

# General Purpose Integrating Sphere Design Features

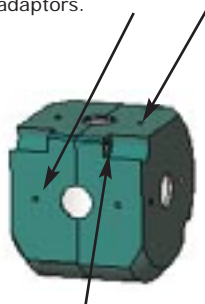
## FEATURES

- choice of interior materials:
  - Optowhite® coating
  - ZenithGold coating
  - Zenith® polymer material
- simple mounting ring allows for easy attachment of sphere accessories
- numerous port configurations available to support many measuring requirements
- several choices for sphere accessories including: detectors, light sources, port plugs, and mounting posts and bases.

### Optowhite and ZenithGold - 1 and 2-inch diameter sphere design

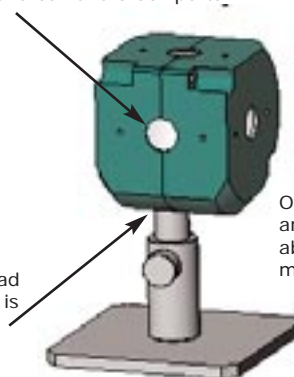
Our 1 and 2 inch integrating spheres are available with a choice of 2 to 4 ports. Port location includes one port at North Pole, others at 90° on the equator. Spheres are made of sturdy aluminum with a choice of ZenithGold or Optowhite interior coating.

A mounting ring accepts a variety of port plugs, port reducers or adaptors.



Hemispheres can easily be disassembled to add or remove optional baffles.

Knife-edge port design  
1 inch spheres have 0.25" ports  
2 inch spheres have 0.50" ports

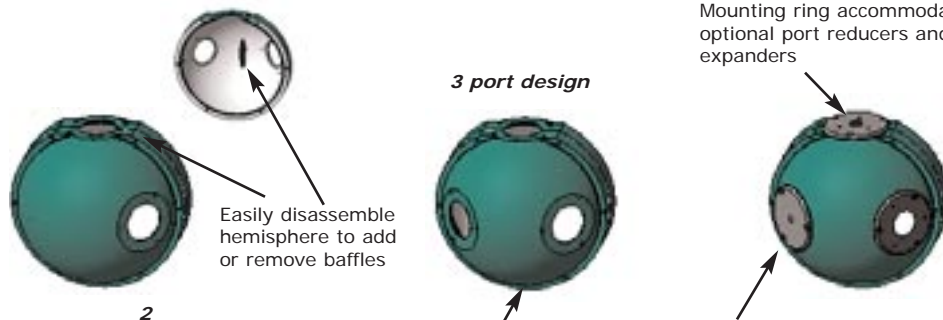


M4 mounting thread for post mounting is located on bottom of sphere.

Optional post, holders and bases are available for flexibility in mounting options.

### Optowhite and ZenithGold - 4, 6 and 8-inch sphere design

Our 4, 6 and 8 inch integrating spheres are available with a choice of 2 to 5 ports, one port is located at the North Pole with others 90° apart on the equator. Custom port locations are available upon request. Each sphere is made of sturdy aluminum with a choice of Optowhite diffuse reflectance coating or ZenithGold coating.



Easily disassemble hemisphere to add or remove baffles

3 port design

Mounting ring accommodates optional port reducers and expanders

M6 mounting thread for post mounting is located on bottom of sphere. Spheres from 10 inches in diameter and larger are mounted on a sturdy H-frame stand.

SMA, ST and FC/PC adaptors available

*Optowhite is our BaSO4 based sphere coating. It is a very versatile sprayable material that produces a highly diffuse and reflective interior sphere coating. This coating is an industry standard for light measurement in the visible and NIR wavelengths.*





# Zenith® General Purpose Integrating Spheres

*Zenith is our high reflectance polymer material that exhibits reflectance values up to 98% over the spectral range from 250nm to 2500nm.*

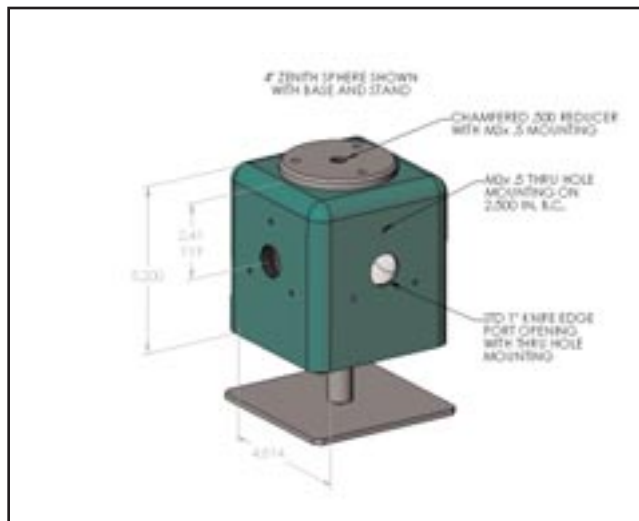
*Zenith spheres provide high reflectance and superior optical stability in environments where a coated sphere may not hold up.*



## Typical Zenith sphere assembly

### Zenith Integrating Sphere design

Integrating spheres made of Zenith Diffuse Reflectance Material provide a rugged, high reflectance solution for many measurement applications. Zenith spheres are available in sizes up to 30 inches in diameter with 3 exit ports. A series of optional sphere accessories including port plugs, port adaptors, detector mounts, and mounting posts and bases are available.



[www.sphereoptics.com](http://www.sphereoptics.com)

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