



**GERMCLEAN™ 1000 SERIES UVC
SANITIZATION SYSTEMS**

Empowering New Normal Disinfection Technology
for Hospitality Industry

INTRODUCTION

What is UV disinfection?

UV disinfection is the use of ultraviolet light to kill infectious bacteria, viruses, and fungi. While modern techniques have not always been in use, the effect of UV light on infectious microbes has been known and studied for more than 100 years. Arguably, the most important benefit of UV light disinfection is that it's non-toxic. Unlike harsh chemicals that are sometimes used in cleaning and sanitization products, UV light is environmentally friendly. UV light disinfection is a physical process, not a chemical one.

How does UV disinfection work?

UV light operates at a shorter wavelength than all visible light. The UV wavelength can penetrate viruses, bacteria, and other infectious particles and cause physical destruction. The destruction of these particles renders them unable to infect and therefore disinfects the surface, liquid, or air where they were living.

UV-C wavelengths (200 to 280 nm) are readily absorbed by the DNA and RNA of microorganisms. When absorbed, UVGI damages the structure of the DNA by forming thymine dimers, which prevent the microorganism from replicating. In simpler terms, microorganisms replicate by copying their DNA, and UVGI damage to the DNA makes it so the microorganism can no longer replicate, nor perform vital cellular functions. The magnitude of reduction of microorganisms is directly related to their resistance to UVGI and the quantity of UVGI energy delivered.

How effective is it as an UV disinfectant?

A UV disinfectant takes less than five minutes to clean and sanitize most items. During this time, they can damage 99.99% of microbes on the surface of an object. These devices are up to 1000 times more effective than existing forms of sanitization.

UV disinfectants have been used as sanitizers for years. While earlier their use was limited to hospitals and spas, they are now becoming popular in hotels. They are quickly becoming the fastest and most efficient way of disinfecting hotel guestrooms.

Why use UV sterilization?

UV sterilization is not a new technology, having been discovered in 1879. Discovered to be a useful technology for cleaning infectious spaces.

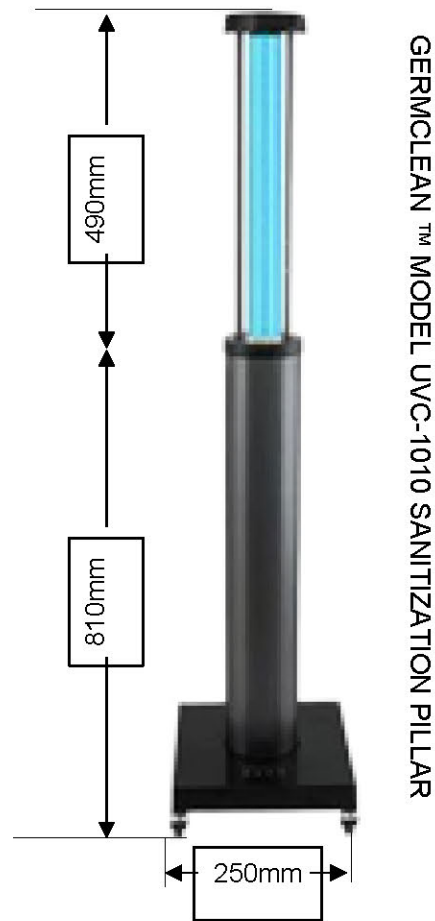
The use of UV sterilization, or ultraviolet germicidal irradiation, has been found to be extremely effective. Sources of UV sterilization can kill over 99% of viruses, bacteria, and fungi in an extremely short amount of time. Due to this effectiveness, various types of UV treatments and specialized UV devices for sterilization have been developed.



ADVANTAGES OF UVC SANITIZATION

- **No Chemical Residue**
UV has no addition of chemicals that may affect taste, odor and color or that are there have to be purified again later on.
- **Eco Friendly**
UV is environmentally friendly. In principle, no harmful intermediates arise and only cost energy.
- **Safe**
UV does not create carcinogenic disinfection by-products.
- **Efficiency**
UV light has many application areas and is an effective disinfection process.
- **Fast & Ease-of-Maintenance**
UV light works quick, safe and is easy to use and maintain.
- **Remove Bacteria, Microbes, Spores & Viruses**
Ability to inactivate bacteria, microbes, spores and viruses.
- **Cost Saving-Low Operational Cost**
Unlike chemical disinfection, UV light has low energy and no recurring cost.





With Timer & Remote Control & Proximity Radar Sensor

GERM CLEAN™ UV-C Model UVC-1010 Room Sanitization Pillar is suitable for area within 55-80 sqm such as hotel guestroom, bedroom and other equivalent space. The product provides 15min rapid sterilization and disinfection.

SPECIFICATIONS

FUNCTION	SPECIFICATIONS	
Rated Power	150W	200W
Rated Voltage	110V/220V	110V/220V
Application Area	55-65 m ²	70-80 m ²
Irradiance	380μw/cm ²	410μw/cm ²
Lamp Life	500 Hour	5000 Hour
Timer Option	Remote, Button, Radar Sensor	Remote, Button, Radar Sensor
Retracted Dimension	250*250*810mm	250*250*1300mm
Expanded Dimension	250*250*1300mm	
Weight	4.8Kg	4.8Kg
Packaging Dimension	310*310*720/840mm	310*310*720/840mm





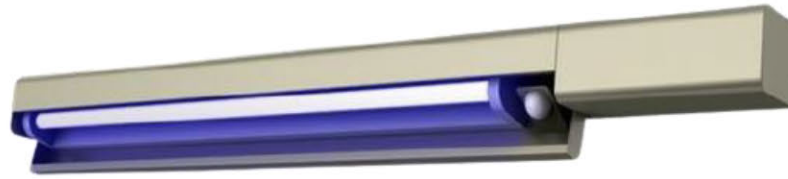
GERMCLEAN™ MODEL UVC-1011 AIR PURIFICATION TUNNEL

GERMCLEAN™ UV-C Model UVC-1011 Air Sanitization Tunnel enables Human and machine coexistence. UV internal irradiation. After the air enters the equipment to disinfect, then comes out, realizes the circulation disinfection. This is a low cost to achieve the purpose of air disinfection purification.

SPECIFICATIONS

FUNCTION	SPECIFICATIONS
Rated Voltage	110V/220V
Light Power	Power Round (36W Philips) / Square (36W) UV
UV Intensity	140μw/cm ²
Rated Current	0.5A±10
UV Wavelength	253.7nm
Tube Life	8000 Hour
Rotating Speed	3000RPM±10%
Air Volume	66m ³ /h
Fan Size	80*80*25mm
Application Area	≤40m ²





GERMCLEAN™ UV-C Model UVC-1012 Wall-Mount Sanitization -Working State



GERMCLEAN™ UV-C Model UVC-1012 Wall-Mount Sanitization -Stop State

With App Control & Infrared Sensor

GERMCLEAN™ MODEL UVC-1012 UVC SANITIZATION LAMP

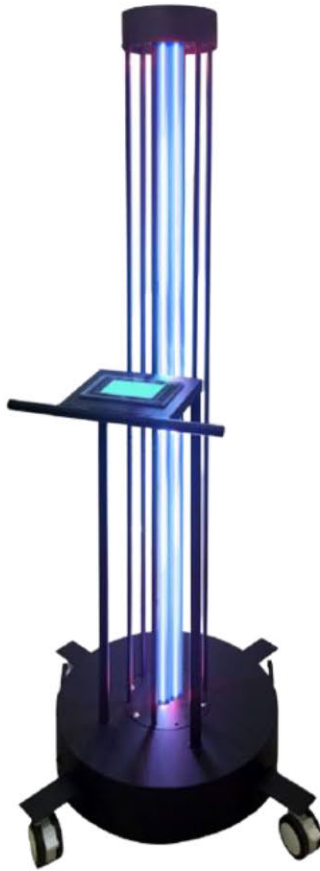
GERMCLEAN™ UV-C Model UVC-1012 Wall-Mount Sanitization lamp automatically open / close the lampshade, intelligently detect the space environment, turn on the UV lamp when there are no people or animals, sterilize for 30 minutes (custom time), and turn off immediately when there are people.

Highly effective for small space like elevator, store room, luggage room, laundry room, lobby toilet, etc.

SPECIFICATIONS

FUNCTION	SPECIFICATIONS
Machine Power Consumption	≤30W
UV Tube Power	20W/25W
Motor Power	≤15W
UV Wavelength	253.7nm
Tube Life	8000 Hours
UV Intensity	90.2μw/c m ²
Antivirus Range	20m ² -30m ²
Air Volume	66m ³ /h
Human Detection Distance	0.5-4m
Speaker	4Q1.5W





GERMCLEAN™ MODEL UVC-1013 360° UVC SANITIZATION BLASTER

With Timer & Infrared Sensor & Touch Screen

GERMCLEAN™ model UVC-1013 360° UV-C Sanitization Blaster can kill up to 99.9% of bacteria, viruses, mold spores, yeasts, and other harmful microorganisms in an enclosed space. Suitable for larger area such as corridor, conference room, restaurant, bar, waiting lounge, lobby, etc.

SPECIFICATIONS

FUNCTION	SPECIFICATIONS
Rated Power	325W x 2 (Phillip) = 650W
Current	3.5A
UV Wavelength	253.7nm
UV Intensity	1350μw/cm ²
Rated Voltage	110V/220V
Light Source Power	325W
Lamp Life	12000 Hours
Application Area	≤100m ²
Color	Black
Product Size	600*600*1900mm





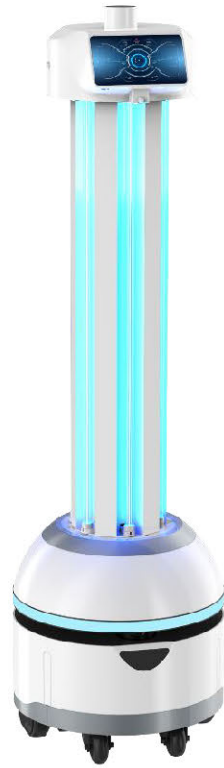
GERMCLEAN™ MODEL UVC-3014 HIGH POWER SANITIZATION MACHINE

GERMCLEAN™ model UVC-1014 UV-C High Power Sanitization Machine uses 1000W UVC microwave ultraviolet disinfection lamp, sterilization rate can reach 99.9% within 10 minutes. Highly effective for hotel lobby, convention center, casino and large spaces.

SPECIFICATIONS

FUNCTION	SPECIFICATIONS	
Rated Power	≤1280W (15 Tubes)	≤1600W (15 Tubes)
Rated Voltage	110V/220V	110V/220V
UV Wavelength	253.7nm	253.7nm
Application Area	30-150m ²	30-150m ²
Product Size	1060*320*1350mm	1170*340*1410mm
Lamp Life	30000 Hours	50000 Hours
Noise	≤55dB(A)	≤55dB(A)
Others	With Timer	With Timer & Motion Sensor





- Timed disinfection, custom disinfection route, automatic return to base for charging
- Remote navigation
- Infrared human body proximity sensing

GERMCLEAN™ MODEL UVC-1015 SMART SANITIZATION ROBOT

SPECIFICATIONS

FUNCTION	SPECIFICATIONS
Rated Power	110V/220V
Operating System	Android(5.1)
Processor Type	RK3128 RAM LPDDR3:1G Built-in NAND FLASH: 8GB USB Debugging Port: Micro USB 2.0 Interface Power Button: One-key Boot Display Screen: 7 Inches, IPS Screen (16:9) Speaker: 4Ω/3W Mono Speaker
Function	Timed disinfection/customized disinfection route/automatically return to charge/remote navigation deployment
Lamp Tube	Phillip TUV T8
No. of Tube	30W*6
Length of UV Lamp	90cm
Tube Life	8000 Hours
Motor Driven	5.5 Inch Hub Motor
Lidar	20m
Type of Battery	10S16P Capacity 20800 mAh/37V
Battery Life	1.5-2.0 Hours
Charging Method	Automatic Recharge/Direct Charge
Product Measurement	450*450*1462mm
Application Area	Hotel lobby, convention room, corridor, public area, casino & large spaces

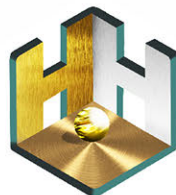
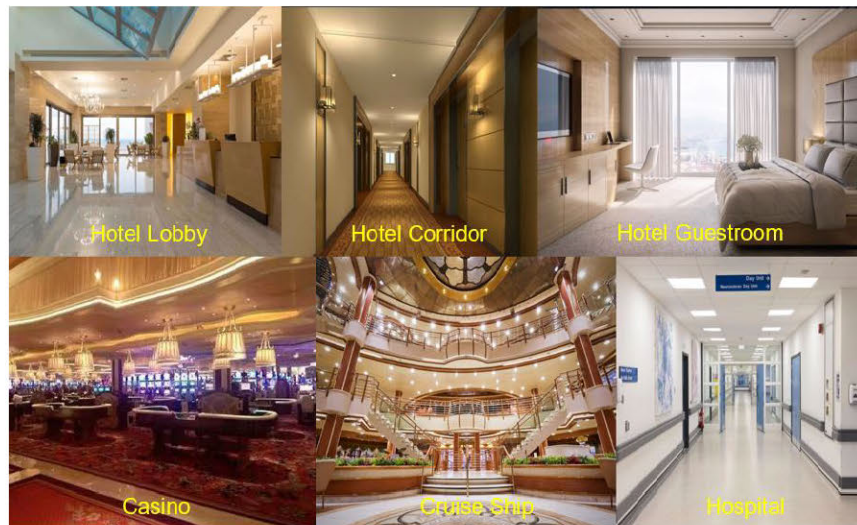


GERMCLEAN™ MODEL UVC-1015 UV-C SMART SANITIZATION ROBOT HIGHLIGHTS

- Intelligent design (cruise + return)
- Ultraviolet disinfection
- Efficient & reliable
- Two modes - attendance & fixed point
- MA-certified with up to 8,000 hours of lifespan
- 6Pcs 30W Philips ultraviolet lamps for 360-degree disinfection
- Facial recognition, body temperature & thermal imager
- Voice alarm (Option)
- Smart & safe navigation with 3D obstacle avoidance (1m)
- Laser radar with max 40m scanning range (auto navigation)
- Remote wireless transmission
- Automatically returns for charging
- Other than hotels, also suitable for schools, airports, offices, hospitals, shopping malls and other large spaces.

APPLICATION AREAS

- Hotels
- Motels
- Casinos
- Homestays
- Service Apartment
- Senior Citizen Condotels
- Hospitals
- Guest Houses
- Condominiums
- Wellness Centers
- Cruise Ships
- Dormitories
- Schools
- Department Stores
- Banks
- Public Areas



**HARLE HOSPITALITY
EQUIPMENT PHILS., INC.**

Unit 408 SEDCCO1 Bldg., 120 Rada corner Legazpi Sts.
Legazpi Village, Makati City 1229, Philippines
Tel. No. (632) 8892-8989 Fax No. (632) 8892-1688
E-Mail: sales@harlephils.com

www.harlephils.com