



SmartGuard - Solutions™

Smart. Automated. Disinfection.

Reassure your organization and the people you serve with autonomous clinical grade disinfection

99.9%
DISINFECTION



OFFICES • SCHOOLS • GROCERY STORES • HOSPITALITY
WAREHOUSES • AND MORE



Fully autonomous disinfection throughout your facility targeting all high touch, high contact surfaces



Options for 2 or 4 light engines for increased disinfection efficiency



Broad Spectrum UV-C, UV-B and UV-A to kill bacteria and viruses*



ORDERING INFORMATION

EX: SGUV-2-G1

MODEL

SGUV=SmartGuardUV

LIGHT ENGINES

2= 2 Light Engines

4= 4 Light Engines

GENERATIONS

G1= Generation 1

*PURO's UV disinfection lighting, powered by Violet Defense, has been independently validated to kill up to 99.9% of Norovirus. According to the EPA Emerging Viral Pathogens program, if an antimicrobial product can kill small, non-enveloped viruses like Norovirus, then it is deemed effective against any large, non-enveloped viruses or any enveloped viruses, which include Coronaviridae (coronavirus).

PRODUCT SPECIFICATIONS

UV SOURCE

Light engine	Proprietary pulsed xenon lamp
Pulsed interval	1 UV flash every 6 seconds
Wavelengths	UV-C (200-280nm) germicidal UV-B (280-320nm) germicidal UV-A (320-400nm) antibacterial
Range	120 Inches horizontal 120 Inches vertical
Beam angle	170° On either side (mobility allows for full 360° coverage)
Disinfection time	120 Seconds (2 light engine model) 90 Seconds (4 light engine model)
UV Flashes	> 2 Million UV flashes

OPERATING ENVIRONMENT

Ambient operating temperature	41° F to 104° F
Ambient operating Humidity	< 80% RH non-condensing *not rated for wet environments or outdoors
Traversable aisle	37.4 Inches
Traversable gap	0.59 Inches

DIMENSIONS

Length	22.50 Inches
Width	20.75 Inches
Height	68.25 Inches
Weight	309 Pounds

OPERATING INFORMATION

Run Time	8-10 hours per charge
Charge Time	4 hours to 90%
Charging	Autonomous Docking
Speed	3.4 mph
Turning Radius	Turn in place
Wireless Protocols	802.11 a/b/g/n/ac 2T2Rw/ BT4.1, Atheros QCA6174A
AMR lifetime	9 years

SAFETY

Light Engines	Integrated Motion Sensors
Robot	LiDAR and 3D Depth Cameras for person and obstacle avoidance
FCC	Light engine compliance with Part 15 Class A
UL	All internal components are UL listed
TUV	Light engines tested and certified by TUV to UL specifications



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HOW IT WORKS

Pulsed Xenon produces germicidal UV-C, UV-B, and anti-bacterial UV-A to deactivate the DNA and RNA of organisms. SmartGuardUV can be programmed to relocate to different positions in an area or room, pulse, rotate and pulse again to maximize UV coverage. Scheduling of disinfection can be initiated or modified from anywhere using a mobile device, browser, or integration with a scheduling system. Optional disinfection analytics provides disinfection event validation and UV light performance including date, time, location, photographic evidence, disinfection duration, and cleaning performance.

SMARTGUARD UV DELIVERS

Fully autonomous UV disinfection for all environments including sports facilities, workout and locker areas, manufacturing, hotels, general fitness clubs, warehousing, hospitals, offices, airports and wherever people gather. Each robot offers quick disinfection with minimal downtime and can disinfect up to 4,500 feet of linear surface areas in an eight-hour shift. Employees can resume using the area as soon as the UV lamps are off.

SAFETY

Built in motion sensors provide automatic shut off to prevent accidental UV exposure to your employees, and our robots have obstacle detection sensors to ensure safe transport when moving between areas. SmartGuardUV is environmentally friendly with low power requirements and does not utilize toxic chemicals.

ACTIONABLE DATA

4SITE cloud-based platform delivers disinfection event validation and tracks UV light performance. Reporting includes date, time, location, photographic evidence, disinfection duration, and cleaning performance.

PULSED XENON LIGHT

The SmartGuardUV system, powered by Violet Defense technology, utilizes germicidal UV at all wavelengths from 200-400nm (UVA, UVB, UVC) designed to safely disinfect your environment with no layout changes necessary to fit bulky disinfecting equipment. Superior to solutions based on low pressure mercury vapor tube technology that emit continuous low intensity, continuous UV-C at a single wavelength (254nm). Best in class UV full spectrum disinfection: SmartGuardUV has an 8 to 10 hour active cleaning runtime with integrated self-charging, built-in motion sensing for safe of UV lights, and auto-calculation of cleaning duration.