Advanced Ultraviolet Disinfection

Proven to

Deliver No Touch Surface Disinfection
Reduce Hospital Acquired Infections
Improve Patient Outcomes
Why is Environmental Disinfection Important?

**Less than 50%** of hospital room surfaces are adequately cleaned and disinfected¹

1 Carling P. AJIC 2013;41:S20-S25

**Pathogens Survive** on surfaces from days to years²


**Environmental Contamination Leads to HAIs** - the growing body of evidence proves the hospital environment contributes to disease transmission³


**200% - 300% Greater Risk** of infection if prior room occupant was contaminated with an infectious pathogen⁴

⁴ Otter, Yezli, French. ICHE. 2012;32:687-699

**1.7 million HAIs** occur per year in acute-care hospitals, resulting in $35 - $45 billion in healthcare costs annually⁵

Delivers “No Touch” Surface Disinfection

UVDI-360 Room Sanitizer Produces Ultraviolet Germicidal Radiation to Kill Microorganisms

UV-C Wavelength 200 nm - 280 nm
• UV-C, which is produced naturally in sunlight, cannot penetrate the ozone layer
• UVDI-360 produces the same UV-C radiation through its germicidal lamps
• Widely used for air, water and surface disinfection for years

The Effect of UV-C 254 nm Energy

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

**UVDI-360 Room Sanitizer**

- **Powerful 1.6 m Long Lamp Technology**
  - Designed with four 1.6 m maximum UV output lamps providing 360 degrees of UV radiation
  - Lamps are encapsulated with a special UV-transparent polymer to contain glass in case of breakage

- **Aluminum Reflector Mast**
  - Designed for maximum UV-C energy distribution

- **Remote Control**
  - Device has a range of 15 m through walls

- **Touch Screen**
  - Easy and intuitive touch screen operating system

- **Data Retention**
  - Saves usage data for every cycle performed by device

- **Safe to Use**
  - Four infrared motion sensors prevent operation if movement is detected within the room

- **Lightweight**
  - Only weighs 40 kg - durable and easy to move

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*Dimensions:*
- **Width (W):** 91 cm
- **Height (H):** 184 cm
Smart Data Web Portal

The UVDI-360 System features an optional robust website that leverages data uploaded from your device.

- Provides analytical and diagnostic tools that help you determine where, when, and how all your UV devices are working

UV Dose Verify™ Technology

- Verifies that a specific UV-C dose has been received on a target surface
- UV-C sensitive cards change color when exposed to UV-C energy. The color change is calibrated to specific germicidal dose levels
- Independent laboratory testing validated color change associated with 2 log (99%) reduction for MRSA and C. difficile
- Used for establishing room disinfection protocols, quality audits, training and record keeping

UV Dose Verify is calibrated and designed for exclusive use only with the UVDI-360 Room Sanitizer and is not to be used with any other UV disinfection device.

Protective Case

2-in-1 Lamp Protective Case and Warning Signs

When closed, the case serves as a lamp protective case and when opened, the two halves of the case can be used separately as two independent warning signs.
Room Disinfection Protocols

The UVDI-360 Room Sanitizer delivers a programmed dose of UV-C light to inactivate pathogens on hospital surfaces. After terminal cleaning is complete, prepare the room for UV disinfection. Depending on the room size, protocols may vary slightly. Below is an example of a patient room prepared for UV disinfection.

Before Use

Follow the simple steps listed below to ensure a successful outcome:

- Ensure bed rails are up and linens are removed from the mattress
- Open all drawers and cabinet doors

Place the following objects in clear line of sight of the UVDI-360 Room Sanitizer:

- TV Remote
- Call Button Device
- Keyboard and Monitor
- Phone
- Bedside Table
- Other High-touch Items
This UV-C device (UVDI) allowed room decontamination in 5 - 10 minutes

- Dr. William Rutala, Director, Hospital Epidemiology, The University of North Carolina Health Care

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

- David Pegues, MD, Professor of Medicine, Hospital of the University of Pennsylvania (Leading teaching hospital in the USA)

UV-C technology implementation was associated with a 44% reduction in viral infection incidence among pediatric patients in a long-term care facility

- St. Mary’s Hospital for Children

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**Efficacy and Performance**

Outputs UVC at 254 nm

**5 @ 2.44 = 99.992%**

minutes meters reduction

**Independent Laboratory Testing Efficacy**

*Testing Conducted by a Third Party Lab in the USA* *

<table>
<thead>
<tr>
<th>Microorganism</th>
<th>Distance (meters)</th>
<th>Time (minutes)</th>
<th>% Reduction Compared to Control</th>
<th>Log Reduction Compared to Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methicillin-Resistant Staphylococcus aureus [MRSA]</td>
<td>2.44</td>
<td>3</td>
<td>&gt;99.999%</td>
<td>&gt;5.69</td>
</tr>
<tr>
<td>Clostridium difficile [endospores]</td>
<td>2.44</td>
<td>5</td>
<td>99.992%</td>
<td>4.09</td>
</tr>
<tr>
<td>Escherichia coli [E. coli] [carbapenem-resistant; CRE]</td>
<td>2.44</td>
<td>5</td>
<td>99.9995%</td>
<td>5.33</td>
</tr>
<tr>
<td>Pseudomonas aeruginosa</td>
<td>2.44</td>
<td>5</td>
<td>99.9998%</td>
<td>5.7</td>
</tr>
<tr>
<td>Acinetobacter baumannii</td>
<td>2.44</td>
<td>5</td>
<td>99.9996%</td>
<td>5.38</td>
</tr>
<tr>
<td>Vancomycin-Resistant Enterococci [VRE]</td>
<td>2.44</td>
<td>5</td>
<td>99.997%</td>
<td>4.52</td>
</tr>
<tr>
<td>Klebsiella pneumoniae</td>
<td>2.44</td>
<td>5</td>
<td>100%</td>
<td>5.26</td>
</tr>
</tbody>
</table>

*Antimicrobial Test Laboratories, Round Rock, TX USA. December 2014*
Bringing over 70 years of Experience in UV Technology

Trusted History
Spanning three generations, a family owned business that continues to look to the future

Technology Leadership
The people, experience and R&D assets driving industry-leading innovation in UV disinfection

Rapid Growth
Serving many countries around the world
Partnered with Clorox Healthcare in USA and Canada

UVDI Offers A Broad Range of UV Devices for Multiple Applications

Surfaces
Mobile UV devices for disinfection of hospital rooms. Currently used in hundreds of hospitals worldwide

Air
UV air and coil disinfection products installed in over 1,000 hospital HVAC systems

Water
Providing millions of people worldwide with safe, clean water disinfected by UV

International Growth

USA  CANADA  MEXICO  CHILE  ECUADOR  URUGUAY  UNITED KINGDOM  GERMANY  THE NETHERLANDS  SCANDINAVIA  SWITZERLAND  BELGIUM
SPAIN  GREECE  SLOVENIA  CROATIA  ROMANIA  CZECH REPUBLIC  HUNGARY  SOUTH AFRICA  EGYPT  TURKEY  SAUDI ARABIA  UNITED ARAB EMIRATES (UAE)  ISRAEL  QATAR  INDIA  JAPAN  HONG KONG  SINGAPORE