

Business Connection



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OMRON joins forces with partners to provide a new disinfection solution with UV-equipped mobile robots

Due to the current COVID-19 pandemic, OMRON's team in Pleasanton has deployed its first UV-equipped disinfection mobile robot in their Hacienda Business Park office.

The COVID-19 pandemic has brought upon a new normal that is not only impacting our health and social lives, but is also disrupting businesses and economies globally. Other than respiratory droplets, COVID-19 can also be acquired through contact with surfaces contaminated with SARS-CoV-2, the virus that causes COVID-19.

Studies indicate that the virus can remain on surfaces from a timeframe of a few hours to multiple days, thus highlighting the risk of transmission and the necessity of disinfecting the premises thoroughly.

While using traditional manual cleaning and disinfection practices, organizations face many challenges such as variation in the performance of individual housekeepers, inappropriate use and availability of disinfectants, access to desired number of manpower around the clock and the complicated disinfection requirements of high-touch areas. All these necessitate the need of augmenting the manual cleaning regime with UV disinfection.

"These are pretty unprecedented times with having a global pandemic and it doesn't always feel like there's something you can do to help," said Jake McMahon, Software Engineer at OMRON.



Mufit Ferman, Jake McMahon, Ismail Kapudere, Karthick Dhavamani, Nicholas Karalis and Sang Park all helped to deploy OMRON's first UV-equipped disinfection robot.

"This felt like something tangible we could do at least to make a small difference for our colleagues who could not work from home."

What is OMRON's UV LD mobile robot?

OMRON Robotics and Safety Technologies in Pleasanton recently developed a unique UV LD mobile robot solution designed specifically to fight the COVID-19 outbreak. It is used for disinfecting rooms and high-touch surfaces automatically and effectively. It is suitable for healthcare, hospital-

ity, assisted living, and commercial buildings. The key features of OMRON's UV-equipped LD mobile robot include: disinfection, easy installation, safety, and full 360° coverage.

1. Disinfection - Individually validated UV lamps deliver balanced and uniform high-output UV flux to disinfect surfaces from pathogens.

2. Easy Installation - With the seamless integration of our software, the robot is easy to get up and running; requires minimal programming time.

3. Safety - Safety lasers, emergency stop function, PIR motion sensors detect human presence and shut the UV lamps automatically.

4. Full coverage - Eight UV lamps placed in a circle provide full 360° coverage.

How does UV disinfection work?

UV light breakdowns the DNA and RNA chains of the cells of the microorganisms beyond recovery. This disables the function of the

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