



Gizelis Robotics presents  
the new, innovative

# ROBOTS SAFE™ UV-C DISINFECTION

germicidal ultraviolet  
technology robot!

It eliminates **99.9%**  
of viruses, bacteria, COVID-19 and  
contributes **ACTIVELY** to hygiene  
of premises.

**ROBOTS SAFE™ UV-C the  
autonomous disinfection  
robot ready to work in hotels,  
corporate and industrial  
spaces, warehouses,  
factories, distribution  
centers, airports and  
medical facilities.**

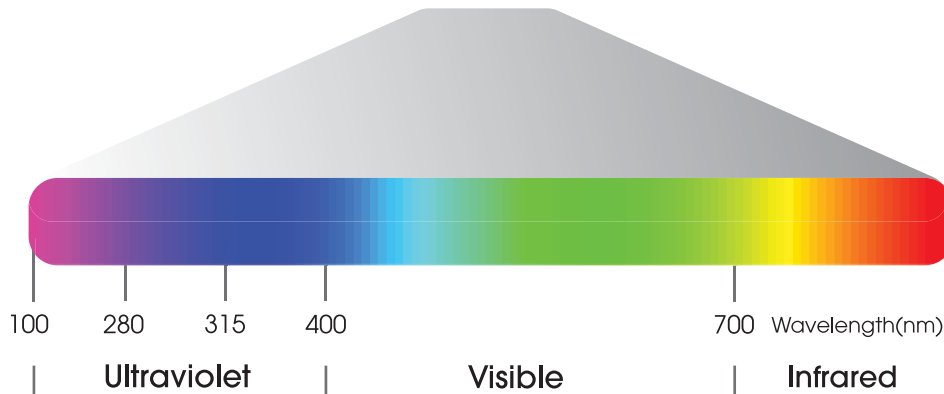
**Autonomous collaborative robot able to  
avoid obstacles and reschedule its route.**

**Collaborative! Moves autonomously in all  
areas with flexibility and adaptability.**

ROBOTS SAFE™ UV-C has been designed to  
answer to the challenges of infections of our  
time and the COVID-19 pandemic.

As an autonomous robot it cannot be infected  
like humans and disinfects the premises safely 24  
hours/day. It is designed to help businesses  
remain operational by disinfecting employees  
premises and contribute to safe business  
continuation.

Germicidal ultraviolet (GUV) refers to using ultraviolet radiant energy to inactivate bacteria, mold spores, fungi or viruses.



When the process is applied in a given location, it has been referred as ultraviolet germicidal irradiation (UVGI).

Germicidal ultraviolet refers to short-wavelength ultraviolet “light” (radiant energy) that has been proven to kill bacteria and spores and inactivate viruses.

Ultraviolet (UV) light is invisible to the human eye and is divided into UV-A, UV-B and UV-C.

UV-C is found within 100-280 nm range.

The germicidal action is maximized at 265 nm. Low pressure UV-C lamps have their main emission at 254 nm where the action on DNA is 85% of the peak value. As a result, germicidal lamps are effectively interacting with the RNA and DNA molecules in micro-organisms to render these microbes non-infectious. This means that they cannot replicate and cause disease.

## A powerful range of benefits

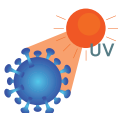
Autonomous germicidal ultraviolet disinfection robot is a proven and effective way to disinfect surfaces.



Effective against bacteria, mold spores, fungi and viruses



Environmentally friendly -no ozone emissions during or after use



Disinfection effect is directly related to UV-C radiation, intensity and exposure time of micro-organisms and viruses



Navigate autonomously to disinfect surfaces



Can be used for numerous applications such as offices, hospitals, stores, schools, food outlets, entertainment centers, food processing and public transportation



It requires minimal to zero maintenance



Autonomous robots have low capital and operation costs



Disinfects large volumes of room air when combined with forms of mechanical ventilation to mix the air

## The power to protect

There are numerous applications where ultraviolet germicidal irradiation is an ideal disinfection solution.



### Workplaces

Germs can be picked up from phones, keyboards and stationery



### Hospitals

Viruses and bacteria are particularly dangerous in a medical setting



### Schools

Railings, desks, door handles, sanitation surfaces and toys are examples of frequently touched surfaces



### Fast Food Restaurants

Germs and bacteria are common in raw and wasted foods

## Additional advantages

- ✓ Smart Building: Autonomous mobile germicidal ultraviolet robots is effective in disinfecting surfaces.
- ✓ RobotSafe is equipped with 360° Laser sensors and 3D cameras for avoiding obstacles which make it 100% safe on the move.
- ✓ It can be used for surface disinfection to reduce bacteria and virus transmission.
- ✓ Battery saving: it always calculates the shortest route.
- ✓ UV-C technology has been used in areas where there is a risk of microbiological contamination safely and effectively for more than 40 years.
- ✓ Equipped with tablet and app software and functionality.
- ✓ Long life span.
- ✓ Easy, fast installation and operation.



**The power to protect**

There are numerous applications where ultraviolet germicidal irradiation is an ideal disinfection solution.



**Retail**

High-touch areas such as shopping trolleys and cash registers have a high risk of transmitting germs



**Entertainment**

Facilities should continue to provide surface disinfection that is adequate for the expected occupants



**Hospitality**

Restrooms are one of the most common places to find harmful germs and bacteria



**Banking**

High-touch surfaces like cash machines and deposit/withdrawal slip stations pose risks for virus transmission

**Value Proposition**

Our priority is providing consistent service and solution.



Save cost by reducing disinfection cycle time



Disinfect surface in a matter of minutes



Improve brand awareness



Low Total Cost of Ownership



Reduce the risk of exposure for guests and staff










Ensure solution usage in a safe way



Make guests and staff feel better protected



Provide end-to-end services

FACT SHEET	ROBOTS SAFE™ UV-C DISINFECTION	OTHER UV-C DISINFECTANT SYSTEMS
 Germicidal ultraviolet UV-C is used to reduce the spread of surface-born infectious diseases	●	●
 Designed and manufactured for corporate, industrial and any other space you would prefer.	●	X
 ROBOTS SAFE™ eliminates 99.9% of pathogenic microbes, viruses, bacteria etc.	●	X
 Programmable disinfection	●	X
 Designed to adapt in between working hours, keeping the environment safe	●	X
 Fully autonomous, based on UV-C technology. Ability to disinfect on a large scale and in varying environments.	●	X
 Design, R&D, construction and technical support made in Greece by GIZELIS ROBOTICS.	●	X



Simple operation via smartphone and tablet, our interface enables the robots to either identify its driving area and surroundings or import 3D drawings of the building layouts.

