Biolux®
GERMICIDAL ULTRAVIOLET FIXTURES

Strip Fixture
Model NO6GS
Model NO4G
WE10 Fixture

SINCE 1963
ATLANTIC ULTRAVIOLET CORPORATION®
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 utilizing germicidal ultraviolet lamps that produce short-wave radiation at 254 nanometers (nm) that is 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.

---

**PRINCIPLE OF OPERATION**

Figure 1 - Circulated room air and any exposed surfaces are irradiated with direct germicidal ultraviolet rays.

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.
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

---

**On/Off Switch**

**Stainless Steel Stand**

**Steadfast™ Lampholders**
Twist and lock miniature bipin (not shown)

**Aluminum Reflector** (not shown)

**STER-L-RAY® Hot Cathode Germicidal Ultraviolet Lamp**
(see page 9 for information)

**Model NO4GS**

**Model NO6G**
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 and mercury contamination.

Applications:
Small tanks, hoods, laboratories
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>
<thead>
<tr>
<th>Model</th>
<th>Lamp</th>
<th>Total Ultraviolet Output</th>
<th>Dimensions</th>
<th>Rated Lamp Life</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Length</td>
<td>Width</td>
</tr>
<tr>
<td>4 Watt Strip Fixture</td>
<td>05-1110</td>
<td>0.5 Watts</td>
<td>9&quot;</td>
<td>1-3/8&quot;</td>
</tr>
<tr>
<td>6 Watt Strip Fixture</td>
<td>05-1109</td>
<td>1.0 Watts</td>
<td>12&quot;</td>
<td>1-3/8&quot;</td>
</tr>
<tr>
<td>8 Watt Strip Fixture</td>
<td>05-1108</td>
<td>1.6 Watts</td>
<td>15&quot;</td>
<td>1-3/8&quot;</td>
</tr>
<tr>
<td>15 Watt Strip Fixture</td>
<td>05-1105</td>
<td>3.6 Watts</td>
<td>19-1/2&quot;</td>
<td>2-5/8&quot;</td>
</tr>
<tr>
<td>25 Watt Strip Fixture</td>
<td>05-1107</td>
<td>5.0 Watts</td>
<td>19-1/2&quot;</td>
<td>2-5/8&quot;</td>
</tr>
<tr>
<td>30 Watt Strip Fixture</td>
<td>05-1106</td>
<td>8.3 Watts</td>
<td>37-1/2&quot;</td>
<td>2-5/8&quot;</td>
</tr>
<tr>
<td>NO4G Hand-held Fixture</td>
<td>05-1110</td>
<td>0.5 Watts</td>
<td>6-3/16&quot;</td>
<td>3-21/32&quot;</td>
</tr>
<tr>
<td>NO4GS Stand Fixture</td>
<td>05-1110</td>
<td>0.5 Watts</td>
<td>6-3/16&quot;</td>
<td>3-21/32&quot;</td>
</tr>
<tr>
<td>NO6G Hand-held Fixture</td>
<td>05-1109</td>
<td>1.0 Watts</td>
<td>7-11/16&quot;</td>
<td>3-21/32&quot;</td>
</tr>
<tr>
<td>NO6GS Stand Fixture</td>
<td>05-1109</td>
<td>1.0 Watts</td>
<td>7-11/16&quot;</td>
<td>3-21/32&quot;</td>
</tr>
<tr>
<td>WE10 Fixture</td>
<td>05-1345</td>
<td>2.9 Watts</td>
<td>17-1/4&quot;</td>
<td>5-1/2&quot;</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: www.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 and mercury contamination. (Lamp on right has ArmorLite™ coating. (Available for lamps used in All Biolux® fixtures)

**Zenith™ Ultraviolet Meter**
- A sensitive, hand-held, ultraviolet meter that can be used to:
- Survey installations to ensure that the germicidal ultraviolet radiant exposure, of occupants within the treated area, is within acceptable limits. The Zenith™ Ultraviolet Meter provides accurate and easy-to-read levels of intensity that may be interpreted by anyone—not just engineers.
- Check the intensity of aging ultraviolet lamps

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

**Promate™ Face Shield**
Adjustable headgear and lightweight visor provides eye and face protection from germicidal ultraviolet rays.

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

STER-L-RAY® Germicidal Lamps are shortwave, low pressure mercury vapor discharge tubes that produce ultraviolet wavelengths lethal to microorganisms. Approximately 95% of the ultraviolet energy emitted from STER-L-RAY® Germicidal Lamps is at the mercury resonance line of 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.

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>2,700</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>3,400</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
• Units 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 viruses in the air
• Units may be mounted into drop ceiling, on a wall or for portable use
• Washable Electrostatic, Absolute H.E.P. A. or disposable particulate filters

Product Overview
• For use in **occupied areas**, Upper room portion must be unoccupied; proper precautions must be taken
• Units are constructed of tough, corrosion-resistant 304 stainless steel
• Destroys harmful bacteria, mold & viruses in the air carried into the uv field
• Uses baffles to direct rays to the upper portion of a room

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

**SANITAIRE**
ULTRAVIOLET ROOM AIR SANITIZERS

**Sample of Applications**
Food Processing, Pharmaceutical, Manufacturing Dairy Plants, Bakeries, Methadone Clinics, Clean Rooms, Homeless Shelters, Prisons and Jails, etc.

**Hygeaire**
ULTRAVIOLET INDIRECT AIR DISINFECTION

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

**Sanidyne**
ULTRAVIOLET PORTABLE AREA SANITIZERS

**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

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

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

**SaniLIGHT**
GERMICIDAL ULTRAVIOLET IRRADIATORS

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

Product Overview
- For ceiling or wall mount in unoccupied areas, or when proper precautions are taken
- Units 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

**Sani-Ray**
GERMICIDAL ULTRAVIOLET RECESSED FIXTURES

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

Product Overview
- For use in unoccupied space, or when proper precautions are taken
- Units 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

ultraviolet.com • buyultraviolet.com
THE STANDARD OF EXCELLENCE IN ULTRAVIOLET

Manufacturers / Engineers / Sales / Service

SINCE 1963

ATLANTIC ULTRAVIOLET CORPORATION®

375 Marcus Boulevard • Hauppauge, NY 11788 • 631.273.0500 • Fax: 631.273.0771
E-mail: info@ultraviolet.com • ultraviolet.com • buyultraviolet.com

The information and recommendations contained in this publication are based upon data collected by the Atlantic Ultraviolet Corporation® and are believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. Specifications and information are subject to change without notice.

Document No. 98-1144 • August 2017 • ©2017 by Atlantic Ultraviolet Corporation® • MADE IN THE USA