

Ava UV Disinfection Robot:

Promoting a Safer Workplace

About the UV Robot

How does the UV Disinfection Robot work?

After the robot has been mapped and is stationed in your workspace...

- Your assigned manager logs into the Ava Facilities Manager Hub to schedule disinfection treatment.
- Autonomously navigating to the assigned area(s), the robot turns on the UVC lamps to perform the disinfection application.
- When complete, the lights turn off and the robot returns to the charging station on its own.
- The admin receives an email report to confirm completion.

Does the robot disinfect both air and surface areas?

The Ava UV Disinfection Robot's configurations include both surface and aerosol use cases to account for aerosols (air droplets) and fomites (surface particles).



What are the robot's features and specifications?

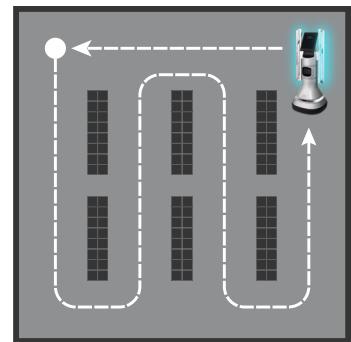
Components	Ava UV robot, and charging station Ava Cloud Service, including Robot Management Console and Facility Manager Console
UVC Lights	4x 30W UVC
UVC Disinfection Planning	Scheduling of disinfection runs from Facility Manager Console Adaptive autonomous movement for optimal disinfection
Reporting	2D Visual Presentation of disinfection results Automated email updates
Display	10.2"
Audio	High fidelity front-facing speaker. Integrated full-range microphone
Navigation Sensors	LiDAR, 3D cameras, inertial measurement unit
Mobility	Holonomic drive system, Max speed 1 m/s Autonomous mobility with collision avoidance
Dimensions	Height 137 cm (54"), Max width 57.5 cm (22" 5/8), Max depth 57.5 cm (22" 5/8)
Batteries	4x Lithium Ion, 7300 mAh each

How long does it take for the robot to disinfect a space?

The robot can cover 9000 square feet per hour of coverage for 99% surface and aerosol disinfection (translates to 1100 linear feet per hour).

Is the robot fully-autonomous and able to be used remotely?

Yes. The robot does not need to be “driven” by the user. Once the UVC treatment is scheduled, the robot will perform the application and then automatically return to its charger once complete. You can use the robot from anywhere, at any time.



Using the Robot

What does our workspace need for the robot to work?

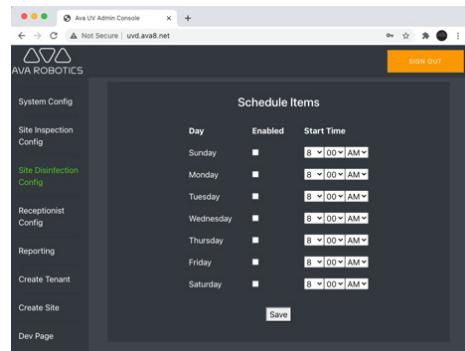
Your UV robot(s) will be assigned to areas to disinfect. From a physical standpoint, you will need a space for the robot to dock and charge. You must also be aware of any doors or other blocked off areas along the robot's route. For networks and protocols, Ava complies with wireless and security standards for enterprise businesses.

Who should use and/or manage the robot?

Managing and using the robot is not labor-intensive. After the robot is set up and mapped to your space, your team will assign an internal admin to determine and set the robot's schedule, depending on your facilities management and the nature of your space and existing cleaning processes. This person will also receive the email reports to confirm disinfection completion.

What is the best way to schedule UVC disinfection?

The most effective schedule for the robot is during off-hours, when people are not present. That way, the UVC light will only be on while the space is empty, and manual cleaning processes can be more effectively scheduled for workday hours, if necessary. If the robot performs disinfection at night, for example, the space will be ready when people come in the next morning.



How will we know the robot is effectively disinfecting our space?

A confirmation report will automatically be emailed to the designated Facilities Manager after the scheduled disinfection is complete.

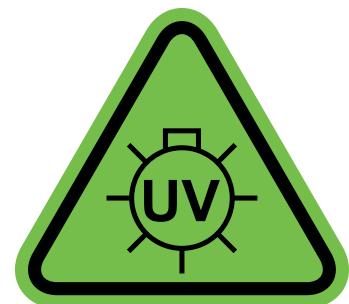
UV Robot Safety

UVC light exposure isn't safe for people--how does this robot address the risk?

UVC is not safe for humans, and exposure to this light is not necessary to use the robot. There are built-in features in case of unexpected human presence within the space being disinfected, including a manual “off” button and audible alerts for when the UVC lights are on.

How long after UVC disinfection application do you have to wait to re-occupy the space?

UVC disinfection is effective upon contact for both surface and air particles. Once the disinfection treatment is complete, and the lights are off, it is safe to return to the space.



Can this robot be used during regular work hours?

It is possible to use the robot during the day, but safety measures must be taken to ensure no one is in the space as it is being patrolled by the robot. For example, if there is a space that can be entirely closed off with the door shut, the space can be treated. People can be in adjacent rooms or rooms that share walls, etc. They just cannot be directly exposed to the UVC light (including eye exposure from looking directly at the UVC light).

How far does UVC light travel, and what distance from the robot is safe while it is disinfecting?

UVC light can travel far (50+ft), and the intensity decreases with distance. Target dosage for the robot, for any point, is determined by intensity, and length of exposure. UVC exposure is dangerous and damaging to skin and eyes. As a general precaution put a wall or a door between you and UVC light. While it is possible that being a certain distance away from the bulbs is safe, it is always best not to take chances.

Business Benefits

Why should our business have a UV disinfection robot?

The benefits of fully-autonomous, safe, and scheduled UVC disinfection go beyond the removal of harmful viruses. For businesses that rely on their physical space for in-person visits, employee and customer confidence has immediate bottom-line impact. Increased assurances around safety and proactive measures speak volumes for the business, internally and externally.

How is the Ava UV Disinfection Robot better than other available UV products?

Ava UV Disinfection Robots offer:

- Effective, hands-free disinfection with intelligent features for planning, execution and reporting
- Compatibility with corporate IT standards and security practices
- Established robotics technology designed and built by leaders with iRobot and MIT roots.
- Access to multiple robotics solutions for the organization

How do we communicate the value of a UV disinfection robot to our employees, customers, stakeholders?

Taking responsible, proactive safety measures to keep people healthy is a strong message to everyone in the organization. Even remote employees will feel better knowing there is a solution in place to better protect on-site colleagues and customers. Presenting the robot, plus the other cleaning best practices you have in place, can be done in all-hands meetings, via email, or in person (UVC lights off).



About Ava Robotics

Ava Robotics is a robotics technology company that designs and builds intelligent robots for the workplace. Delivering on a vision of robots working with and for people, Ava's technology emphasizes user experience, safety, and autonomous mobility to empower people, while advancing business operations and access.

Learn more at www.AvaRobotics.com.