MADE IN BRITAIN

STERILIGHT ROBOTS

STERILISE WITH UV-C ROBOTS

Fight the War Against Covid-19 with Autonomous UVC Robots.

PRICE LIST & RATE CARD

A CONCENTRATED FORM OF UV-C IS NOW BEING USED IN THE WAR AGAINST COVID-19

What is UV-C?

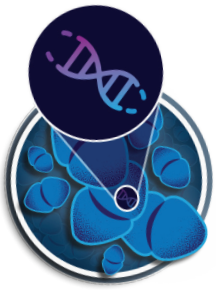
Ultraviolet (UV) light is a component of the electromagnetic spectrum that falls in the region between visible light and X-Rays.

There are different types of UV-C and one type which is a relatively obscure part of the spectrum consists of a shorter, more energetic wavelength of light. This type of UV-C is particularly good at destroying genetic material.

Scientists first discovered they could harness UV-C to kill harmful organisms in 1878.

Studies have shown that UV-C is effective in the fight against other Coronaviruses such as SARS and it is now being used on the front line in the fight against Covid-19.

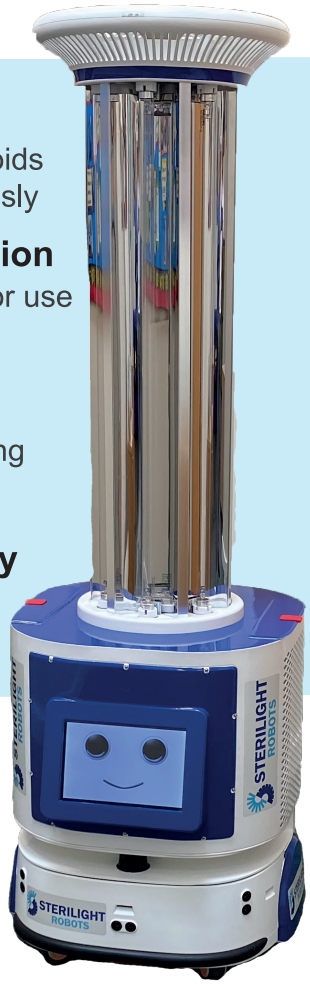
How does UV-C work?



UV-C works to kill microorganisms, such as fungi, viruses and bacteria, through a specific light. The power of UV is in its ability to destroy the proteins within these microorganisms, rendering them entirely harmless.

The concept of UV-C isn't new for many medical, lab and hospital settings, where high-end UV-C technology is already used in concentrated form for sanitising tools and materials.

Sterilight Robot specification?



Fully Autonomous
Disinfects, moves and avoids obstacles fully autonomously

Plug and Play operation
The robot can be set up for use within minutes

Disinfection Time
10-15 min average cleaning time for a 25sqm room

Wireless Connectivity
Wi-Fi based

360 Degree Disinfection
Our robot is able to project UV-C across 360 degrees

Operational For 4 Hours
Our robot offers a long 4 hour operating capacity for UV-C

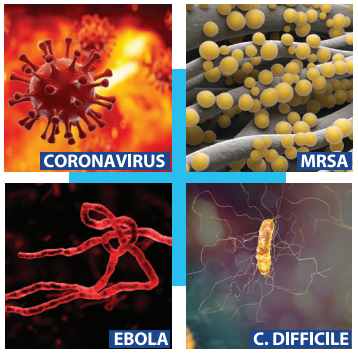
Full Charge in 1-3 Hours
It takes 1 hour to charge the robot from 25% to 100%.

15m Safety Sensor Range
Ultra-precision sensors ensure unexpected obstacles are avoided

Advantage of UV-C light

- It is safe to use.
- Its bulbs have comprehensive safety and health guidance for usage.
- Each UV bulb is reliable, produced by a leading manufacturer.
- Its UV treatment is efficient and effective. It provides a fast disinfection speed with minimal downtime and a low cost.
- It's rapid in operation and can be ready for last-minute or unexpected disinfection tasks within minutes.

EFFECTIVE AGAINST



Technical specification Sterilight Robots

TYPE
UVC Autonomous Cleaning Robot

COLOUR OF PRODUCT
Silver upper part, White on the lower part, Blue Branding

POWER
Battery Type: DC24 V, 100 ampH
Charging of Unit: With Docking Station or Manual Charger
Charging Time: around 1-3 hours depending of battery volume
Battery Cycle Times: approx. of 1000-1500 cycles

COMMUNICATIONS

Wi-Fi: Dual Band Wireless
Frequencies: 2.4 GHz to 5 GHz, 802.11 b/g/n
I/Os: USB and Ethernet Pier to Pier to connect to Wifi
Processor Intel: J1900 Quad-core 2.0Hz

SENSORS
Light Detection and Ranging Sensors, Infrared Sensors and Ultrasonic Sensors,
Camera and LED Touch Screen Display, Anti Collision Sensors, and Lidars

UVC LAMPS
Type: UV Lamps and Ballarts (powered by Phillips)
UVC Wavelength: 254nm
Depreciation of Useful lifetime: 15%
Lamp Current: 2.1 A
Lifetime: 9000 hours

SPEED OF ROBOT
Movement: 10mm to 40mm p/second
Positioning Accuracy: +/- 50mm
Turing Radius: 520mm
Motor Torque: 8.1nm (high load, low consumption)

EXTERNAL CHARGER
Input: 100-240V, AC 50-60Hz
Output: 24V, DC Max 15A

CE RoHS

Pricing

MODEL X **PRICE ON APPLICATION**

PRICE INCLUDES

- Warranty from Sterilight Robots Ltd.
- Full in-person training, training materials & remote access assistance.
- Marketing support and access to a library of UV-C marketing materials.
- Remote software/firmware updates.
- Price valid for September 2020

Let us disinfect your premises - Rate card Sep 2020

MONDAY-FRIDAY *excluding UK Bank Holidays Standard shift pattern 09:00 - 17:00 **Or** 8hr shift between 07:00 - 19:00	PRICE ON APPLICATION
BANK HOLIDAY MONDAY Standard shift pattern 09:00 - 17:00 **Or** 8hr shift between 07:00 - 19:00	PRICE ON APPLICATION
SATURDAY - SUNDAY Standard shift pattern 09:00 - 17:00 Or 8hr shift between 07:00 - 19:00	PRICE ON APPLICATION

MONDAY-FRIDAY *excluding UK Bank Holidays Non-standard 8hr shift pattern between 19:00-07:00	PRICE ON APPLICATION
BANK HOLIDAY MONDAY Non-standard 8hr shift pattern between 19:00-07:00	PRICE ON APPLICATION
SATURDAY - SUNDAY Non-standard 8hr shift pattern between 19:00-07:00	PRICE ON APPLICATION

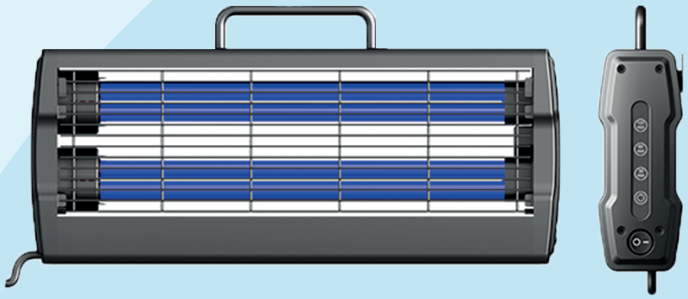
Static tower UV-C solutions

Compact & High Power

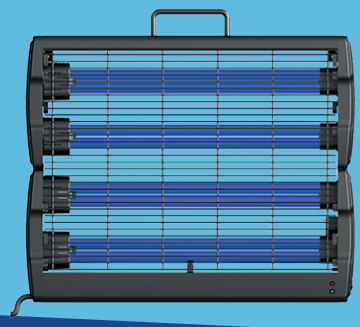
The SR72 offers a compact solution to UV-C disinfection.

20m² - 80m² Coverage

The SR72 can disinfect a 20m² area in 30 minutes of activation.



SR72 — PRICE ON APPLICATION



Mid-range & Versatile

The SR150offers a mid-sized solution to UV-C disinfection in larger areas.

40m² - 160m² Coverage

The SR150 can disinfect a 40m² area in 30 minutes of activation.

SR150 — PRICE ON APPLICATION

Static, UV-C Tower

The SR220 offers a resilient solution to UV-C disinfection in larger areas.

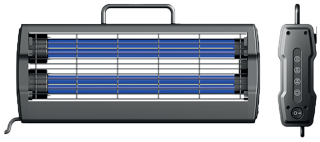
60m² - 240m² Coverage

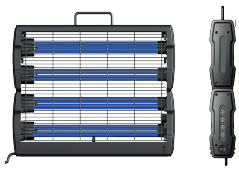
The SR220 can disinfect a 60m² area in 30 minutes of activation.

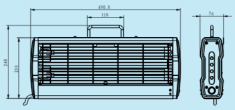
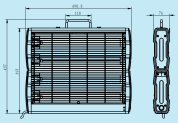
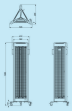
Easily Setup & Moved

The SR220 can be moved with ease, and activated within minutes.

SR216 — PRICE ON APPLICATION





	SR72	SR150	SR216
Product description	2- tube ultraviolet disinfection light (72W)	4- tube ultraviolet disinfection light (144W)	T8x6 Large moveable ultraviolet disinfection light
Description on marketing material	STATIC ULTRAVIOLET DISINFECTION LAMPS FOR COMMERCIAL ENVIRONMENTS		DISINFECTION UNIT FOR MEDIUM SPACES
Product type	Industrial Ultraviolet disinfection light		
Applications	Disinfection of small to medium size rooms (up to 80 sqm): classroom, hotel, office, factory, public washroom etc.	Disinfection of medium size rooms (up to 160 sqm): hotel, office, classroom and other medium - sized places	Disinfection of large spaces (up to 240 sqm): hotels, schools, studios, small theater, gymnasium, workshop and other large public places.
Features	2 mins delay to light up, mechanical switch, touch key and remote control, remote control through the wall, sensor detection , buzzer alarm, 3 options of disinfection time	2 mins delay to light up, mechanical switch and remote control, remote control through the wall, sensor detection ,buzzer alarm, 3 options of disinfection time.	3 mins delay to light up, mechanical switch, touch keys and remote control, remote control through the wall, sensor detection , buzzer alarm, 3 options of disinfection time, falling power-off design
Disinfection duration/ Disinfection area	30 mins/20m^2, 60 mins/40m^2, 120 mins/80m^2	30 mins/20m^2, 60 mins/40m^2, 120 mins/80m^2	30 mins/60m^2, 60 mins/120m^2, 120 mins/240m^2
Disinfection height range	0-4m		
IP Rating	IP20		
SOFTWARE			
Child safety lock	No		
Lamp on delay	2 mins delay to boot up		3 mins delay to boot up
Sensor detection	Lamp immediately doused once detecting humans and animals		
Alarm Buzzer	Buzzer for 2 mins at startup		Buzzer for 3 mins at startup
Tilt protection	No		Luminaire turn off immediately once at tilt 45°
Disinfection timing options	3 options		
CONTROL			
Remote control	Yes		
Switch/panel type	Mechanical switch and touch key		
Control	Mechanical switch, key switch and remote control		
ELECTRICAL			
PSU	Electronic ballast		
Power consumption	80W	150W	230W
Voltage	100V-240V, 50-60HZ		
Power factor	>0.9		
Current	MAX 1A	MAX 2A	MAX 3A
Battery operation	No		
DIMENSIONS & WEIGHT			
Product dimensions	490.8*76*240mm	490.8*76*437mm	1488*535*469mm
Inner dimension	N/A		N/A
Packing dimensions (Carton)	605*122*326mm	605*122*524mm	1605*450*435mm
Net weight	2.3KG	3.8KG	13.86KG
Gross Weight (Carton)	3.2KG	5KG	19.5KG
Dimensional drawing			
OTHERS			
Tube material	-		
Housing Material	Aluminium alloy+anti-UV ABS material		
Compliance	CE ETL ROHS REACH		
Mounting	Surface mount or Wall mount		Mounting Mobile placement
Standard accessory	Reflector, feet, protective eyewear, remote control, warning board, bracket (with tripod)	Reflector, feet, protective eyewear, remote control, warning board, bracket (with tripod)	Protective eyewear, remote control, warning board
Optional accessory	hanging bracket, rotating bracket, illuminometer, lamptube	hanging bracket, rotating bracket, illuminometer, lamp tube	Optional accessory Illuminometer, lamp tube
Power cord	1.8m		

STERILIGHT ROBOTS

Summary of UV light studies on coronaviruses

Microbe	D90 dose (exposure) required	Source
Coronavirus	7 J/m2	Walker 2007
Berne Virus (Coronaviridae)	7 J/m2	Weiss 1986
Murine Coronavirus (MHV)	15 J/m2	Hirano 1978
Canine Coronavirus (CCV)	29 J/m2	Saknimit 1988
Murine Coronavirus (MHV)	29 J/m2	Saknimit 1988
SARS Coronavirus CoV-P9	40 J/m2	Duan 2003
Murine Coronavirus (MHV)	103 J/m2	Liu 2003
SARS Coronavirus (Hanoi)	134 J/m2	Kariwa 2004
SARS Coronavirus (Urbani)	241 J/m2	Darnell 2004
Average	67 J/m2	

The table summarises the results of studies that have been performed on Coronaviruses under ultraviolet light exposure, with the specific species indicated in each case. The D90 value indicates the ultraviolet dose for 90% inactivation.

Although there is a wide range of variation in the D90 values, this is typical of laboratory studies on ultraviolet susceptibility. The range of D90 values for coronaviruses is 7-241 J/m2, the mean of which is 67 J/m2. This gives an indication of the ultraviolet susceptibility of the SARS-CoV-2 (Covid-19) virus.

BU

Boston University School of Medicine

Since the start of the Covid-19 pandemic, Dr Anthony Griffiths, Associate Professor of Microbiology at Boston University School of Medicine have researched the most effective ways of killing Covid-19. Using Phillips 35w, 254nm UV-C bulbs they reduced Covid-19 by 99.9% in 6 seconds. Based on this data, it was determined that a dose of 22Mj/cm2 will result in a reduction of 99.9999% in 25 seconds.

SAFETY

It is imperative to note that UV-C Light may cause acute harm to users' skin and eyes, thus the need to wear UV face shields as well as protective clothing and gloves. This will help the user to not be in contact with the unit. Skin exposure to UV Light germicidal wavelengths can lead to rapid sunburn as well as skin cancer. Besides, when one exposes his or her eyes to UV radiation, it can cause painful inflammation of the cornea and this can lead to permanent or temporary vision impairment that can result in blindness due to retina damage.

Fight the War Against Covid-19 with Autonomous UVC Robots.

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