

# UV-Disinfection Robot



# Cutting-Edge Disinfection Technology for Hospitals

**Hospital Acquired Infections (HAIs)** are a major and growing problem for the healthcare system. They give rise to significant costs for hospitals, partly because of extra days in bed, readmissions, and in worst cases deaths. For example it is one of the top 10 causes of deaths at U.S hospitals, claiming 99.000 lives each year<sup>1</sup>.

In general hospitals are aware of the importance of maintaining a high level of hygiene, where cleaning, floor mopping, hand-washing etc. are top priorities. However, HAIs occur at hospitals with even the highest level of hygiene. The infection rate in the U.S. is 722.000 people pr. year<sup>2</sup>. For Australia and Denmark that number is 200.000<sup>3</sup> and 54.000<sup>4</sup> people pr. year respectively. For the U.S. that results in up to \$ 33 billion<sup>5</sup> preventable annual expenditures, while for Australia and Denmark that number is \$ 600 million and \$ 162 million respectively<sup>6</sup>.

There are various solutions on the market to use when an outbreak has occurred, but what if there was a solution to help **prevent** these outbreaks?

Now there is ...

## The First-Class UV-Disinfection Robot



The UV-Disinfection Robot is the best **autonomous robot** for disinfection at primarily hospitals, but is also applicable for production lines, pharmaceutical companies and even hotels.

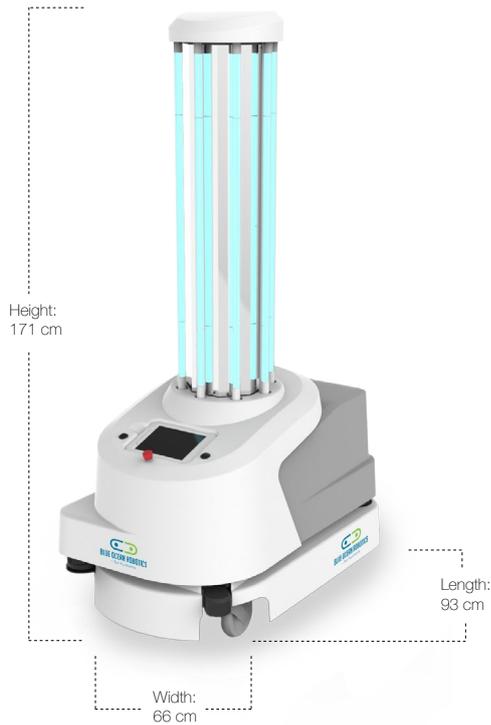
The robot is used as part of the regular cleaning cycle, and aims at **preventing** and **reducing** the spread of infectious diseases, vira, bacteria, and other types or harmful organic microorganisms in the environment by breaking down their DNA-structure. The robot is **safe**, **reliable** and eliminates human error. Furthermore, it is **user friendly** and is operated by every-day cleaning staff.

**Kills**  
**99.9%**  
**of all bacteria**

**Disinfects in**  
**10 min.\***

\* for a regular 25 m<sup>2</sup> patient room which includes a toilet

1. Health and Human Services  
2. Centers for Disease Control & Prevention  
3. Australian Hospital Statistics 2012-13  
4. Pedersen, K. M., & Kolmos, H. J. J. (2007). Hospitalsinfektioners økonomi. Syddansk Universitet.  
5. Eliminating Healthcare Associated Infections State Policy Options 2011  
6. Estimated cost is \$ 3.000 pr. infected patient as stated by Pedersen, K. M., & Kolmos, H. J. J. (2007).



## UV-Disinfection Robot Specifications

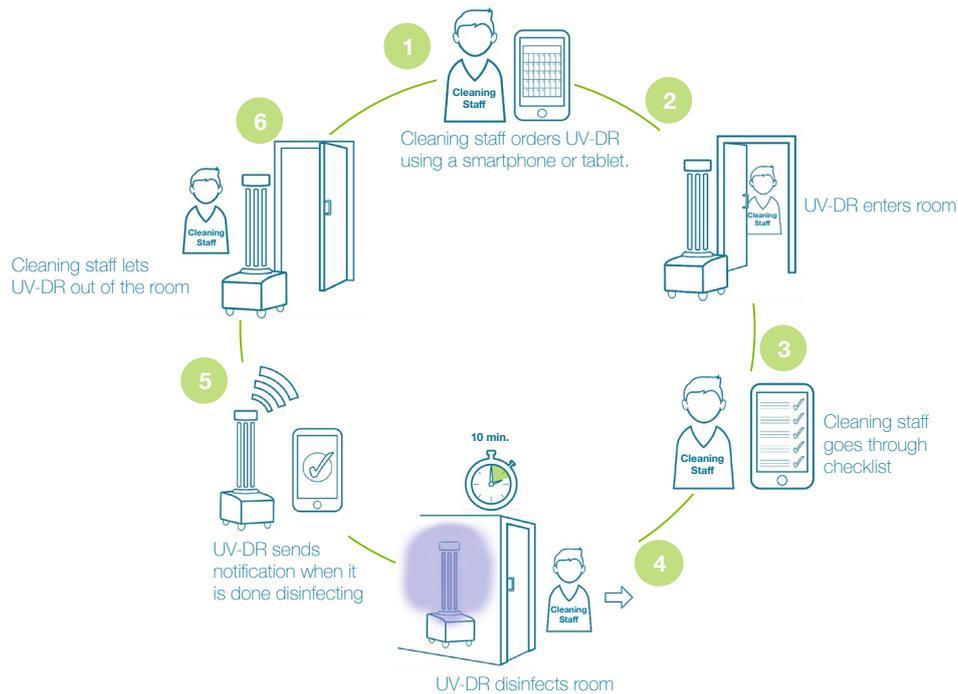
- Max Speed: 5,4 km/h
- Battery Charging Time: 3 hours
- Total Weight: 140 kg
- Dimensions: L: 93 x W: 66 x h: 171 (cm)
- Operating Time: 2-2.5 hours (disinfects 9-10 rooms)
- Disinfection Coverage: 360 degrees
- Disinfection Time: 10-15 min. pr. room
- Connectivity: Wireless (Wi-Fi based)
- UV-Wavelength: 254 nm (UV-C rays)
- Charging Requirements: 220-240 VAC, 50 Hz, 6 Amps
- Safety: Software & Sensors Based  
Emergency Stop Button



## How to Use the UV-Disinfection Robot

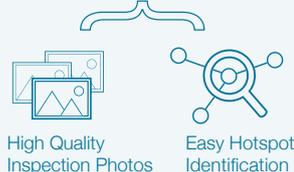


Calculate your Business Case



See UV-Disinfection Robot in Action

### Workflow Data





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Product Information

Blue Ocean Robotics ApS  
Niels Bohrs Alle 185  
5220 Odense SØ, Denmark

+45 8182 4673  
info@blue-ocean-robotics.com  
www.blue-ocean-robotics.com



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