



Integrating Sphere for Spectro UVD-3500

IN-3500



Integrating sphere is used to measure the diffuse reflectance of solid sample and powder, as well as measure the transmittance of the glass and membrane. Integrating sphere can analyze the chrominance, color difference, and whiteness.

Optics principle

The light emitted by the sample accesses to the integrating sphere at angle 0° , and the reference accesses to the integrating sphere at angle 8° . Then, we can measure the diffuse reflectance of the sample at 0° and diffuse reflectance and transmittance of the reference at 8° .

Technical Specifications

Wavelength Range:	230nm - 850nm	Rectangle Incident hole:	10mm (wide) 20mm (high)
Spectral Bandwidth:	5nm	Exit hole diameter:	10mm.
Detector:	Photomultiplier	Maximum Dimension of samples:	75mm (width), 80mm (height), 15mm (thickness)
Integrating Sphere Diameter:	58mm.	Total reflection measurements:	Standard conditions: 200mm. (width), 80mm (height), 20mm (thickness)
Integrating Sphere Internal Wall:	Bas04coating	Scattered reflection measurements:	100mm. (width), 80mm (height), 15mm (thickness)
Sample Incident light:	0°		
Reference Incident light	8°		

Optional Accessories

- Diaphragm accessory:** This accessory is for the measurement of small samples. It includes Midst hole, left hole, right hole diaphragm.
- Micro Sample Accessory:** This accessory is for micro sample measurement.

Sphere Parts

- Integrating Sphere
- Fixed Screw
- Photomultiplier
- Sample holder
- Reference holder
- Reflector M1
- Reflector M2
- Reflector M3
- Communication Cable