

Integrating Sphere

ATST150

Feature

- Diameter: 90-150mm (optional)
- Coating: 97% Barium sulfate (Teflon 99% optional)
- Port configuration: three ports; 25.4mm sample port at north pole; 38.1mm detector port at 0° on horizontal equator; and a second 25.4mm excitation input port at 90° on the equator (customized hole size)
- Baffle to screen a centre-mounted sample from the detector port
- Base with post mount & height adjustable post holder
- Centre mounted sample holder assembly with two positions which allows for rotating of the sample in and out of excitation beam for base-line referencing
- Interchangeable sample holders(Customize)

Application

- Uniformity of different light source
- Reflectance & Transmittance measurement
- Laser power measurement
- Fluorescence quantum efficiency spectral measurement
- Scientific research experiments and analysis
- Product detection and identification
- Radiation calibration calibration
- Photo-luminescent quantum yield (PLQY)
- Quantum efficiency of phosphorescent materials

Description

The universal integrating sphere ATST150 launched by Optosky is suitable for general-purpose spectral systems, and has high performance-to-price ratio, accurate measurement, compatible with different components to measure laser power, universal light source, spectrum, light transmission, reflectivity, etc.

The universal integrating sphere ATST150 is designed with three port configuration can be customized, and different accessories can be mounted to different applications to meet many demands. It is simple to operate and flexible to use. Customers can customize the size and position of the opening according to specific needs. ATST150 uses high stability, diffuse reflection effect, can test to achieve the best test results.



1. Parameter

Diameter	φ90mm	φ100mm	φ125mm	φ130mm	φ150mm
Spectral Range	200-2500nm	200-2500nm	200-2500nm	200-2500nm	200-2500nm
Coating Material	BaSO4/PTFE	BaSO4/PTFE	BaSO4/PTFE	BaSO4/PTFE	BaSO4/PTFE
Coating Reflectance	97%/99%	97%/99%	97%/99%	97%/99%	95% / 97%
Port Number	3 (Customizable)	3 (Customizable)	3 (Customizable)	3 (Customizable)	3 (Customizable)
Port Position	0°, North pole, 90°	0°, North pole, 90°	0°, North pole, 90°	0°, North pole, 90°	0°, North pole, 90°
Port Dimension	38.1mm(0°) 25.4mm(North pole) 25.4mm(90°)	38.1mm(0°) 25.4mm(North pole) 25.4mm(90°)	38.1mm(0°) 25.4mm(North pole) 25.4mm(90°)	38.1mm(0°) 25.4mm(North pole) 25.4mm(90°)	38.1mm(0°) 25.4mm(North pole) 25.4mm(90°)
Holder	Pedestal	Pedestal	Pedestal	Pedestal	Pedestal

North Pole



2. Product application:

- a. Collimator and cuvette holders measure fluorescence quantum efficiency



- b. Power probes measure the power of the light source



- c. Light transmittance measurement



d. Laser power measurement



e. LED uniform light source

