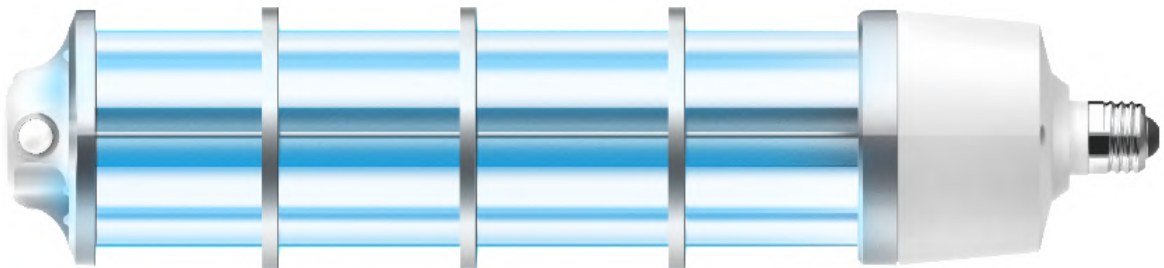
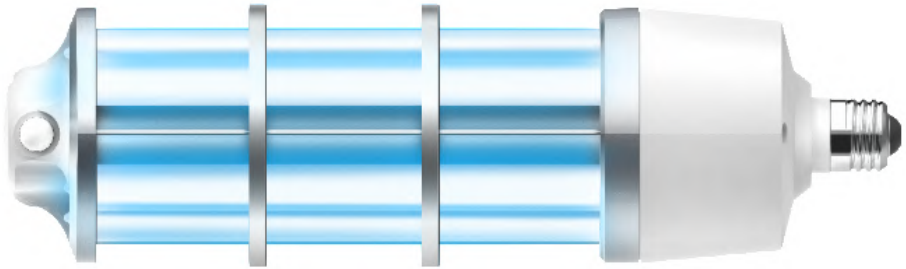


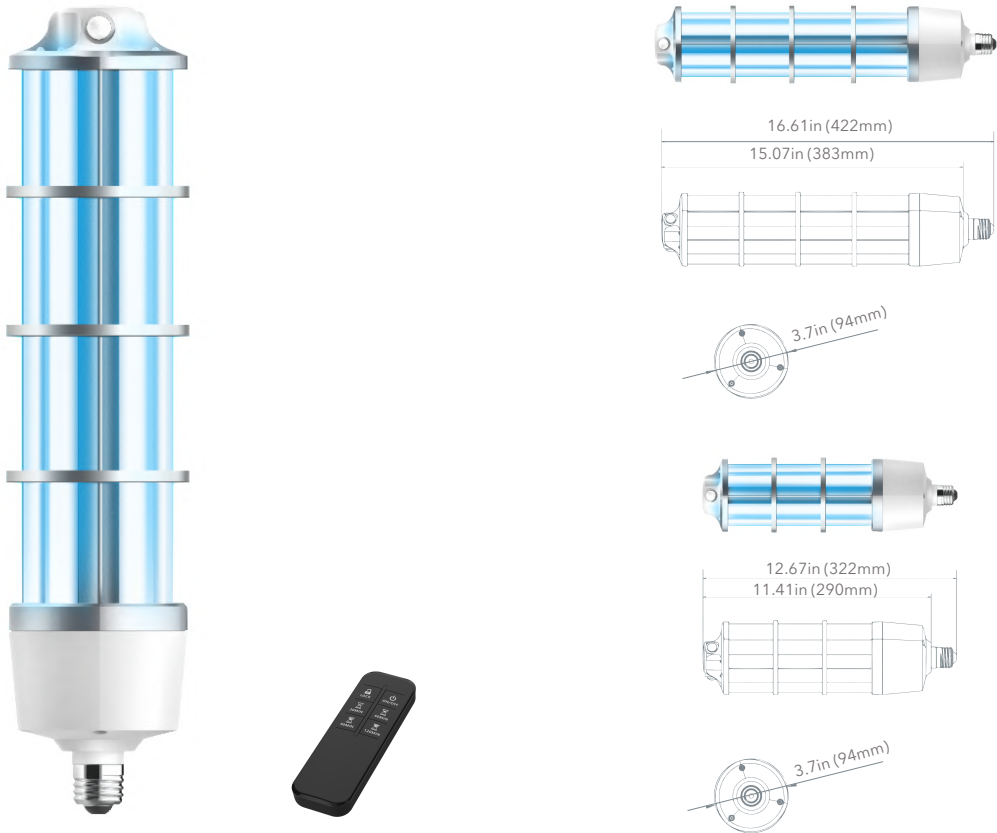
Clean™

by
CodeLumen Lighting



SURFACE & AIR 1

Smart Ultraviolet Germicidal Technology



SURFACE & AIR 1 | SA1

Product Description

UV-C disinfection technology to get rid of contaminants from environmental surfaces and air, which are a major source of microorganisms' transmission. Effectively cleans and disinfects surfaces and air, inactivating pathogens and reducing the risk of infection.

SURFACE & AIR 1 uses short-wavelength ultraviolet (UV-C) light of 254nm to meet its mandate. It inactivates pathogens by destroying their nucleic acids and editing their DNA. The targeted microorganisms are rendered, unable to execute cellular activities and to replicate itself.

SA 1 is the first-generation model of the new and proven to be effective SA-series. It is a portable and lightweight sanitizer solution, providing direct UV-C energy 360-degrees to disinfect the air and exposed surfaces in unoccupied areas instantly.



Applications

Clean™ SURFACE & AIR 1 solution is commendable for being innovative, portable, and cost-friendly by design, paving the way for swift targeting of 254nm UV-C wavelengths on surfaces and air to inactivate pathogens. The technology is applicable in a wide range of fields including:



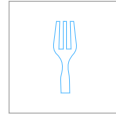
Hospitals / Medical



Universities / Schools



Office Buildings



Food Industry



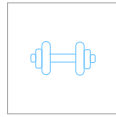
Household



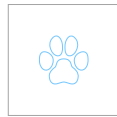
Retail Stores



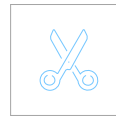
Hospitality / Hotels



Gymnasiums



Veterinary Clinics



Beauty Shops



Laboratories

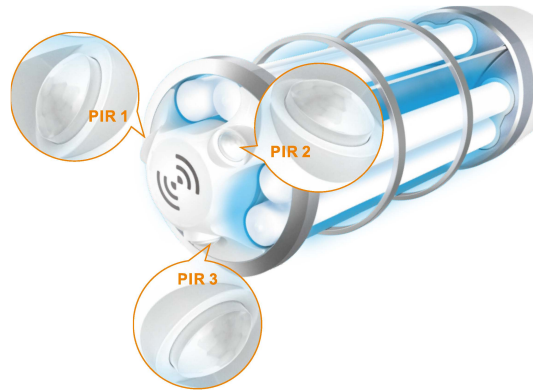


Manufacturing Industry

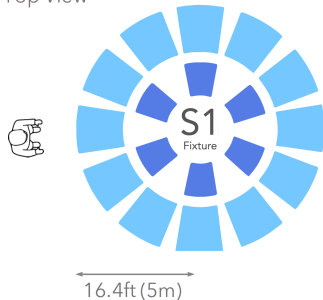
Special Features

Built-in 3 Passive InfraRed (PIR) sensors

The smart built-in 3 PIR protective sensors can detect any movement and automatically turn OFF the UV-C disinfection session. When the sensor stops detecting movement for a few seconds, the UV-C disinfection session is turned back ON.



Top View



Space occupant's safety

The smart built-in 3 PIR protective motion sensors can detect any movement at a radius of 16.4 ft, keeping unintended visitors safe such as children or pets during treatment.

Included Accessories

Infrared (IR) Remote

On/off and timing (30/60/90/120 mins) function with IR remote (there is a 20s buzzer sound before the light turns on.



Stainless Tripod

A portable and easy-to-move tripod, made of stainless steel, for disinfection sessions.



Eyebolt

(Base for ceiling mount installation) Recommended height 5 ft lower part of bulb



UV Power General Application Guide

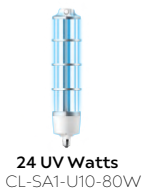


215.2ft² / 20m²
Disinfects in 30 min.

322.9ft² / 30m²
Disinfects in 60 min.

376.7ft² / 35m²
Disinfects in 90 min.

430.5ft² / 40m²
Disinfects in 120 min.



430.5ft² / 40m²
Disinfects in 30 min.

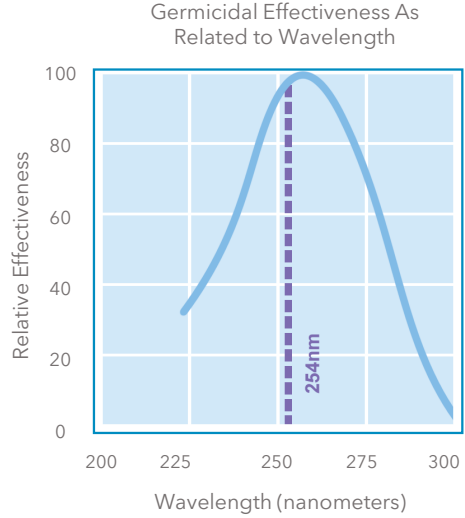
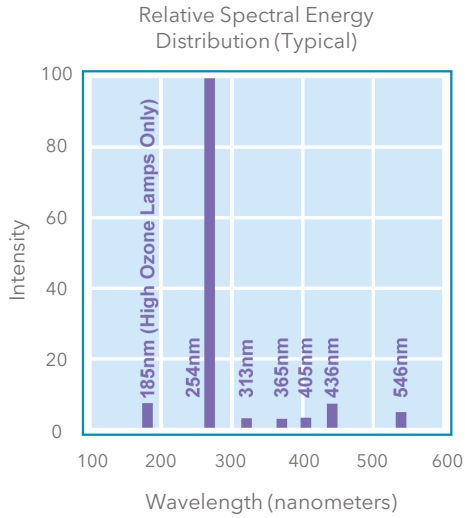
538.1ft² / 50m²
Disinfects in 60 min.

592ft² / 55m²
Disinfects in 90 min.

645.8ft² / 60m²
Disinfects in 120 min.

Operating characteristics

SURFACE & AIR 1 works by emitting UV-C germicidal wavelength of around 254nm that is sure to render harmful organisms sterile. The 254nm UV-C radiation inactivates the DNA and RNA of the pathogens



Germicidal lamps provide effective protection against microorganisms. A small cross-section is shown below.

Organism	Alternate Name	Type	Disease	Dose
Corynebacterium diphtheriae	C. diphtheriae	Bacteria	Diphtheria	6,500
Legionella pneumophila	L. pneumophila	Bacteria	Legionnaire's Disease	12,300
Mycobacterium tuberculosis	M. tuberculosis	Bacteria	Tuberculosis (TB)	10,000
Pseudomonas aeruginosa	P. aeruginosa	Bacteria		3,900
Serratia Marcescens	S. marcescens	Bacteria		6,160
Staphylococcus aureus	S. aureus	Bacteria		6,600
Staphylococcus epidermidis	S. epidermidis	Bacteria		5,800
Adeno Virus Type III		Virus		4,500
Coxsackie A2		Virus		6,300
Influenza		Virus	Flu	6,600

*Nominal Ultraviolet dosage ($\mu\text{WSec}/\text{cm}^2$) necessary to inactivate better than 99% of specific microorganism.


Technical Specifications

Model	Power Consumption	UV Power	Voltage	Exterior Housing Dimensions		Rated Average Lamp Life
				Length	Diameter	
CL-SA1-U10-60W-01	60 Watts	18 Watts	85-135V	12.6" (322mm)	3.7" (94mm)	10,000 Hours
CL-SA1-U10-80W-01	80 Watts	24 Watts	85-135V	16.6" (422mm)	3.7" (94mm)	10,000 Hours
CL-SA1-U10-60W-02	60 Watts	18 Watts	200-305V	12.6" (322mm)	3.7" (94mm)	10,000 Hours
CL-SA1-U10-80W-02	80 Watts	24 Watts	200-305V	16.6" (422mm)	3.7" (94mm)	10,000 Hours

- Operating temperature :-10 - + 35°C
- Operating environment humidity: <80%
- Storage temperature: -20 - + 60°C
- Sensor detection range: 360 degrees
- Sensor type: 1 Microwave+ 3 PIR sensors
- Sterilization factor: Ultraviolet 253.7nm .
- Use the C-band ultraviolet light emitted by the ultraviolet lamp to destroy the bacteria and DNA of bacteria for sterilization.

How to order

CL-SA1-U10- -
 60W 01
 80W 02

 **WARNING:** Germicidal ultraviolet rays are harmful to the eyes and skin. Avoid exposure to direct or reflected germicidal ultraviolet rays.



*Note: Design, features and specifications subject to change without notice. Some features may not be available on all models. For more information please visit us at www.clumen.com or send us an email at info@clumen.com

