

SMARTSens Integrated UVC Irradiance Sensors

Enable real-time UVC dose monitoring for validation of UVC surface disinfection

Real-time UVC dose monitoring

Labsphere's calibrated UVC sensors enable real-time UVC dose monitoring for the validation of UVC surface disinfection. Easily access dose information on demand using our SMARTSens software platform and integrate digital sensors as a component in your UVGI system. 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 integrated digital UVC sensors are available as an irradiance meter that can be used to monitor UVC irradiance and dose. Multiple sensors can be networked and monitored from a central location. Not sure where to place your sensors or how many sensors you need? Labsphere has you covered with our comprehensive radiometric modeling service.

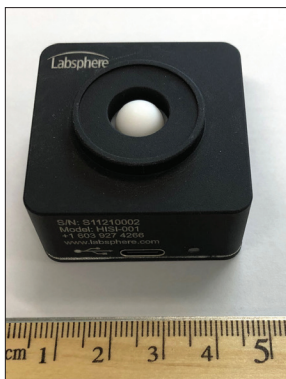


Value:

- 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

Applications:

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



Ordering Information

Model Number	Description	Order Number
UVC-HISI-001	High Irradiance Sensitivity - Integrated: UVC Irradiance and Dose Meter, Software and APIs. Calibration Sold Separately.	AA-01603-200

Calibrations - Choose Calibration Wavelengths

Calibration	Description	Order Number
254-HG-IRR	Irradiance response for Low Pressure Hg 254 nm. Calibration and programming of response for Low Pressure Hg 254 nm.	254-HG-IRR
265-LED-IRR	Irradiance response for 265 nm LED sources. Calibration and programming of response for 265 nm LED.	265-LED-IRR
275-LED-IRR	Irradiance response for 275 nm LED sources. Calibration and programming of response for 275 nm LED.	275-LED-IRR

Performance Specifications

Irradiance Range:	20 $\mu\text{W}/\text{cm}^2$ to 20 mW/cm^2	
Absolute Resolution:	0.3 $\mu\text{W}/\text{cm}^2$	
Performance:	Irradiance	Resolution (%)
	20 mW/cm^2	0.0015%
	2 mW/cm^2	0.015%
	200 $\mu\text{W}/\text{cm}^2$	0.15%
	20 $\mu\text{W}/\text{cm}^2$	1.5%
Signal to Noise Ratio:	10^4	
f2 Directional Response:	<1.5%	
Communication Protocol:	USB 2.0 type C	
Hardware Sampling Rate:	10 Hz	
User Defined Running Average:	Up to 25 Readings	
Compliance:	CE	
Measures Surface Irradiance:	Yes	
Monitor Dose:	Yes	

Physical Specifications

Package Dimensions:	41 mm (L) x 41 mm (W) x 23 mm (H)
Input Optics Size:	9 mm diameter
Input Optics Type:	Diffuser Dome
Power:	USB 2.0 type C, 5V, 100mA

Integrated UVC Sensor Package

