-USE

Labsphere's Modular Spheres and Accessories offer you a one-stop shop for all of your application needs. The robust sphere design features sturdy port frames, easy access mounting options, and quick-change accessory options so a multitude of requirements can be met. Labsphere's dedicated calibration lab can provide calibration options to ensure your system is customized to meet specific application requirements. As you change components simply click on the system software to recalibrate.

VALUE

Own the craftsmanship of a Labsphere solution while taking advantage of the full life of your sphere. The spheres are offered with Spectrafect®, Spectralon® or Infragold® coating which combines a highly reflective surface with nearly perfect Lambertian reflectance. Both durable and highly stable over time, these coatings ensure optimal integration of light over the lifetime of your sphere.

Simply change accessories to meet different application requirements or to upgrade your existing system. All of Labsphere's products are created in an ISO 9001 registered environment and provide NIST traceable results upon calibration. Once the configuration has been selected, qualified engineers and a support staff are on hand to help you with your application needs.

BEST FOR:

Researching and prototyping
Building your own systems

Integrating Sphere Specifications

Model Number	Part Number	Coating	Port Configuration (in)				
			Interior Diameter(in)	Entrance/exit	90°	North Pole	180°
3P-GPS-030-SF	AS-02253-030	Spectrafect	3	1.00	1.00	1.00	
3P-GPS-040-SF	AS-02254-040	Spectrafect	4	1.50	1.00	1.00	
3P-GPS-060-SF	AS-02256-060	Spectrafect	6	2.50	1.00	1.00	
4P-GPS-030-SF	AS-02263-030	Spectrafect	3	1.00	1.00	1.00	1.00
4P-GPS-040-SF	AS-02264-040	Spectrafect	4	1.50	1.00	1.00	1.00
4P-GPS-060-SF	AS-02266-060	Spectrafect	6	2.50	1.00	1.00	1.00
3P-GPS-010-SL	AS-02281-010	Spectralon	1	0.25	0.25	0.25	
3P-GPS-020-SL	AS-02282-020	Spectralon	2	1.00	0.50	0.50	
3P-GPS-033-SL	AS-02284-033	Spectralon	3.3	1.50	1.00	1.00	
3P-GPS-053-SL	AS-02286-053	Spectralon	5.3	2.50	1.00	1.00	
4P-GPS-010-SL	AS-02291-010	Spectralon	1	0.25	0.25	0.25	0.25
4P-GPS-020-SL	AS-02292-020	Spectralon	2	1.00	0.50	0.50	0.50
4P-GPS-033-SL	AS-02294-033	Spectralon	3.3	1.50	1.00	1.00	1.00
4P-GPS-053-SL	AS-02296-053	Spectralon	5.3	2.50	1.00	1.00	1.00
3P-GPS-010-IG	AS-02301-010	Infragold	1	0.25	0.25	0.25	
3P-GPS-020-IG	AS-02302-020	Infragold	2	1.00	0.50	0.50	
3P-GPS-030-IG	AS-02303-030	Infragold	3	1.00	1.00	1.00	
3P-GPS-040-IG	AS-02304-040	Infragold	4	1.50	1.00	1.00	
3P-GPS-060-IG	AS-02306-060	Infragold	6	2.50	1.00	1.00	
4P-GPS-010-IG	AS-02311-010	Infragold	1	0.25	0.25	0.25	0.25
4P-GPS-020-IG	AS-02312-020	Infragold	2	1.00	0.50	0.50	0.50
4P-GPS-030-IG	AS-02313-030	Infragold	3	1.00	1.00	1.00	1.00
4P-GPS-040-IG	AS-02314-040	Infragold	4	1.50	1.00	1.00	1.00
4P-GPS-060-IG	AS-02316-060	Infragold	6	2.50	1.00	1.00	1.00

Configuration Suggestions:

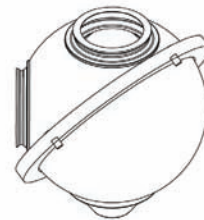
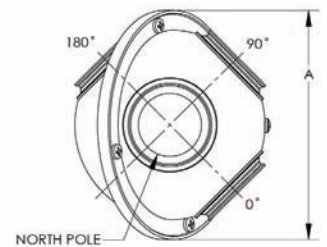
Choose from multiple components to design a system for your specific application requirements

Most applications require one or more of the following optional accessories:

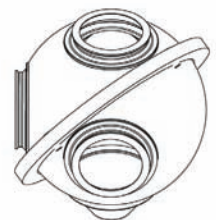
integrating sphere, illuminator, power supply, detector assemblies, radiometer, photometer, port frame reducer, port reducer, port plug, diffuser assemblies, mounting post, post holders, and base assemblies

Other available optional accessories include:

port adaptors, light traps, reflectance and transmittance mounting hardware, filters, standard



3 PORT CONFIGURATION



4 PORT CONFIGURATION