

Omron launches UVC autonomous disinfection service robot

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A Co-creation with Techmetics Robotics for Completely Automated, Safe and 3600 Pathogen Disinfection

Singapore based OMRON Asia Pacific, a global leader in industrial automation solutions across Asia Pacific, has forayed into UVC disinfection with the launch of its robot – LD UVC. The robot is a co-creation with Techmetics Robotics- the forerunners in autonomous service robots, to enable organizations to fight the spread of infectious diseases effectively & conveniently.

The UVC light has been proven to be effective in breaking down the pathogens' DNA and RNA beyond recovery, thus stopping them from replicating. OMRON LD-UVC navigates autonomously and disinfects premises including the high-touch areas by eliminating 99.90% of bacteria and viruses -both airborne and droplet- by delivering the precise dosage of UVC energy.

Specifications:

- 8 UVC lamps placed in a circle provide full 360° coverage to eliminate 99.90% of bacteria and viruses
- PIR Motion Sensors on all four sides to detect human presence and trigger UVC light to turn off immediately
- Lidar Sensors for toe, high level, and overhanging obstacles detection to avoid collisions
- Stainless steel Lamp Guard to safeguard the lamp from collision against protruding objects
- Built-In Audio & Visual Buzzer, speech and display to provide warning alert before turning on UVC light
- 13 hours battery life for robot movement and 3.5 hours for UV operation

Equipped with lasers and Passive Infrared (PIR) Motion Sensors, for obstacle detection & avoidance, the LD UVC robot manoeuvres through narrow corridors, elevators, and even automatic doors seamlessly. It also shuts off its UVC light upon human detection, ensuring impeccable safety for human beings. Suitable for indoor spaces, the robot follows a mapped route, reducing the requirement of manpower resources dedicated for manual cleaning. Features like bumper, sonar and emergency stop render additional safety. The machine has an automatic charging and smooth touch interface for control. All this makes it an ideal gadget for facility management across hospitals, hotels, malls, event venues, airports, corporate office to name just a few. With a simple integration of software, the robot gets up and running in minimal installation time and needs

no modifications or construction of the premises.

Mr. Takehito Maeda, Managing Director of Industrial Automation Business, OMRON Asia Pacific says, "Robots will yield great value to organizations who are struggling to find the right, effective, less labor-intensive and long-term solutions to ensure their premises are safe and germ-free."

OMRON mobile robots have been deployed in thousands of applications across multiple industries such as material handling, hospitality, automotive manufacturing to name just a few.