

General Purpose Integrating Spheres and Kits

The ultimate choice for configuration flexibility and value



Flexibility

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.

Easy to use

Labsphere's General Purpose Spheres and Accessories offer a one-stop shop for 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.

Proprietary coatings

The spheres are offered with Spectraflect®, Spectralon® or Infragold® coating which combine a highly reflective surface with nearly perfect Lambertian qualities. Durable and stable over time, these coatings ensure optimal integration of light over the lifetime of your sphere.



Applications

- Researching and prototyping
- Building your own systems

Sizes

- Miniature: 1 2 inches (cube style)
- Standard: 3 6 inches

Reflectance Materials

- Spectralon
- Spectraflect 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

Baffle

• Baffle mounted between the 0° and 90° 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

Available Detector Assemblies

- Silicon
- Germanium
- Indium-Gallium-Arsenide

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...

Most applications require one or more of the following components:

- Integrating sphere
- Illuminator
- Power supply
- Detector assemblies
- Radiometer
- Photometer
- - Light traps

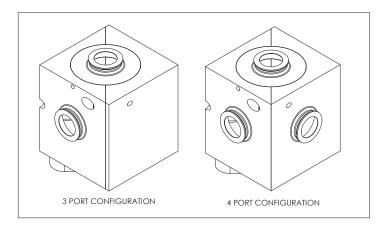
• Diffuser assemblies

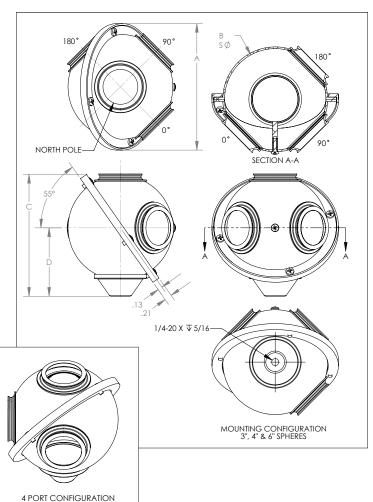
Mounting post

• Base assemblies

Post holders

- Filters • Port frame reducer
- Port reducer, Port adaptors, Port plug







3 PORT CONFIGURATION

Specifications and Ordering Information

Port Configuration (in)

Model Number	Order Number	Coating	Interior Diameter (in)	Entrance/Exit	90°	North Pole	180°
3P-GPS-030-SF 3P-GPS-040-SF 3P-GPS-060-SF	AS-02254-040	Spectraflect Spectraflect Spectraflect	3 4 6	1.00 1.50 2.50	1.00 1.00 1.00	1.00 1.00 1.00	
4P-GPS-030-SF 4P-GPS-040-SF 4P-GPS-060-SF	AS-02264-040	Spectraflect Spectraflect Spectraflect	3 4 6	1.00 1.50 2.50	1.00 1.00 1.00	1.00 1.00 1.00	1.00 1.00 1.00
3P-GPS-010-SL 3P-GPS-020-SL 3P-GPS-033-SL 3P-GPS-053-SL	AS-02282-020 AS-02284-033	Spectralon Spectralon Spectralon	1 2 3.3 5.3	0.25 1.00 1.50 2.50	0.25 0.50 1.00 1.00	0.25 0.50 1.00 1.00	
4P-GPS-010-SL 4P-GPS-020-SL 4P-GPS-033-SL 4P-GPS-053-SL	AS-02292-020 AS-02294-033	Spectralon Spectralon Spectralon	1 2 3.3 5.3	0.25 1.00 1.50 2.50	0.25 0.50 1.00 1.00	0.25 0.50 1.00 1.00	0.25 0.50 1.00 1.00
3P-GPS-010-IG 3P-GPS-020-IG 3P-GPS-030-IG 3P-GPS-040-IG 3P-GPS-060-IG	AS-02302-020 AS-02303-030 AS-02304-040	Infragold Infragold Infragold Infragold	1 2 3 4 6	0.25 1.00 1.00 1.50 2.50	0.25 0.50 1.00 1.00 1.00	0.25 0.50 1.00 1.00	
4P-GPS-010-IG 4P-GPS-020-IG 4P-GPS-030-IG 4P-GPS-040-IG 4P-GPS-060-IG	AS-02312-020 AS-02313-030 AS-02314-040	Infragold Infragold Infragold Infragold	1 2 3 4 6	0.25 1.00 1.00 1.50 2.50	0.25 0.50 1.00 1.00	0.25 0.50 1.00 1.00 1.00	0.25 0.50 1.00 1.00 1.00



General Purpose Sphere Kits

Labsphere General Purpose Starter Kits are conveniently packaged with our most common port accessories, adaptors, and integrating sphere mounting components to help you get started. Check out our webstore to find a large assortment of port accessories, detectors and light sources.



Ordering Information

Marshall Nov. 1	Oud and N	Description
Model Number	Order Number	Description
3P-GPS-030-SF-KIT	AS-02253-031	3P-GPS-030-SF, PP-050-SF, 3 PP-100-SF, PFR-FM/M-100-050-SF,
0D 0D0 0 10 05 1 /T	10.00051.011	post 1/4-20 4 in length, post holder 4 in, base 4 x 4
3P-GPS-040-SF-KIT	AS-02254-041	3P-GPS-040-SF, PP-050-SF, 2 PP-100-SF, PP-150-SF, PFR-FM/M-100-050-SF,
	10.00050.004	PFR-FM/M-150-100-SF, post 1/4-20 4 in length, post holder 4 in, base 4 x 4
3P-GPS-060-SF-KIT	AS-02256-061	3P-GPS-060-SF, PP-050-SF, 2 PP-100-SF, PFR-FM/M-100-050-SF,
4D 0D0 000 0F MT	A.O. 00000 004	post 1/4-20 4 in length, post holder 4 in, base 4 x 4
4P-GPS-030-SF-KIT	AS-02263-031	4P-GPS-030-SF, PP-050-SF, PP-100-SF, post 1/4-20 4 in length, post holder 4 in, base 4 x 4
4P-GPS-040-SF-KIT	AS-02264-041	4P-GPS-040-SF, PP-050-SF, 3 PP-100-SF, PP-150-SF, PFR-FM/M-100-050-SF,
4F-GF3-040-3F-NT	AO-02204-041	PFR-FM/M-150-100-SF, post 1/4-20 4 in length, post holder 4 in, base 4 x 4
4P-GPS-060-SF-KIT	AS-02266-061	4P-GPS-060-SF, PP-050-SF, 3 PP-100-SF, PP-150-SF, post 1/4-20 4 in length,
41	710 02200 001	post holder 4 in, base 6 x 6
3P-GPS-010-SL-KIT	AS-02281-011	3P-GPS-010-SL, 3 PP-025-SL, post 1/4-20 4 in length, post holder 4 in, base 2 x 2
3P-GPS-020-SL-KIT	AS-02282-021	3P-GPS-020-SL, PP-050-SL, 2 PP-100-SL, PFR-FM/M-100-050-SF,
		post 1/4-20 4 in length, post holder 4 in, base 2 x 2
3P-GPS-033-SL-KIT	AS-02284-034	3P-GPS-033-SL, 2 PP-100-SL, PP-150-SL, PFR-FM/M-150-100-SF,
		post 1/4-20 4 in length, post holder 4 in, base 4 x 4
3P-GPS-053-SL-KIT	AS-02286-054	3P-GPS-053-SL, 2 PP-100-SL, PP-250-SL, post 1/4-20 4 in length,
		post holder 4 in, base 6 x 6
4P-GPS-010-SL-KIT	AS-02291-011	4P-GPS-010-SL, 3 PP-025-SL, post 1/4-20 4 in length, post holder 4 in, base 2 x 2
4P-GPS-020-SL-KIT	AS-02292-021	4P-GPS-020-SL, 3 PP-025-SL, post 1/4-20 4 in length, post holder 4 in, base 2 x 2
4P-GPS-033-SL-KIT	AS-02294-034	4P-GPS-033-SL, 2 PP-100-SL, PP-150-SL, PFR-FM/M-150-100-SF,
		post 1/4-20 4-in length, post holder 4 in, base 4 x 4
4P-GPS-053-SL-KIT	AS-02296-054	4P-GPS-053-SL, 2 PP-100-SL, PP-250-SL, post 1/4-20 4 in length,
		post holder 4 in, base 6 x 6
3P-GPS-010-IG-KIT	AS-02301-011	3P-GPS-010-IG, 3 PP-025-IG, post 1/4-20 4 in length, post holder 4 in, base 2 x 2
3P-GPS-020-IG-KIT	AS-02302-021	3P-GPS-020-IG, 2 PP-050-IG, PP-100-IG, post 1/4-20 4 in length,
		post holder 4 in, base 2 x 2
3P-GPS-030-IG-KIT	AS-02303-031	3P-GPS-030-IG, 3 PP-100-IG, post 1/4-20 4 in length,
		post holder 4 in, base 4 x 4
3P-GPS-040-IG-KIT	AS-02304-041	3P-GPS-040-IG, PP-150-IG, 2 PP-100-IG, post 1/4-20 4 in length,
00 000 000 10 147	10.00000.001	post holder 4 in, base 4 x 4
3P-GPS-060-IG-KIT	AS-02306-061	3P-GPS-060-IG, PP-250-IG, 2 PP-100-IG, post 1/4-20 4 in length,
4P-GPS-010-IG-KIT	AS-02311-011	post holder 4 in, base 6 x 6 4P-GPS-010-IG, 4 PP-025-IG, post 1/4-20 4 in length, post holder 4 in, base 2 x 2
4P-GPS-020-IG-KIT	AS-02311-011 AS-02312-021	4P-GPS-010-IG, 4 PP-025-IG, post 1/4-20 4 Interigin, post 1000der 4 In, base 2 x 2 4P-GPS-020-IG, 3 PP-050-IG, PP-100-IG, post 1/4-20 4 in length,
41 950-020-19-N1	AO-UZO 1Z-UZ 1	4P-GPS-020-1G, 3 PP-050-1G, PP-100-1G, post 174-20 4 In length, post holder 4 in, base 2 x 2
4P-GPS-030-IG-KIT	AS-02313-031	4P-GPS-030-IG, 4 PP-100-IG, post 1/4-20 4 in length,
-1 OI O 000-10-111	AU 02010-001	post holder 4 in, base 4 x 4
4P-GPS-040-IG-KIT	AS-02314-041	4P-GPS-040-IG, PP-150-IG, 3 PP-100-IG, post 1/4-20 4 in length,
3. 3 3 10 13 141	, 10 02011 011	post holder 4 in, base 4 x 4
4P-GPS-060-IG-KIT	AS-02316-061	4P-GPS-060-IG, PP-250-IG, 3 PP-100-IG, post 1/4-20 4 in length,
		post holder 4 in, base 6 x 6

