



Ryberg Omnia[®]

360 UV-C disinfection

Product Sheet: Ryberg Omnia UV-C
Disinfection Robot

Autonomous.

Reliable.

Effective.

RYBERG OMNIA : ENGINEERED TO REDEFINE INFECTION
PREVENTION

Ryberg is revolutionizing healthcare with cutting-edge UV-C technology. Designed for efficiency, built for impact. Omnia UV-C Disinfection Robot is an autonomous data driven Robot eliminating pathogens with unrivaled precision.

Founded in 2020, Ryberg leads the fight against healthcare-associated infections and antimicrobial resistance. Advanced engineering meets smart automation.



Transforming Hospital Hygiene

Ryberg's Omnia UV-C Disinfection Robot is specifically designed to elevate hospital cleaning, minimize hospital-acquired infections (HAIs), and optimize disinfection workflows. Featuring intelligent autonomous navigation, 360-degree UV-C coverage, and advanced diagnostic capabilities, Omnia is the future of next-generation Healthcare Disinfection.

Key Features

Smart & Efficient Disinfection

- Operates as close as 15 cm from objects for superior cleaning.
- Optimized UV-C wavelength (253.7 nm) ensures maximum germicidal efficacy.
- Efficient power usage extends battery life, allowing up to 6 hours of operation (4 hours of disinfection).

Autonomous Navigation & Intelligent Design

- Slim, round build fits through spaces as narrow as 80 cm.
- Omnidirectional movement with differential drive and independent suspension for smooth operation.
- Advanced 3D sensing detects obstacles, ensuring safe, optimized movement.
- Fast-charging (1200W) reaches full charge in 4 hours.

Optimal UV-C Distribution

- 360° symmetrical UV-C lamp arrangement ensures even disinfection.
- Dynamic movement minimizes shadowing, improving efficiency over static devices.
- Internal airflow system helps reduce airborne pathogens.

Serviceability & Maintenance

- Modular design simplifies assembly and servicing.
- Predictive maintenance via remote diagnostics minimizes downtime.
- Over-the-air software updates keep the system up-to-date.

Specifications

- UV-C Wavelength: 253.7 nm
- Battery: LiFePO₄ (LFP) for enhanced safety and lifespan
- Charging Time: 4 hours (1200W fast-charging)
- Operating Time: 6 hours (4 hours disinfection)
- Navigation: Differential drive with independent suspension
- Safety Certifications: CB, CE
- Sensors: 3D stereo cameras, LiDAR, ultrasonic, IMU motion sensors
- Size: Compact, 63% smaller than competitors

Why Choose Omnia?

- ✓ Navigates autonomously: independently, reaching all surfaces—including hard-to-access areas—without relying on human operators.
- ✓ Data driven: real-time reports and tracks disinfection cycles, providing documentation for regulatory compliance. This feature helps healthcare providers demonstrate accountability and meet stringent hygiene standards.
- ✓ Optimizes Room turnover: increased patient capacity and operational efficiency, reduce wait times, and optimize bed availability.
- ✓ Reduces financial burden of HAI's: Prevents infections, lowering treatment costs, patient readmissions, and extended hospital stays.
- ✓ Consistent Disinfection: mitigates human disinfection errors and ensures reliable disinfection every time.
- ✓ Combats HAI's & AMR with a safe non chemical solution: 360° UV-C Light Coverage without chemicals, reducing exposure to harmful substances and lowering environmental impact





Ryberg

- ✓ Uniquely Designed for Hospitals: Built to navigate autonomously and safely in complex hospital environments, with his compact, slim, and round design that allows it to maneuver easily in tight spaces.
- ✓ User-Intuitive: Designed with simplicity in mind, the robot can be easily operated by staff with minimal training, reducing downtime and maximizing efficiency.

Support & Maintenance

- Comprehensive Support: On-site, remote, and service portal access.
- User-Friendly Portal: Troubleshooting, maintenance tips, and software updates.

Transform Hospital Hygiene with Omnia!

Ryberg's Omnia UVC Disinfection Robot is a game-changer in infection control, offering efficient, autonomous, and chemical-free hospital disinfection. Enhance patient and Staff Safety and optimize cleaning protocols today!

For more information, visit [Ryberg Healthcare](#).