Sanidyne®

GERMICIDAL ULTRAVIOLET PORTABLE AREA SANITIZERS

PRIME REMOTE

143 UV Watts

SINCE 1963

ATLANTIC ULTRAVIOLET CORPORATION®

ABOUT US

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.

PRIME REMOTE

GERMICIDAL ULTRAVIOLET

Germicidal Ultraviolet is a unique and rapid method of disinfection. It utilizes germicidal ultraviolet lamps producing ultraviolet wavelengths at 254 nanometers (nm)—a level 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.

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ADVANTAGES

Efficient

High efficiency **Surelite**™ Electronic Ballasts power up **Sanidyne**® Ultraviolet Portable Area Sanitizers.

Straightforward

Simple use and maintenance.

Fast

A room as large as 1,000 square feet can be disinfected in under 1 hour. (Refer to charts on page 14–15 for specific dosage times.)

Effective

Disinfects both air and exposed surfaces utilizing germicidal ultraviolet (UV-C) wavelength lamps.

Durable

Polished Stainless Steel.

Portable

Fixture is easily transported from one area to another.

Safe

Sanidyne® Prime Remote, **Sanidyne® Plus**, and **Sanidyne® Premium** have occupancy sensors to prevent encroachment incidences.

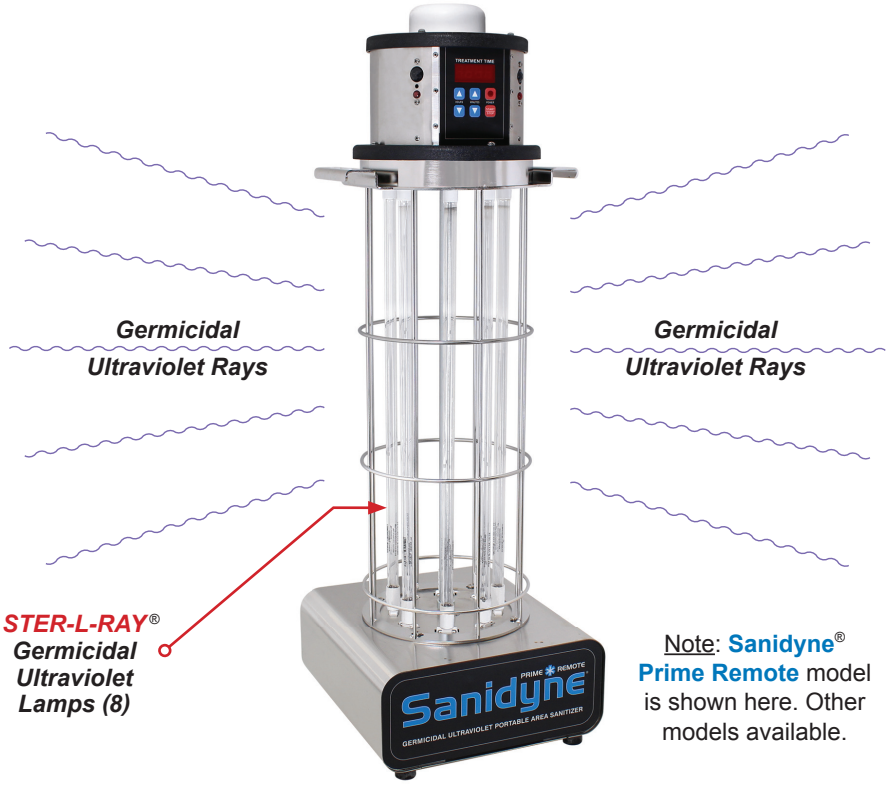
Easy to Use

Fixtures are controlled via electronic keypad.

PRINCIPLE OF OPERATION

The **Sanidyne**® Germicidal Ultraviolet Portable Area Sanitizers have been carefully conceived to provide germicidal UV disinfection for purifying air and exposed surfaces in an **unoccupied** area by means of 8 germicidal ultraviolet lamps. These special lamps generate high levels of germicidal ultraviolet wavelengths lethal to infectious microorganisms such as bacteria, mold, and virus.

The ultraviolet disinfection dosage is a function of time and intensity to which the air and surrounding surfaces are exposed. Our UV Application Specialists would be happy to perform the necessary calculation to ensure the sanitizer we provide is appropriate for your particular application.



Note: **Sanidyne**® **Prime Remote** model is shown here. Other models available.

The operation of the **Sanidyne**® is as follows:

1. Clear room of all occupants (**Sanidyne**® can only be used in **unoccupied** areas). Affix warning signs (included) onto all doors of the room that is to receive the **Sanidyne**® disinfection.
2. Treatment time is set, start button engaged, built-in 1 minute, 30 second delay allows time for operator to leave area.
3. Ultraviolet rays are projected within the **unoccupied** area, for the programmed period of time.
4. The air and exposed surfaces within the room are disinfected. The infectious microorganisms such as bacteria, mold, and virus are inactivated.
5. The **Sanidyne**® treatment cycle ends. Its compact size and lightweight design allows it to be easily moved to the next location that needs disinfection.

SPECIAL FEATURES

Sanidyne® Prime ❄ Remote Germicidal Ultraviolet Portable Area Sanitizer

WiFi Dome

Occupancy Sensors (4)

Lamp Guard
Stainless steel cage that protects ***STER-L-RAY***® lamps.

STER-L-RAY® High Output Germicidal Ultraviolet Lamps
Specially designed high output lamps provide the utmost in quality, sustained output, and longevity (see page 11 for information). **ArmorLite**™ Safety Shield is a protective envelope applied to the germicidal lamps. It provides increased security by eliminating the dangers associated with broken lamps.

Surelite™ Ballasts
State-of-the-art electronic ballasts specifically developed for the operation of ultraviolet lamps. Versatile, programmed start ballasts provide high lamp output; are lightweight, efficient, and operate cool for longer life.

Stainless Steel Construction
Manufactured in Type 304 stainless steel for unparalleled strength, durability and an attractive finish.

Keypad Controller

24-Hour Interval Timer
Easy programmable timer, allows treatment time to be customized to room size.

1-Minute and 30-Second Audible Exit Warning
After start button is engaged, an audible warning sounds for 1 minute and 30 seconds, allowing operator time to leave the area before disinfection cycle begins and ultraviolet lamps are switched on.

Steadfast™ Bayonet Socket Mount Lampholders
Bayonet Socket Mount four-pin lampholders fasten each lamp securely while providing convenient, “quick and easy” lamp change.

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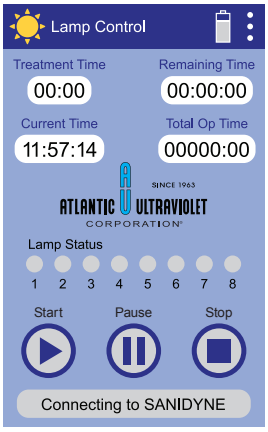
SPECIAL FEATURES

Promate™ Elapsed Time Indicator
Real-time, non-resettable display of accumulated operating hours.

Power Switch

Cord Wrap
Convenient cord storage when **Sanidyne® Prime Remote** is not in use.



Remote
Control your **Sanidyne® Prime Remote** from a distance by using the convenient controller.

Transport Handles
Provide substantial grip when moving **Sanidyne® Prime Remote**.

SPECIFICATIONS—Sanidyne® Prime ❄ Remote Germicidal Ultraviolet Portable Area Sanitizer

Model	Amps	Hertz	Power Consumption ①	Maximum Treatment Time	Lamp (Quantity)	Total UV Output ②	Weight (lbs)	Dimensions (Inches)			Rated Lamp Life
								Length	Width	Height	
120v	4.5	50/60	550 Watts	24 Hours	05-0892 (8)	143 Watts	31	13-15/16”	12-1/8”	36-7/8”	13,000 Hours
220v	2.5	50/60	550 Watts	24 Hours	05-0892 (8)	143 Watts	31	13-15/16”	12-1/8”	36-7/8”	13,000 Hours

① Total power consumption including ballast loss.
② Ultraviolet Output at 254 nanometers at 100 hours and 80 degrees F (approximate).

OPTIONAL ACCESSORIES

Zenith™ Germicidal Ultraviolet Detector

The **Zenith**™ Germicidal Ultraviolet Detector is a sensitive hand-held, self-contained battery operated ultraviolet meter that can be used for:

- Monitoring Germicidal Ultraviolet Lamp Intensity & Aging
- Measuring Germicidal Ultraviolet Fixture Leakage

Promate™ Face Shield

Lightweight visor with adjustable headgear provides eye and face protection from germicidal ultraviolet rays. 1 face shield is supplied with **Sanidyne® Prime Remote**, and 2 are supplied with **Sanidyne® Plus** and **Sanidyne® Premium**.

Promate™ Safety Glasses

Safety eyewear **MUST** be used as general-purpose safety protection and for additional shielding from germicidal UV rays.

Promate™ Danger Signs

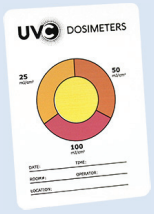
To be affixed to entry door(s) to warn that an ultraviolet sanitizer is in use and that the treatment area **MUST** not be entered. **Sanidyne®** is for use only in **unoccupied** areas. 2 signs are supplied with **Sanidyne® Prime Remote**, and 4 are supplied with **Sanidyne® Plus** and **Sanidyne® Premium**. **NOTE:** Danger Signs have English on one side and Spanish on the other.

DOSIMETERS

Assure™ UV-C Dosimeter

A portable, full-featured instrument that provides highly-accurate UV-C measurements in mJ/cm². Sits upright, on back or side, and can be placed in supplied wall holder. Uses 1 AAA battery.

UV-C Dosimeter Card



Contains a patented colorimetric indicator that changes color at 25, 50, and 100 mJ/cm² to visibly confirm that your **Sanidyne®** is achieving the desired UV-C exposure. 1 card is included with the purchase of each **Sanidyne®**. Each card is designed for 1 treatment cycle and **CANNOT** be reused.

Personal UV-C Exposure Indicators

These indicators change color to reveal the word “STOP” if personnel are exposed to an accumulated dose of 6 mJ/cm² of UV-C irradiation. Adhesive backing sticks to clothing. Available in packs of 10. Designed for single, daily use and **CANNOT** be reused.

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GENUINE *STER-L-RAY*® GERMICIDAL ULTRAVIOLET LAMPS

STER-L-RAY®
High Output Germicidal Ultraviolet Lamp with Armorlite™ Safety Shield, used in Sanidyne® Prime Remote

STER-L-RAY® **Germicidal Ultraviolet 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® **High Output (HO) Germicidal UV Lamps** are similar in size and shape to conventional germicidal UV lamps but are capable of operating at higher UV output. The HO lamps yield more UV watts than standard UV-C lamps of the same length.

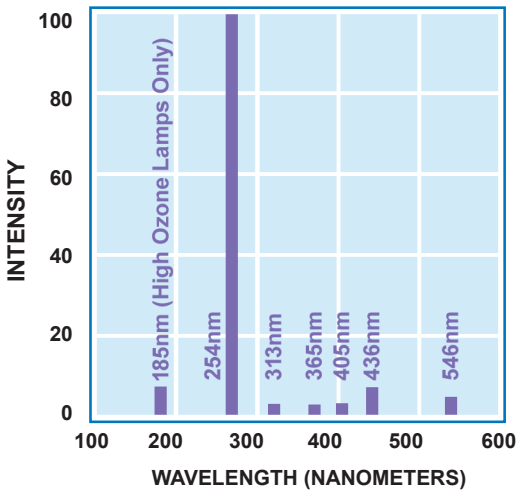
ArmorLite™ protective coating is applied to ***STER-L-RAY***® Germicidal Ultraviolet Lamps in all **Sanidyne**® models, ensuring protection for employees, products, and work environments by eliminating the dangers associated with broken lamps.

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.

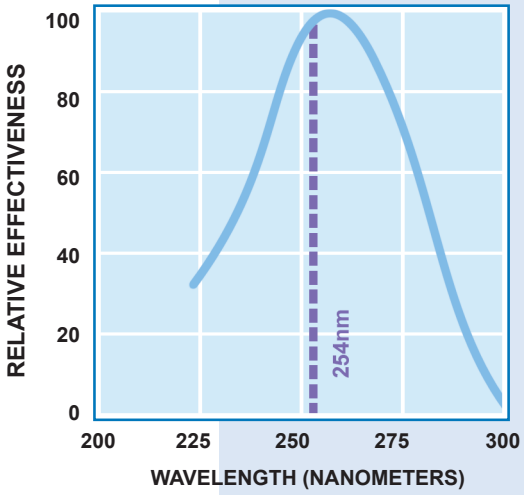
Hg - LAMP CONTAINS MERCURY, manage in accord with disposal laws, see: LampRecycle.org.

OPERATING CHARACTERISTICS

Relative Spectral Energy Distribution (Typical)



Germicidal Effectiveness As Related to Wavelength



ULTRAVIOLET DOSAGE

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

ORGANISM	ALTERNATE NAME	TYPE	DISEASE	DOSE*
Corynebacterium diphtheriae	*C. diphtheriae*	Bacteria	Diptheria	6.50
Legionella pneumophila	*L. pneumophila*	Bacteria	Legionnaire's Disease	12.30
Mycobacterium tuberculosis	*M. tuberculosis*	Bacteria	Tuberculosis (TB)	10.00
Pseudomonas aeruginosa	*P. aeruginosa*	Bacteria		3.90
Serratia Marcescens	*S. marcescens*	Bacteria		6.16
Staphlylococcus aureus	*S. aureus*	Bacteria		6.60
Staphylococcus epidermidis	*S. epidermidis*	Bacteria		5.80
Methicillin-resistant Straphylococcus aureus	*MRSA*	Bacteria		6.50
Clostridium difficile	*C. diff*	Spore		16.00
Adeno Virus Type III		Virus		4.50
Coxsackie A2		Virus		6.30
Influenza		Virus	Flu	6.60

* Nominal Ultraviolet dosage (mJ/cm^2) necessary to inactivate better than 99% of specific microorganism. Consult factory for more complete listing.

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APPLICATIONS

- Laboratories
- Clean Rooms
- Businesses and Offices
- Gymnasiums
- Theaters/Auditoriums
- Classrooms and Dorms
- Doctor's Offices
- Hospitals
- Patient Rooms
- Burn Centers
- Operating Rooms
- Intensive Care Units (ICUs)
- Tuberculosis (TB) Clinics
- Ambulances
- Morgues
- Methadone Clinics
- Homeless Shelters
- Detention Centers
- Kennels
- Mobile Dog Grooming
- Dairy Plants
- Locker Rooms
- Hotels
- Fire Houses
- Jails/Prisions
- Any areas where permanently mounted fixtures are not an option

Sanidyne® Germicidal Ultraviolet Portable Area Sanitizers disinfect air and surfaces in **unoccupied** areas by means of 8 ***STER-L-RAY®*** Germicidal Ultraviolet Lamps. The ***STER-L-RAY®*** lamps generate high levels of germicidal ultraviolet wavelengths lethal to bacteria, mold, virus, and fungi. The compact size and lightweight design of **Sanidyne®** Germicidal Ultraviolet Portable Area Sanitizers conveniently allows them to be moved from one location to another, providing disinfection wherever and whenever necessary. Typical applications for the **Sanidyne®** are listed on the left. **Sanidyne®** Germicidal Ultraviolet Portable Area Sanitizers do not require professional installation.

⚠ DANGER Access to the room MUST be avoided when Sanidyne® is in operation. Place Promate™ Danger Signs at all entrances (see Optional Accessories on Page 10).

INSTRUCTIONAL VIDEOS

Visit Atlantic Ultraviolet Corporation's YouTube channel to view Unit Demo and Lamp Installation videos for all our **Sanidyne®** models.

TREATMENT TIME

Determining Treatment Time for Room Sizes

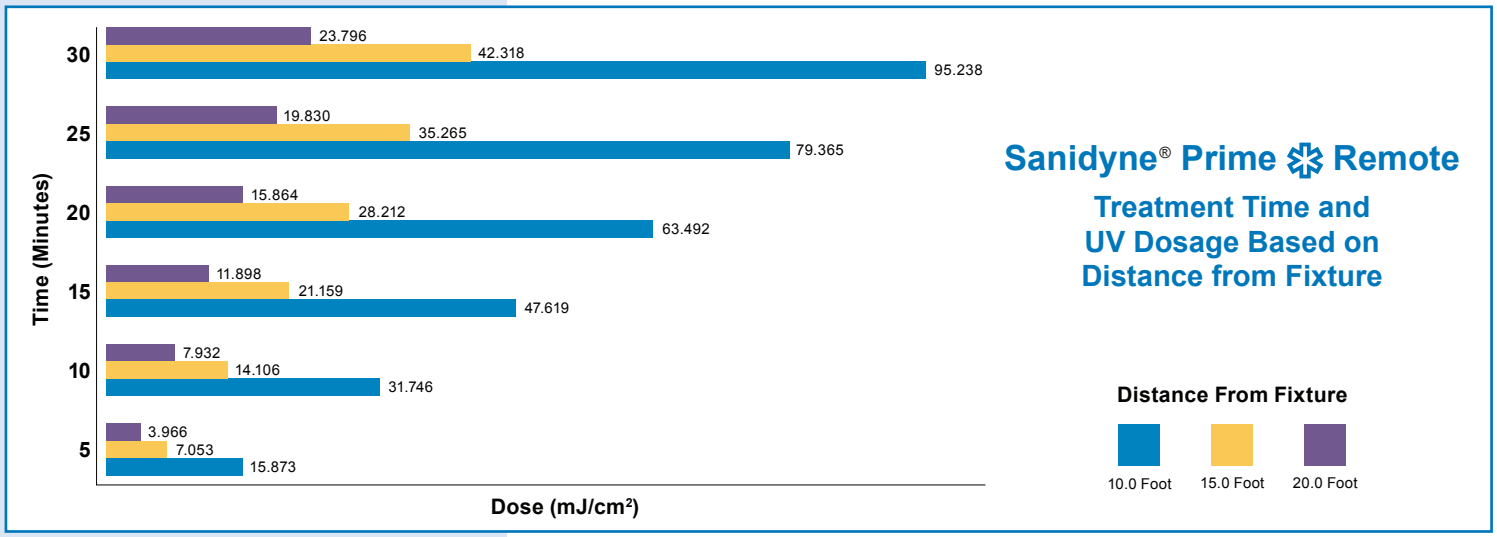
1. The fixture should be located in the approximate center of the room and target surfaces must be directly exposed to the ultraviolet rays. It is important to remove items from direct line of sight that would block or shield UV rays from striking target surfaces. Depending on the configuration of the space, and what specific disinfection you are looking to achieve, it may be advisable to operate the **Sanidyne®** on each side of large fixed objects (like a bed, or table, etc).

2. Measure the longest distance from the **Sanidyne®** to the farthest wall. Use this length to compare to the Distance From Fixtures / Time (Minutes) shown in charts on pages 14 and 15.

3. For example, if the distance from your fixture measures 15 feet, find the 15 foot mark on the bar chart for each time range. As the treatment time increase, dose increases. (**NOTE:** The number at the end of each bar is the expected dose for each time increment in millijoules per square centimeter.)

4. If a greater dose is required, increase treatment time.

TREATMENT TIME



Note: Dose shown above is expressed as mJ/cm^2 (millijoule per square centimeter).

The Standard of Excellence In Ultraviolet

Manufacturers / Engineers / Sales / Service – Germicidal Ultraviolet - Equipment & Lamps

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Document No. 98-1714-PrimeRemote • June 2021

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From U.S. & Imported Parts