Since 1963, Atlantic Ultraviolet Corporation® has pioneered the discovery and development of beneficial uses of ultraviolet energy. Over the years these efforts have led to the development of valuable, cost effective and environmentally sound techniques and products now known and respected throughout the world.

The UV Application Specialists at Atlantic Ultraviolet Corporation® assist customers in the selection of germicidal lamps and equipment. Their specialized knowledge is a valuable resource in formulating effective and cost-conscious ultraviolet solutions. Extensive inventories and a dedicated staff enable Atlantic Ultraviolet Corporation® to fulfill its commitment to provide fast deliveries and responsive customer service.

Ultraviolet is a unique and rapid method of disinfection. It utilizes germicidal ultraviolet lamps producing short-wave radiation at 254 nanometers (nm)—a wavelength highly lethal to bacteria, virus, and other microorganisms.

An ever growing range of industries and consumer applications have found ultraviolet to be the ideal solution for their air and surface treatment needs.

Atlantic Ultraviolet Corporation® equipment and systems are manufactured in the USA.
**ADVANTAGES**

**Effective**  
Virtually all microorganisms are susceptible to **Biolux® ultraviolet disinfection**.

**Economical**  
Fixtures require very little power to operate.

**Fast**  
Disinfects both air and exposed surfaces in seconds.

**Easy**  
Simple installation and maintenance

**Automatic**  
Continuous disinfection without special attention.

**Durable**  
Stainless Steel - Polished Chrome - Aluminum Construction.

**Versatile**  
Numerous models available to handle various applications.

**Low Maintenance**  
Routine cleaning and annual lamp replacement is required.

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**PRINCIPLE OF OPERATION**

The **Biolux®** line of germicidal ultraviolet fixtures has been carefully designed to provide direct ultraviolet exposure for air and/or surface disinfection.

**Biolux®** Germicidal Fixtures use short-wave (254 nm) ultraviolet lamps (also referred to as uvc or germicidal ultraviolet) in various style equipment to deactivate a wide range of microorganisms.

Hand held or stand style fixtures (NO4G, NO4GS, NO6G, NO6GS) are ideal for spot disinfection. These fixtures require no set up or installation and are ready to use out of the carton.

The 4 watt through 30 watt strip style fixtures are ideal for a more permanent installation where disinfection will be necessary and constant. Applications include but are not limited to conveyor belts, disinfection cabinets and laboratory hoods.

**Biolux®** Germicidal Fixtures should be utilized when space is **unoccupied** or when user and occupants take appropriate protective measures.

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Ultraviolet Rays

Figure 1 - Circulated room air and any exposed surfaces are irradiated with direct germicidal ultraviolet rays.
**Biolux® Germicidal Ultraviolet Strip Fixture**

Biolux® Germicidal Fixtures utilize direct germicidal ultraviolet exposure for air and surface disinfection. Our UV Application Specialists would be happy to perform the necessary calculations to ensure the fixture selected is appropriate for your particular application.

**Applications:**
Laboratories, Conveyor Belts, Cabinets, Hoods
Biolux® Germicidal Ultraviolet Fixture NO4G, NO4GS, NO6G and NO6GS

Biolux® Germicidal Fixtures utilize direct germicidal ultraviolet exposure for air and surface disinfection. Our UV Application Specialists would be happy to perform the necessary calculations to ensure the fixture selected is appropriate for your particular application.

Applications:
Spot Treatments, Lab Testing, UVC Exposure Testing
**Biolux® Germicidal Ultraviolet Fixture WE10**

**Biolux® Germicidal Fixtures** utilize direct germicidal ultraviolet exposure for air and surface disinfection. Our UV Application Specialists would be happy to perform the necessary calculations to ensure the fixture selected is appropriate for your particular application.

**SPECIAL FEATURES—WE10 FIXTURE**

**Steadfast™ Lampholders**
Set includes a stationery and a spring-loaded, telescopic holder that holds a single pin lamp securely. The spring-loaded feature on one end facilitates convenient, quick and easy lamp changes.

**STER-L-RAY® Germicidal Ultraviolet Lamp**
Cold Cathode Lamp with Armorlite™ Safety Shield that ensures protection for employees, products and work environment by preventing the dangers associated with fragments of broken quartz.

**Applications:**
Small tanks, hoods, laboratories

The **Biolux® WE10** is available in either 120v or 220v with a Dry Contact option.
### SPECIFICATIONS—STRIP, STAND, HAND-HELD & WE10 FIXTURES

Proper placement of the **Biolux®** Germicidal Fixture is essential, to ensure safe and effective operations; the location should have an appropriate power source, not be mounted under any source of moisture or condensation, and be easily accessible and allow enough clearance for routine cleaning or maintenance.

#### Table of Ultraviolet Output, Dimensions, and Lamp Life

<table>
<thead>
<tr>
<th>Model</th>
<th>Lamp</th>
<th>Total Ultraviolet Output</th>
<th>Dimensions</th>
<th>Rated Lamp Life (Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Watt Strip Fixture</td>
<td>05-1110</td>
<td>0.5 Watts</td>
<td>Length: 9&quot; Width: 1-3/8&quot; Height: 2-1/8</td>
<td>9,000</td>
</tr>
<tr>
<td>6 Watt Strip Fixture</td>
<td>05-1109</td>
<td>1.0 Watts</td>
<td>Length: 12&quot; Width: 1-3/8&quot; Height: 2-1/8</td>
<td>9,000</td>
</tr>
<tr>
<td>8 Watt Strip Fixture</td>
<td>05-1108</td>
<td>1.6 Watts</td>
<td>Length: 15&quot; Width: 1-3/8&quot; Height: 2-1/8</td>
<td>9,000</td>
</tr>
<tr>
<td>15 Watt Strip Fixture</td>
<td>05-1105</td>
<td>3.6 Watts</td>
<td>Length: 19-1/2&quot; Width: 2-5/8&quot; Height: 3-1/2&quot;</td>
<td>9,000</td>
</tr>
<tr>
<td>25 Watt Strip Fixture</td>
<td>05-1107</td>
<td>5.0 Watts</td>
<td>Length: 19-1/2&quot; Width: 2-5/8&quot; Height: 3-1/2&quot;</td>
<td>9,000</td>
</tr>
<tr>
<td>30 Watt Strip Fixture</td>
<td>05-1106</td>
<td>8.3 Watts</td>
<td>Length: 37-1/2&quot; Width: 2-5/8&quot; Height: 3-1/2&quot;</td>
<td>9,000</td>
</tr>
<tr>
<td>NO4G Hand-held Fixture</td>
<td>05-1110</td>
<td>0.5 Watts</td>
<td>Length: 6-3/16&quot; Width: 3-21/32&quot; Height: 3-11/16&quot;</td>
<td>9,000</td>
</tr>
<tr>
<td>NO4GS Stand Fixture</td>
<td>05-1110</td>
<td>0.5 Watts</td>
<td>Length: 6-3/16&quot; Width: 3-21/32&quot; Height: 8-1/8&quot;</td>
<td>9,000</td>
</tr>
<tr>
<td>NO6G Hand-held Fixture</td>
<td>05-1109</td>
<td>1.0 Watts</td>
<td>Length: 7-11/16&quot; Width: 3-21/32&quot; Height: 3-11/16&quot;</td>
<td>9,000</td>
</tr>
<tr>
<td>NO6GS Stand Fixture</td>
<td>05-1109</td>
<td>1.0 Watts</td>
<td>Length: 7-11/16&quot; Width: 3-21/32&quot; Height: 8-1/8&quot;</td>
<td>9,000</td>
</tr>
<tr>
<td>WE10 Fixture</td>
<td>05-1345</td>
<td>2.9 Watts</td>
<td>Length: 17-1/4&quot; Width: 5-1/2&quot; Height: 3-1/2&quot;</td>
<td>20,000</td>
</tr>
</tbody>
</table>

① Ultraviolet Output at 254 nanometers at 100 hours and 80 degrees F (approximate).

Atlantic Ultraviolet Corporation® equipment is manufactured in USA.

**CAUTION:** Exposure to direct or reflected germicidal ultraviolet rays will cause painful eye irritation and reddening of the skin. Personnel subject to such exposure must wear suitable faceshield, gloves and protective clothing.

**Hg** - LAMP CONTAINS MERCURY, manage in accord with disposal laws, see LampRecycle.org.
OPTIONAL ACCESSORIES

**ArmorLite™ Safety Shield**
Protective coating applied to STER-L-RAY® Germicidal Lamps ensures protection for employees, products and work environments by eliminating the dangers associated with fragments of broken lamps. (Lamp on right has ArmorLite™ coating. Available for STER-L-RAY® lamps used in ALL Biolux® fixtures at the time of purchase. The coating is installed at the factory.)

**Zenith™ UV-C Detector**
The Zenith™ UV-C Detector is a sensitive hand-held, self-contained battery operated ultraviolet meter that can be used for:
- Monitoring UV-C Germicidal Lamp Intensity & Aging
- Measuring UV-C Germicidal Fixture Leakage

**Promate™ Safety Glasses**
Safety eyewear should be used as general-purpose safety protection and for additional shielding from germicidal ultraviolet rays.

**Promate™ Face Shield**
Lightweight visor with adjustable headgear provides eye and face protection from germicidal ultraviolet rays.

**STER-L-RAY® GERMICIDAL OPERATING CHARACTERISTICS**

**Relative Spectral Energy Distribution (Typical)**

**Germicidal Effectiveness As Related to Wavelength**
GENUINE STER-L-RAY® GERMICIDAL LAMPS

**STER-L-RAY®** Germicidal Lamps are shortwave, low pressure tubes that produce ultraviolet wavelengths lethal to microorganisms. Approximately 95% of the ultraviolet energy emitted from **STER-L-RAY®** germicidal lamps is at 254 nanometers, the region of germicidal effectiveness most destructive to bacteria, mold and virus.

**STER-L-RAY®** Hot Cathode Germicidal Lamps utilize tungsten filaments. Lamp life is governed by the life of the filaments and is affected by the frequency of starting. **STER-L-RAY®** lamps are well suited for a variety of air and surface applications.

**STER-L-RAY®** Cold Cathode Germicidal Lamps are instant start and used in the Biolux® Model WE10. They utilize large, cylindrical cathodes instead of tungsten filaments. **STER-L-RAY®** Cold Cathode Germicidal Lamps possess favorable operating characteristics; their life is significantly longer than that of other lamp types. They are not adversely affected by the frequency of starting and they maintain a high ultraviolet output throughout their life, even at reduced temperatures. Cold cathode germicidal lamps are widely used in walk-in refrigerators and holding rooms, and are also employed in applications where frequent starting is a requirement.

**STER-L-RAY®, ArmorLite™, and Biolux®, and the STER-L-RAY®, ArmorLite™, and Biolux® logo** are trademarks of Atlantic Ultraviolet Corporation®.

**CAUTION:** Exposure to direct or reflected germicidal ultraviolet rays will cause painful eye irritation and reddening of the skin. Personnel subject to such exposure must wear suitable face shield, gloves and protective clothing.

Hg - LAMP CONTAINS MERCURY, manage in accord with disposal laws, see: LampRecycle.org.

ULTRAVIOLET DOSAGE

Germicidal lamps provide effective protection against microorganisms. A small cross-section is shown below.

<table>
<thead>
<tr>
<th>ORGANISM</th>
<th>ALTERNATE NAME</th>
<th>TYPE</th>
<th>DISEASE</th>
<th>DOSE*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corynebacterium diphtheriae</td>
<td>C. diphtheriae</td>
<td>Bacteria</td>
<td>Diptheria</td>
<td>6,500</td>
</tr>
<tr>
<td>Legionella pneumophila</td>
<td>L. pneumophila</td>
<td>Bacteria</td>
<td>Legionnaire’s Disease</td>
<td>12,300</td>
</tr>
<tr>
<td>Mycobacterium tuberculosis</td>
<td>M. tuberculosis</td>
<td>Bacteria</td>
<td>Tuberculosis (TB)</td>
<td>10,000</td>
</tr>
<tr>
<td>Pseudomonas aeruginosa</td>
<td>P. aeruginosa</td>
<td>Bacteria</td>
<td></td>
<td>3,900</td>
</tr>
<tr>
<td>Serratia Marcescens</td>
<td>S. marcescens</td>
<td>Bacteria</td>
<td></td>
<td>6,160</td>
</tr>
<tr>
<td>Staphylococcus aureus</td>
<td>S. aureus</td>
<td>Bacteria</td>
<td></td>
<td>6,600</td>
</tr>
<tr>
<td>Staphylococcus epidermidis</td>
<td>S. epidermidis</td>
<td>Bacteria</td>
<td></td>
<td>5,800</td>
</tr>
<tr>
<td>Adeno Virus Type III</td>
<td></td>
<td>Virus</td>
<td></td>
<td>4,500</td>
</tr>
<tr>
<td>Coxsackie A2</td>
<td></td>
<td>Virus</td>
<td></td>
<td>6,300</td>
</tr>
<tr>
<td>Influenza</td>
<td></td>
<td>Virus</td>
<td>Flu</td>
<td>6,600</td>
</tr>
</tbody>
</table>

* Nominal Ultraviolet dosage (µWSec/cm²) necessary to inactivate better than 99% of specific microorganism. Consult factory for more complete listing.
OTHER GERMICIDAL UV-C EQUIPMENT AVAILABLE

Product Overview

- For **occupied** areas, in many configurations to adapt to any setting
- Sanitizers are constructed of tough, corrosion-resistant 304 stainless steel
- Blower capacity 72 to 2680 CFM (Cubic Feet Per Minute), Max treatment 3240–120,000 CFH
- Destroys harmful bacteria, mold and virus in the air
- Fixtures may be mounted into drop ceiling, on a wall or for portable use
- Washable Electrostatic, Absolute HEPA or disposable particulate filters

Sample of Applications

- Food Processing, Pharmaceutical, Manufacturing Dairy Plants, Bakeries, Methadone Clinics, Clean Rooms, Homeless Shelters, Prisons and Jails, etc.

Product Overview

- For use in **occupied** areas. Upper room portion must be unoccupied; proper precautions must be taken
- Sanitizers are constructed of tough, corrosion-resistant 304 stainless steel
- Destroys harmful bacteria, mold, and virus in the air carried into the UV-C field
- Uses baffles to direct rays to the upper portion of a room

Sample of Applications

- Hospitals, Laboratories, Clean Rooms, Operating Rooms, ICU’s, Burn Centers, Doctors Office, Homeless Shelters, Methadone Clinics, Dairy Plants, etc.

Product Overview

- Disinfects air and surfaces in **unoccupied** areas by means of germicidal irradiation
- Sanitizers are constructed of tough, corrosion-resistant 304 stainless steel
- Generates high levels of ultraviolet radiation lethal to bacteria, mold, virus, and fungi
- Portable, compact and lightweight, easily carried from one location to another
- A room as large as 1,000 sq. ft can be treated in one hour

Sample of Applications

- Hospitals, Laboratories, Clean Rooms, Operating Rooms, ICU’s, Burn Centers, Doctors Office, Homeless Shelters, Methadone Clinics, Dairy Plants, etc.
OTHER GERMICIDAL UV-C EQUIPMENT AVAILABLE

AeroLogic®
ULTRAVIOLET AIR DUCT DISINFECTION SYSTEMS

Product Overview
• Fixtures can be installed in new or existing duct systems
• Fixtures are constructed of tough, corrosion-resistant 304 stainless steel
• Destroys airborne microbes, including bacteria and virus in forced air duct systems
• Fixtures can be sized to provide up to a 98% bacteria kill rate

Sample of Applications
Homes, Hospitals, Labs, New or Existing Forced Air Ducts etc.

SaniLIGHT™
GERMICIDAL ULTRAVIOLET IRRADIATORS

Product Overview
• For ceiling or wall mount in unoccupied areas, or when proper precautions are taken
• Fixtures are constructed of tough, corrosion-resistant 304 stainless steel
• Irradiates room air and exposed surfaces with direct germicidal ultraviolet rays
• Very effective due to the long, unobstructed path of the rays

Sample of Applications
Labs, Clean Rooms, Operating Rooms, etc.

Sani-Ray®
GERMICIDAL ULTRAVIOLET RECESSED FIXTURES

Product Overview
• For use in unoccupied space, or when proper precautions are taken
• Fixtures are constructed of tough, corrosion-resistant 304 stainless steel
• Irradiates air and exposed surfaces with direct germicidal ultraviolet rays
• For ceiling or wall mount, with handles for portable use
• Very effective due to the long, unobstructed path of the rays

Sample of Applications
Labs, Clean Rooms, Operating Rooms, Conveyor Belts, etc.

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