Advanced Ultraviolet Disinfection Simplified
The Need for Enhanced Environmental Hygiene

721,800 HAI$^1$ occur nationally, affecting 6,146 hospitals$^2$ annually with an estimated attributable cost of $24,000$^3 per HAI.

Pathogens Survive on surfaces from days to years.$^4$

Less than 50% of hospital room surfaces are adequately cleaned and disinfected.$^5$

200% - 300% Greater Risk of infection if prior room occupant was contaminated with an infectious pathogen.$^6$

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5. Carling P. AJIC 2013;41:S20-S25
How UV-C Works: No-Touch Disinfection Rooted in Science

The UVDI-360 Room Sanitizer Inactivates Pathogens with Germicidal Ultraviolet Light

- UV-C wavelengths are naturally produced by the sun, yet do not penetrate the ozone layer.
- Unlike UV-A and UV-B, UV-C wavelengths between 200 and 280 nanometers have been proven to be germicidal by nature.
- The UVDI-360 Room Sanitizer’s lamps emit the same powerful germicidal UV-C wavelengths as the sun.
- UVDI has harnessed germicidal UV-C power for proven disinfection of air, water and surfaces for over 70 years.

How 254 nm UV-C Energy Inactivates Pathogens

UV-C energy alters the DNA of microorganisms preventing them from reproducing and causing them to become non-pathogenic, or incapable of causing disease.

The 254 nm energy damages the DNA of the pathogens
Proven to Help Decrease Healthcare-Associated Infections in published clinical studies

99.99% Inactivation of Over 35 Pathogens, including *C. difficile* spores and SARS-CoV-2

Rapid, Efficient UV-C Disinfection: 10 minutes for an average-size patient room and 5 minutes for the bathroom

360° Surface Coverage Confirmation with proprietary UV Dose Verify™ technology

Intuitive Ease of Use | Cloud-Based Analytics

Designed for User Safety

Only Weighs 88 lb.

36" Wide
Advanced Ultraviolet Disinfection *Simplified*

**Performance by Design**

**Patented Powerful UV Technology**
- Generates maximum output UV-C light from 62" long lamp technology.

**Polymer-Encapsulated UV Lamps**
- Enhances user safety by containing glass in case of bulb breakage.

**Highly Reflective Aluminum Mast**
- Amplifies lamp intensity, reach and room coverage.

**Infrared Motion Sensors**
- Four infrared motion sensors prevent device operation if people are present.

**Color Touchscreen**
- Manage rooms, locations and operators for reporting analytics.
- Large color touchscreen for ease of operation.

**Mobile Device App**
- Allows for remote cycle status and operation.
- Uses BLE technology to automatically communicate between the app and the UVDI-360.

*OS/Android

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**Proven Clinical Results | Improved Patient Outcomes**

The UVDI-360 Room Sanitizer reduced *C. difficile infection (CDI)* rates by **25%** and prevented **$134,568-$191,604** annual direct medical costs.*

- David Pegues, MD, et. al., Hospital of University of Pennsylvania, *Infection Control and Hospital Epidemiology* 2017

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**Proven Efficacy and Performance**

**Performance Validated by Independent Laboratory Micro-efficacy Testing:**
- 99.99% inactivation of over 35 pathogens in 5 minutes at 8 feet, including *C. difficile* spores and MRSA.
- 99.99% inactivation of SARS-CoV-2 in 5 minutes at 12 feet.

### 99.99% inactivation in 5 minutes at 8 feet | 12 feet for SARS-CoV-2

<table>
<thead>
<tr>
<th></th>
<th>≥ 4.0 Log Reduction</th>
<th>≥ 5.0 Log Reduction</th>
<th>≥ 6.0 Log Reduction</th>
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<tbody>
<tr>
<td><strong>Fungi</strong></td>
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<tr>
<td>• Candida auris†</td>
<td>• Candida albicans</td>
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<tr>
<td><strong>Bacterial Spores</strong></td>
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<td>• Clostridium difficile</td>
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<td><strong>Viruses</strong></td>
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<td>• Adenovirus</td>
<td>• Ebola</td>
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<td>• Hepatitis A Virus</td>
<td>• Enterovirus 6B</td>
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<td>• Hepatitis C Virus††</td>
<td>• Herpes Simplex Virus 1</td>
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<td>• Herpes Simplex Virus 2</td>
<td>• Influenza A Virus (H1N1)</td>
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<td>• Human Coronavirus</td>
<td>• Middle East Respiratory Syndrome Coronavirus (MERS-CoV)</td>
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<td>• Measles Virus</td>
<td>• Norovirus†††</td>
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<td>• Respiratory Syncytial Virus</td>
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<td>• Rotavirus</td>
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<td>• Severe Acute Respiratory Syndrome Coronavirus-2 (SARS-CoV-2)</td>
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<tr>
<td><strong>Bacteria</strong></td>
<td>• Acinetobacter baumannii</td>
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<td>• Bordetella pertussis</td>
<td>• Enterococcus aecalis</td>
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<td>• Escherichia coli</td>
<td>• Klebsiella pneumoniae</td>
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<td>• Listeria monocytogenes</td>
<td>• Proteus mirabilis</td>
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<tr>
<td>• Methicillin-resistant Staphylococcus aureus (MRSA)</td>
<td>• Serratia marcescens</td>
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<tr>
<td>• Mycobacterium bovis (TB surrogate)</td>
<td>• Enterobacter aerogenes</td>
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<td>• Pseudomonas aeruginosa</td>
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<td>• Salmonella enterica</td>
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<td>• Staphylococcus aureus</td>
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<td>• Staphylococcus epidermis (coagulase-negative, CoNS)</td>
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*Based on independent laboratory testing† Between 3-and-4-log reduction achieved at 20 minutes†† Via bovine viral diarrhea virus surrogate††† Via feline calicivirus surrogate

**Proven Clinical Results | Inactivation of High-Risk Pathogens**

“...the **UVDI-360 Room Sanitizer**...was **effective in 5-10 minutes** in eliminating >5-log MRSA and Carbapenem-Resistant Klebsiella Pneumoniae when the surfaces were in **direct line of sight** and >4-log when the surfaces were in **indirect line of sight.**”

- William Rutala, MS, MPH, PhD, Director of Hospital Epidemiology, et. al., UNC School of Medicine

*Infection Control and Hospital Epidemiology 2016*

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UV Dose Verify™ Technology

Proprietary UV Dose Verify™ technology confirms the necessary germicidal UV-C dose has reached a target surface, whether indirect or direct line of sight to the device. UV Dose Verify™ is also used to set or adjust cycle protocols for any room type.

- UV-C sensitive label in the center of the cards changes color from yellow to green when exposed to UV-C energy. The color change is calibrated to specific germicidal dose levels — the greater the UV-C dose on a surface, the darker the green color change.

- Independent laboratory testing validated color change associated with 2-log [99%] reduction for MRSA and *C. difficile* spores.

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Proven Results | Dose Verification

“Color change from **yellow to dark green** on device dose indicators was used to **verify** that adequate **UV light to kill** *C. difficile* and **methicillin-resistant Staphylococcus aureus** was emitted.”

- Lisa Maragakis, MD, MPH, Senior Director of Infection Prevention and Associate Professor of Medicine, et. al.  
  The Johns Hopkins Health System.  
  *Infection Control and Hospital Epidemiology* 2016

Rapid, Efficient UV-C Disinfection

Disinfection without Workflow Disruption

The UVDI-360 Room Sanitizer generates high intensity UV-C germicidal light using only four maximum output 62” lamps. The combination of long lamp technology and our proprietary highly reflective aluminum mast enables rapid disinfection of different room types integrating with - and not disrupting - your workflow.

Patented Powerful UV-C Lamp Technology

- **Long Lamp Technology**: 62” high-powered lamps.
- **254 nm UV-C Output**: powers photochemical destruction of microorganism DNA via absorption of UV-C light.
- **Sustainable Solution**: uses only four lamps tested to last 4,000 hours; other UV devices use up to 28.
- **Rigorously Tested** during manufacturing process to ensure lamp power, efficiency, quality and safety.
Designed for User Safety

Built to Protect Those who Protect Us

• **Bulb Breakage Protection**: lamps are encapsulated with built-in polymer casing to contain glass in case of bulb breakage.

• **Embedded Infrared Motion Sensors**: prevent device operation if people are present.

• **Lightweight**: only 88 lb. with a compact base for ease of mobility.

• **2-in-1 Protective Case**: durable case protects both device and serves as in-use door signage.
Intuitive Device Use

Device Operation and Data Management Made Simple

Enhance your disinfection protocols without substantial workflow increases. The UVDI-360 includes several automated features to simplify operation and data management.

Color Touchscreen Interface and Operation System

- Record specific operator information
- Store and save hospital locations for ease of use and monitoring device use for those locations

Program Location-Specific Cycles  

Cycle Time

- Input and run device cycles
- View lamp life status; receive automated on-screen notifications of lamp errors.
- Upload usage history to the cloud-based Smart Data portal

Automated Device Operation via the UVDI-360 Mobile App (iOS/Android)

- Allows for remote cycle operation in two taps
- Uses BLE technology to automatically communicate between app and device
- Includes a complimentary Apple® iPod
Cloud-Based Analytics | Smart Data Portal

- Provides analytical and diagnostic tools that help you determine where, when, and how UV systems are working
- Outputs custom reports that can be filtered by multiple parameters including specific devices, dates, operators and rooms
- Supports data-based communication of the value of and investment in UV-C treatment to facility leadership
- Protects device and user data in secure password-protected online hub

Additional Online Resources

![Data Analytics](Image)

![In-Servicing Tools](Image)

![Training Videos](Image)
70 Years of UV-C Expertise

- Globally trusted: Over 2,000 UVDI-360 Room Sanitizers are used in approximately 1,000 leading hospitals in more than 25 countries.
- Next generation technology: developed, rigorously tested and certified to the highest quality standards.
- UVDI is proud to be a certified Minority Business Enterprise.

Comprehensive Technical Support

- Each device purchase includes a complimentary 1-year Classic Service Contract.
- Service Contracts can be expanded for multi-year coverage and more comprehensive care.
- 24 hour response time to any inquiry via dedicated phone and online support team.

Dedicated Training and Support

- Device-only national sales team support.
- In-service and training tools to ensure your team is empowered to operate your UV system.
- Ongoing support to design potential solutions to workflow issues.

Public Relations Support

UV device use and better patient outcomes can contribute to better HCAHPS scores. UVDI will:

- Assist with informing your community about enhanced initiatives to protect patients and staff.
- Spotlight your enhanced patient-and-staff protection with in-facility marketing.