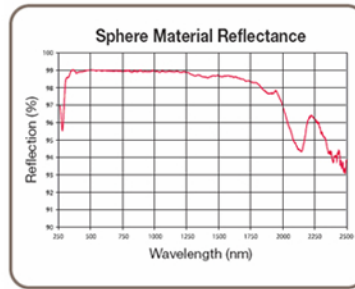


Integrating Spheres

The IS200 Integrating Sphere is a general-purpose sphere for many applications such as laser power, flux, reflectance and radiance measurements. The sphere is manufactured from PTEE-based high-reflective bulk material, making it resistant to heat, humidity and high levels of radiation.



Model	IS200	IS236A	IS210C	IS200-4	IS236A-4
Detector Type	No Detector	Si	InGaAs	No Detector	Si
Detector Wavelength Range	-	350-1100 nm	800-1800 nm	-	350-1100nm
Sphere Wavelength Range	250 - 2500 nm				
Dimensions	61 x 61 x 65 mm (2.4" x 2.4" x 2.56")				
Sphere Diameter	Ø2"				
Port Diameter	Ø0.5"				
Ports	3 at 0°, 90°, and Top			4 at 0°, 90°, 180°, and Top	
Photodiode Port	Ø3 mm for SM05PD				
Reflectance	~99% @ 350 to 1500 nm; >95% @ 250 to 2500 nm				
Thermal Stability	up to 250 °C				
Laser Damage Threshold	7 J/cm ²				
Weight	0.35 kg (0.77 lb)				

Integrating Sphere Detector Assemblies

Model	Detector	Rise/Fall	Active Area (Dimensions)	NEP (W/√Hz)	Dark Current	Spectral Range (nm)
		Time (ns)				
SM05PD1A	FDS100	20 ⁽¹⁾	13 mm ²	1.2 x 10 ⁻¹⁴	20 nA	350-1100
SM05PD1B			(3.6 mm x 3.6 mm)			
SM05PD2A	FDS010	1 ⁽¹⁾	0.8 mm ²	5.0 x 10 ⁻¹⁴	2.5 nA	200-1100
SM05PD2B			(Ø1.0 mm)			
SM05PD4A	FGA10	12 ⁽¹⁾	0.8 mm ² (Ø1.0 mm)	1.0 x 10 ⁻¹⁴	25 nA @ -5 V Bias	800-1800
SM05PD5A	FGA21	66/ 66 ⁽²⁾	3.1 mm ² (Ø2.0 mm)	3.0 x 10 ⁻¹⁴	200 nA (max)	800-1800
SM05PD6A	-	1400 ⁽³⁾	7.1 mm ² (Ø3.0 mm)	1.0 x 10 ⁻¹²	4.0 µA (max)	800-1800
SM05PD7A	FGAP71	1/ 140 ⁽⁴⁾	4.8 mm ² (Ø2.5 mm)	1.0 x 10 ⁻¹⁴	10 nA (max)	150-550