

Model C Informative Brochure

Safety Features

Purpose

This will introduce you to the safety features of the UVD Robot Model C.

Committed to Disinfection. Dedicated to [Your Safety.](#)

UVD Robots are dedicated to your safety, therefore the UVD Robot Model C is equipped with state of the art safety systems, ensuring the best possible safety around the robot. Perimeter and human detection safety features keep both humans and the robot protected from injury and harm.

UVD Robots has pioneered the product category of autonomous UV-C disinfection robots, which is one of the many reasons to why more than 75% of autonomous UV-C robots installed worldwide are UVD Robots.

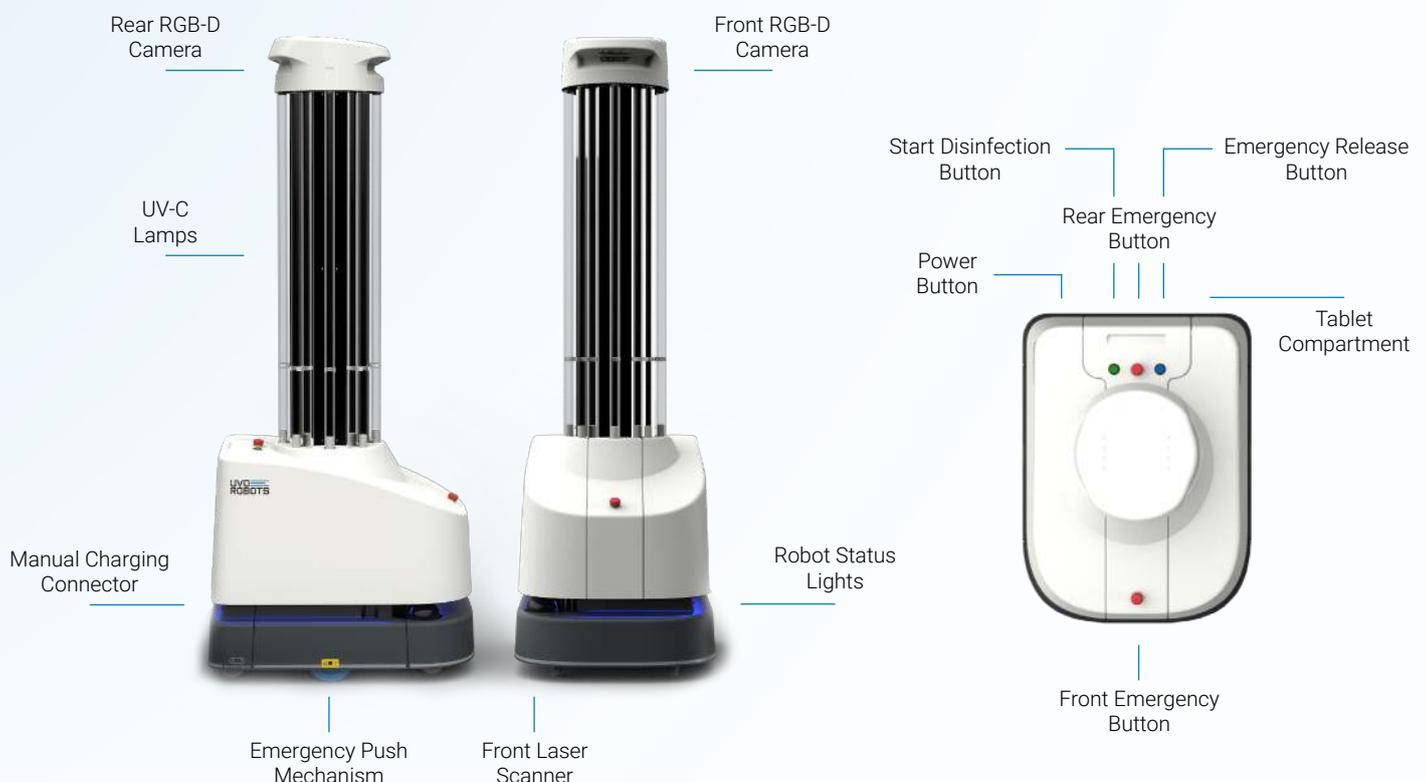
Safety Overview

Take a close look at the safety specifications of the UVD Robot Model C.

Multi-Layer Safety System

The UVD Robot is equipped with a multilayer safety system, meaning it has numerous safety measures depending on the operational level. The first layer is active when the UVD Robot is driving towards the disinfection area and the lowest level of safety is active when the operator is driving the robot manually via the tablet. The highest level of safety

is active when the robot is disinfecting, meaning the robot will be actively avoiding obstacles and constantly checking its surroundings for anything that should not be present during a disinfection cycle. Below, you will find a detailed overview of the safety specifications enabling the multi-layer safety system of the UVD Robot.



Feature Highlights

An in-dept look at the safety features of the UVD Robot Model C.

Safe and Reliable **Obstacle Avoidance**

The UVD Robot is designed to anticipate collisions and automatically take corrective steering actions if needed. This cutting edge system rely on a number of sensors, lasers, and cameras enabling the robot to avoid static objects and monitor surroundings in order to establish a protective area around itself.

Perimeter **Safety**

When operating the UVD Robot in large areas it is mandatory to establish perimeter safety. In case any persons should intrude the area, the UVD Robot is equipped with two additional safety systems as described next.

Obstacle Avoidance using **Safety Laser Scanners**

As part of our patented tower protection system, the UVD Robot has three 3D cameras (2 front-facing and 1 rear-facing) to detect and avoid objects. The UVD Robot is capable of avoiding most static objects, with the possible exception of glass, shiny metallic objects, objects that are not visible from 20 cm (7.9 in) above ground,

and black objects. The UVD Robot is capable of detecting and avoiding people. When the robot detects that the path to its destination is blocked, it will always try to avoid and find a new route. If no other route is available, the robot simply stays still and requests for interaction in the user interface on the tablet.



Feature Highlights

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Obstacle Avoidance Using Cameras

The UVD Robot is equipped with two safety laser scanners to ensure 360 degree coverage around the robot. This allows it to detect and avoid most static objects.

The robot monitors its surroundings using the safety laser scanner in order to establish a protective area around itself. The protective area grows wider and longer, the faster the robot moves.

If any object visible to the safety laser scanners, enters the robot's protective area, the robot performs a precautionary stop to prevent any person or property damage.



Emergency Stop

The UVD Robot is equipped with two highly visible red emergency stop buttons, which when pressed, interrupts the robot immediately. They are placed both front and rear, on top of the robot, for easy access.



Final Thoughts

Always refer third parties or collaborating partners to these UVD Robots Safety Guidelines.

When in doubt, carefully review this document, as it contains all the guidance that you require. We only expect you to maintain healthy respect for the safety around our robots and should there be any doubt on this topic, please contact UVD Robots.

GETTING IN TOUCH IS EASY



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