

Digital UV-C Irradiance Sensors

SMARTSens-D, smart sensors calibrated for real-time UV-C dose monitoring



Real-time UV-C dose monitoring

Labsphere's calibrated UV-C sensors enable real-time UV-C dose monitoring for the validation of UV-C surface disinfection. Easily access dosage information on demand using our SMARTSens-D software platform, or integrate the digital sensors as a component in your UVGI system software using the provided firmware. Each sensor delivers unparalleled application flexibility and measurement accuracy with irradiance responsivity calibration options for the following sources; Hg sources for disinfection at 254 nm and LED sources including 265 nm and 275 nm LEDs.

Simplify dose monitoring

SMARTSens-D digital UV-C sensors are available with one to four sensors per controller. Choose the number of sensors that best monitors the UV-C dose in your UVGI system design. Not sure where to place your sensors or how many sensors you need? Labsphere has you covered with our comprehensive radiometric modeling service.

Applications

- Real-time UV-C dose monitoring in medical disinfection enclosures
- Monitor UV-C dose in disinfection chambers and production systems
- Track disinfectant lamp performance in HVAC systems for UVGI coil maintenance

Value

- Real-time dose monitoring for disinfection confidence and exposure safety
- Instantaneous system performance feedback enables immediate troubleshooting and increased performance confidence
- Concurrent dose monitoring allows tracking of area safety levels to optimize efficiencies

Ordering Information

Model Number	Description	Order Number
SSC-1000	Controller (one sensor)	AS-03205-001
SSC-4000	Controller (four sensors)	AS-03205-004
SSD-UVC-2M	UV-C Detector	AS-03205-000

All controllers include SmartSens Control Software and Software Development APIs

Calibrations - Choose a calibration

Calibration	Description	Order Number
UVC-IRR-254HG	Irradiance response for Low Pressure Hg 254 nm. Calibration and programming of response for Low Pressure Hg 254 nm.	AA-01603-300
UVC-IRR-265LED	Irradiance response for 265 nm LED. Calibration and programming of response for 265 nm LED.	AA-01603-301
UVC-IRR-275LED	Irradiance response for 275 nm LED. Calibration and programming of response for 275 nm LED.	AA-01603-302

Typical Performance Specifications

Irradiance Range: \sim 20 μ W/cm² to 20 mW/cm²

Absolute Resolution: 0.305 µW/cm²

Performance: Irradiance Resolution (%) 20 mW/cm² 0.0015%

0.015% 2 mW/cm² 200 µW/cm² 0.15% 20 µW/cm² 1.5%

 10^{4} Signal to Noise Ratio: f2 Spatial Response: <3%

Communication Protocol: USB 2.0 type C

Hardware Sampling Rate: 10 Hz

User Defined Running Average: Up to 25 Readings

Measures Surface Irradiance: Yes Monitor Dose: Ye.

Physical Specifications

Radiometer Dimensions:

41 mm (L) x 41 mm (W) x 24 mm (H) SSC-1000: SSC-4000: 42 mm (L) x 42 mm (W) x 36 mm (H) SSC-UVC-2M Dimensions: 28 mm (L) x 28 mm (W) x 13 mm (H)

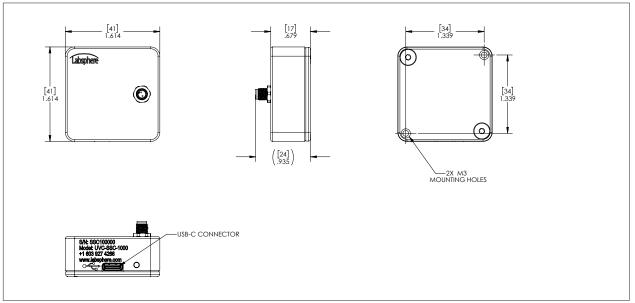
Input Optics Size: 9 mm diameter Input Optics Type: Diffuser Dome

Cable Length: 2 m

Power: USB 2.0 type C, 5V, 100mA

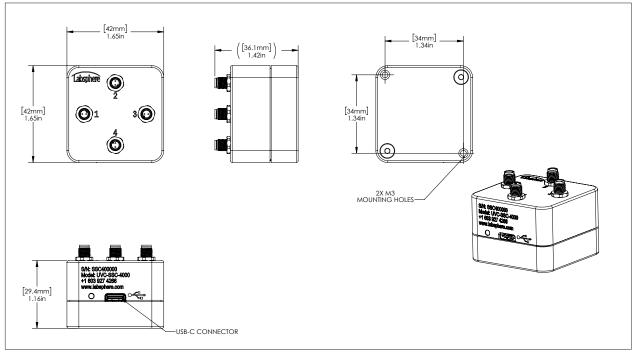


SSC-1000 Digital Radiometer



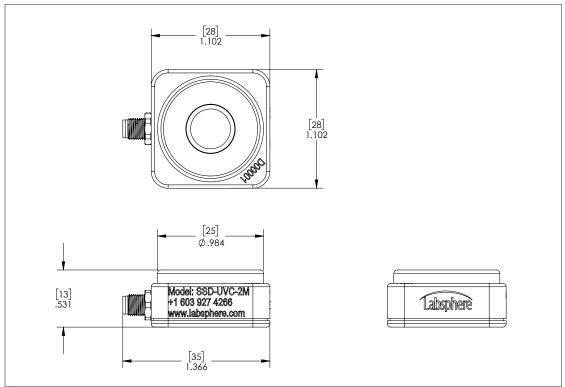
Dimensions accurate as of 9/2021. Subject to change.

SSC-4000 Digital Radiometer



Dimensions accurate as of 9/2021. Subject to change.

SSD-UVC Detector Head



Dimensions accurate as of 9/2021. Subject to change.

