

# » SR-300 Integrating Sphere

## Standard Integrating Sphere

CI Systems offers a cost effective highly uniform integrating sphere for the VIS-SWIR wavelength range.

The system provides uniform radiance for testing of cameras that operate in a wide spectral range. Now offering three standard sizes: 1", 2" and 4" output port diameters.

Using a highly reflective internal coating the system is able to produce uniformity of over 98% at its output port.

A continuous variable output is achieved using an high resolution motorized attenuator. Increased dynamic range can be achieved using optional neutral density filters.

Using a variety of light sources the system can be adapted to provide higher Luminance intensities and a wider dynamic range.



## Low Light Integrating Sphere

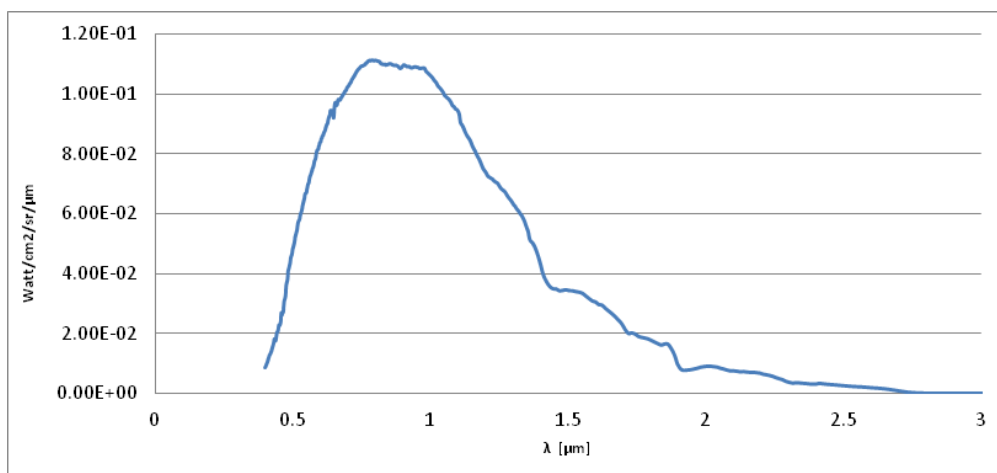
CI Systems offers a cost effective highly uniform low light integrating sphere for the VIS-SWIR wavelength range.

The system provides uniform low light radiance for testing of night vision cameras that requires extremely low radiance.

Now offering two standard sizes: 2" and 4" output port diameters.



## » Integrating Sphere Typical Spectrum



# » SR-300 Integrating Sphere

## » FEATURES

- ▶ Modular design
- ▶ High uniformity
- ▶ VIS to SWIR radiation
- ▶ Wide dynamic range
- ▶ ft-L or W/sr-cm<sup>2</sup> calibration
- ▶ Easy to use user interface

## » SPECIFICATIONS

MODEL	SR300 - 1 Standard	SR300 - 2 Standard	SR300 - 4 Standard	SR300 - L-1 Low Light	SR300 - L-2 Low Light
Diameter of sphere	4" (100mm)	8" (200mm)	12" (300mm)	8" (200mm)	12" (300mm)
Diameter of exit aperture	1" (25.4mm)	2" (50.8mm)	4" (100mm)	2" (50.8mm)	4" (100mm)
Diameter of top sphere	-	-	-	4" (100 mm)	4" (100 mm)
Light source (default)	halogen	halogen	halogen	halogen	halogen
Color temperature (*)	2856±K	2856±K	2856±K	2856±K	2856±K
Standard luminance	1000 ft-L	1000 ft-L	1000 ft-L	1000 ft-L	1000 ft-L
Luminance (minimum)	0.5 ft-L	0.5 ft-L	0.5 ft-L	1*10 <sup>-5</sup> ft-L by default; other optional	1*10 <sup>-5</sup> ft-L by default; other optional
Luminance (maximum)	10,000 ft-L	10,000 ft-L	3000 ft-L	10 ft-L by default; other optional	10 ft-L by default; other optional
Luminance uniformity	> 98%	> 98%	> 98%	> 98%	> 98%
Spectral range	0.44 to 2.2µ	0.44 to 2.2µ	0.44 to 2.2µ	0.44 to 2.2µ	0.44 to 2.2µ
Resolution	motorized control: 0.01ft-L, manual control: 0.05 ft-L	motorized control: 0.01ft-L, manual control: 0.05 ft-L	motorized control: 0.01ft-L, manual control: 0.05 ft-L	15bit	15bit
Input ports	Up to 3	Up to 3	Up to 3	Up to 3	Up to 3
Detector type (default)	Silicon detector	Silicon detector	Silicon detector	Silicon detector	Silicon detector
Controller size & weight	350X233X125mm (5Kg)	350X233X125mm (5Kg)	350X233X125mm (5Kg)	350X233X125mm (5Kg)	350X233X125mm (5Kg)
Sphere weight	2.5Kg	3.5Kg	5.5Kg	5Kg	5Kg
Line voltage	110/220 VAC, 50/60Hz	110/220 VAC, 50/60Hz	110/220 VAC, 50/60Hz	110/220 VAC, 50/60Hz	110/220 VAC, 50/60Hz

## » OPTIONS

- ▶ Manual or Fully automatic motorized illumination control
- ▶ Option for SR-300 standard:  
Increased dynamic range by introduction of ND filters at the sphere output aperture
- ▶ Light source: LEDs
- ▶ InGaAs detector
- ▶ Motorized filter wheel for additional calibrated spectral output- up to 8 filters
- ▶ (\*) Other color temperatures are optional



Motorized filter wheel