

Detector Assemblies

Provide greater configuration flexibility
to fit an array of application needs



Compatible and flexible

Labsphere's detector assemblies are compatible with Labsphere's general purpose integrating spheres to provide greater configuration flexibility. All detectors are contained in a housing that fits on a 0.5 inch diameter integrating sphere port frame or port adaptor. Each detector assembly includes a BNC connector and 10 ft coaxial cable.

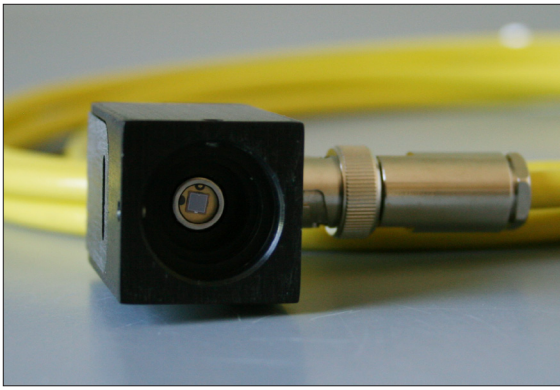
Labsphere offers five different types of non-cooled detector assemblies that are used in a variety of applications.

Value

- Easy to mount on a standard 0.5 inch integrating sphere port frame.
- Wide wavelength range selection based on specific application.
- When connected to a radiometer and with appropriate calibration, can monitor the radiant/luminous flux, irradiance/illuminance or luminance/radiance

Applications

- Measure UV, visible and infrared radiation; reflectance, transmittance and absorption
- Laser power detection
- Radiometry and photometry
- Low-level radiation
- Luminance and radiance monitoring



Silicon Detector Assembly: SDA-050-U-RTA-CX

The silicon detector assembly is a UV-enhanced photovoltaic detector designed to monitor radiation in an integrating sphere. The unfiltered detector assembly has a broad spectral response from 190 to 1100 nm. Low dark current and high sensitivity and reliability enable it to be used in a wide variety of optical measurements.

Photopic Detector Assembly: SDA-050-P-RTA-CX

The photopic detector assembly is filtered to closely match the CIE photopic observer in the visible region (380 - 780 nm). When integrated with Labsphere's spheres and systems it can provide highly accurate photometric measurements due to low dark current, high linearity and high stability.

Germanium Detector Assembly: GDA-050-U-RTA-CX

The germanium detector assembly monitors radiation in an integrating sphere. The high-quality photodiode is designed for the 800 to 1800 nm wavelength range. The detector has high responsivity, good linearity, fast response times, and excellent long-term stability.

Indium Gallium Arsenide Detector Assembly: IDA-050-U-RTA-CX

The InGaAs detector assembly monitors radiation in an integrating sphere, and is spectrally sensitive from 1000 to 1700 nm. Due to state-of-the-art sensitivity and high responsivity, the detectors are ideal for optical power measurement applications.

Extended Range InGaAs Detector Assembly: IDA-EXT-050-RTA-CX

The extended range InGaAs detector assembly is designed for greater flexibility and wider application range. The high-quality photodiode embedded in the detector assembly is designed for the 800 to 2600 nm wavelength range. The detector provides fast rise time, uniformity of response, excellent sensitivity, and long-term reliability for a wide range of applications.