

## The impact of pathogen transmission on HAIs

Healthcare-associated infections (HAIs) can happen in any healthcare facility, including hospitals, ambulatory surgical centers, and long-term care facilities. HAIs can be caused by bacteria, fungi, viruses, spores, or other less common pathogens.

HAIs are a significant cause of illness and death — and they can have devastating emotional, financial, and medical consequences. At any given time, about 1 in 25 inpatients have an infection related to hospital care. These infections lead to the loss of tens of thousands of lives and cost the U.S. healthcare system billions of dollars each year.<sup>2</sup>

### Published Outcomes

#### Understanding and Preventing Transmission of Healthcare-Associated Pathogens Due to the Contaminated Hospital Environment<sup>3</sup>

No-touch methods (eg, ultraviolet C [UV-C] light) have been developed to improve terminal room disinfection. UV-C light has been demonstrated to decrease the level of *C.diff* spores, and other harmful pathogens on contaminated surfaces in patient environments.

#### Environmental Survival of Key Pathogens on Hospital Surfaces<sup>4</sup>

Pathogen	Survival Time
<i>S. aureus</i> (including MRSA)	7 days to >12 months
<i>Enterococcus</i> spp. (including VRE)	5 days to >46 months
<i>Acinetobacter</i> spp.	3 days to 11 months
<i>Clostridioides difficile</i> (spores)	>5 months
Norovirus (and feline calicivirus)	8 hours to >2 weeks
<i>Pseudomonas aeruginosa</i>	6 hours to 16 months
<i>Klebsiella</i> spp.	2 hours to >30 months

Additional published outcomes are available upon request.

### RD UVC System Product Specifications

#### REQUIREMENTS

- Electrical supply of 120/240 Vac., 50-60 Hz, 1600 Watts

#### WEIGHT

- 220 lb. (99.8 kg)

#### EXTERIOR DIMENSIONS

- H: 69.0 in. (175.26 cm)
- W: 22.25 in. (56.5 cm)
- D: 25 in. (63.5 cm)

#### LAMPS

- 20 Philips™ T-8 75W Ultraviolet-C (peak @ 253.7nm) non-ozone producing
- UV-C Output: 1,500W/>500W UVC
- Lamp Life: 18,000 hrs.

#### COMPONENTS

- The RD UVC System (Emitter and Remote Control Tablet)
- Four Remote, Wireless UVC Sensors
- Door Sensor and 360° Motions Detectors

#### DIRECT END-USER LIST PRICE:

- \$74,500 USD\* \* Volume discounts available.



1. An Environmental Disinfection Odyssey: Evaluation of Sequential Interventions to Improve Disinfection of Clostridium difficile Isolation Rooms. Dr. Curtis J. Donsky, Infection Control and Hospital Epidemiology, Vol. 34, No. 5, 7. Health.gov, Office of Disease Prevention and Health Promotion, https://health.gov/hcp/prevent-hai.asp, May 2019. 3. Weber, David J. MD, MPH, Rutala, William A., PhD, MPH, Understanding and Preventing Transmission of Healthcare-Associated Pathogens Due to the Contaminated Hospital Environment. Infection Control and Hospital Epidemiology, May 2013, Vol. 34, No. 5, 4. Adapted from Hota, B. et al. Clin Infect Dis. 2004;39:1182-9 and Kramer, A. et al. BMC Infectious Diseases 2006;6:130. © 2020 Steriliz, Inc. Steriliz is a trademark of Steriliz, LLC.

# Proof. Delivered.

Only the RD™ UVC System provides the proof and throughput you demand.



## Get the proof you demand in a UVC system.

Schedule a FREE, in-person demonstration.

Call **855.882.2013** or visit **www.rduvc.com**

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**RD UVC**  
Proof. Delivered.

**RD UVC**

## Stop guessing. Start proving.

The only way to confidently prevent the transmission of harmful pathogens in your hospital AND minimize room turnover time is to utilize a system that employs **patented**, remote UVC dose measurement sensors. With the RD UVC System, you can reposition the UVC light source to take advantage of increased direct light and intensity, which is **proven to be more effective** in eradicating pathogens vs. measuring only indirect UVC exposure<sup>1</sup>.

The RD UVC System confirms that the **actual, required UVC dose is delivered to the targeted areas being disinfected providing the proof of compliance you demand.**



The RD UVC system eradicates the following harmful pathogens, among others:

- *Clostridioides difficile (C.diff)*
- *Staphylococcus aureus*
- *Pseudomonas aeruginosa*
- Methicillin-resistant *Staphylococcus aureus* (MRSA)
- Vancomycin-resistant *Enterococcus* (VRE)
- *Acinetobacter baumannii*
- *Klebsiella pneumoniae*
- Norovirus
- Carbapenem-resistant Enterobacteriaceae (CRE)
- *Candida auris*

## Protect patients and staff against Multi-drug resistant organisms and other harmful pathogens.

Pathogen transmission – resulting in healthcare-associated infections – costs hospitals billions of dollars annually. In a day of high-reliability healthcare and value-based purchasing, hospitals need to choose technologies that **can be measured** and are able to provide the data needed **to show proof of compliance**. The RD UVC System is the adjunct solution hospitals need to maximize their clinical outcomes and reduce patient-care costs. It kills viruses, bacteria and spores that manual cleaning methods can miss.

# RD UVC

## Deliver the correct UVC dose, every time.

Challenge devices are designed to verify that devices and/or equipment processes are properly functioning. The RD UVC System is the only UVC system that uses proven, **patented**, remote UVC sensor challenge devices. Each challenge device measures the actual UVC dose it receives at the target areas, and reports it to the emitter in real time. The emitter will stay on until all challenge device sensors have received the minimum dose required to eradicate the target pathogen, every time! The collected delivered dose and treatment data is critical for records and reports that can be evaluated for **proof of compliance**.



### REACHES SHADOWED AREAS

Proper UVC dosing reaches all points of interest in your desired areas, including those in shadowed areas.

### DELIVERS DISINFECTION PROOF

Utilization data lets you know which areas have been treated – by whom, how often, and the time spent per area – for assured-dose UVC disinfection.

### EASY TO USE/OPERATOR-FRIENDLY

The single-tower design allows staff to easily transport the RD UVC System from room to room.

### OFFERS THE FASTEST THROUGHPUT<sup>2</sup>

RD UVC System's proprietary "pause and reposition" feature significantly reduces treatment time to ensure that you are ready for your next patient.

### MEASURES THE REQUIRED DOSE

Patented, wireless, remote sensors confirm that the RD UVC System delivers the required amount of total UVC light to eradicate pathogens.

### RECORDS COMPREHENSIVE DATA

The RD UVC System records the UV dose delivered to the target and automatically uploads comprehensive job data and proof of compliance to your secure portal.

### REPORTS IN REAL TIME

RD IN-TRAK™ Visualization Software creates real-time UV disinfection reports that are customized for IP, EVS or administration – with confirmation of dose delivered to the target for proof of compliance.



**OR/ICU**  
Quicker disinfection turnaround times means you can schedule more multidisciplinary procedures per room.



**Patient Room**  
Adds a new level of disinfection – following routine terminal cleaning – to each patient room.