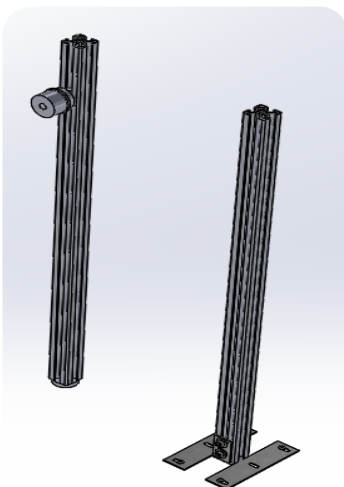


# UVC Smart-Vu

System List	System Health	Disinfection Dosage	UV Intensity	Runtime	Emitter Life	Alerts
⌵ AHU-1	🟡	🔴	3210.0 $\mu\text{W}/\text{cm}^2$	250.0 Hour(s)	80%	🟢
⌵ AHU-2	🟢	🟢	3210.0 $\mu\text{W}/\text{cm}^2$	250.0 Hour(s)	100%	🟢
Disinfection Dosage		🔴	3210.0 $\mu\text{W}/\text{cm}^2$	1250.0 Hour(s)	60%	🟢
🟡 Aspergillus N Disinfection Level	🟢	🟢	1083.0 $\mu\text{W}/\text{cm}^2$	42.1 Hour(s)	100%	🟢
🟡 Influenza Disinfection Level	🔴	🔴	3210.0 $\mu\text{W}/\text{cm}^2$	250.0 Hour(s)	100%	🟢
🔴 Pseudomonas Disinfection Level	🔴	🔴	3210.0 $\mu\text{W}/\text{cm}^2$	250.0 Hour(s)	100%	🟢
🟢 SARS CoV2 Disinfection Level	🔴	🔴	3210.0 $\mu\text{W}/\text{cm}^2$	250.0 Hour(s)	100%	🟢

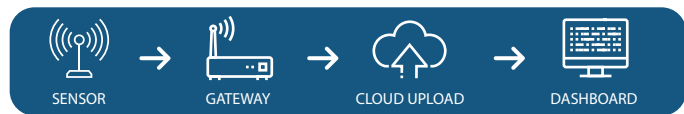
## Product Highlights

- Provides a smart and scalable solution for the age-old UVC question: "How do I know the UVC systems are working?"
- UVC Smart-Vu is a customizable, smart-platform that is compatible with all UVC disinfection products allowing real-time monitorization for any installation
- UVC Sensor reports the UVC dosage, intensity, emitter health and operational status to an intuitive IoT Dashboard
- Multiple, even hundreds of UVC sensors can be applied to a single gateway
- Sensor Mounting Arm uses 24" of aluminum framing for ease of installation. Mounting can be obtained by a high-strength industrial magnet or H-bracket with self-tapping screws



## Applications

Steril-Aire's UVC Smart-Vu is an innovative-smart solution designed to monitor and report on the condition and effectiveness of UVC solutions.



The UVC Smart-Vu sensor relays its readings to the mountable transmitter, onto the gateway and uploads monitored data to the cloud-based dashboard for real-time viewing and management, from anywhere. Giving the ability to manage one or hundreds of facility locations from one dashboard, with full reporting on all UVC systems.

## Sensor Specifications

- Ultra-low power use, less than 0.5W, Power supply: DC 5V
- No visible light influence, peak response spectrum  $\lambda_p=254\text{nm}$
- Standard industrial signal, 0~5V DC linear voltage output, convenient for industrial application
- High measurement accuracy, resolution of  $0.001\text{W}/\text{m}^2$
- Wide operating temperature range:  $0^\circ\text{C}\sim+80^\circ\text{C}$ , temperature drift coefficient: less than  $-0.1\%/^\circ\text{C}$
- Transmission Distance: NLoS: 2-3km or LoS: 6-8km
- OTA (Over The Air) firmware updates
- Wireless Relay Included



\*Additional Sensors Sold Separately\*

## Gateway Specifications

- Compliance to LoRaWAN 1.0.2
- Built-in 2.4G 802.11b/g/n Wireless LAN
- Cloud service for gateway health monitor
- Web UI for LoRa and network configuration
- Up to 8 concurrent channels for LoRa transmission
- Active scan for channel availability with RSSI levels
- Support wide frequency range from 470MHz to 928MHz
- Various Internet connections: Ethernet, Wireless bridge, 3G/4G USB dongle



## UVC Smart-Vu Dashboard

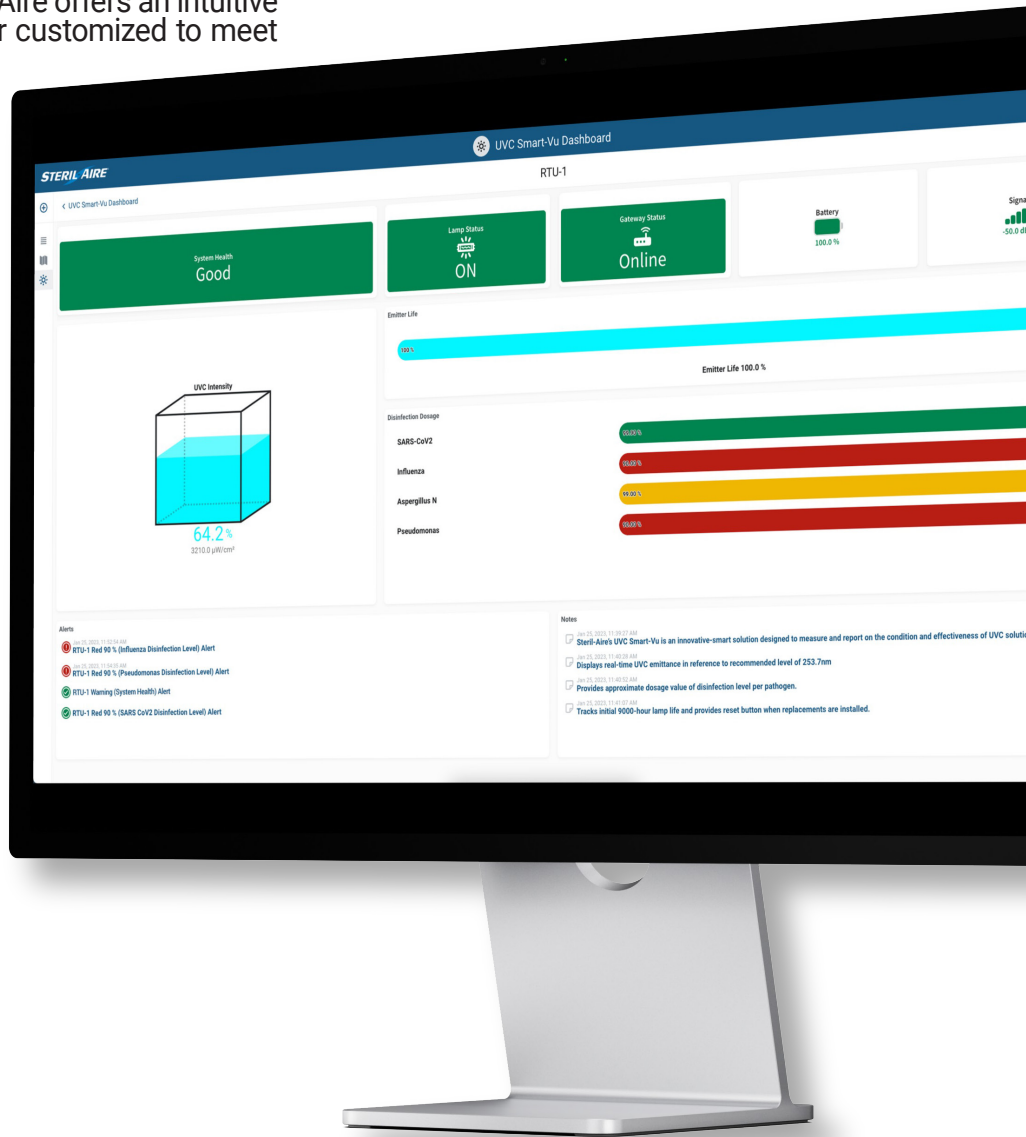
**Dashboard** - Remote monitoring via cloud-based platform to manage UVC Smart-Vu data from anywhere. Easily view one or hundreds of locations at once. Steril-Aire offers an intuitive dashboard template that can be further customized to meet your needs

**Notifications** - Real-time, customizable alerts that can be sent via SMS, push notification or email; BMS/BACnet compatible upon request

**Gateway** - One gateway can handle multiple sensors. The cellular gateway can be upgraded via OTA or USB  
*Ethernet available upon request*

### Dashboard Fields

- **System Health** easy to read, simple green/yellow/red icons that shows overall UVC system performance
- **UVC Intensity** displays UVC emittance at 253.7nm
- **Pathogen Disinfection Dosage** provides approximate dosage value of disinfection level per pathogen
- **Emitter Life** remaining life percentage of emitters
- **Runtime** tracks initial 9000 hour lamp life
- **Component Alerts** stay informed if the gateway loses connection, battery is low, or other system malfunctions
- **Reports** can be scheduled and customized to your liking, can be sent in multiple file formats



### Ordering Information

Main Unit
80000520
Battery Sensor & Cellular Gateway
Sensor; WXS8800-EXT048H (Battery Powered)
Cellular Gateway: Tektelic (sim card included)
IoT Connectivity & Dashboard: 2 years

*Ethernet available upon request*

Additional/Replacement Components
80000550
Additional Battery Sensor Kit Sensor; WXS8800-EXT048H
80TEKTEL
Cellular Gateway: Tektelic (sim card included)
8000IARM
Installation Arm

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