



- *Inactivates a majority of viruses in a recommended five-minute disinfection cycle*
- *Rugged shelving supports heavy items*
- *Provides an effective disinfection option where no other methods exist*
- *Digital LCD display with count-down timer and lamp maintenance log*
- *Heavy-duty stainless-steel chamber*
- *Easy-to-use, one button operation*
- *Chemical-free disinfection*
- *A recommended one minute cycle time inactivates SARS-CoV-2*

## Enhance bio-security protocols with UV-C light sterilization

The BioShift Single-Door UV-C Chamber is an eco-friendly and cost-effective tool that uses ultraviolet C (UV-C) light sterilization to inactivate viruses and other pathogens before they enter bio-secure areas. The BioShift chamber's UV-C light fixes key vulnerabilities found on everyday items like food and cell phones by destroying the bacteria's ability to multiply and spread disease.

### Effective

The BioShift chamber uses ultraviolet C (UV-C) germicidal radiation, which provides a cost-effective and immediate way of deactivating the DNA in bacteria and viruses by destroying their ability to multiply and cause disease. There are two factors that directly influence the effectiveness of UV-C disinfection: time of exposure and light intensity.

### Easy to use

When needing to sanitize a tool or before entering a bio-secure area, simply place your items into the BioShift chamber. Then, after exposing the items to UV-C light for a recommended time of five minutes, the items can be removed. The process can be repeated as needed.

### Adapts to Your Facility

The BioShift single-door chamber is available in two sizes! The small chamber allows for easy placement on top of a counter, without taking up too much valuable space, while the large chamber is great for use when higher volumes of disinfection is needed.

Learn more on our website:  
[www.once.lighting](http://www.once.lighting)

## Electrical Specifications

Product	Input Voltage	Operating Power / Current	Standby Power / Current	Germicidal Bulbs / Lamps
BioShift® UV-C Chamber - Small	110V / 60 HZ	110W / 1 A	6W / 128 mA	20W (4 UV-C lamps)
BioShift® UV-C Chamber - Small	240V / 50/60 HZ	115W / 550mA	8.6W / 98 mA	20W (4 UV-C lamps)
BioShift® UV-C Chamber - Large	110V / 60 HZ	785W / 7.2 A	20W / 300 mA	40W (18 UV-C lamps)
BioShift® UV-C Chamber - Large	240V / 50/60 HZ	755W / 3.3 A	21W / 158 mA	40W (18 UV-C lamps)

## Dimensions

Product	Outside Mechanical Dimensions	Inside Mechanical Dimensions
BioShift UV-C Chamber - Small	23 L x 29.5 W x 23.6 H inches (585 L x 750 W x 600 H mm)	20.9 L x 19.5 W x 19.5 H inches (530 L x 495 W x 495 H mm)
BioShift UV-C Chamber - Large	46.5 L x 30 W x 72 H inches (1180 L x 762 W x 1828 H mm)	44.1 L x 21.1 W x 66.7 H inches (1119 L x 535 W x 1695 H mm)

## General

Weight	Small = 125 lbs. (57 kg) / Large = 375 lbs. (170 kg)
Timer Setting	5:00 minutes
Output	254 nm UV-C
Initial minimum irradiance	250 mJ/cm <sup>2</sup> (300 seconds, cold start)
Operating	41°F (5°C) to 104°F (40°C) temperature, Max humidity 80% up to 88F (31C), 50% at 104F (40C)
Storage	-20°F (-28°C) to 140°F (60°C) temperature, 10–95% humidity

## Ordering Information

	SKU
BioShift Single-Door Small Chamber <i>Single Tray Unit</i>	24-0256
Replacement Lamp 20W <i>Small Chamber</i>	24-0054
BioShift Single-Door Large Chamber <i>Four Tray Unit</i>	24-0273
Replacement Lamp 40W <i>Large Chamber</i>	24-0055
Replacement Ballast	24-0052

## Certifications

Conforms to UL STDs 61010-1 & 61010-2-040  
 Certified to CSA STDs C22.2#61010-1-12 & 61010-2-040  
 ROHS compliant  
 California Pro 65  
 EPA registered Pesticidal Device  
 EN 61326-1: 2013  
 FCC 47 CFR Part 18 [2019 Edition] – All Models except 24-0230 which is exempt for Agriculture  
 EN61010-1:2010+A1:2019  
 IEC61010\_2\_040B  
 IEC 62471 – Exempt Group  
 IP50 Rating



## How it works

There are two factors that directly influence the effectiveness of UV-C disinfection: time of exposure and UV-C radiance (intensity). In laboratory testing by Signify, the world leader in lighting, showed that their UV-C light sources inactivated 99% of SARS-CoV-2 virus on a surface with an exposure time of 6 seconds<sup>1</sup>.

The table on the right shows the effectiveness of a typical one- and five-minute exposure time in the BioShift® chambers at the minimum dose (mJ/cm<sup>2</sup>) to inactivate 99.99% of a selected group of bacterias and viruses.

For evidence supporting critical dose data contact:  
[info@onceteam.com](mailto:info@onceteam.com)

<sup>1</sup>Data made available to us by the National Emerging Infectious Diseases Laboratories (NEIDL) at Boston University (to be the subject of a forthcoming scientific publication) shows that Signify's UV-C light sources irradiating the surface of a material inoculated with SARS-CoV-2 (the virus that causes the COVID-19 disease) resulted in a 99% reduction of the SARS-CoV-2 virus at a UV-C dose of 5mJ/cm<sup>2</sup> (exposure time 6 seconds). This study further determined that a 99.9999% reduction of the SARS-CoV-2 virus would result from applying a UV-C dose of 22mJ/cm<sup>2</sup> (exposure time 25 seconds). Research variables are available upon request.

Common name	Scientific name	Pathogen type	4-log disinfection dose (mJ/cm <sup>2</sup> )	Recommended exposure time to eliminate pathogens*	
				1-minute	5-minutes
Covid-19	SARS-CoV-2	Virus	22	✓	
Flu	Influenza	Virus	14	✓	
Common Cold and Pink Eye	Adenovirus	Virus	165	•	✓
Foot and Mouth Disease	Picornaviridae Aphthovirus	Virus	125	•	✓
Rotavirus	Rotavirus	Virus	200	•	✓
Staph	<i>Staphylococcus aureus</i>	Bacteria	11	✓	
Ecoli	<i>Escherichia coli</i>	Bacteria	23	✓	
TB	<i>Mycobacterium tuberculosis</i>	Bacteria	24	✓	
Salmonella	<i>Salmonella</i>	Bacteria	8	✓	
Anthrax	<i>Bacillus anthracis</i>	Bacteria	106		✓

• Some strains can be eliminated in 1 minute, recommend 5 for all.

\* This data is determined from: <https://www.iuva.org/resources/Resource%20Documents/Malayeri-Fluence%20Required%20to%20Achieve%20Incremental%20Log%20Inactivation%20of%20Bacteria,%20Protozoa,%20Viruses%20and%20Algae.pdf> according to the highest reported dose within clade.