

## IS200 Series Integrating Spheres

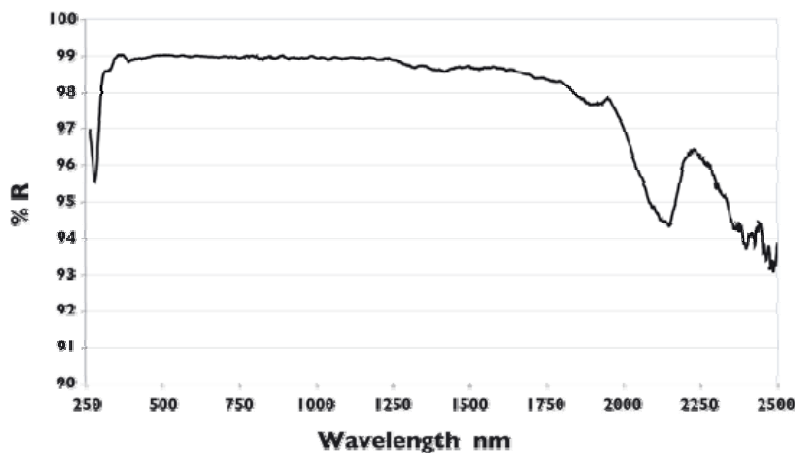
The IS200 Integrating Sphere is a general purpose sphere for many applications like laser power, flux, reflectance and radiance measurements. The sphere is manufactured from PTFE based high reflective bulk material. This makes it resistant to heat, humidity and high levels of radiation. The sphere is compatible to Thorlabs SM05/SM1 and 30mm cage system.

The port for the direct connection of SM05PD photodiodes that are available for a wide wavelength range and both anode and cathode grounded polarities, has been specially arranged in order to prevent direct irradiation of the detector even under large divergent input beams.

### Technical Data:

Dimensions:	61 x 61 x 65 mm (2.4 x 2.4 x 2.56 Inch)
Inner Sphere Diameter:	2 Inch
Ports:	3 Ports with 0.5 Inch diameter @ 0°, 90°, North Pole (IS200-4: 4 Ports with 0.5 Inch diameter @0°, 90°, North Pole, 180°) SM05 threads and 4-40 threads for 30mm cage system
Detector Port:	3mm diameter port with SM05 thread Designed for the access of SM05PD detectors
Wavelength Range:	250 to 2500 nm
Reflectance:	~99% @ 350 to 1500nm; >95% @ 250 to 2500nm
Thermal Stability:	up to 250°C
Max Average Power Density:	2 kW/cm <sup>2</sup>
Max Pulse Energy Density:	7J/cm <sup>2</sup> ,
Weight:	0.5kg (0.77lb)
Post Mount:	M4 and 8-32 Threads at South Pole

### Sphere Reflectance:



### Accessories delivered with the IS200 Series Integrating Spheres:

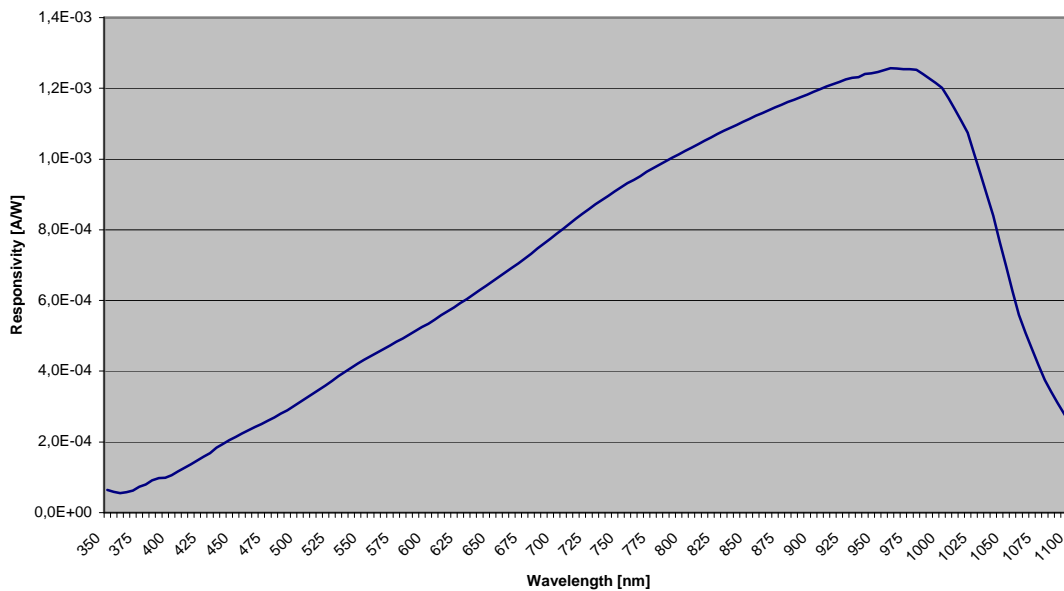
SM05CP2C	3 (IS200-4: 4) SM05 port plugs, coated with 1mm reflectance sphere material
SM05FC	FC/PC Adapter with SM05 mounting thread
SM05SMA	SMA Adapter with SM05 mounting thread
SM05L05	SM05 Lens Tube, half inch length for SM05PD detector mounting

For additional accessories please refer to [www.thorlabs.com](http://www.thorlabs.com)

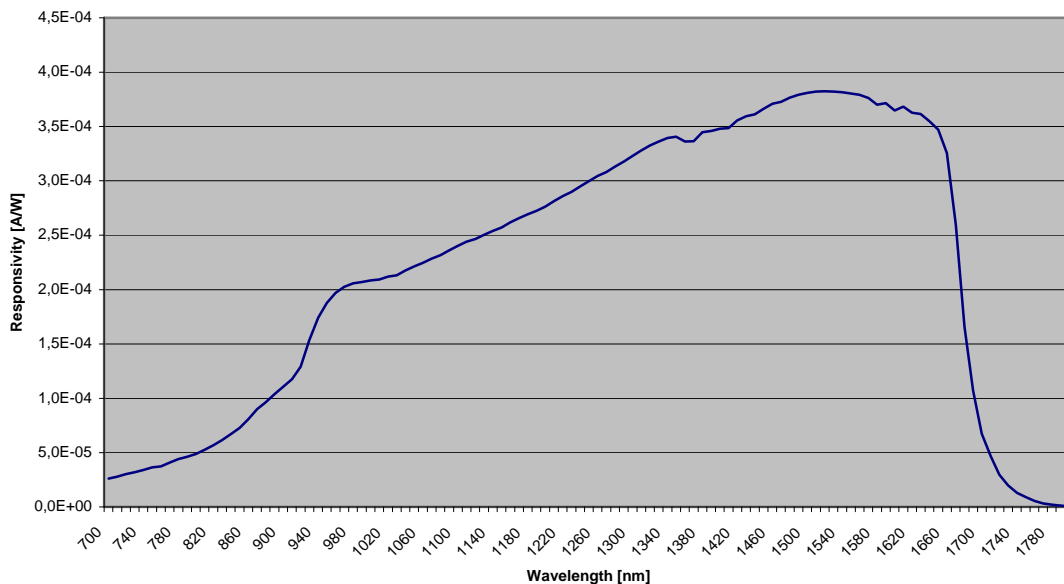
## S200 Sphere Detector Assemblies Performance Data:

Order Number	Detector Type	Wavelength Range
IS236A	Silicon	350 – 1100nm
IS210C	InGaAs	800 – 1700 nm

**IS236 A**



**IS210C**



All responsivity data are typical data and measured with closed ports on 90° and North Pole

## WEEE

As required by the WEEE (Waste Electrical and Electronic Equipment Directive) of the European Community and the corresponding national laws, Thorlabs offers all end users in the EC the possibility to return “end of life” units without incurring disposal charges.

This offer is valid for Thorlabs electrical and electronic equipment

- sold after August 13<sup>th</sup> 2005
- marked correspondingly with the crossed out “wheelie bin” logo (see fig. 1)
- sold to a company or institute within the EC
- currently owned by a company or institute within the EC
- still complete, not disassembled and not contaminated

As the WEEE directive applies to self contained operational electrical and electronic products, this “end of life” take back service does not refer to other Thorlabs products, such as

- pure OEM products, that means assemblies to be built into a unit by the user (e. g. OEM laser driver cards)
- components
- mechanics and optics
- left over parts of units disassembled by the user (PCB's, housings etc.).

If you wish to return a Thorlabs unit for waste recovery, please contact Thorlabs or your nearest dealer for further information.

### Waste treatment on your own responsibility

If you do not return an “end of life” unit to Thorlabs, you must hand it to a company specialized in waste recovery. Do not dispose of the unit in a litter bin or at a public waste disposal site.

### Ecological background

It is well known that WEEE pollutes the environment by releasing toxic products during decomposition. The aim of the European RoHS directive is to reduce the content of toxic substances in electronic products in the future.

The intent of the WEEE directive is to enforce the recycling of WEEE. A controlled recycling of end of live products will thereby avoid negative impacts on the environment.



Crossed out “wheelie bin” symbol