

# Your Complete Array of Sanitization Solutions to help Michiganders stay safer this winter

Reduce airborne virus count and disinfect surfaces in seconds!



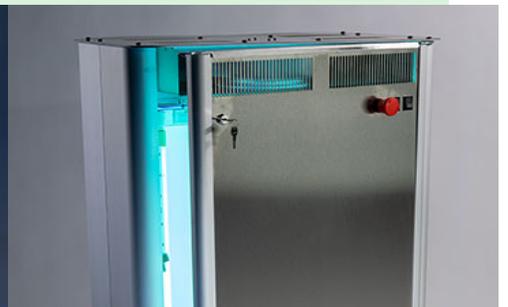
**Handheld Sanitizers**

Surface sanitation in seconds for common 'touch' surfaces



**Upright Room Sanitizers**

Cleans air and surfaces in rooms in minutes



**Circulating Air Sanitizers**

Forced air circulation – can be run 24/7 reduce airborne pathogen count

Discounted pricing for Michigan Restaurant and Lodging Association members.

For more information about UVC sanitation options for your needs, please contact HEX Lighting at 989-792-6100 or [info@hex-lighting.com](mailto:info@hex-lighting.com) you can reach our representative directly at: [linda@hex-lighting.com](mailto:linda@hex-lighting.com) or 989-280-3994 cell.

Stay safe, stay healthy!



## Who is HEX Lighting?

U.S. Lighting LTD dba HEX Lighting has been in the lighting equipment manufacturing business for over 40 years; combined, their team has over 120 years of experience producing lighting equipment. They started in 1979 with manufacturing a UVB photo therapy booth for the treatment of skin disorders. Then they expanded to HEX tanning systems, adding Red Light Therapy equipment and Near Infrared Phototherapy equipment for the treatment of injuries.

With the onset of the Covid pandemic, HEX Lighting closed normal business operations per Executive Order of the governor. On that same day, they learned that their local first responders (MMR Ambulance) were sanitizing their vehicles with fogging machines and their chemicals were on back order. Since HEX Lighting had access to UVC lamps, they worked with MMR to create a sanitizing system for their ambulances with a two-minute clean time.

HEX Lighting is dedicated to helping local businesses, front line workers and first responders in Michigan. They have assisted many communities in Michigan with sanitation equipment. UVC technology is sound, the science has been proven and this means of sanitation has been used for many decades to sanitize water, air, farm equipment, surfaces . . .

HEX Lighting always uses the tried and true mathematical formulas for time of exposure to sanitize with UVC light and will gladly run the formulas for any application. The mathematical formulas are working well for HEX Lighting. They have received many thank you calls from people using their equipment to sanitize; their frontline workers have stayed healthy.

For our restaurants and lodging facilities, HEX Lighting offers an array of wands for quick surface sanitation for 'touch point' items such as door knobs, faucets, kitchen tools, menus, room heat/air controls, tables, chairs - as well as room and vehicle sanitation equipment. Their staff will gladly guide you through options for your specific needs. A product introduction can be seen in the attached power point presentation. All UVC sanitation products are currently available.

Communities using their UVC equipment include:





**Alliance**  
Mobile Health



Great Lakes Bay  
Health Centers



ISABELLA COUNTY  
*Medical Care Facility*



Charlevoix County  
**TRANSIT**  
WE HAVE THE POWER TO MOVE PEOPLE.



The City of  
**Zilwauke**



**GOGBIC**  
MEDICAL CARE FACILITY  
To Heal ♥ To Comfort ♥ To Care



Friendship Centers  
OF EMMET COUNTY



UVC germicidal systems for sanitation

We have been in the lighting equipment manufacturing business for over 40 years.

With requests from our local first responders, we recently found ourselves adding customized UVC sanitizing systems to our product line.

UVC light from special germicidal lamps with wavelengths in the range 200nm to 280nm kills germs, bacteria, pathogens and viruses and has been used as a means of disinfecting and sanitizing for decades- specifically UVC at 254 nm.

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# UVC light in the news . . .

<https://www.nytimes.com/2020/05/07/science/ultraviolet-light-coronavirus.html>

<https://medicalxpress.com/news/2020-05-ultraviolet-bright-future-covid-.html>

<https://www.cbsnews.com/news/coronavirus-crisis-far-uv-light-microbe-blasting-uv-technology-could-kill-covid-19-public-places/>

<https://www.nytimes.com/2020/03/20/health/coronavirus-masks-reuse.html>

<https://www.cdc.gov/coronavirus/2019-ncov/hcp/ppe-strategy/decontamination-reuse-respirators.html>

<https://www.webmd.com/lung/news/20200519/coronavirus-puts-uv-in-the-disinfectant-spotlight>

<https://www.discovermagazine.com/health/are-ultraviolet-sanitizing-lights-safe-for-humans>

*\*Please copy the links into your browser if clicking on them does not automatically take you to the site*

# UVC for sanitation - science . . .

[http://rael.berkeley.edu/old\\_drupal/sites/default/files/very-old-site/uvtube/uvdisinfection.htm](http://rael.berkeley.edu/old_drupal/sites/default/files/very-old-site/uvtube/uvdisinfection.htm)

<https://www.ncbi.nlm.nih.gov/pmc/?term=uvc+for+sanitation>

National Library of Medicine, National Library of Health

*There are many studies for UVC light used for various sanitation purposes you can view at this site*

[https://www.iuvanews.com/stories/pdf/archives/180301\\_UVSensitivityReview\\_full.pdf](https://www.iuvanews.com/stories/pdf/archives/180301_UVSensitivityReview_full.pdf)

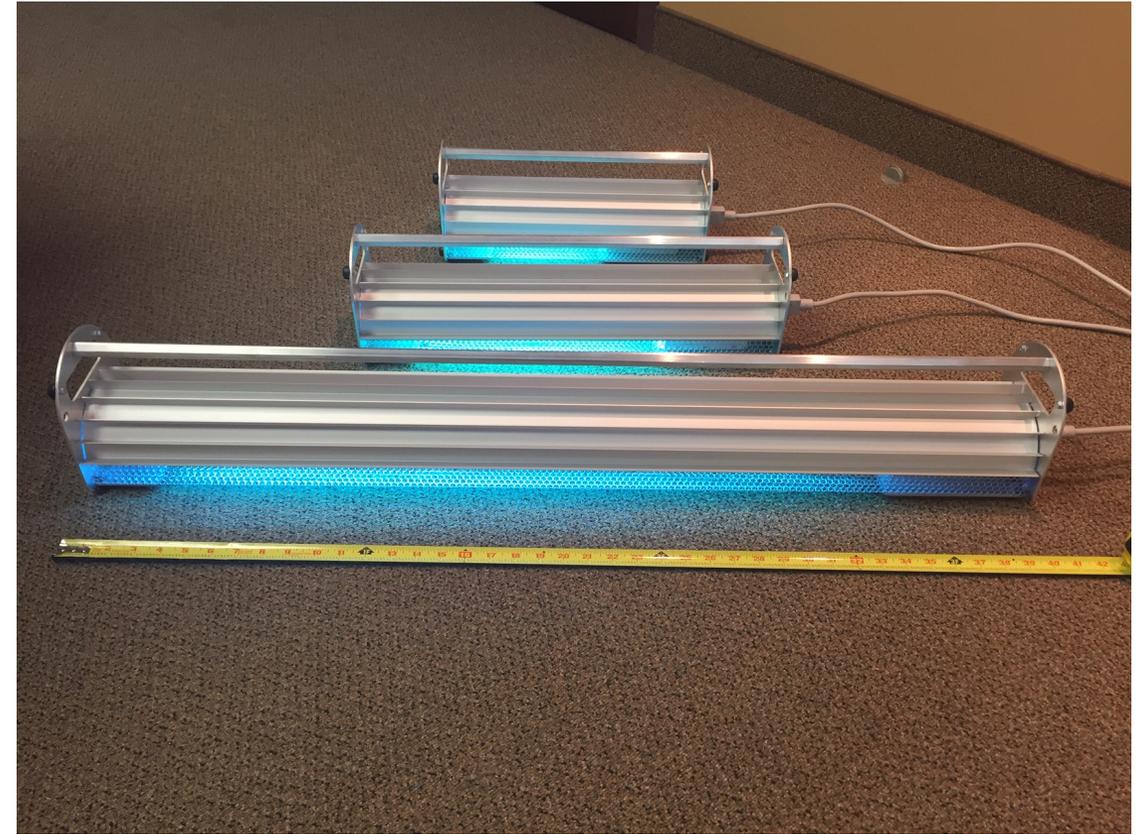
[https://www.researchgate.net/publication/281444652\\_Protocol\\_for\\_the\\_Determination\\_of\\_Fluence\\_UV\\_Dose\\_Using\\_A\\_Low-Pressure\\_or\\_Low-Pressure\\_High-Output\\_UV\\_Lamp\\_in\\_Bench-Scale\\_Collimated\\_Beam\\_Ultraviolet\\_Experiments](https://www.researchgate.net/publication/281444652_Protocol_for_the_Determination_of_Fluence_UV_Dose_Using_A_Low-Pressure_or_Low-Pressure_High-Output_UV_Lamp_in_Bench-Scale_Collimated_Beam_Ultraviolet_Experiments)

<https://bmcinfectdis.biomedcentral.com/articles/10.1186/s12879-020-4847-9>

Kowalski WJ, Bahnfleth WP, Witham DL, Severin BF, Whittam TS. 2000. Mathematical modeling of ultraviolet germicidal irradiation for air disinfection. *Quant. Microbiol.* 2:249–270 [[Google Scholar](#)]

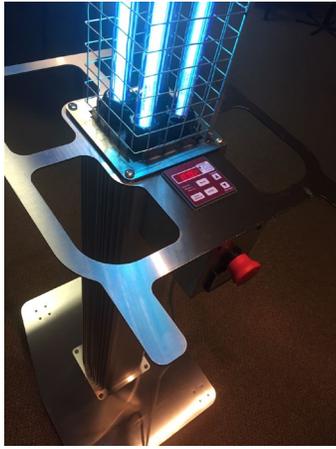
<https://in.dental-tribune.com/news/how-to-use-ultraviolet-light-uvc-to-fight-covid-19-effectively-in-dental-clinics-dr-ajay-bajaj/>

*\*Please copy the links into your browser if clicking on them does not automatically take you to the site*



UVC Wands – 15”, 21”, 40”  
Sanitize surfaces in seconds

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Clean 500  
Sanitize large areas in minutes



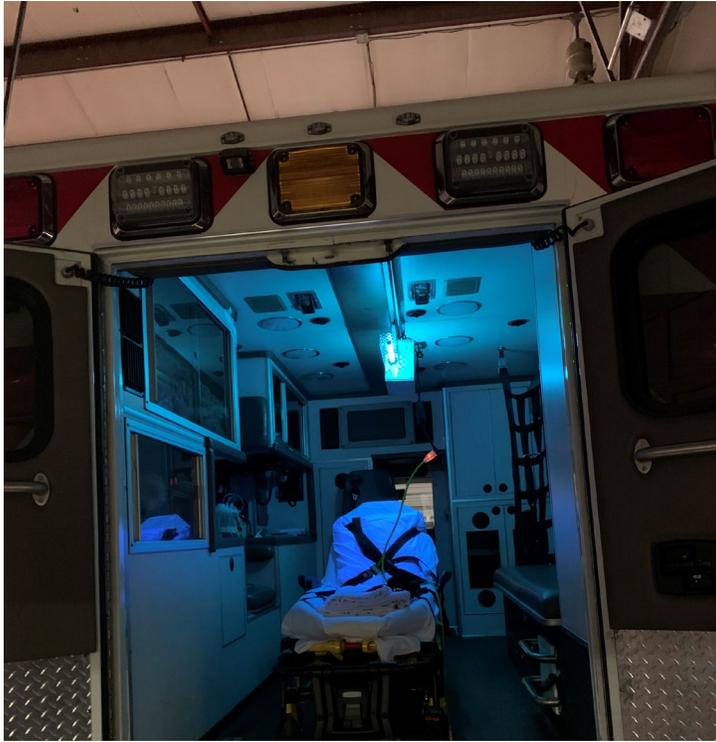


Clean 1000-  
sanitize larger areas quicker- excellent for dining rooms and guest rooms – lamps  
are low to the ground for coverage under furniture

# SANI-AIR —

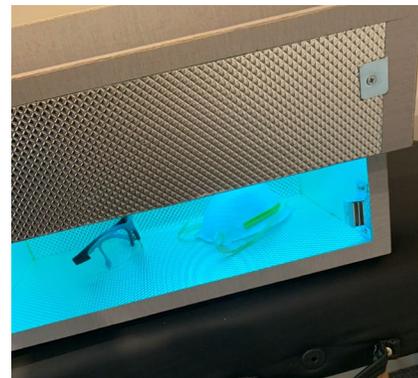
Airborne pathogen reduction device for large areas - safe to run 24-7 — continuous air circulation



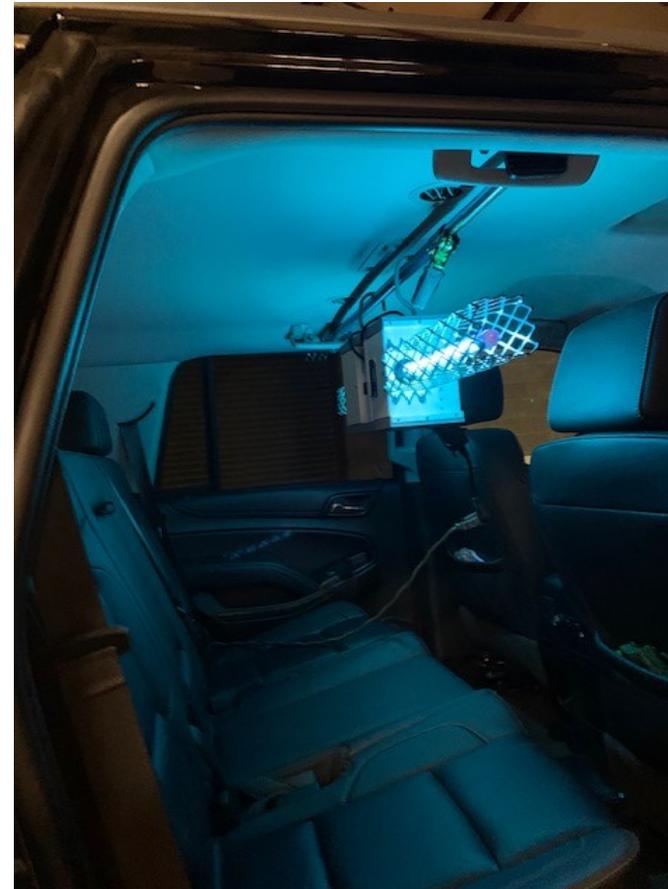
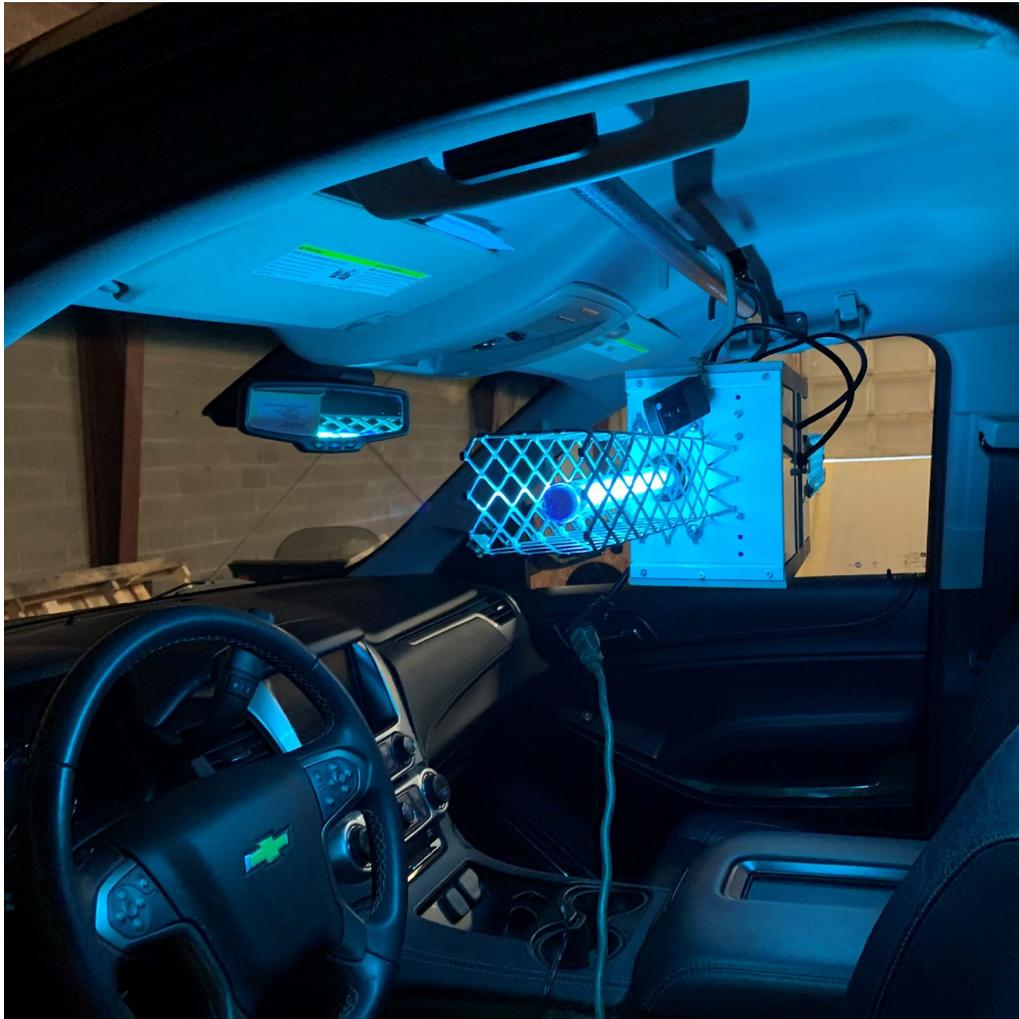


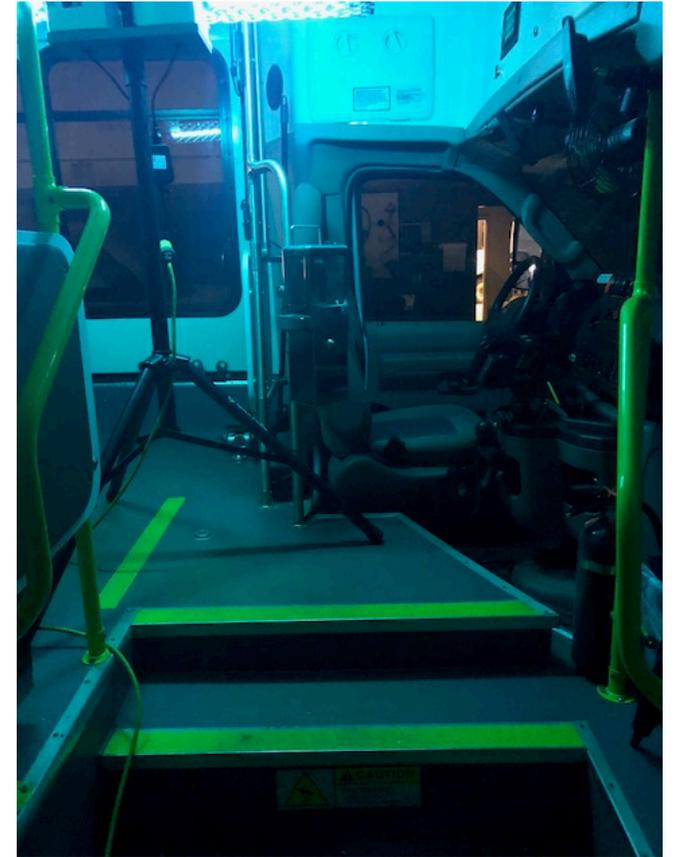
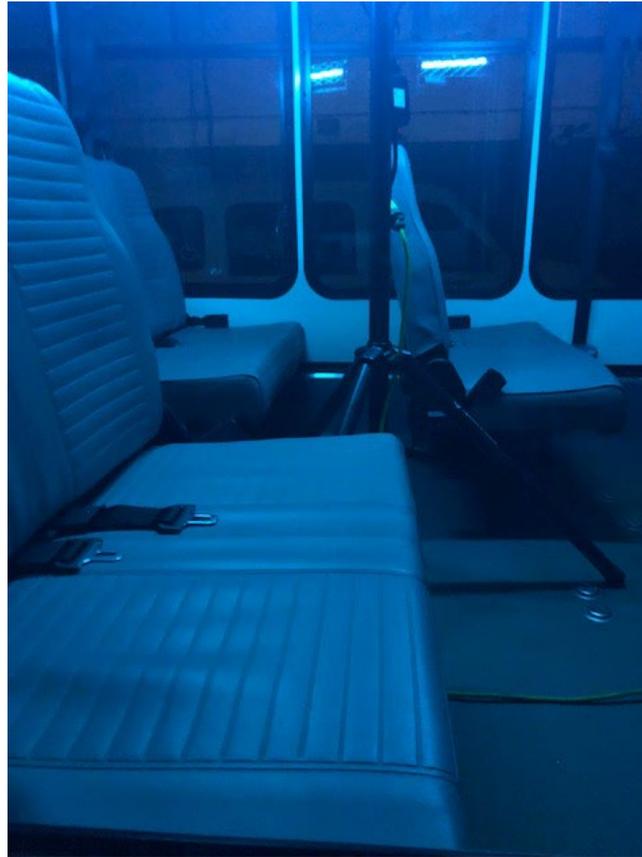
2UVC15 system for small spaces  
hanging in an ambulance & used for small room sanitation

**UVC  
Sanitation  
Box  
Sanitizing  
area  
dimensions  
16"l x 9.5"w  
x 4.5"h**



# 2UVC15 for sanitizing vehicle interior





2UVC15 system for small spaces-  
hanging in an ambulance and used in transit vehicles

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With customer requests, we are expanding our UVC product line to provide our customers with quick, effective sanitation options for their businesses

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We welcome your input. Please let us know your thoughts and we will run the math to customize options that will work for your sanitation needs.

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*There are mathematical formulas that must be run to determine sanitation times that account for the specifics of the lamps, the distance to the light and the area to be sanitized.*



We are here to help you keep your operations running smoothly with quick sanitation options between patrons

Contact us for more information

Linda Bommarito

989-792-6110

800-556-3201

989-280-3994 cell

[linda@hex-lighting.com](mailto:linda@hex-lighting.com)



## About UVC

### UVC versus chemical disinfectants, gaseous, germicides

Pathogens quickly develop new strains that are immune to chemical germicidal solutions. Ultraviolet photons destroy and alter the DNA of the pathogen thereby preventing any new strains from developing.

Did you know that UVC stand-alone, mobile, upright sanitizers can reduce virus load for any airborne or surface pathogens in minutes saving time and labor?

UVC germicidal room sanitation devices are the new must use between guests. Stop the cross contamination after each use of a room - air, surface, floor, chairs, and tables in a few minutes to protect the next guests from any possible contamination.

### Cleaning by hand versus UVC sanitization

Hand wiping the surfaces alone may not be enough protection for your staff and guests. Airborne pathogens and viruses cannot be controlled by any hand wiping with chemicals. Normal cleaning procedures can be easily supplemented with UVC sanitation.

### Fact check

When the airborne pathogen quantity is lowered, the risk of contracting viruses is lowered. UVC at 254 nm non ozone producing light can destroy pathogens in seconds. Most viruses are transmitted through aerosols in the air.

### Ultraviolet-C producing germicidal devices can be divided into the following groups based on the areas that they sanitize

- Surface disinfection/sanitizing devices
- Airborne pathogen reduction devices
- Combination of Airborne pathogen as well as surface disinfection devices

### Airborne virus load-reducing devices that are used while no human is exposed to the adverse effects of UVC light

Sani-Air 1200 forced air circulation device (UVC lights area inside an enclosed cabinet). The mobile cabinet can be located anywhere within your business to reduce the air borne pathogen count by recirculating the UVC treated air at least 5 times/hour. This system can

be run with people present; there is no risk of injury to guests while your business reduces the risk of any airborne pathogens.

### Airborne virus reduction as well as floor, wall, and surface sanitizing with caster based mobile upright UVC devices

To be used only when there are no humans or animals present to sanitize air and surfaces. The devices are equipped for the security of the users with multiple motion sensors to shut off the device in the presence of any motion. The devices all have a preset off control that allows the user to set the timing and leave the room without any exposure.

Clean 500 mobile UVC device can sanitize any room of 20 feet by 20 feet in minutes.

Clean 1000 mobile UVC device has 65" long vertical lamps to illuminate the under sides of tables and chairs. The device is equipped with patent pending floor UVC sanitizer to cover the floor underneath the pedestal.

The handheld high power UVC wands of different lengths have a controlled exposure area to protect the user. The smaller wands are used mainly for surface sanitization of corners, doors, handles, toilets, faucets, tablets, menus etc.

The wands can also be mounted on a Wi-Fi controlled outlet to be used when no humans are present either hanging from the ceiling or wall or the wands can sit upright vertically on its balanced supports.

**Note:** Space 500 and Space 1000 models cannot be operated while humans are present.



