NEW NORMAL

GERMCLEAN ™ UV-C SANITIZATION SOLUTIONS FOR HOSPITALITY, COMMERCIAL AND RESIDENTAIL PROPERTY

A New Normal Germicidal Solution
Intelligent Innovative | Powerful

NORMAL



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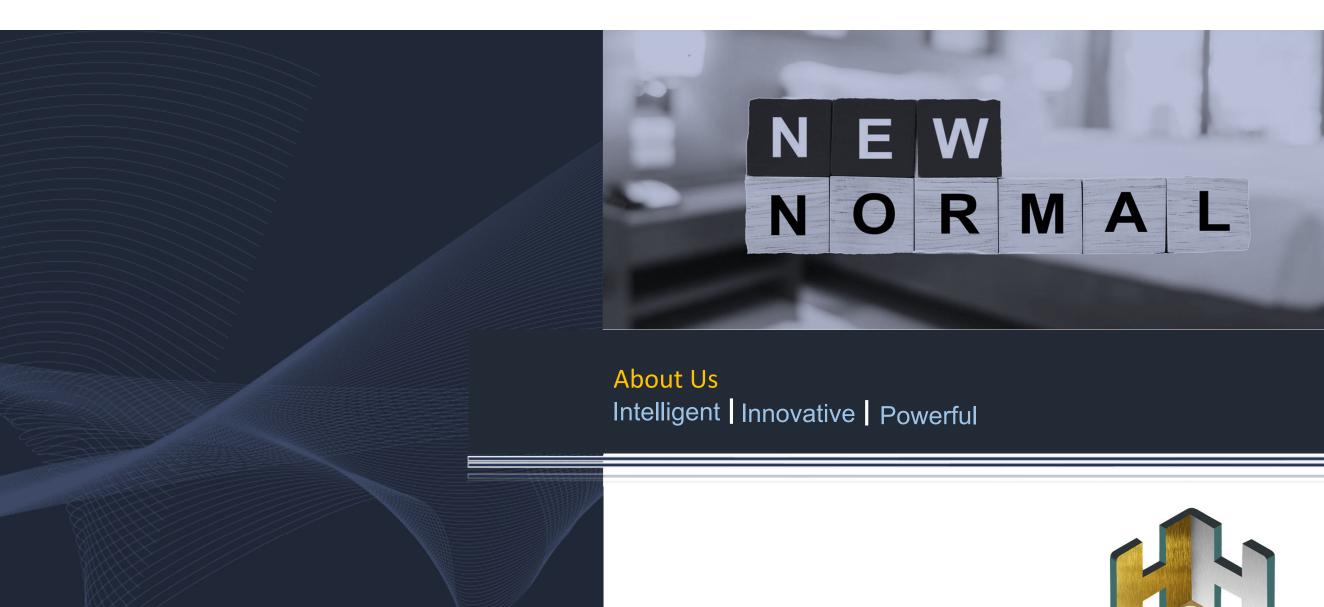
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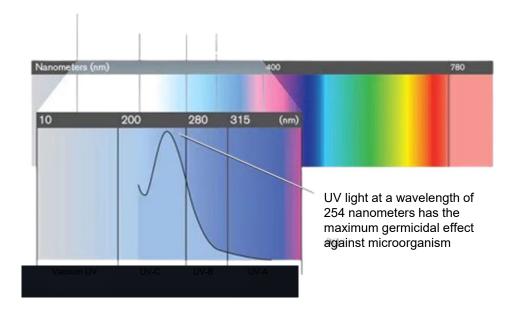
About Us

GUEST CONTROL SYSTEMS LIMITED was founded on a vision to innovate unique energy management & control solutions for the Hospitality Industry. GUEST CONTROL SYSTEMS LIMITED brings to its position as an advance energy management & control solutions design and development company a rich heritage of innovation and technological advancement. Today, GUEST CONTROL SYSTEMS LIMITED has moved well beyond the role of traditional solution development and has been focusing on creating total vertical industry applications and solutions that can help the vertical industry to reduce their capital expenditure, operation expenditure while improving their revenue by enhancing energy conservation, safety and improving performance. The result is a unique market niche highlighting the company's ability to offer its portfolio of applications and solutions at lower cost, increased reliability with value added advantages. GUEST CONTROL SYSTEMS LIMITED solutions are at works in thousands of hospitality and vertical enterprises extended across the globes including those prestigious fortune 500 companies. It is this level of experience and performance that has positioned the company in a place of prominence as it continues to expand its solutions portfolio to meet the challenging hospitality and vertical industry market needs.



Introduction

Ultraviolet (UV) light is a form of light that is invisible to the human eye. It occupies the portion of the electromagnetic spectrum between X-rays and visible light. A unique characteristic of UV light is that a specific range of its wavelengths, those between 200 and 300 nanometers (billionths of a meter), are categorized as germicidal. They are capable of inactivating microorganisms, such as bacteria, viruses and protozoa. This capability has allowed widespread adoption of UV light as an environmentally friendly, chemical-free, and highly effective way to clean infectious spaces. The use of ultraviolet germicidal irradiation, has been found to be extremely effective. It is an incredibly powerful disinfectant!

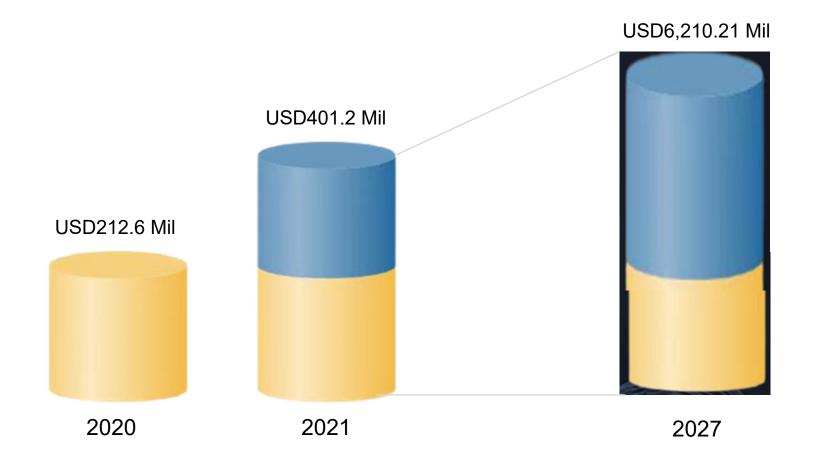






Global Market Forecast for Ultraviolet Germicidal Irradiation

Estimated market forecast to grow at CAGR of 12.3%







Highlights

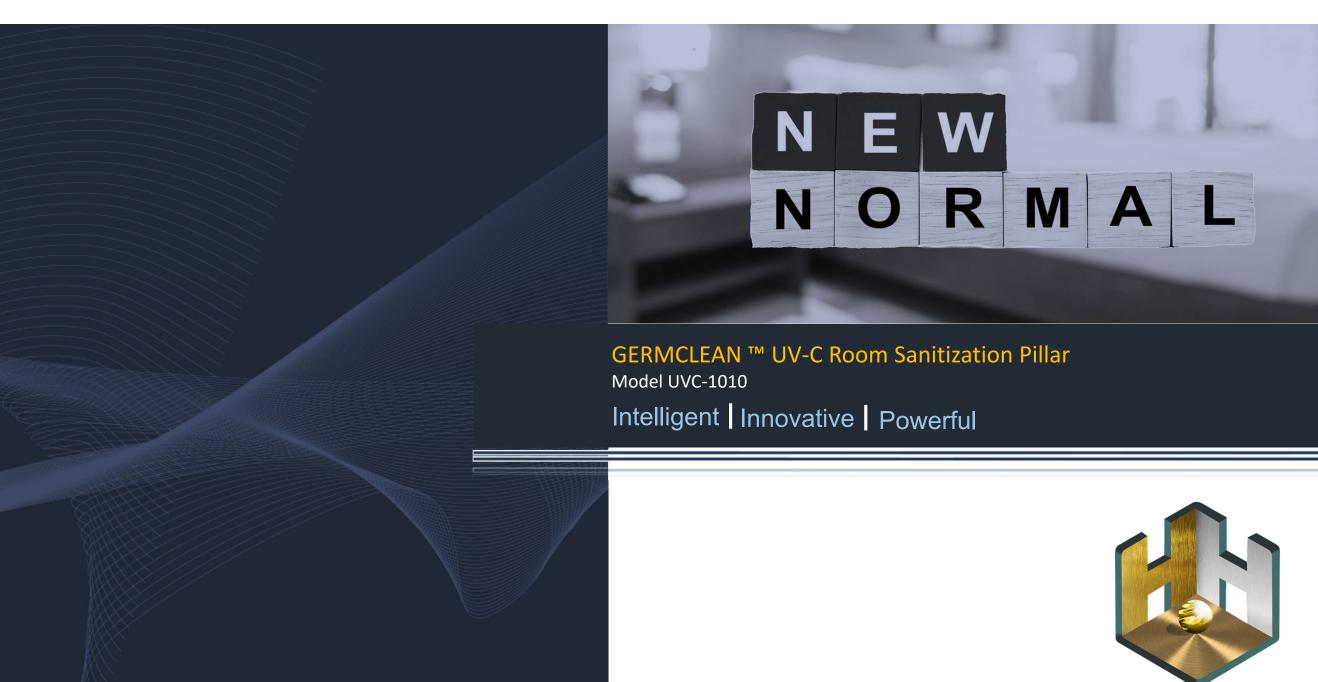
Is your hotel or property looking for a simple and highly effective way of disinfecting your guestrooms and other public areas without chemical, odor or side effect?

If yes, then you must have come across UV disinfectants. UV light is extremely effective in killing bacteria and viruses in the air and surfaces.

Re-conceptualize the industry available products with enhance features, GuestControl™ GERMCLEAN™ is the revolutionary germ killing weapon of the new normal for the hospitality industry. Using scientifically-proven technology, GERMCLEAN™ quickly and safely eliminates up to 99. 99 percent of surface pathogens.

GuestControl™ GERMCLEAN™ not only effective, it saves operational cost and reduce staff workload. It is a "must have" disinfection technology for the hospitality industry.





GERMCLEAN ™ UV-C Room Sanitization Pillar Model UVC-1010



With Timer & Remote Control & Proximity Radar Sensor

GERMCLEAN ™ 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.

Recommendation: 2-4 units per hotel floor



GERMCLEAN ™ Model UVC-1010UV-C Room Sanitization Pillar

Specifications

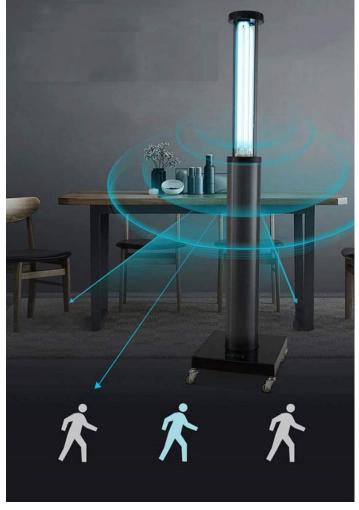
Rated Power	150W	200W		
Rated Voltage	110V/220V	110V/220V		
UV Wavelength	253.7nm	253.7nm		
Applicable Area	55-65ฑ์	70-80㎡		
Irradiance	380µw/cm²	410µw/cm²		
Lamp Life	5000h	5000h		
Timer Option	Remote, Button, Radar Sensor	Remote, Button, Radar Sensor		
Retracted Dimension	250*250*810mm	250*250*810mm		
Expanded Dimension	250*250*1300mm	250*250*1300mm		
Packaging Dimension	310*310*720/840mm	310*310*720/840mm		

Highlights:

- Easy to move around from room to room when need arises
- Proximity radar sensor-Switched off upon detecting human body



GERMCLEAN ™ Model UVC-1010UV-C Room Sanitization Pillar Other Details

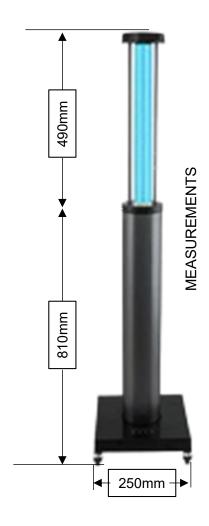


SECURITY MEASURES

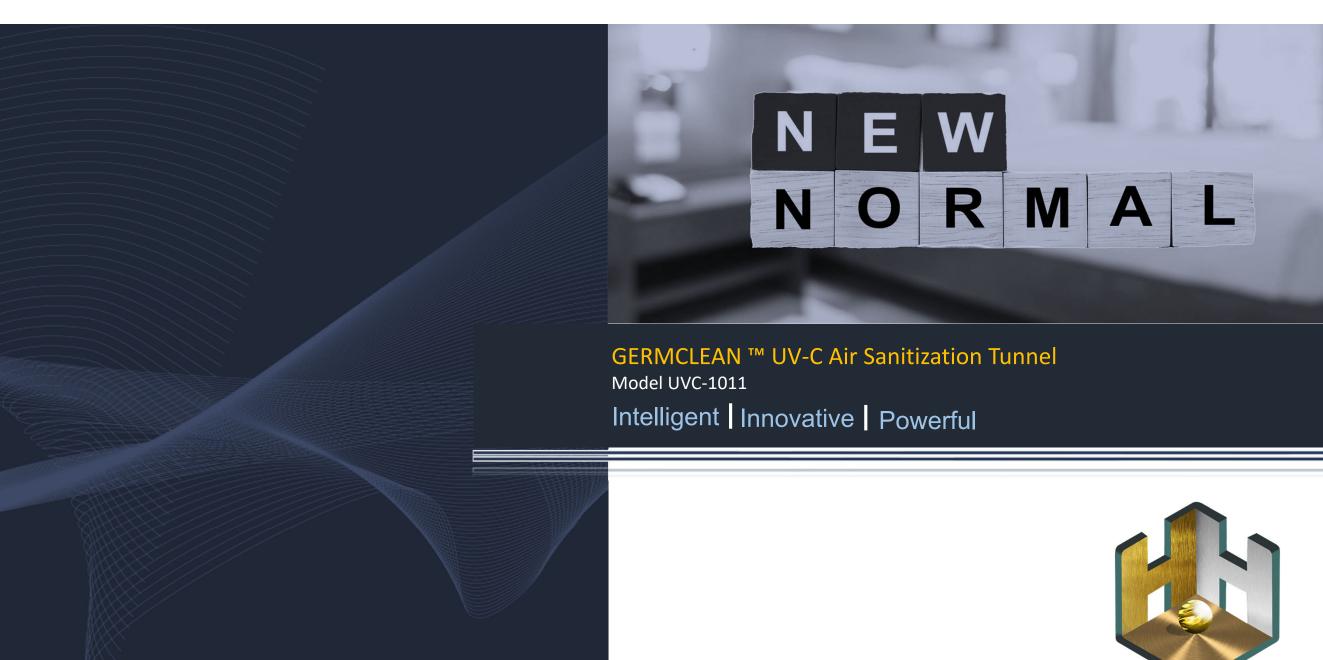


Do not affect people at a distance beyond 3-4 meters

Automatic switched off when people are 3-4 meter closer to the lamp Lamp will turn on when people move away 3-4 meter from the lamp









GERMCLEAN ™ UV-C Air Sanitization Tunnel Model UVC-1011



With Wireless Remote Control

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.

Low cost to achieve the purpose of air disinfection purification.

Recommendation: One unit per room



GERMCLEAN ™ Model UVC-1011 UV-C Air Sanitization Tunnel

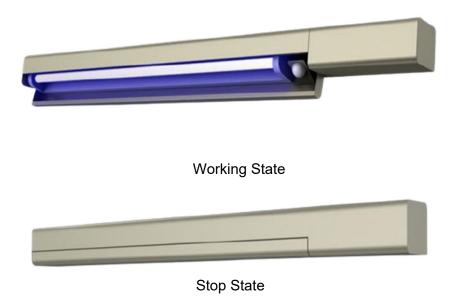
Specifications

Rated Voltage	110V/220V				
Light Power	Power Round (36W Philips) / Square (36W) UV				
UV Intensity	40μw/cm²				
Rated Current	0.5A±10%				
UV Wavelength	253.7nm				
Tube Life	8000h				
Rotating Speed	3000RPM±10%				
Air Volume	66m³/h				
Fan Size	80*80*25mm				
Application Area	≤40m²				





GERMCLEAN ™ UV-C Wall-Mount Sanitization lamp Model UVC-1012



With App Control & Infrared Sensor

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.



GERMCLEAN ™ UV-C Model UVC-1012 Wall-Mount Sanitization lamp Specifications

Voltage	110V/220V
Machine Power Consumption	≤30W
UV Tube Power	20W/25V
Motor Power	≤15W
UV Wavelength	253.7nm
Tube Life	8000h
UV Intensity	90.2μw/cm²
Antivirus Range	20m² -30m²
Human Detection Distance	0.5-4m
Speaker	4Ω1.5W



GERMCLEAN ™ UV-C Wall-Mount Sanitization lamp

Door Display Option



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



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



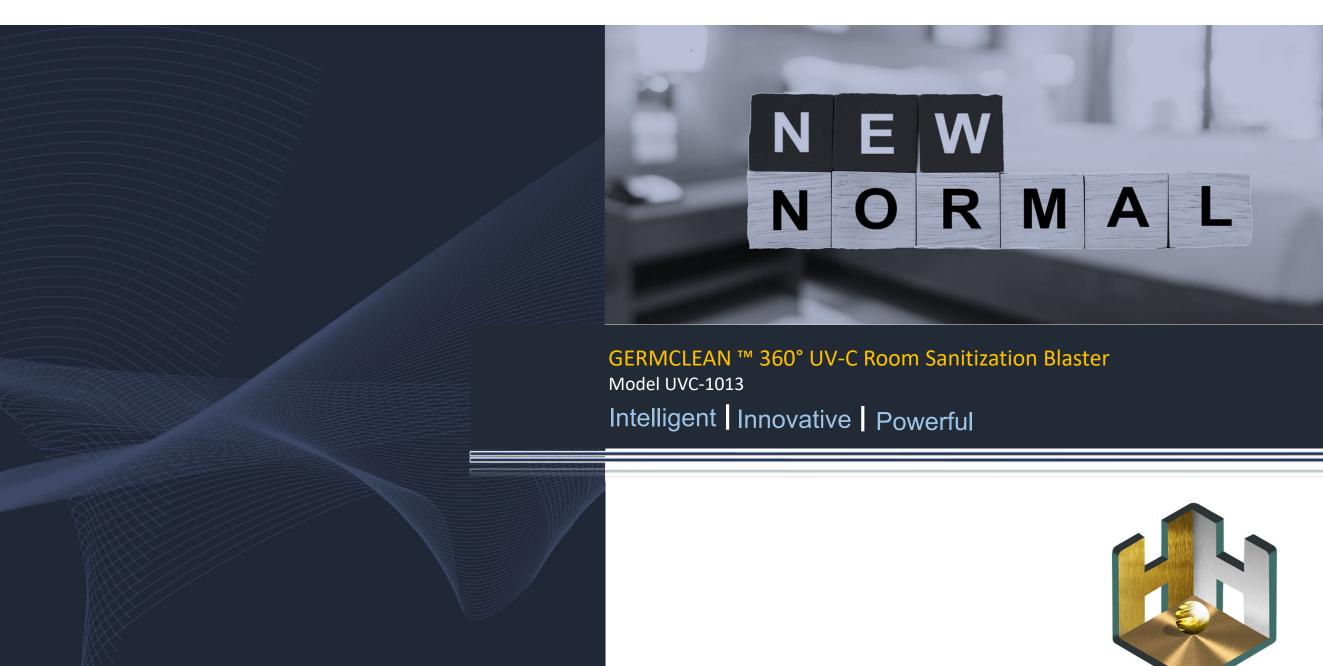




Luggage storage room

Laundry storage room

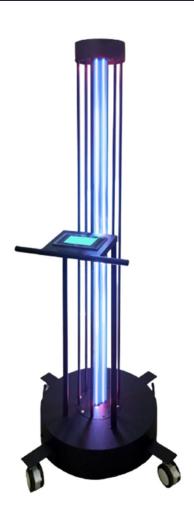






GERMCLEAN ™ 360°UV-C Sanitization Blaster

Model UVC-1013



With Timer, Infrared Sensor and 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.



GERMCLEAN ™ Model UVC-1013 360°UV-C Sanitization Blaster

Specifications

Rated Power	325W x 2 (Phillip) = 650W									
Current	3.5A									
UV Wavelength	253.7nn	253.7nm								
UV Intensity	1350µw	1350µw/cm²								
Rated Voltage	110V/22	110V/220V								
Light Source Power	325W									
Lamp Life	12000h									
Applicable Area	≤100m²									
Color	Black	Black								
Product Size	600*600*1900mm									
Sanitization Efficiency	15m²	20m²	25m²	30m²	35m²	40m²	45m²	50m²	55m²	60m²
Sanitization/Minute	10	13	16	18	20	22	25	26	29	30
Limit to length of room/meter	5.4 6.4 7.2 7.8 8.4 9.0 9.4 10.0 10.6 11.0									





GERMCLEAN ™ UV-C High Power Sanitization Machine

Model UVC-1014





GERMCLEAN ™ model UVC-1014 UV-C High Power Sanitization Machine uses 1000W UVC microwave ultraviolet disinfection lamp, sterilization rate can reaches 99.9% within 10 minutes.

Highly effective for hotel lobby, convention center, casino and large spaces.



GERMCLEAN ™ model UVC-1014 UV-C High Power Sanitization Machine Specifications

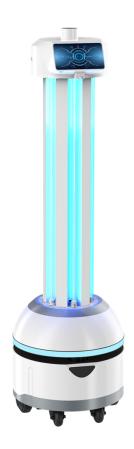
Rated Power	≤1280W (15 Tubes)	≤1600W (15 Tubes)		
Rated Voltage	110V/220V	110V/220V		
UV Wavelength	253.7nm	253.7nm		
Applicable Area	30-150m²	30-150m²		
Product Size	1060*320*1350mm	1170*340*1410mm		
Lamp Lifetime	30000h	50000h		
Noise	≤55dB(A)	≤55dB(A)		
Others	With Timer	With Timer & Motion Sensor		







GERMCLEAN ™ UV-C Smart Sanitization Robot Model UVC-1015



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

Disinfecting surfaces can be a long and tedious task, especially when trying to cover a large area. The GERMCLEAN ™ UV-C Model UVC-1015 Smart Sanitization Robot is designed to take this time-consuming task off your hands with its intelligent, convenient, and practical operation.

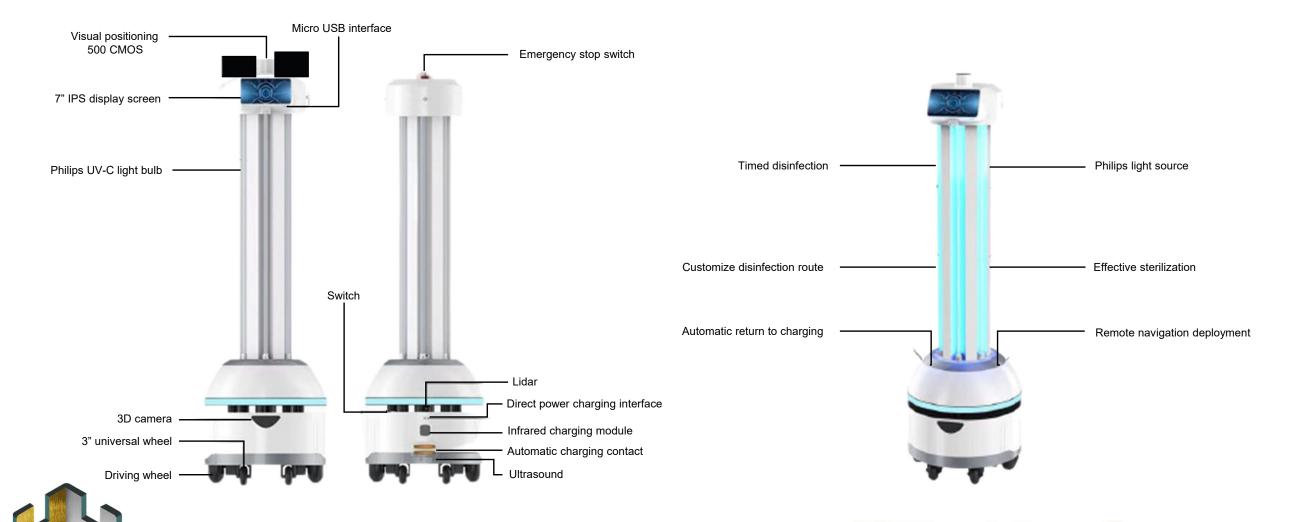
Suitable for hotel lobby, convention room, corridor, public area, casino & large spaces

Recommendation: 1-5 units per hotel depending on the hotel size



GERMCLEAN ™ UV-C Smart Sanitization Robot

Features & Functions





GERMCLEAN ™ Model UVC-1015 UV-C Disinfection Smart Sanitization Robot Specifications

Rated Power	180W (30W*6)
Rated Voltage	110V/220V
Operating System	Android(5.1)
Processor Type	RK3128 RAM LPDDDR3:1G 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
Lamp Life	8000h
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

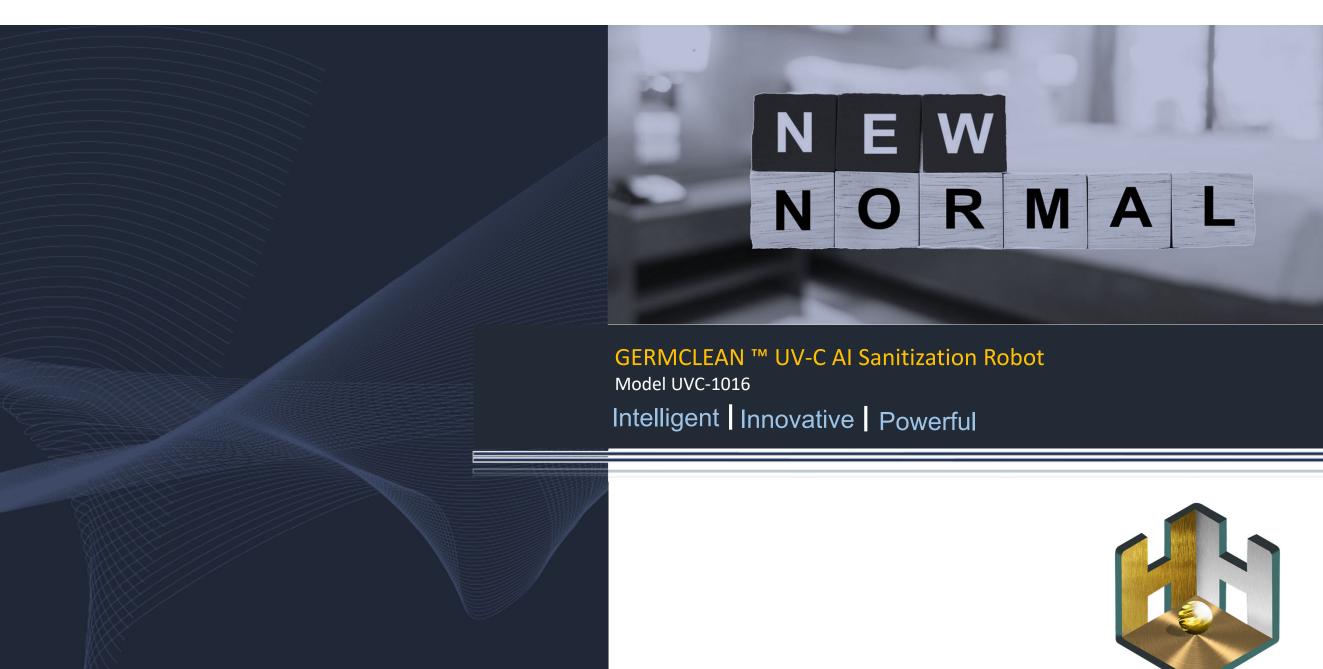


GERMCLEAN ™ Model UVC-1015 UV-C Smart Sanitization Robot

Advantages

- 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.







GERMCLEAN ™ UV-C AI Sanitization Robot

Model UVC-1016

Al Sanitization Robot is an efficient and environmentally friendly disinfection solution. As one of the most effective disinfection methods for COVID-19, the product has the advantages of high efficiency, broad-spectrum, thoroughness, odorless, and no secondary side effect. It can be used in hotels hospitals, nursing homes, schools, shopping malls, restaurants, subway cabins, and many other places.

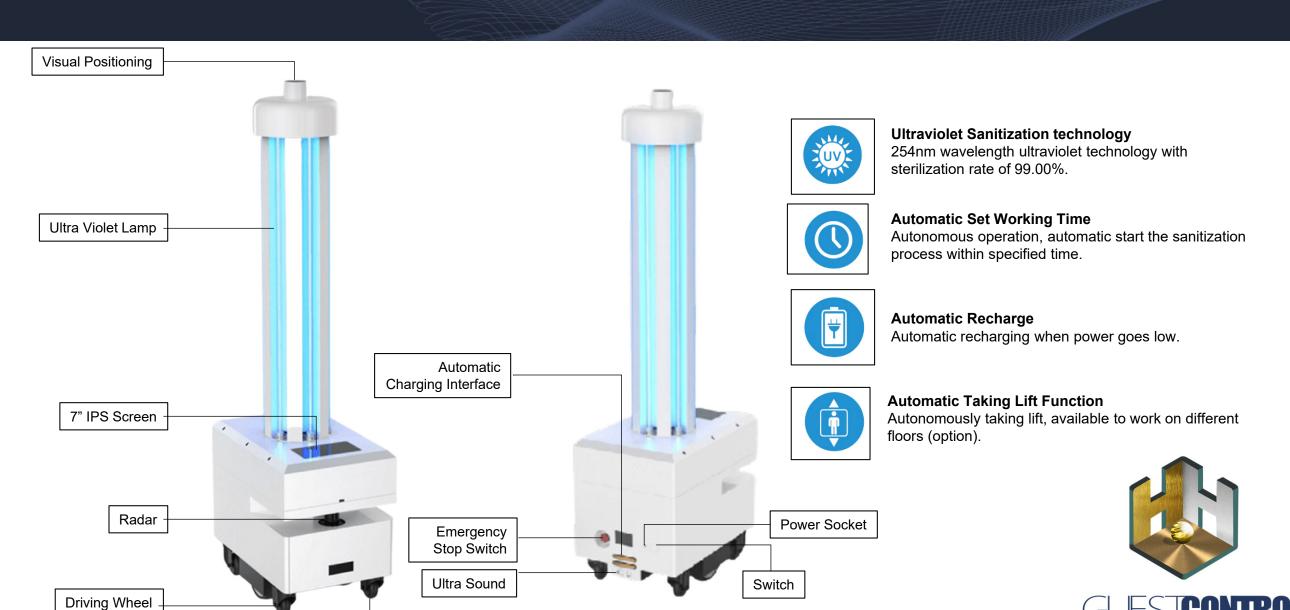
Recommendation: 1-5 units per hotel depending on the hotel size





GERMCLEAN ™ UV-C Model UVC-1016 Al Sanitization Robot

Functions



Universal Wheel

GERMCLEAN ™ UV-C Model UVC-1016 Al Sanitization Robot

Specifications

Moving Speed	0.2 ~ 1.5 m/s
No. of Lamp	6
Lamp Power	180W(30W/PC)
Battery Type	20A
Battery Operation Time	2.5-3 hours
Battery Charging Time	8 Hours
Dimension	54 cm x 36 cm x 153 cm
Weight	43 kg

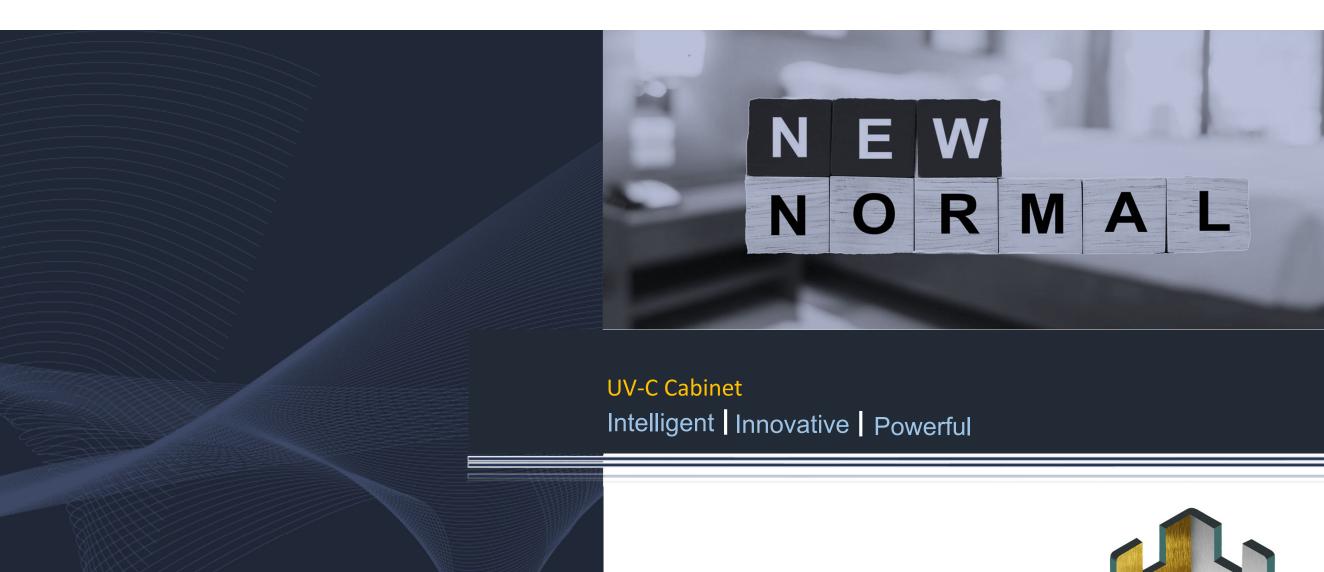


GERMCLEAN ™ UV-C Model UVC-1016 Al Sanitization Robot

Features & Applications

- Intelligent UV disinfection lamp, efficient, safe, and pollution-free:
- 6 pcs ultraviolet lamps can effectively kill more than 95% of bacteria and viruses on the surface of the environment, effectively reducing the risk of cross-infection
- Remote control, custom working hours, automatic disinfection tasks at a specified time, free of setup and maintenance
- Autonomous path planning, real-time data monitoring to avoid the problem of disinfection failure caused by attenuation of irradiation intensity
- Intelligent sensor design, add human body sensors inside the robot, when someone approaches, automatically stop ultraviolet disinfection
- Ultraviolet Sterilization Technology
- 254nm wavelength ultraviolet light
- High sterilization rate
- Automatically Set Working Time
- Automatically start disinfection task within a specified time
- Automatically re-charging when the power goes low
- Independently taking elevators function(Option)







UV-C Chamber-2000 Series

The UVC-2000 Series chamber is a professional UV chamber designed for sanitizing small items and tools. It can be used in different areas as medical/surgical labs, chemical or biological labs, food industry, hotels, beauty salons, etc.



UVC-2000-80L Capacity: 80L



UVC-2000-60L Capacity: 60L



UVC-2000-38L Capacity: 38L





UV-C Chamber-2000 Series

Specifications

PRODUCT SPECIFICATIONS								
Model	Dimension(inch/mm)		Weight(LBS/Kg)					
	Internal (W*D*H)	External (W*D*H)	Shipping (W*D*H)	Net	Shipping			
38L	14.6'*11.6'*11.6' / 370*295*295mm	16.5'*14.6'*15' / 420*370*380mm	18.5'*16.7'*18.5' / 470*425*470mm	17.6 / 8	19.2 / 8.7			
60L	14.6'*11.6'*17.5' / 16.5'*14.6'*20.9' / 18.5'*16.7'*24' / 20.5 / 9.3 22 / 10 370*295*445mm 470*425*610mm							
80L	14.6'*11.6'*21.5' / 16.5'*14.6'*24.8' / 18.5'*16.7'*28' / 24.3 / 11 25.8 / 11.7 370*295*545mm 470*425*710mm							
Construction	38L/60L/80L							
Finished	Stainless Steel							
Door	Door switch/UV Absorbing Transparent Window							
Timer	Adjustable 0-60mins							
Electrical	12V/2A 15W							
Hanging Rods & Clips	Standard							
Efficiency								
UV Lamp Electronic Ballast	Electronic Ballast 1 x 254nm 12watt radiation DC12V, 5W , Tc:65C Max ,Ta: 50CMax ,Max470mA EN 60335-2-15 EN 60335-1							
Options & Accessories								
Shelves	Removable shelves for multiple levels of items to be placed inside the box							
DC Adapter	INPUT:100-240V 50/60Hz 0.65A Max MODEL: KA2401A-1202000EU OUTPUT: 12.0 V 2.0A 24.0W							





UV-C Desktop Sterilizer-2001 Series

Specially used for disinfection of towels, small equipment, etc. The sterilization rate reaches 99.9% within **10** minutes.





UV-C Desktop Sterilizer-2001 Series

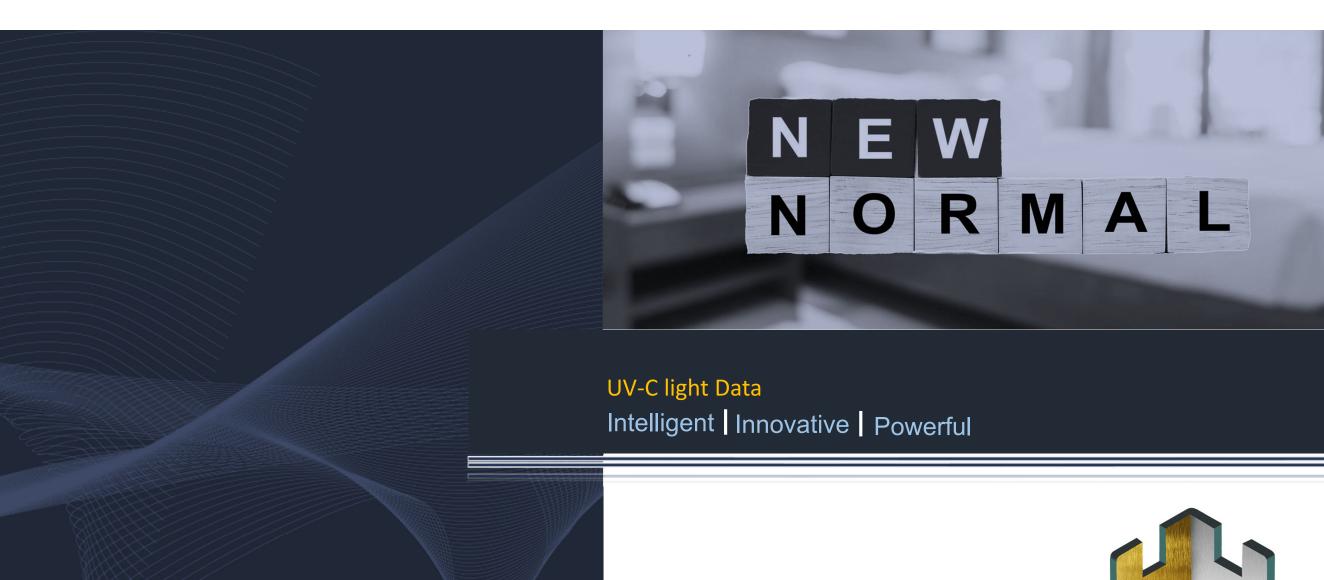


UV-C Desktop Sterilizer-2001 Series

Specifications

DESCRIPTION	SPECIFICATIONS
Tube Power	16W(2 tubes)
Rated Power	25W
UV Wavelength	253.7nm
Volume	12L
Size	345*220*200mm
Lamp Life	≥6000h







UV Light Bulb Data

TYPE	BASE	LAMP CURRENT	VOLTAGE	TUBE LENGTH	TUBE DIAMETER	LAMP LIFE
Philips 325 W	Single-ended 4 pins	2.0A	160V	1582mm	φ19mm	12000h
Philips PL-L 36W	2G11	0.44A	105V	410mm	φ18mm	9000h
Philips 36W	G13	0.44A	103V	1199.4mm	φ28mm	9000h
Philips 30W	G13	0.37A	102V	894.6mm	φ28mm	9000h
40W Electrodeless Lamp		0.53A	111V	900mm	φ19mm	50000h
Domestic 20W	G13	0.32A	84V	595.6mm	φ15mm	8000h
Domestic 100W	2G11	0.8A	225V	533mm	φ17mm	8000h

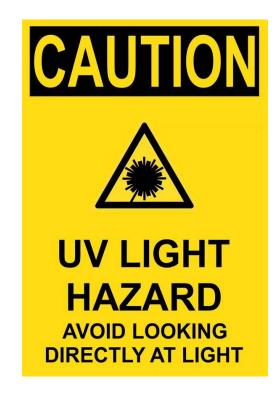






Safety Precautions

- Personnel working with the UVC disinfection device should ensure that there is no person in line of sight of the device when it is in operation, so that there are no risks of exposure.
- Never view the UV lamp directly. Although the inverse square law applies to non-laser beam UV radiation, it is not advisable to look directly at any UV source at any distance.
- Keep exposure time to a minimum, and where source is not enclosed or shielded, keep as far away from it as practicable.
- Restrict access to those personnel who are directly involved with the operation of the UV source.
- If a UVC disinfection robot is to be used in an enclosed space, ensure that the space is vacated before commencing operation of the UVC robot.
- Anyone working on a UVC device should wear appropriate PPE when operating or servicing the device at all times. Examples of PPE include the following:
 - a. UV-resistant eyewear (goggles/face shields/safety glasses)
 - b. Protective wear/clothing, which covers exposed skin
- When any mobile UVC disinfection device is not in use, ensure that it is stored or kept in a manner so as to prevent unauthorized access.
- Hazard warning signs Warning signs are necessary to inform about the risk of exposure during use and maintenance. Warning signs should be used where applicable to indicate the presence of potential UV radiation hazards, the requirement to restrict access, and the need for PPE.





Safety Precaution Door Label



Precautionary measure is necessary when UV sanitization is in progress in the guest room





Safety Precaution Foldable Frame





For the safety of staff and hotel guests, it is mandatory to place a label in the area when UV sanitization is in progress



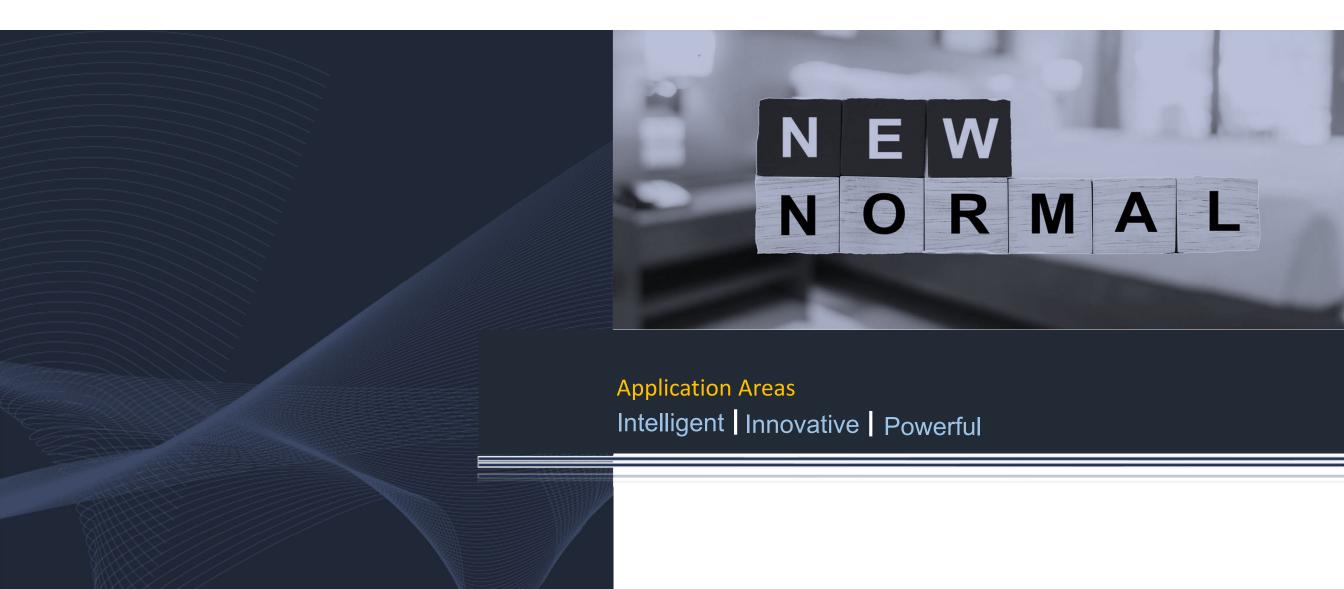


UVC Protection Goggle



UV glasses block most of the ultraviolet rays reaching your eyes. With the right protection, it's possible to block 99 to 100 percent of ultraviolet rays from reaching your delicate eyes and causing damage.

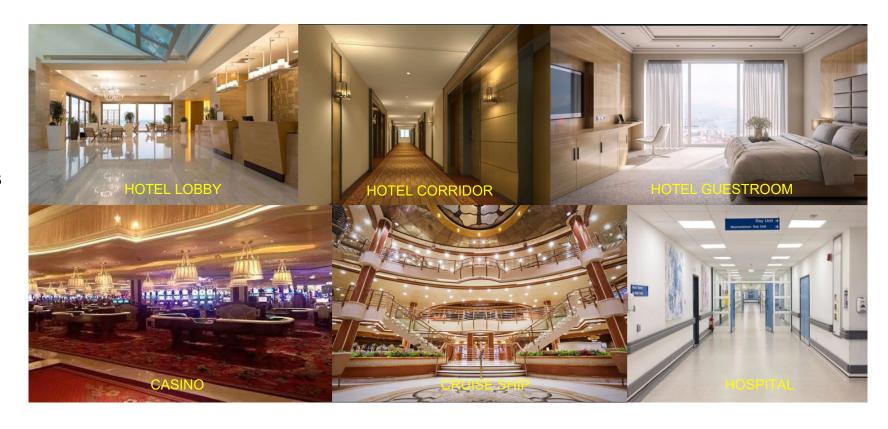




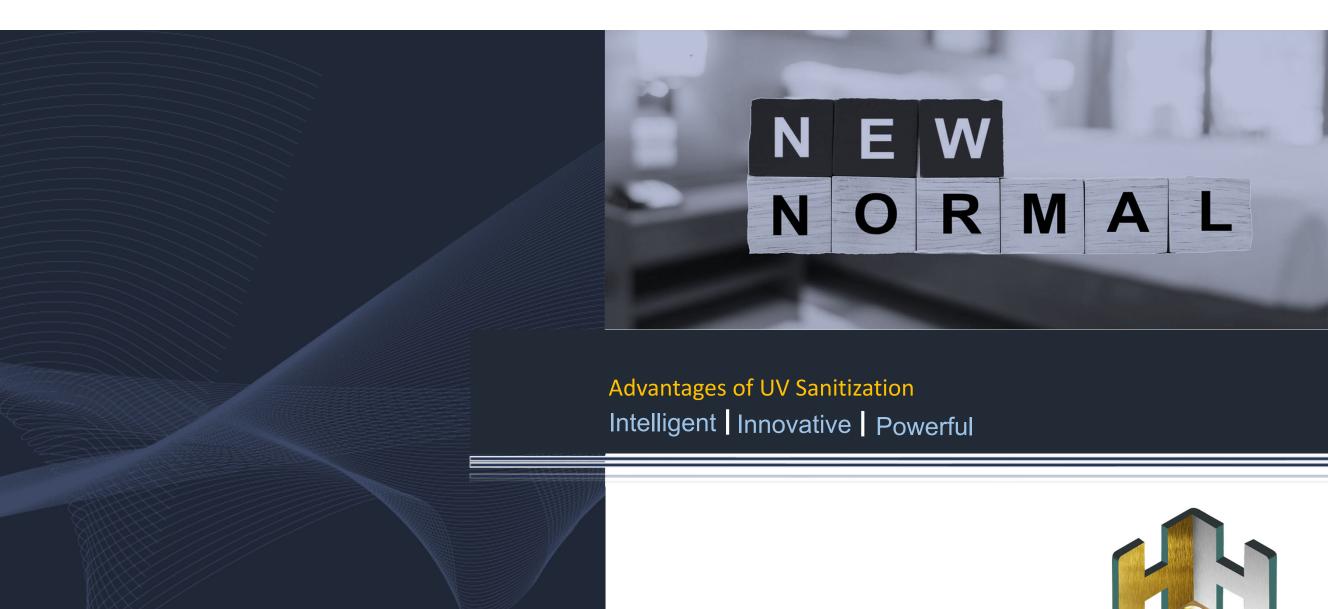


Application Areas

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







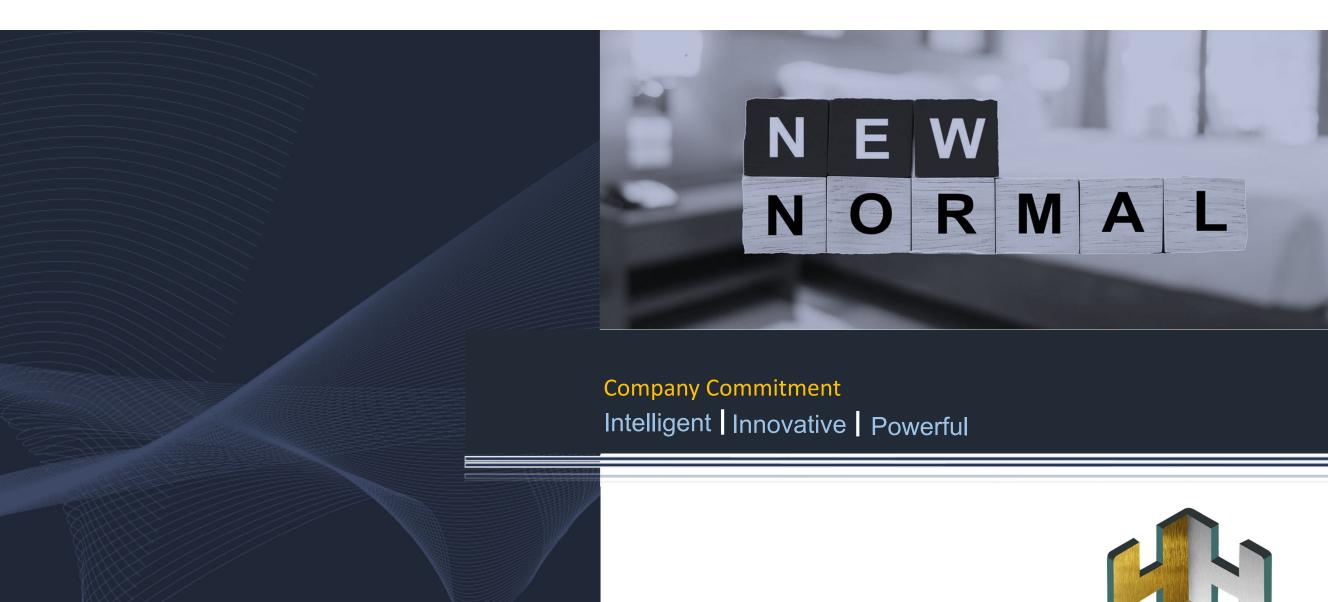


Advantages of UV Sanitization

Germicidal UV lamps are extremely effective and have several major advantages:

- Pathogen kill rate Tests show that germicidal UV products kill up to 99.9% of bacteria and viruses when used correctly. On top of that, bacteria and pathogens cannot become resistant to UV like they can certain antibiotics and antibacterial products.
- Limited chemical exposure UV-C works in place of potentially harmful chemicals. It's safe to enter a room after germicidal UV products disinfect the area, but it might be hard to breathe in a room that has just been sprayed down with chemicals.
- Lighting configurations There are multiple lighting configurations for germicidal UV light, including different types of fixture installation, mobile units, and permanent fixtures. Mobile units are a great option for hospitals, airports, fire and police stations, and the hospitality industry because they're easy to move from room to room. Plus, mobile units are a budget-friendly option compared to installing fixtures in every room.







Company Commitment

With new normal environment where public health and safety become foremost importance, GUEST CONTROL SYSTEMS LIMITED is committed to deliver innovative state-of-the-art seamless and intuitive hospitality UV-C sanitization products and solutions to the hoteliers all over the world.

With the company team expertise and accumulated global experience, we are able to set standard for UV-C sanitization products and solutions.

We create lead in innovation to ensure the hoteliers are at the forefront of technology. We ensure your hotel are at world-class status while we care for your service optimization, process efficiency, staff & customer health, deliver outstanding guest experience, guest loyalty and profitability.

www.guestcontrol.net



