



# ULTRAVIOLET SANITIZING EQUIPMENTS

99.99% DISINFECTION  
GUARANTEED

QAMSCO

# INTRODUCTION

With the ongoing COVID 19 crisis and the need to have a Clean and Hygienic Environment has become a necessity for one and all.

The latest study and research with regards to COVID 19 Virus indicates that the virus can stay alive on a surface for up to 3 days . The need to ensure that a surface is effectively sanitized and free from virus has become a challenge to one and all.

Keeping this in mind we introduce our range of Sanitizing Equipment's in collaboration with HANSA ENTERPRISES INDIA (a 25 year old company pioneered in manufacturing various other equipment's using Ultra Violet Technology) which uses Ultraviolet Germicidal Irradiation (UVGI Technology) that can be used to Sanitize and Effectively eradicate (99.99 %) Virus/ Bacteria/ Pathogen prone areas.

## WHAT IS ULTRAVIOLET GERMICIDAL IRRADIATION (UVGI) ?

UVGI is a disinfection method that uses short-wavelength Ultraviolet Light (Ultraviolet C or otherwise called UVC) to kill or inactivate microorganisms by destroying nucleic acids and disrupting their DNA, leaving them unable to perform vital cellular functions and multiply . The application of UVGI to disinfection has been an accepted practice since the mid-20th century. It has been used primarily in Medical Sanitization and Sterile Work facilities.

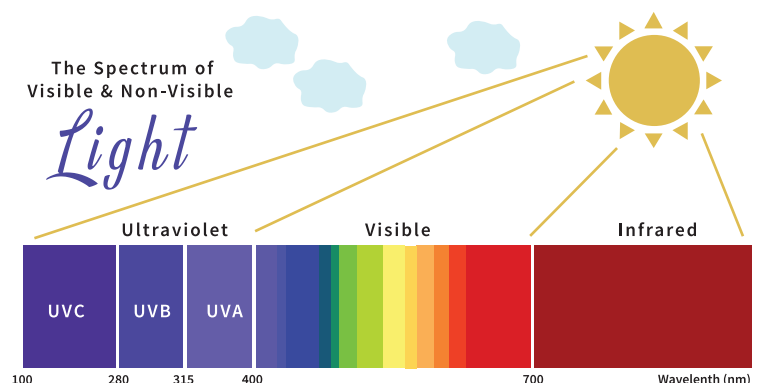
A brief description on how the UVC Technology works in Germicidal Eradication, its Pros & Cons and Care to be taken while operating the equipment is explained below.

## WHAT IS ULTRAVIOLET LIGHT ?

Ultraviolet (UV) is that part of electromagnetic light bounded by the lower wavelength extreme of the visible spectrum and the X-ray radiation band. The spectral range of UV light is, by definition between 100 and 400 nm (1 nm=10<sup>-9</sup>m) and is invisible to human eyes.

Using the CIE classification, the UV spectrum is subdivided into three bands:

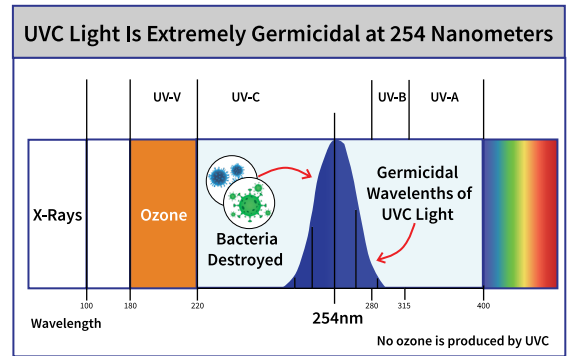
1. **UVA** (long-wave) from 315 to 400 nm
2. **UVB** (medium wave) from 280 to 315 nm
3. **UVC** (short-wave) from 100 to 280 nm



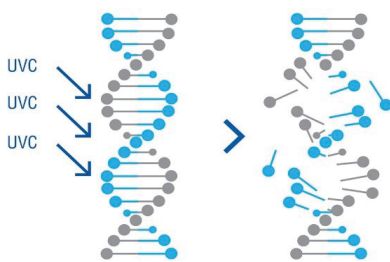


UVC is totally absorbed by atmospheric ozone, has minimal penetration to the surface of the Earth and thus has little effect on human health. 90% or more of UVB is absorbed by atmospheric ozone, while UVA passes through the atmosphere with little change. Thus, the solar ultraviolet radiation of importance to human health consists of UVA and UVB. However, UVC can be created artificially by various means.

Research has proven that a strong Germicidal Effect is provided by the Light in the short-wave UVC band with its peak in Germicidal Efficiency at 254 Nm and this is the reason why UVC Technology is now being used worldwide to sanitize and eradicate disease causing Viruses, Bacteria's & Pathogens.



## HOW DOES UVC LIGHT DESTROY GERMS?



The high energy from short wavelength UVC light is absorbed in the cellular RNA and DNA, damaging nucleic acids and preventing microorganisms from infecting and reproducing. This results in virus inactivation, such that they are no longer able to mutate and multiply.

## WHY UVC?

Unlike other Sanitization / Disinfection methods **UVC Light has the capability of eradicating 99.99 % of the Viruses.**

**UVC** Light acts as a Lethal Weapon in eradicating Viruses & Bacteria and studies show that UVC radiation has been found to very effective in eradicating viruses in the Coronavirus family (SARS Cov, MERS Cov and even COID 19)

## ADVANTAGES & DISADVANTAGES OF UVC TECHNOLOGY

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• It is easy and convenient to use and no chemicals are needed. Therefore, you won't leave any chemical residue behind</li> <li>• It is able to kill all kinds of Microorganisms, including Drug-Resistant Bacteria, Fungi, Viruses and Spores .</li> <li>• UVC Germicidal Lamps have a life span of 5000- 7000 Hours, recurring cost of Expensive Chemicals and Disinfectants can be avoided</li> <li>• Sanitization / Disinfectant Treatment time is much lesser than the normal conventional methods used</li> <li>• It is able to sanitize hard to reach areas which is normally avoided by cleaning personnel</li> </ul> | <ul style="list-style-type: none"> <li>• UVC Light exposure is dangerous to humans. Precautions must be taken to avoid direct exposure to UVC Light, especially skin and eyes.</li> <li>• UVC Germicidal Eradication only works in its light path and can be blocked by objects.</li> </ul> |
|--|---|

## UVGI SANITIZING EQUIPMENT'S OFFERED

Considering the various areas this Technology can be used to eradicate Virus and other disease causing microorganisms, we have developed 3 different models from a Basic to Professional range for our customers to choose from and they are;

### 1. UVC VIRO KILL TOWER

### 2. UVC VIRO BAN

### 3. UVC VIRO CRUSHER

## UVC VIRO KILL (STAND ALONE TOWER UNIT)

### MODEL TYPE – Stand Alone Unit

Provided with wheels so that it can be moved from one room to another with ease

### FEATURES

- 3 Powerful UVC Germicidal Lamps , Lamp Rotation possible with an inbuilt Motor to have a 360° Coverage , Reflectors provided to increase the spread of UVC Light, Operated with a Timer Switch – the unit will switch on after 1 min after switching it to On Position this will provide sufficient time for the operator to vacate the room ,In built Motion Sensor which shuts off the unit if an individual steps into the room while the unit is operational.
- UV Lamp Life – 6500 Hours
- UV Treatment Time – For a 12 x 12 Sqm room for effective sanitization for 99.99% Germicidal Eradication - 15-30 Min.
- UV Lamp Make – European
- Electrically operated 230v Ac

### USEABLE AREAS

- Small Office Rooms
- Dental Clinics
- Clinical Treatment Rooms
- Hotel Rooms
- School / College Classrooms
- Library
- Canteens
- Saloons
- Spa Treatment Rooms
- Home Use – Bed Rooms
- Majlis
- Dining Rooms etc



## UVC VIRO BAN

### MODEL TYPE - Battery Operated Mobile Unit (Cordless Unit)

#### FEATURES

• Battery Operated Mobile Unit. 6 Powerful UVC Germicidal Lamps. UV Lamps on Tray with 3 different adjustable positions ( 30°, 60° & 90° angle) and also Motorized up and down movement of the Tray in order to facilitate sanitization of the most difficult areas. 2 Lamps at the base to Sanitize the floor while the unit is in motion. 2 Additional Lamps on either side to sanitize long corridors while the unit is in motion. Rechargeable Battery with up to 2 hours continuous operation once fully charged.

- No of UV Lamps – 6 Nos
- UV Lamp Life – 5000 - 7000 Hours
- UV Treatment Time – 5-15 Min
- UV Lamp Make – European

#### USEABLE AREAS

- Hospital In Patient Rooms
- Large Treatment Rooms
- Quarantine Rooms
- Large Offices
- Religious Centers
- Restaurants
- Hotel Rooms
- Classrooms
- Fitness Centers
- Spas
- Saloons
- Large Majlis





## UVC VIRO CRUSHER

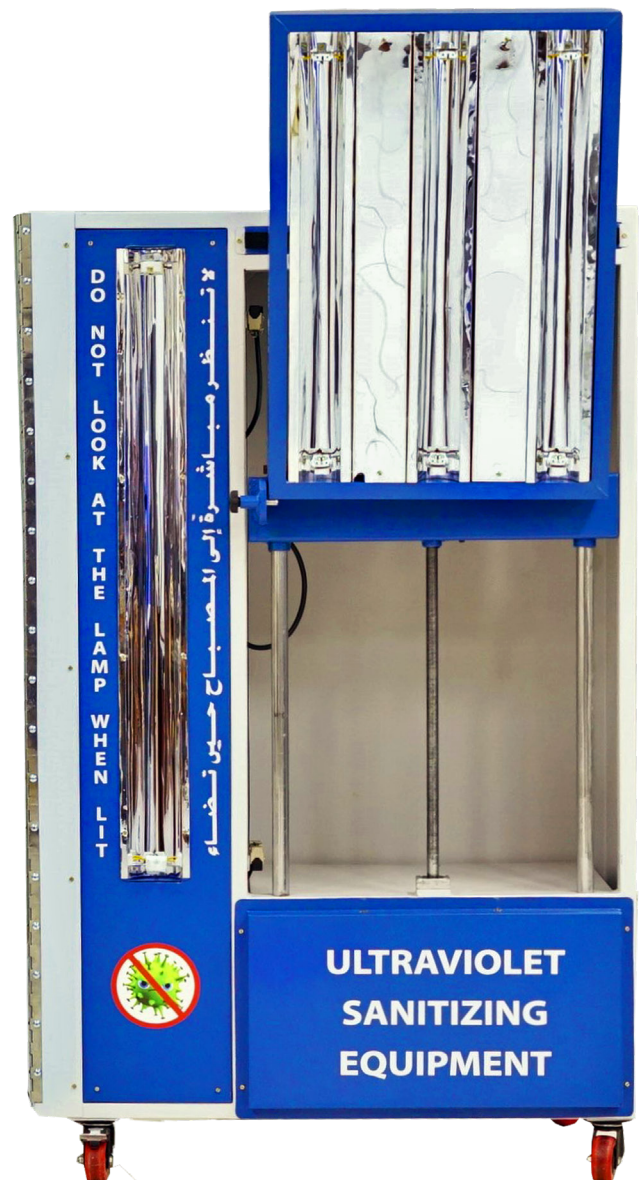
### MODEL TYPE - Heavy Duty Industrial Unit

#### FEATURES

- Electrically Operated Mobile Unit. 9 Powerful UVC Germicidal Lamps. 6 UV Lamps on Tray (3 on Top and 3 at the Bottom) with 3 different adjustable positions (30°, 60° & 90° angle) and also Motorized up and down movement of the Tray in order to facilitate sanitization of the most difficult areas. 2 Lamps at the base to Sanitize the floor while the unit is in motion.
- No of UV Lamps – 9 Nos
- UV Lamp Life – 5000 - 7000 Hours
- UV Treatment Time – 5-15 Min
- UV Lamp Make – European

#### USEABLE AREAS

- Hospital Lobbies
- Hotel lobby
- Large Operation Theatres
- Large Treatment Rooms
- Large Offices
- Religious Centers
- Large Restaurants
- Large Majlis
- School Auditorium
- Conference Halls
- Wedding Halls etc..



FEEL FREE TO CONTACT US FOR ANY ENQUIRY

# QAMSCO

*A Company You Can Count On*

OFFICE NO 44, BUILDING NO 5  
BARWA VILLAGE  
WAKRAH

TEL: (+974) 40378917  
FAX: (+974) 40378960  
MOBILE: (+974) 55854338  
EMAIL: [info@qamso.com](mailto:info@qamso.com)  
WEB: [www.qamsco.com](http://www.qamsco.com)

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