

## Fluorescent Quantum Efficiency Integrating Sphere

**ATST150-FQE**

### 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  $0^\circ$  on horizontal equator; and a second 25.4mm excitation input port at  $90^\circ$  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

- Fluorescence quantum efficiency spectral measurement

### Description

The fluorescence quantum efficiency integrating sphere has three openings, which are the light entrance, the sample port and the light exit. The light entrance is equipped with a collimating mirror, which collimates the excitation light source to the sample, and the light exit port has a built-in baffle to prevent the incident light from directly exiting. The commonly used sample port is equipped with a sample cuvette holder, which can be used for sample measurement of liquids, powders, etc.



## 1. Parameter

Diameter	φ90mm	φ100mm	φ125mm	φ130mm	φ150mm
Spectral Range	200-2500nm				
Coating Material	BaSO4/PTFE				
Coating Reflectance	97%/99%				
Port Number	3 (Customizable)				
Port Position	0°, North pole, 90°				
Port Dimension	38.1mm(0°)	25.4mm(North pole)	25.4mm(90°)		
Holder	Pedestal				
Material Withstand Temp	Within 100°C (99% PTFE reach 300°C)				
Light entrance and light exit ports	SMA905/FC (Customizable)				

## 2. Accessories installation diagram



### 3. Optional accessories introduction

- ① Sample holder
- ② Quartz Cuvette - Clear Light on All Sides
- ③ 74UV collimator:

Model	74UV collimator
Connection port	SMA905/FC (Customizable)
Wavelength range	200-2500nm
Clear aperture	5mm
Product material	Alumina metal
Lens diameter	5mm
Lens focal length	10mm