Sanidyne®

ULTRAVIOLET PORTABLE AREA SANITIZERS

PRIME ✳

143 UV Watts
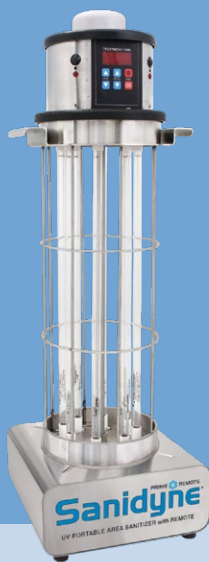
PRIME ✳ **REMOTE**

143 UV Watts

PLUS ✚

312 UV Watts

ATLANTIC U ULTRAVIOLET CORPORATION®

SINCE 1963

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 ✳

PRIME ✳ **REMOTE**

PLUS ➕

GERMICIDAL ULTRAVIOLET

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.

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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 treated in 15 minutes. (Larger spaces require more time, see charts on page 11.)

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** and **Sanidyne**® **Plus** have occupancy sensors to prevent encroachment incidences.

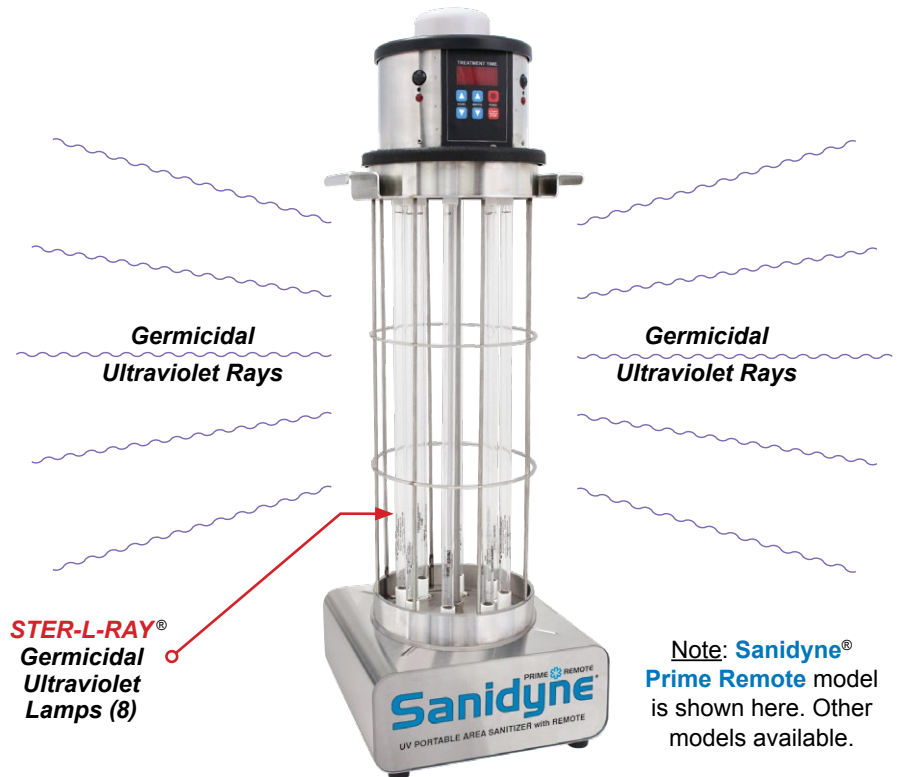## Easy to Use
Fixtures are controlled via electronic keypad.

The **Sanidyne**® 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 radiation 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.

Germicidal Ultraviolet Rays   *Germicidal Ultraviolet Rays*

STER-L-RAY® *Germicidal Ultraviolet Lamps (8)*

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.

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Sanidyne® Prime ❄ Ultraviolet Portable Area Sanitizer

STER-L-RAY® High Output Germicidal Ultraviolet Lamps
Specially designed high output lamps provide the utmost in quality, sustained output, and longevity (see page 10 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.

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

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

Surelite™ Ballasts
State-of-the-art electronic ballasts specifically developed for the operation of ultraviolet lamps. Versatile, programmed start ballasts provide higher lamp output; are smaller, lighter, more efficient, and operate cooler for longer life.
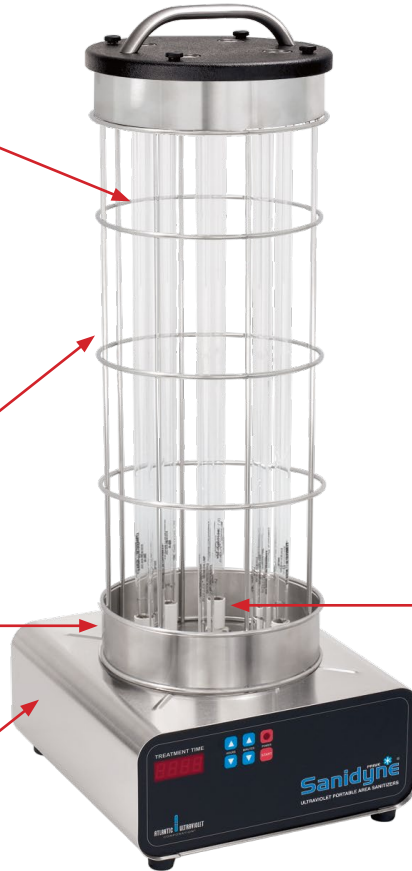
24-Hour Interval Timer
Easy programmable timer, allows treatment time to be customized to room size.

Promate™ Warning Signs (2)
To be affixed to entry door(s) to warn that an ultraviolet sanitizer is in use and that the treatment area should not be entered. **Sanidyne® Prime** is for use only in **unoccupied** areas.

Observation Ports (4)
Located on top of the **Sanidyne® Prime**, these ports allow inspection of the lamps with storage cover on, without the risk of ultraviolet exposure.

Steadfast™ Bayonet Socket Mount Lamp Holder
Bayonet Socket Mount four-pin lamp holder, fastens the lamp securely while providing convenient, "quick and easy" lamp change.

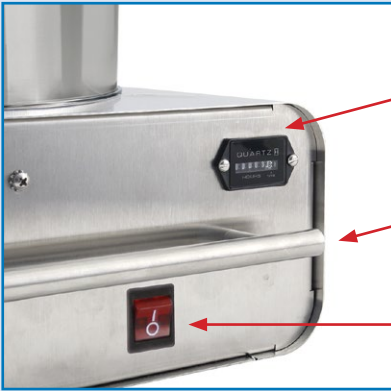### 1-Minute, 30-Second Audible Exit Warning
After start button is engaged, an audible warning sounds for 1 minute and 30 seconds, allowing operator time to leave the area before disinfection cycle begins and ultraviolet lamps are switched on.

Promate™ UV-Blocking Face Shield (not shown, 1 supplied with this model)
Lightweight visor with adjustable headgear provides eye and face protection from germicidal UV rays.

⚠ DANGER
DO NOT ENTER
ULTRAVIOLET DISINFECTION IN PROGRESS
ULTRAVIOLET RAYS ARE HARMFUL TO EYES AND SKIN

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4

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

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

Power Switch

Handle
Provides substantial grip when moving **Sanidyne® Prime**.

Removable Rigid Storage Cover
Made of polished stainless steel to protect the *STER-L-RAY*® Germicidal Ultraviolet Lamps from breakage while transporting and/or storing the **Sanidyne® Prime** and allows inspection of lamps in operation.

SPECIFICATIONS—Sanidyne® Prime ✤
ULTRAVIOLET PORTABLE AREA SANITIZER

Model	Amps	Hertz	Power Consumption ①	Maximum Treatment Time	Lamp (Quantity)	Total UV Output ②	Weight (lbs)	Unit Dimensions (Inches)			Rated Lamp Life
								Length	Width	Height	
120v	4.5	50/60	550 Watts	24 Hours	05-0892 (8)	143 Watts	29.5	14"	12-1/8"	31-1/2"	13,000 Hours
220v	2.5	50/60	550 Watts	24 Hours	05-0892 (8)	143 Watts	29.5	14"	12-1/8"	31-1/2"	13,000 Hours

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

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Sanidyne® Prime ❄ Remote Ultraviolet Portable Area Sanitizer

Keypad Controller

WiFi Dome

Occupancy Sensors (4)

STER-L-RAY® High Output Germicidal Ultraviolet Lamps
Specially designed high output lamps provide the utmost in quality, sustained output, and longevity (see page 10 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 higher lamp output; are smaller, lighter, more efficient and operate cooler for longer life.
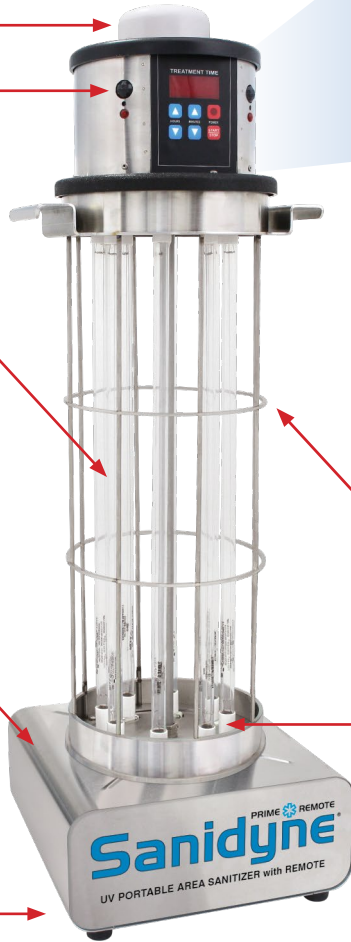
Stainless Steel Construction
Manufactured in Type 304 stainless steel for unparalleled strength, durability and an attractive finish.

Promate™ Warning Signs (2)
To be affixed to entry door(s) to warn that an ultraviolet sanitizer is in use and that the treatment area should not be entered. **Sanidyne® Prime Remote** is for use only in **unoccupied** areas.

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

1-Minute, 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.

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

Steadfast™ Bayonet Socket Mount Lamp Holder
Bayonet Socket Mount four-pin lamp holder, fastens the lamp securely while providing convenient, "quick and easy" lamp change.

Promate™ UV-Blocking Face Shield (not shown, 1 supplied with this model)
Lightweight visor with adjustable headgear provides eye and face protection from germicidal UV rays.

⚠ DANGER
DO NOT ENTER
ULTRAVIOLET DISINFECTION IN PROGRESS
ULTRAVIOLET RAYS ARE HARMFUL TO EYES AND SKIN

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SPECIAL FEATURES

Remote

Control your **Sanidyne® Prime Remote** from a distance by using the convenient controller.
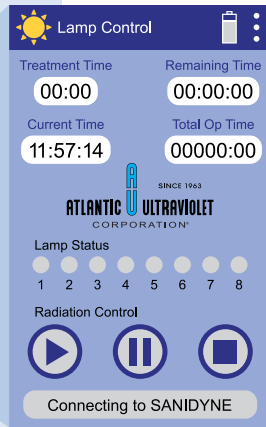
Promate™ Elapsed Time Indicator

Real-time, non-resettable display of accumulated operating hours.

Cord Wrap

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

Power Switch

Transport Handles

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

SPECIFICATIONS—Sanidyne® Prime ✹ Remote
ULTRAVIOLET PORTABLE AREA SANITIZER

Model	Amps	Hertz	Power Consumption ①	Maximum Treatment Time	Lamp (Quantity)	Total UV Output ②	Weight (lbs)	Unit Dimensions (Inches)			Rated Lamp Life
								Length	Width	Height	
120v	4.5	50/60	550 Watts	24 Hours	05-0892 (8)	143 Watts	29.5	13-15/16"	12-1/16"	36-13/16"	13,000 Hours
220v	2.5	50/60	550 Watts	24 Hours	05-0892 (8)	143 Watts	29.5	13-15/16"	12-1/16"	36-13/16"	13,000 Hours

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

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Sanidyne® Plus✛ Ultraviolet Portable Area Sanitizer

WiFi Dome

Occupancy Sensors (4)

Keypad Controller

TREATMENT TIME

23:59

HOURS   MINUTES   POWER

START STOP

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

STER-L-RAY® High Output Germicidal Ultraviolet Lamps
Specially designed high output lamps provide the utmost in quality, sustained output, and longevity (see page 10 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.

1-Minute, 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.

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

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

Transport Handle
Provides substantial grip when moving **Sanidyne® Plus**.
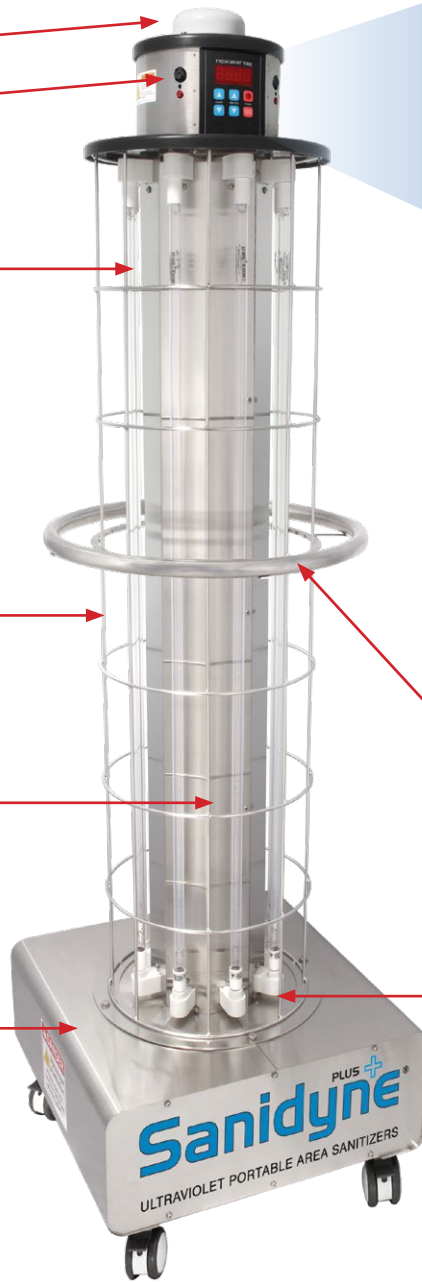
Surelite™ Ballasts
State-of-the-art electronic ballasts specifically developed for the operation of ultraviolet lamps. Versatile, programmed start ballasts provide higher lamp output; are smaller, lighter, more efficient and operate cooler for longer life.

Steadfast™ Bipin Telescopic Lamp Holder
Fastens the lamp securely while providing convenient "quick and easy" lamp change.

Promate™ UV-Blocking Face Shield (not shown, 2 supplied with this model)
Lightweight visor with adjustable headgear provides eye and face protection from germicidal ultraviolet rays.

Promate™ Warning Signs (4)
To be affixed to entry door(s) to warn that an ultraviolet sanitizer is in use and that the treatment area should not be entered. **Sanidyne® Plus** is for use only in **unoccupied** areas.

⚠ **DANGER**
DO NOT ENTER
ULTRAVIOLET DISINFECTION IN PROGRESS
ULTRAVIOLET RAYS ARE HARMFUL TO EYES AND SKIN

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SPECIAL FEATURES

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

Lamp Control

Treatment Time	Remaining Time
00:00	00:00:00
Current Time	Total Op Time
11:57:14	00000:00

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Lamp Status
1 2 3 4 5 6 7 8

Radiation Control
▶ ⏸ ⏹

Connecting to SANIDYNE
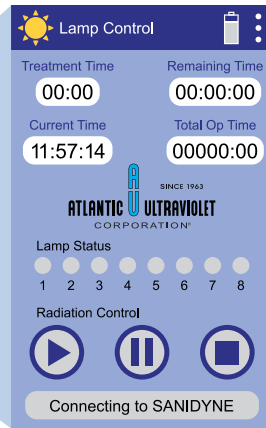
Power Switch

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

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

Swivel Casters with Locking Function
Enables **Sanidyne® Plus** to be easily moved from one location to another.

SPECIFICATIONS—Sanidyne® PLUS ✚ ULTRAVIOLET PORTABLE AREA SANITIZER

Model	Amps	Hertz	Power Consumption ①	Maximum Treatment Time	Lamp (Quantity)	Total UV Output ②	Weight (lbs)	Unit Dimensions (Inches)			Rated Lamp Life
								Length	Width	Height	
120v	10	50/60	1200 Watts	24 Hours	05-0893 (8)	312 Watts	76	21-3/4"	20"	68-1/2"	13,000 Hours
230v	5	50/60	1200 Watts	24 Hours	05-0893 (8)	312 Watts	76	21-3/4"	20"	68-1/2"	13,000 Hours

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

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GENUINE *STER-L-RAY*® GERMICIDAL LAMPS

STER-L-RAY® Germicidal Lamps are short-wave, 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 Ultraviolet Lamps is at the mercury resonance line of 254 nanometers, the region of germicidal effectiveness most destructive to bacteria, mold, and virus.
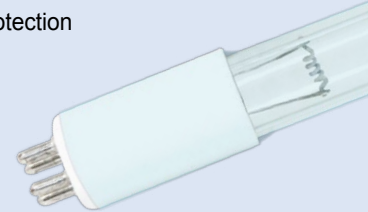
STER-L-RAY® **High Output (HO) Germicidal Ultraviolet Lamps** are similar in size and shape to conventional germicidal lamps but capable of operating at higher input power and current. The HO lamps yield more UV watts than standard UV-C lamps of the same length.

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

STER-L-RAY®, **ArmorLite**™, **Sanidyne**® **Prime**, **Sanidyne**® **Prime Remote**, **Sanidyne**® **Plus,**
and their appropriate logos 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.

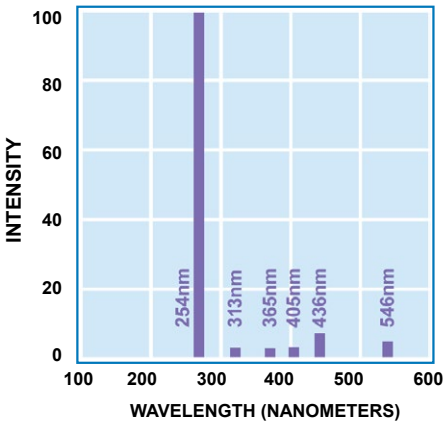Hg - LAMP CONTAINS MERCURY, manage in accord with disposal laws, see: LampRecycle.org.

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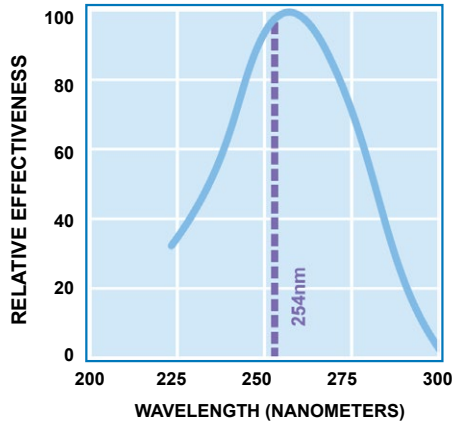
OPERATING CHARACTERISTICS

Relative Spectral Energy Distribution (Typical)

INTENSITY vs WAVELENGTH (NANOMETERS)
254nm, 313nm, 365nm, 405nm, 436nm, 546nm

Germicidal Effectiveness As Related to Wavelength

RELATIVE EFFECTIVENESS vs WAVELENGTH (NANOMETERS)
254nm

STER-L-RAY®
High Output Germicidal Lamp with ArmorLite™ **Safety Shield, used in Sanidyne**® **Plus**

ULTRAVIOLET DOSAGE

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

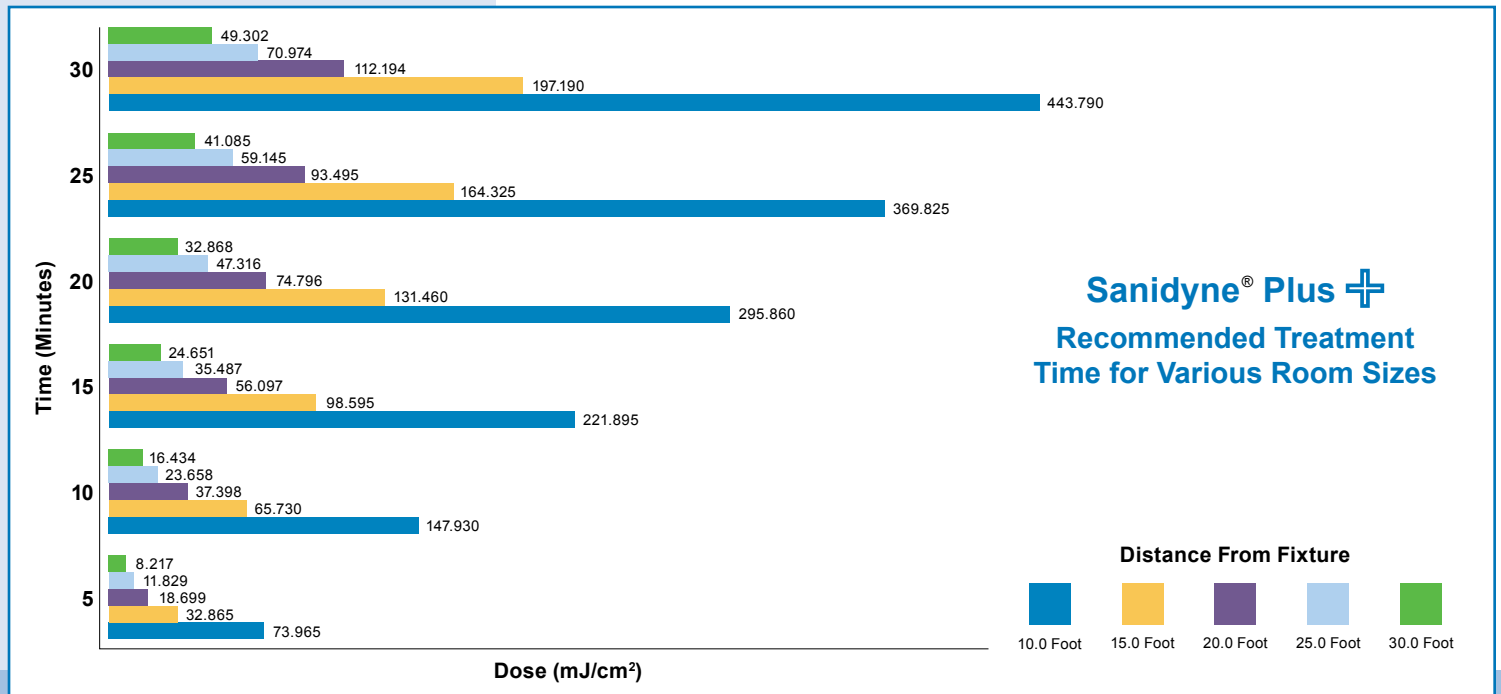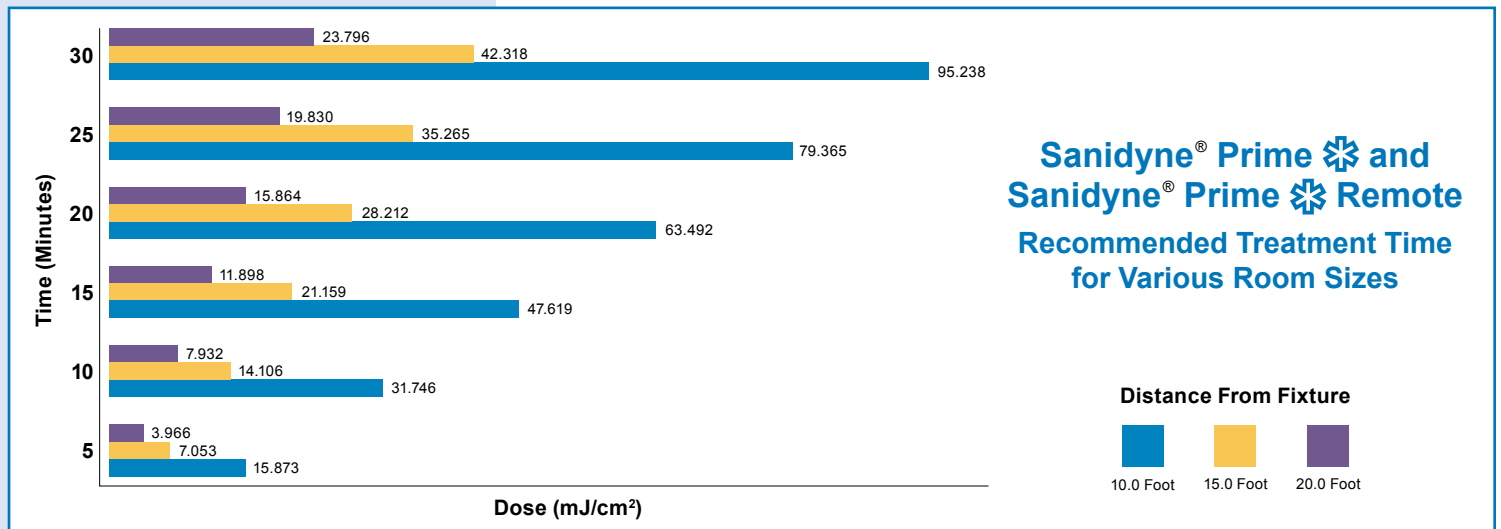| ORGANISM	ALTERNATE NAME	TYPE	DISEASE	DOSE*
Corynebacterium diphtheriae	*C. diphtheriae*	Bacteria	Diptheria	6.50
Legionella pneumophila	*L. pneumophila*	Bacteria	Legionnaire's Disease	2.70
Mycobacterium tuberculosis	*M. tuberculosis*	Bacteria	Tuberculosis (TB)	10.00
Pseudomonas aeruginosa	*P. aeruginosa*	Bacteria		3.90
Serratia Marcescens	*S. marcescens*	Bacteria		6.160
Staphlylococcus aureus	*S. aureus*	Bacteria		6.60
Staphlylococcus epidermidis	*S. epidermidis*	Bacteria		5.80
Adeno Virus Type III		Virus		4.50
Coxsackie A2		Virus		6.30
Influenza		Virus	Flu	3.40

* Nominal Ultraviolet dosage (mJ/cm²) necessary to inactivate better than 99% of specific microorganism.
Consult factory for more complete listing.

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Sanidyne® 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 radiation lethal to bacteria, mold, virus, and fungi. The compact size and lightweight design of **Sanidyne**® 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**® include: Operating Rooms, Patient Rooms, Laboratories, Clean Rooms, Open Work Space, Homeless Shelters, Auditoriums, Hotel Rooms, Gymnasiums, Morgues, Open Office Areas, or areas where permanently mounted fixtures are not an option.

The **Sanidyne**® Ultraviolet Portable Area Sanitizers do not require professional installation.
Access to the room **must** be avoided when **Sanidyne**® is in operation.

Sanidyne® Prime ✳ and Sanidyne® Prime ✳ Remote
Recommended Treatment Time for Various Room Sizes

Dose (mJ/cm²) vs Time (Minutes):

Time (Minutes)	10.0 Foot	15.0 Foot	20.0 Foot
30	95.238	42.318	23.796
25	79.365	35.265	19.830
20	63.492	28.212	15.864
15	47.619	21.159	11.898
10	31.746	14.106	7.932
5	15.873	7.053	3.966

Distance From Fixture

Sanidyne® Plus ✚
Recommended Treatment Time for Various Room Sizes

Dose (mJ/cm²) vs Time (Minutes):

Time (Minutes)	10.0 Foot	15.0 Foot	20.0 Foot	25.0 Foot	30.0 Foot
30	443.790	197.190	112.194	70.974	49.302
25	369.825	164.325	93.495	59.145	41.085
20	295.860	131.460	74.796	47.316	32.868
15	221.895	98.595	56.097	35.487	24.651
10	147.930	65.730	37.398	23.658	16.434
5	73.965	32.865	18.699	11.829	8.217

Distance From Fixture

Note: Dose shown above is expressed as mJ/cm² (millijoule per square centimeter).

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The Standard of Excellence In Ultraviolet

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

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