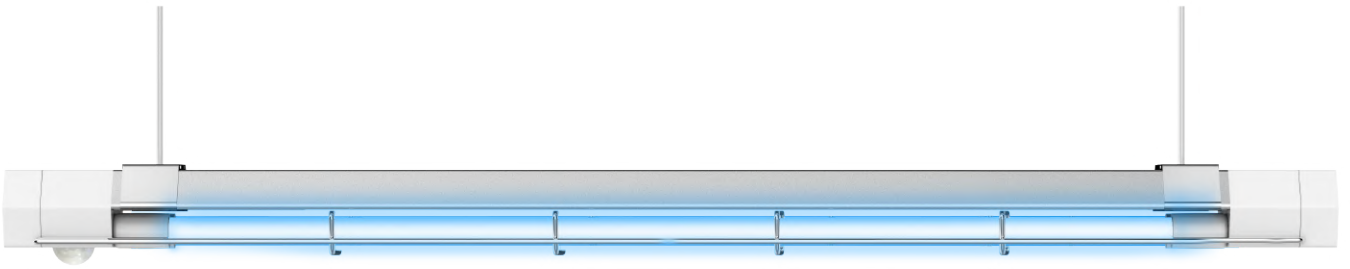


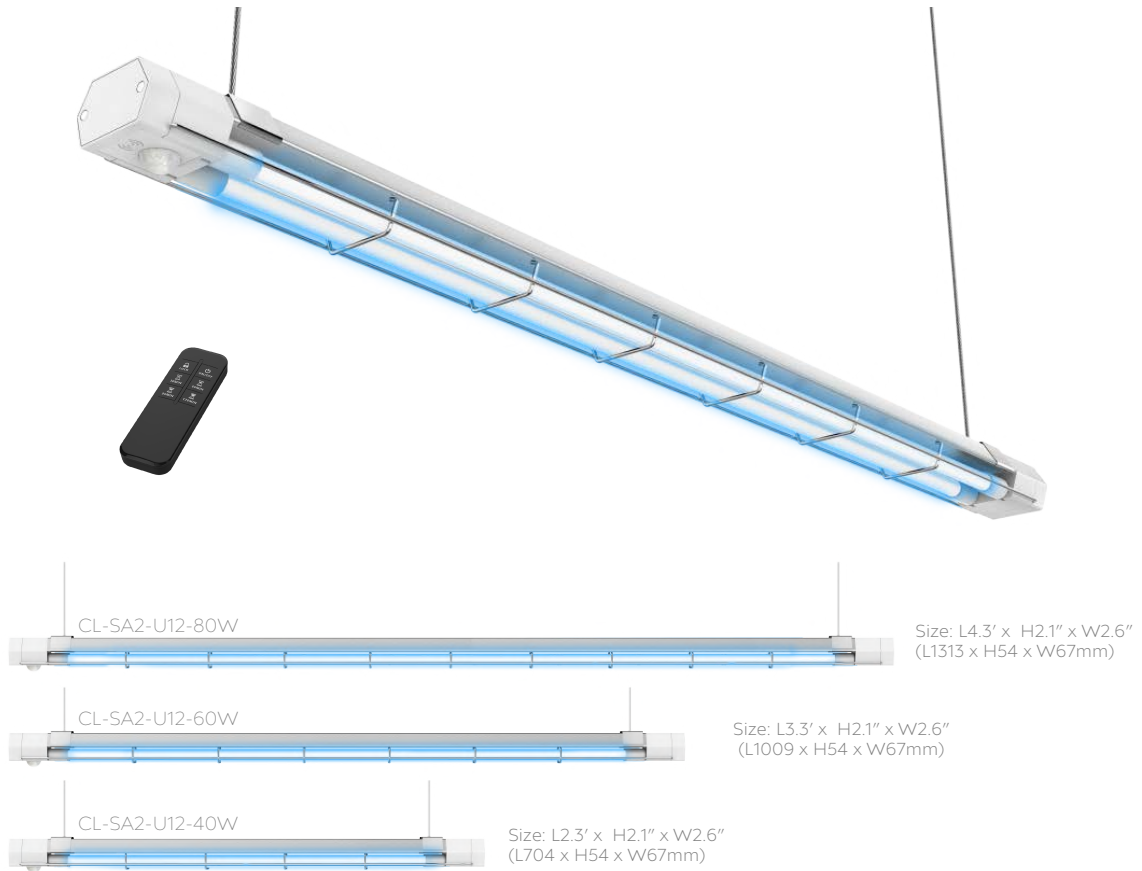
Clean™

by
CodeLumen Lighting



SURFACE & AIR 2

Smart Ultraviolet Germicidal Technology



SURFACE & AIR 2 | SA2

Product Description

Clean™ has continued to enhance its AS-series of UV-C disinfectant solutions with the introduction of SURFACE & AIR 2. A versatile and powerful solution that offers advanced disinfection features to both surfaces and air.

SURFACE & AIR 2 continuously releases considerable dosages of UVC light in the target environments to help curb the spread of microbial diseases. UVC-light of up to 254nm wavelength is sure to inactivate pathogens by destroying their nucleic acids and editing their DNA. The targeted microorganisms are rendered, unable to execute cellular activities and to replicate itself.

Its high-strength barbed wire protection design prevents the UVC lamp tube from being stably removed from the lamp, being damaged when the lamp is moved to install and/or prevent the UVC lamp tube from being crushed by foreign objects.

In case of any technical challenge, the Clean™ support team is readily available to assist.



Applications

The in-expensive Germicidal UVC Solution aims at ensuring zero infections to occupants of living spaces, healthcare environments, and other crowded places. A single disinfection cycle with SURFACE & AIR 2 takes place between 30 to 120 minutes, depending on the room size.

SURFACE & AIR 2 disinfection properties are applicable in these areas:



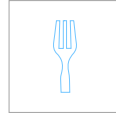
Hospitals / Medical



Universities / Schools



Office Buildings



Food Industry



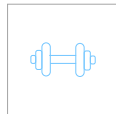
Household



Retail Stores



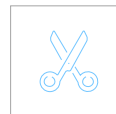
Hospitality / Hotels



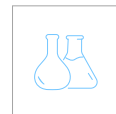
Gymnasiums



Veterinary Clinics



Beauty Shops



Laboratories



Manufacturing Industry

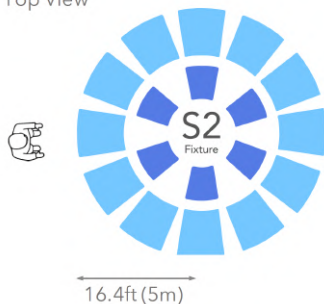
Special Features

Automatic turn on and off.

SURFACE & AIR 2 puts user safety as the number one priority. It incorporates Built-in 3 Passive InfraRed (PIR) sensors that detect any movement and automatically turns 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



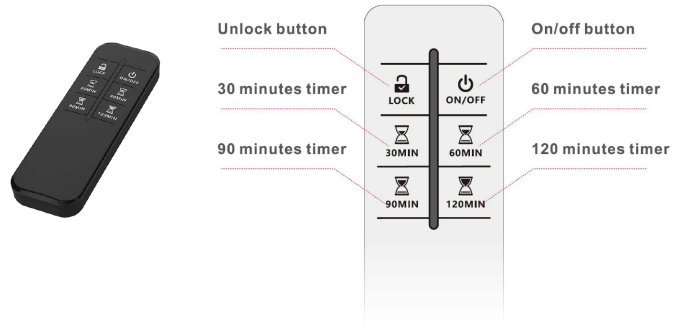
Space occupant's safety

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.



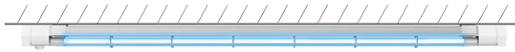
Infrared (IR) Remote for Safe Operation

Safely turn ON the S2 fixture from a distance up to 32 feet away. Lock the desired disinfection session time (30/60/90/120 min) and automatically have the protection from 3 passive PIR sensors until the session is completed.

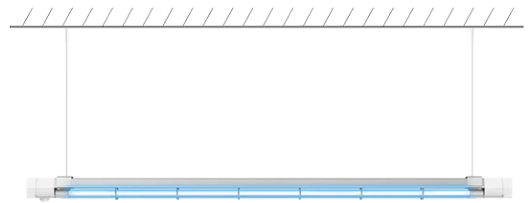


Simplified installation

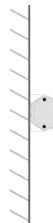
Easy Multiple Mounting Installation Types including:



Surface Mount



Pendant Mount



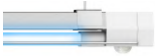
Wall Mount



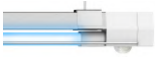
UV Power General Application Guide



12 UV Watts
CL-SA2-40W



18 UV Watts
CL-SA2-60W

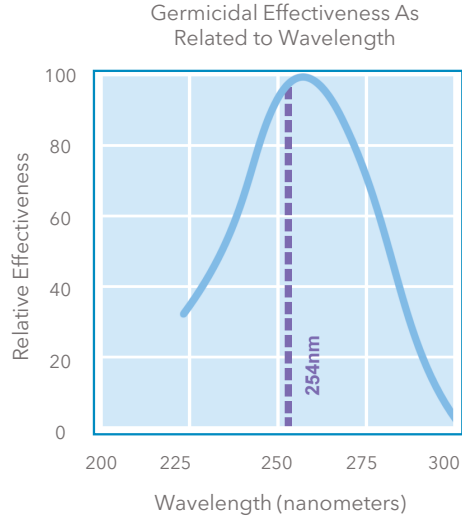
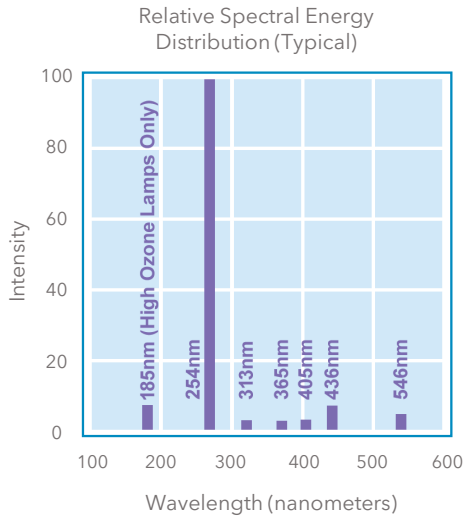


24 UV Watts
CL-SA2-80W



Operating characteristics

SURFACE & AIR 2 works by inactivating airborne diseases, the best effective way to tackle such pathogens. It uses germicidal ultraviolet light at 254nm to accomplish this operation.



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 (µWSec/cm2) 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 | Height | Depth | |
| CL-SA2-U12-40W-01 | 40 Watts | 12 Watts | 85-135V | 27.7" (704mm) | 2.1" (54mm) | 2.1" (67mm) | 10,000 Hours |
| CL-SA2-U12-60W-01 | 60 Watts | 18 Watts | 85-135V | 39.7" (1009mm) | 2.1" (54mm) | 2.1" (67mm) | 10,000 Hours |
| CL-SA2-U12-80W-01 | 80 Watts | 24 Watts | 85-135V | 51.6" (1313mm) | 2.1" (54mm) | 2.1" (67mm) | 10,000 Hours |
| CL-SA2-U12-40W-02 | 40 Watts | 12 Watts | 200-305V | 27.7" (704mm) | 2.1" (54mm) | 2.1" (67mm) | 10,000 Hours |
| CL-SA2-U12-60W-02 | 60 Watts | 18 Watts | 200-305V | 39.7" (1009mm) | 2.1" (54mm) | 2.1" (67mm) | 10,000 Hours |
| CL-SA2-U12-80W-02 | 80 Watts | 24 Watts | 200-305V | 51.6" (1313mm) | 2.1" (54mm) | 2.1" (67mm) | 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-SA2-U12- -
 40W 01
 60W 02
 80W

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



Long Life
9000H



85-135V/
200-305V



Omni
OK



2 years
warranty



CE



FCC



cUL US
LISTED

***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

