

Low Cost Integrating Spheres

- **Integrating Spheres** are used to measure light emission intensity for a variety of applications. The units of measure depend on the type of calibration. IRRAD-CAL provides (Irradiance) watt/m² or lumens/m². RAD-CAL provides (Radiant power or flux) in watts or lumens.
- The **IC2** is a 2" cube with internal integrating sphere. It has 5/8" input port and SMA fiber optic output. Another SMA input can be used for reflectance illumination.
- The **IS6** is a 6" integrating sphere with a 2.0" input port, 1 SMA fiber optic output, and internal white coating.
- The **IS12** is a 12" integrating sphere that allows for internal mounting of devices for light measurement such as discrete LEDs, arrays, and bulbs. The sphere opens for simple access to mounting devices. IS12 Sphere includes lamp with data file used to calibrate the system for total flux measurements in watts/nm and lumens/nm.
- The **TP1** simplifies measurements by allowing the IC2 and IS6 spheres to be mounted on a 3 legged tripod. This makes alignment and consistency easy to setup.
- Intensity Calibrations can be performed by StellarNet using NIST traceable lamps or by the customer using the SpectraWiz software application for radiometer calibration.
- Applications include characterization of spectral intensity distribution, color temperature, xy chromaticity, dominant wavelength (and more), for LED, laser, solar, industrial lighting, and any type of light emission.



Fiber Optic Integrating Spheres and Accessories

Item	Description	Price
IC2	Integrating sphere, 5/8" input port	\$495
IS6	Integrating Sphere, 2.0" input port	\$1745
IS12	Integrating Sphere, opens – no port	\$3495
TP1	Tripod mount for IC2 and IS6	\$49

Sphere Specifications	IC2	IS6	IS12
Weight	0.45 pounds (204g)	1.5 pounds	5.0 pounds
Sphere diameter	2 inches	6 inches	12 inches
Field of View	180°	180°	180°