

Sanidyne®

PRIME * REMOTE

GERMICIDAL ULTRAVIOLET PORTABLE AREA SANITIZER

Installation, Operation & Maintenance

Read and Follow All
Safety Instructions.
Save These Instructions.



Owner's Manual

ATLANTIC  **ULTRAVIOLET**
CORPORATION®

SINCE 1963

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

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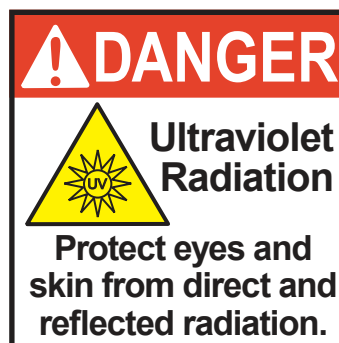


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These instructions generally describe the installation, operation and maintenance of the **Sanidyne® Prime Remote** Germicidal Ultraviolet Portable Area Sanitizer. Questions that are not specifically answerable by these instructions should be directed to the factory.

Atlantic Ultraviolet Corporation® takes all possible precautions when packaging equipment to prevent damage. Carefully inspect and report all damages. Do not install damaged equipment.


Follow all instructions on any labels or tags. Carefully inspect all packing materials before discarding to prevent the loss of accessories, mounting hardware, spare parts or instructions.


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.





SAFETY WARNINGS


- All personnel should be alerted to the potential hazards indicated by the product safety labeling on this unit.
- The following conventions are used to indicate and classify precautions in this manual and on product safety labeling. Failure to observe precautions could result in injury to people or damage to property.

 This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

 **DANGER** Danger indicates an **IMMINENTLY** hazardous situation, which, if not avoided, **WILL** result in death or serious injury.


 **WARNING** Warning indicates a **POTENTIALLY** hazardous situation, which, if not avoided, **COULD** result in death or serious injury.


 **CAUTION** Caution indicates a **POTENTIALLY** hazardous situation, which, if not avoided, **MAY** result in minor or moderate injury.


 **CAUTION** Caution used without the safety alert symbol indicates a potentially hazardous situation, which, if not avoided, may result in property damage.


 This symbol is used to identify an **ELECTRICAL SHOCK** or **ELECTROCUTION** hazard.

 This symbol is used to identify an **ULTRAVIOLET LIGHT** hazard.

 This symbol is used to identify the need to wear approved ultraviolet blocking eyewear.







 This symbol is used to identify the need to wear approved ultraviolet blocking face shield.

 This symbol is used to identify the need to wear protective gloves.

 This symbol is used to identify components which must not be disposed of in trash

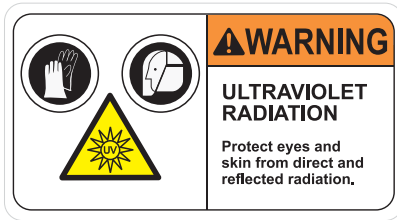
SAFETY INSTRUCTIONS

 **WARNING** To guard against injury, basic safety precautions should be observed, including the following:

1. Read and follow **ALL** safety instructions.
2.    **WARNING** Avoid exposure to direct or reflected germicidal ultraviolet rays. Germicidal ultraviolet rays are harmful to the eyes and skin.
3. Intended for indoor use only.
4. Do not alter design or construction.
5. Do not use this sanitizer for other than its intended purpose, as described in this manual.
6. Do not use this sanitizer in occupied areas. The supplied “**DANGER - DO NOT ENTER...**” sign(s) **MUST** be clearly displayed to warn against entering the area during the disinfection cycle without proper personal protection equipment.
7.  **CAUTION** Germicidal ultraviolet rays may break down plastic, rubber or other non-metallic materials, with inadequate resistance to ultraviolet. Shield all plastic, rubber or other non-metallic parts which may be exposed to direct or reflected germicidal ultraviolet rays.
8. Do not remove any labels.
9.  **WARNING** Do not operate without proper electrical ground.
10. Do not operate the sanitizer if the power cord and/or plug are damaged, or if any other damage to the sanitizer is visible or suspected.
11. Utility power supplied to the sanitizer, **MUST** match power requirements listed on the sanitizer label.
12.  **WARNING** Always disconnect power to the fixture before performing any service or maintenance.
13. Read and follow all notices and warnings on the sanitizer.
14. **SAVE THESE INSTRUCTIONS.**

SAFETY LABELS

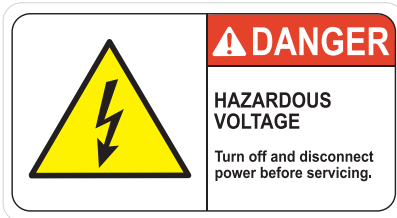
Danger Label: Ultraviolet Radiation (70-0052A)



Location of Danger Label (70-0052A) on 2 Sides of System



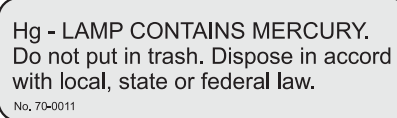
Danger Label: Hazardous Voltage (70-0053)



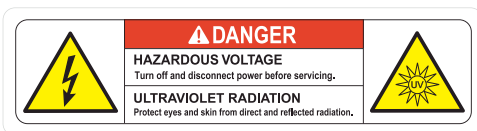
Location of Danger Labels (70-0053 and 70-0011)



Hg-Lamp Contains Mercury Label (70-0011)



Danger Label: Hazardous Voltage / Ultraviolet Radiation (70-0038)



Location of Danger Label (70-0038) on Both Sides of System



CAUTION

It is the user's responsibility to determine and validate the suitability of this equipment for use in the user's system or process. No warranty or representation is made by the manufacturer with respect to suitability or performance of this equipment or to the results that may be expected from its use. The user should periodically inspect, clean as necessary and confirm the presence and good legibility of the product safety labels. Contact the factory for replacement labels in the event that any of the labels are missing or illegible.

PRODUCT APPLICATIONS

CONSTRUCTION

The **Sanidyne® Prime Remote** Germicidal Ultraviolet Portable Area Sanitizer consists of:

- **STER-L-RAY® High Output Germicidal Ultraviolet Lamps:** Deliver ultraviolet energy at the specific wavelength of 254 nanometers (nm). This wavelength is highly effective against microbes including virus, bacteria, and mold spores. Germicidal ultraviolet rays are harmful to eyes and skin; avoid exposure of direct or reflected germicidal ultraviolet rays without approved ultraviolet blocking face shield and protective covering (such as gloves, long sleeves with no gaps between cuff and gloves).
- **Audible Exit Warning Alarm:** To alert area that the lamps will be powered on in one minute and thirty seconds after the start button is pressed or to indicate intruder is in Operation Area.
- **Elapsed Time Indicator:** A non-resettable display of the operating hours. Useful for scheduling and recording maintenance and lamp replacement.
- **Hand-Held Remote Controller:** Provides easy operation of **Sanidyne® Prime Remote** from a safe distance, displays lamp operation, controls treatment times and alerts operator with an audible alarm if an intruder enters Operation Area.
- **Keypad Controller:** Provides easy operation of **Sanidyne® Prime Remote** and allows the operator a period of time (one minute and thirty seconds) to leave the Operation Area before treatment begins.
- **Intruder Sensors:** Delay treatment if the Operation Area is inhabited. Additionally if sensors detect an intruder with less than 30 seconds left before lamps operate, the countdown time will automatically restore back to 30 seconds until area is cleared.
- **Power Cord:** For 120v AC 50/60Hz single-phase standard household current, a NEMA 5-15, three-prong plug is provided for a properly grounded outlet. 230v AC 50/60Hz models use a CEE 7/7 (Schuko type) plug. (Consult factory for other plug types).
- **Stainless Steel Lamp Guard Assembly:** Protects lamps from damage during normal operation.
- **Stainless Steel Construction:** All electronics and wiring are housed in an enclosure constructed of stainless steel, providing strength and durability in order to withstand most harsh environments.
- **Sanidyne® Prime Remote** will operate between 120v 50/60Hz and 250v 50/60Hz.

PRINCIPLE OF OPERATION

The **Sanidyne® Prime Remote** design has been carefully conceived to provide direct germicidal ultraviolet exposure for air and surface disinfection in **unoccupied** areas to disinfect and prevent areas and surfaces from microorganisms. Ultraviolet disinfection dosage is a function of time and the intensity, of the ultraviolet radiation to which the air and surrounding surfaces are exposed.

NOTE: The **Sanidyne® Prime Remote** should be used as a supplement to your facility's cleaning and disinfection protocols, not as a replacement. Follow your facility's cleaning and disinfection protocols before using the **Sanidyne® Prime Remote**.


No special room preparation is required prior to treating a room or area with the **Sanidyne® Prime Remote** — however, target surfaces must be directly exposed to the UV rays. These rays will not penetrate materials like cloth, paper or ordinary glass, therefore, it is important to remove items from the direct line of sight that would block or shield the rays from other surfaces. The **Sanidyne® Prime Remote** does not generate any harmful byproducts, nor does it leave any residual substances.

⚠ CAUTION It is the user's responsibility to determine and validate the suitability of the equipment for use in system or process. No warranty or representation is made by the manufacturer with respect to suitability or performance of this equipment or to the results that may be expected from its use.

⚠ CAUTION Indoor Use Only – The equipment must be sheltered from exposure to the elements and extremes in temperature. Temperature range: 40°F to 95°F. The user should periodically inspect, clean as necessary and confirm the presence and good legibility of the Product safety labels. Contact the factory for replacement labels in the event that any of the labeling is missing or illegible.

⚠ CAUTION The UV Treatment Results achieved are subject to variations in application conditions, it is recommended that culture tests be performed to confirm desired outcomes.

LIMITATIONS

- Safety procedures **MUST** be implemented to prevent ultraviolet exposure of occupants to direct or reflected ultraviolet rays. Exposure to germicidal ultraviolet rays will result in the irritation of the eyes and reddening of the skin.
-  Personal protection equipment is required when entering the irradiated space with the germicidal lamp(s) operating. Personal protection equipment includes skin and eye protection such as gloves, long sleeves with no gaps between cuff and gloves, and an ultraviolet blocking face shield (included with the purchase of the **Sanidyne® Prime Remote**).

UNPACKING



IN ORDER TO PERFORM THIS TASK, BE SURE TO WEAR THE FOLLOWING SAFETY EQUIPMENT: SAFETY GLASSES OR A FACE SHIELD, AS WELL AS GLOVES

- Remove the **Sanidyne® Prime Remote** from its shipping carton.
- Atlantic Ultraviolet Corporation® takes all possible precautions when packaging this unit to prevent damage. Carefully inspect the unit, power cord and plug for damage, report all damage immediately. Do not assemble or operate if there is any damage, visible or suspected.
- **STER-L-RAY®** Germicidal Ultraviolet Lamps are packed separately, to ensure maximum protection. Keep the lamps aside until ready for installation.
- Carefully inspect all packing materials to prevent the loss of accessories, spare parts or instructions.
- Do not discard packing materials until unit is assembled, checked and confirmed.

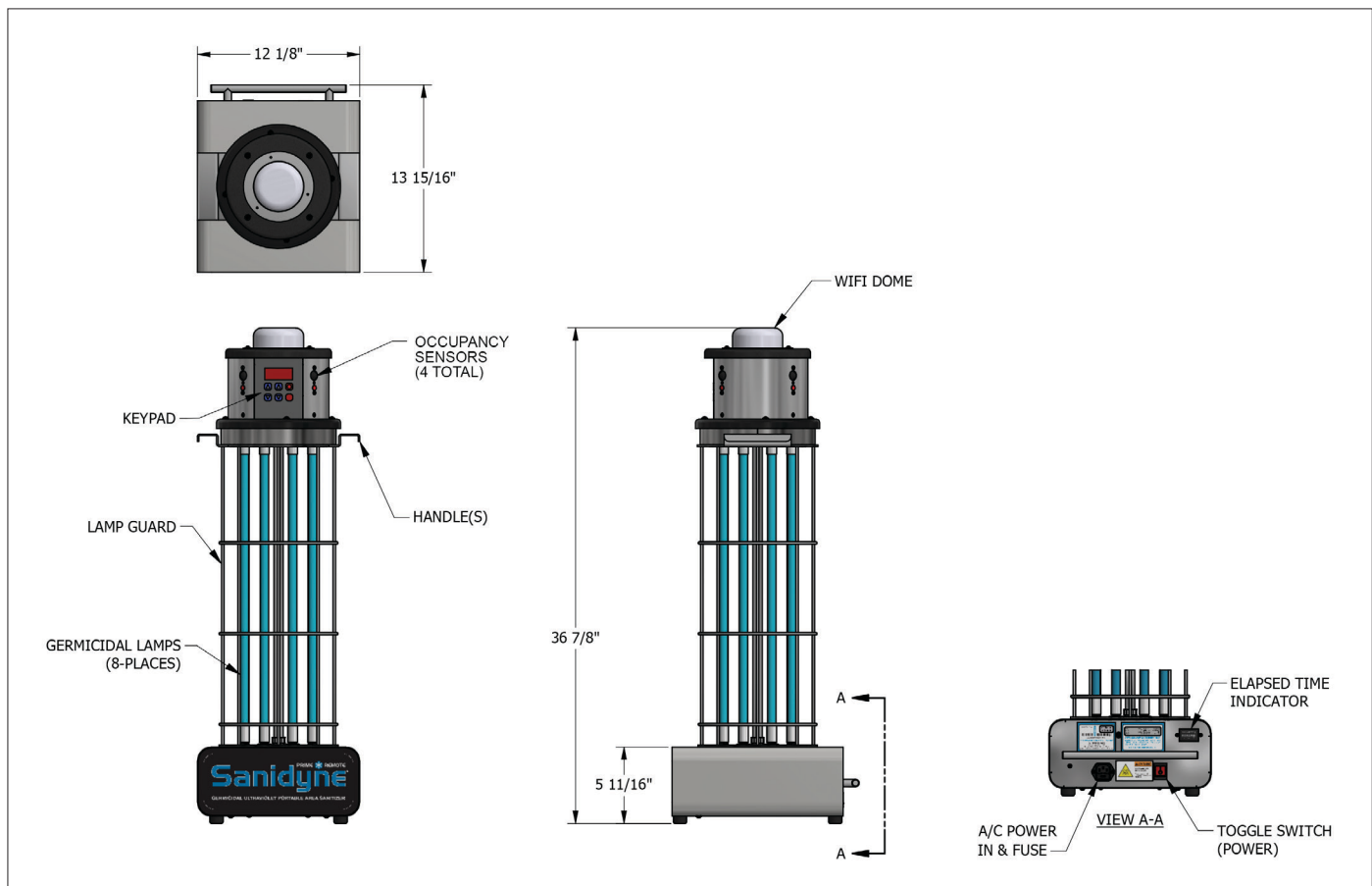
The **Sanidyne® Prime Remote** Portable Area Sanitizer includes:

- 1 - Eight-lamp fixture with power cord - Includes a microprocessor controller with time display and push button controls
- 1 - Hand-Held Remote Controller
- 8 - **STER-L-RAY®** High Output Germicidal Ultraviolet Lamps (05-0892) with **ArmorLite™** Protective Coating
- 1 - **Promate™** Ultraviolet-Blocking Face Shield with Adjustable Headgear
- 1 - Owner's Manual
- 2 - **Promate™** Danger Signs (98-1827)
- 1 - UV-C Dosimeter Card (00-0373 – See “**Optional Accessories**” on **Page 16** for more information.)

INSTALLATION

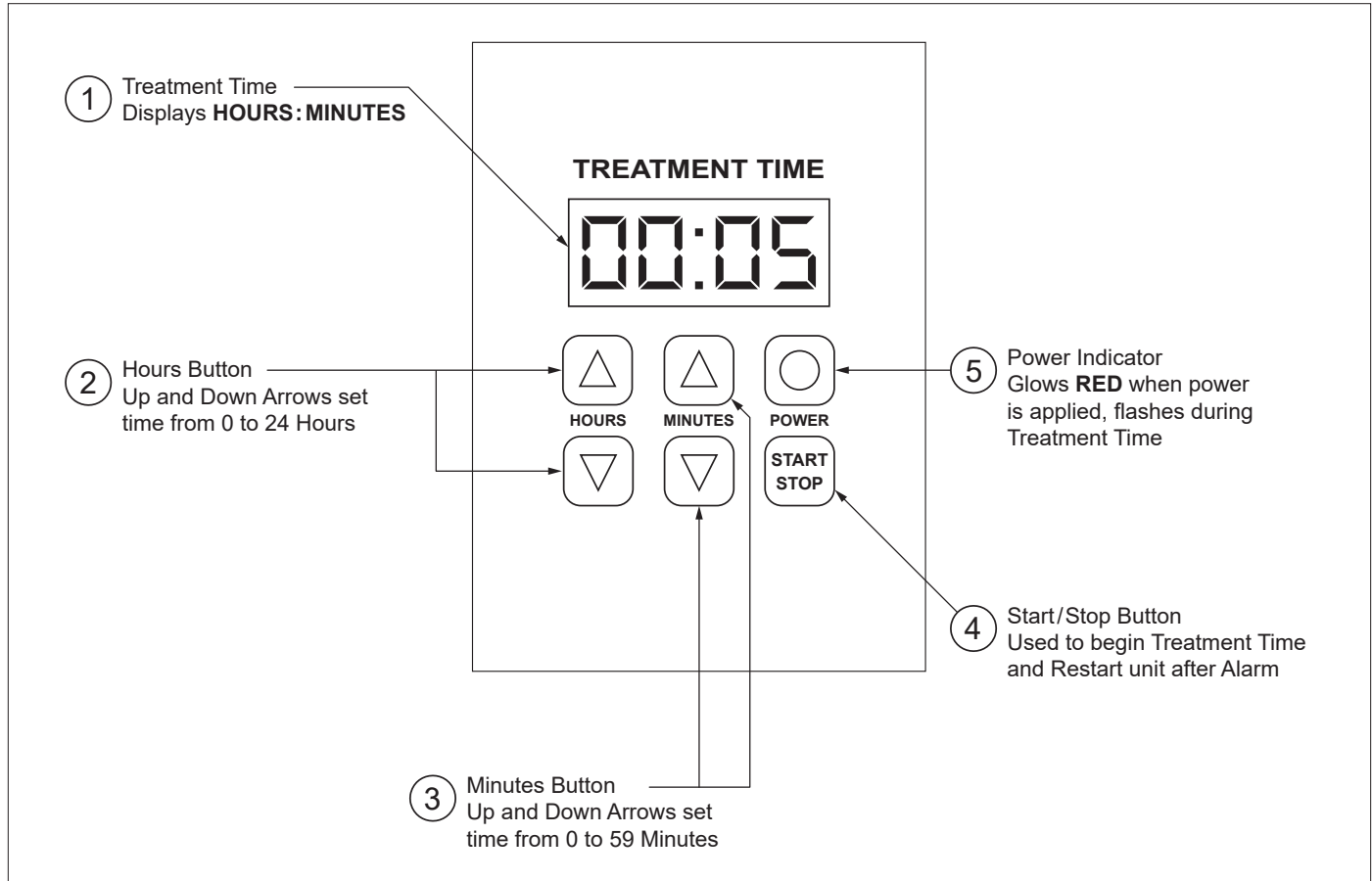
DIMENSIONAL DATA

Figure 1 – Dimensional Data



KEYPAD CONTROLLER OVERVIEW

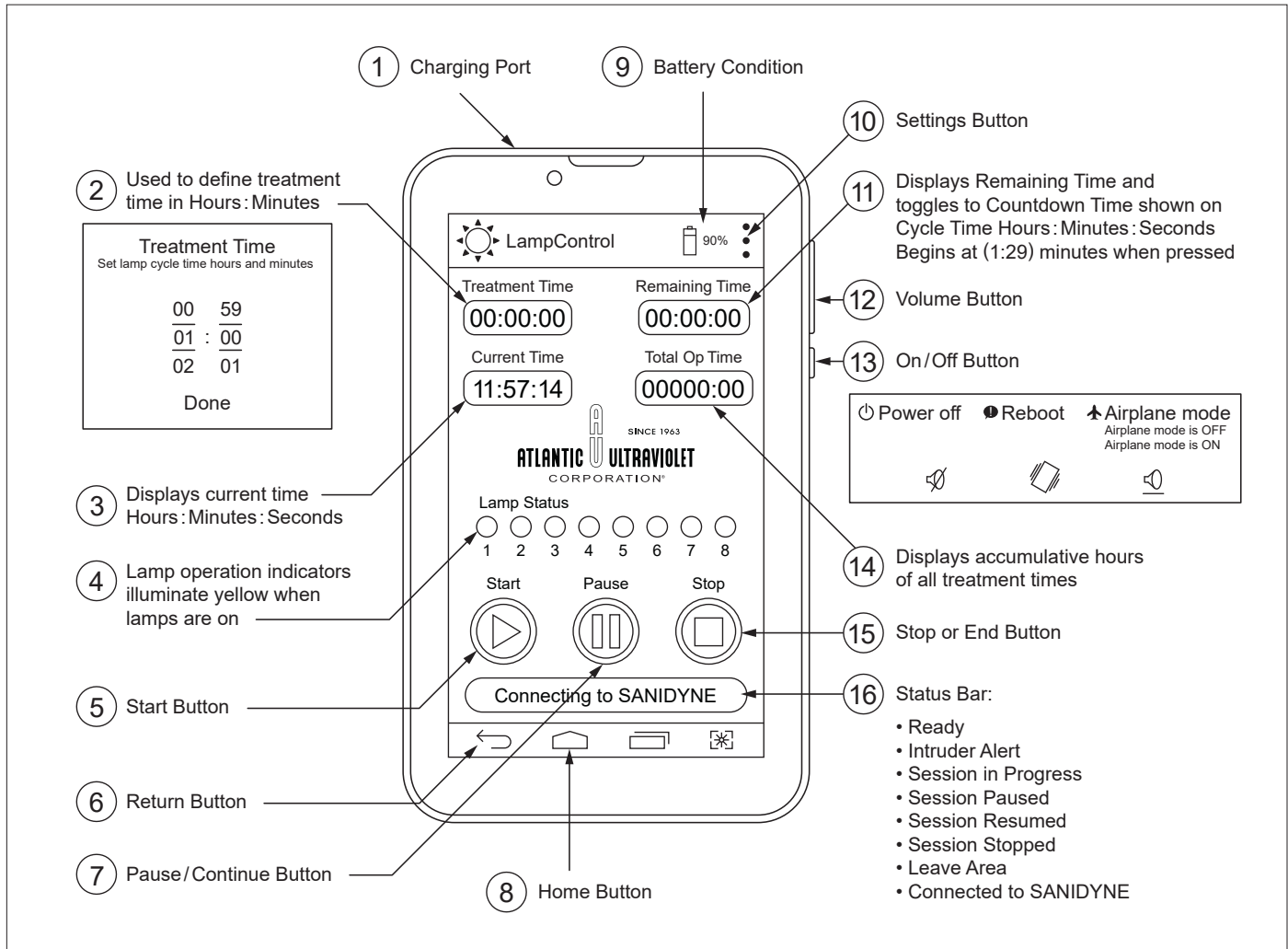
Figure 2 – Keypad Controller Overview



1. **Treatment Time:** Displays chosen treatment time which will countdown after start is selected. Flashes with word **“PrEP”** during Countdown Time, the word **“run”** during Treatment Time and **“donE”** when Treatment Time is completed.
2. **Hour Buttons:** Up and down buttons are used to select treatment hours between 0 and 24.
3. **Minute Buttons:** Up and down buttons are used to select treatment minutes between 0 and 59.
4. **Start / Stop Button:** Begins treatment time countdown, also used to restart **Sanidyne®** after an intruder is sensed in Operating Area.
5. **Power Indicator:** Glows **RED** when power is applied to **Sanidyne®** and will flash during Treatment Time. Flashes rapidly if occupancy sensor is tripped.

HAND-HELD REMOTE CONTROLLER OVERVIEW

Figure 3 – Hand-held Remote Controller Overview



General Rule of Selection: Except for the ON/OFF button located on the right side of the Hand-held Remote Controller, all selections made to this device will require a gentle touch of a short period of time to achieve a response.

- 1. Charging Port:** Charge Hand-held Remote Controller using supplied AC Adapter.
- 2. Treatment Time:** Set treatment time in Hours, Minutes. Hold finger on **Treatment Time** to select until menu changes to scroll bar. Scroll the numbers up or down, positioning the times chosen in the center row. When times are positioned correctly, select **“DONE”** on the screen to input your Treatment Time choice.
- 3. Current Time:** Displays current time in Hours, Minutes, Seconds. Can be reset under **SETTINGS**, however this requires a PIN Number to do this. (See **“Setting Date and Time”** on Page 12)
- 4. Lamp Operation Indicators:** Lamp status glows yellow when the lamps are operating correctly. If lamp is not operating the lamp status will be displayed grey for that lamp.
- 5. Start Button:** Starts treatment cycle time.
Once selected:
 - Remaining Time changes to Countdown Time and begins counting down from 1 minute and 30 seconds to exit area
 - The words **“LEAVE AREA”** appear on the lower status bar.
 - Alarm on unit begins to sound
 - The word **“PrEP”** flashes on the Keypad during the Countdown Time, when Treatment Time begins the word **“RUN”** flashes and when the treatment time is completed the word **“DONE”** will appear.
- 6. Return Button:** Brings you back to previous screen (**Remote Overview Continued on Page 9**)

7. **Pause / Continue Button:** Used to pause the treatment time, or to continue the treatment time. This button toggles from the **Pause Icon**, which is displayed as two vertical bars to the **Continue Icon** which is a looping arrow. If pause is selected below 30 seconds during the Countdown, the Countdown time will reset to 30 seconds. If pause is selected during the cycle time the device will provide an additional 1 minute and 30 seconds of countdown time to leave the area.
8. **Home Button:** Exit LampControl app.
9. **Battery Condition:** Displays the charge level of the battery in the hand-held remote. Press on battery symbol to see percent of charge.
10. **Settings Button:** Contains choices for:
 - a) Settings: Reset Operating Time or Clear Session Data
 - b) Set Date/Time: requires a PIN to reset (See “**Setting Date and Time**” on Page 12)
 - c) Sessions: Log of saved sessions
11. **Remaining Time:** Displays remaining time of treatment and toggles to (Countdown time shown on Treatment in Hours, Minutes, Seconds) when selected.
12. **Volume Button:** Adjust volume on Hand-held Remote Controller.
13. **ON/OFF Button:** Turns the power to the device on or off and can be used to restart the device. To turn on the device, this button must be pushed in and held for 2 seconds. If the device is on the Home screen, pressing and holding this button will bring up a menu with choices to: Power Off / Reboot / Airplane Mode; ON – OFF (**MUST BE SET TO ON AT ALL TIMES**). Additionally displays three icons at bottom which are Sound Off / Vibrate / Sound On.
14. **Total Operation Time:** Displays accumulative hours of all treatment times.
15. **Stop or End Button:** Stop treatment time.
16. **Status Bar:** Outputs all the conditions of the device
 - a) Ready
 - b) Intruder Alert
 - c) Session in Progress
 - d) Session Paused
 - e) Session Resumed
 - f) Session Stopped
 - g) Leave Area
 - h) Connected to **Sanidyne®**

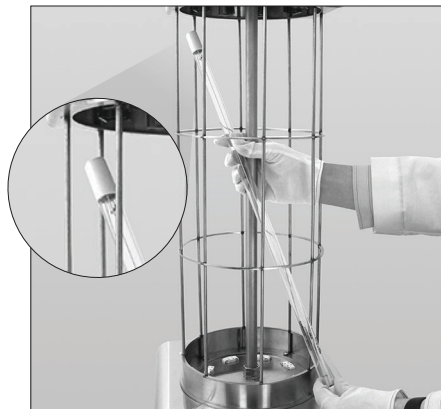
LAMP INSTALLATION

 **WARNING** Always disconnect power to the fixture before performing any service or maintenance.

 **CAUTION** Germicidal lamps are easily damaged. Exercise care when handling lamps.



Always Disconnect Power to the Sanidyne® Prime Remote before installing or removing lamps.



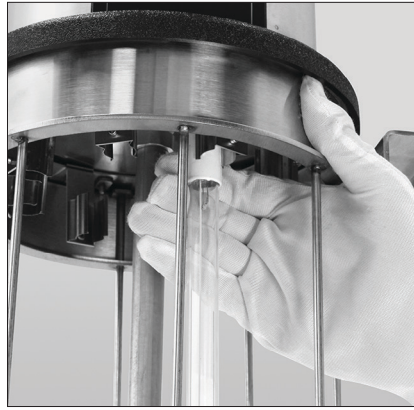
Step 1: Insert lamp end without pins through **BOTTOM** of lamp guard while holding each lamp end with one hand.



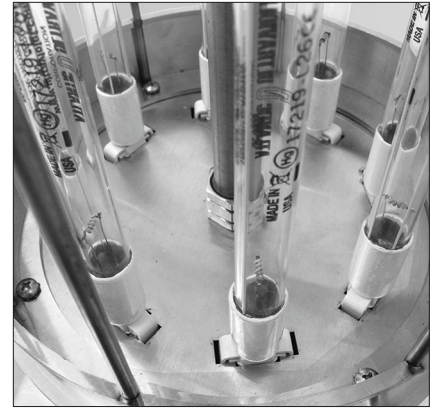
Step 2: Carefully align pins on lamp base to socket holes on lampholder as shown. (**Lamp Installation Continued on Page 10.**)



Step 3: Once pins are aligned correctly, press lamp base into lamp socket until it is properly seated.



Step 4: Applying pressure with your thumb on outside of **Sanidyne® Prime Remote**, snap lamp base into the appropriate clip directly above its lampholder.



Step 5: Install the remaining seven lamps as described in steps 1–4.

UNIT PLACEMENT

- The **Sanidyne® Prime Remote** is intended for indoor use only. The **Sanidyne® Prime Remote** should be protected from liquid intrusion such as dripping water, condensation or mist, and used only in a clean, dry location with temperature ranges between 40°F and 95°F.
- Electrical power supplied to the **Sanidyne® Prime Remote** unit must match power requirements listed on the **Sanidyne® Prime Remote**.
- **CAUTION** The **Sanidyne® Prime Remote** is intended for use in **UNOCCUPIED AREAS ONLY**. Under no circumstances should this sanitizer be permitted to operate with humans, plants, or animals present in the Operation Area.
- The intrusion sensors will detect movement if anyone is in the treatment area and the lamps will be switched off until unit is reset by pressing the **START/STOP** button on keypad on the top of the unit.
- For maximum efficiency the **Sanidyne® Prime Remote** should be located as centrally as possible, away from the corners of the treatment area. The **Sanidyne® Prime Remote** Portable Area Sanitizer is most effective when it is located in the center of the room and the ultraviolet rays are unobstructed.

UNIT OPERATION

PRE-OPERATION

1. Fully charge the Hand-held Remote Controller (Shown in **Figure 3**). **NOTE:** Charger provided operates on 100 volts to 240 volts 50/60Hz and has a NEMA 1-15 plug.
2. Once a location has been chosen for the **Sanidyne® Prime Remote** post Laminated Warning Signs supplied with the **Sanidyne® Prime Remote** on all access doors to the area where treatment operation will take place.

WARNING It is the user's responsibility to post signs, or notices for all personnel and persons in the building or facility so that they be made aware that the Operation Area is off limits during treatment.

3. ⚠ Connect the **Sanidyne® Prime Remote** to a properly grounded outlet power source which matches the power requirements listed on the **Sanidyne® Prime Remote** (See Power In location shown on **Figure 1 – View A-A**).

CAUTION An approved **Promate™** Face Shield (1) is supplied with each unit. **Promate™** Face Shield **MUST** be worn prior to the next step by the operator as well as anyone else in the operation area. In addition the operator and anyone present **MUST** use protective gloves and clothing to protect skin from UV rays.



4. Turn power on using the Power Switch located on the rear of the **Sanidyne® Prime Remote** (See Power Switch location shown on **Figure 1–View A-A**). Switch will glow **RED** when power is on. Once unit receives power, the **RED** lights located just below the Occupancy Sensors on the top of the unit will glow **RED**. (See Occupancy Sensors (4 Total), shown on **Figure 1 – Dimensional Data**). This is not a warning, it indicates that the sensors are aware of your presence.

SANIDYNE® PRIME REMOTE OPERATION

The **Sanidyne® Prime Remote** has two methods of controlling the unit; the Keypad Controller (Shown in **Figure 2**) and the Hand-held Remote Controller (Shown in **Figure 3**). These two controls mirror each other; treatment times entered into Keypad Controller will appear on the Hand-held Remote Controller and vice versa.

USING THE KEYPAD CONTROLLER TO SET TREATMENT TIMES

1. Setting Treatment Time on the Keypad is done using the **HOURS** and **MINUTES** buttons which are located on the top of the unit. (See **Figure 1** for location) Selecting the up or down facing arrows located on the keypad in line with the **HOURS** or **MINUTES** button will either increase or decrease the hours or minutes. The hours can be set between 0 and 24, and the minutes can be set from 1 to 59. (Example of one hour and five minutes would appear as 01:05 on the Treatment Time Display). Since the Keypad Controller will no longer be viewable once the treatment time begins, it is recommended that the Hand-held Remote Controller be fully charged and powered before this time and be in possession of the operator at all times.
2. Determining the proper treatment times for your specific location can be done by using the “**Recommended Treatment Time for Room Size**” chart (**Figure 4** on **Page 13**).
3. Once the choice of time has been displayed on the Keypad controller, select the **START/STOP** button to begin and leave the Operation Area immediately. Make sure that the Hand-held Remote Controller is kept in possession of the operator during the Treatment Time.

Once you select the **START/STOP** button an audible exit alarm will begin to sound and the **Sanidyne® Prime Remote** will begin counting down from 1:30 seconds to allow all inhabitants to leave the area before the UV treatment begins. Additionally, the word “**PrEP**” will begin flashing on the Keypad and the Occupancy Sensors located on the top of the unit (Shown on **Figure 1**) will begin to operate at this time, providing an additional safety area around the unit. As an additional safety feature, if the sensors detect movement close to the **Sanidyne® Prime Remote** when less than 30 seconds remain on the countdown time, the **Sanidyne® Prime Remote** will automatically reset giving 30 seconds more to leave the Operation Area.

⚠ CAUTION Occupancy Sensors do not protect the entire Operation Area of the **Sanidyne® Prime Remote**. Under no circumstances should this sanitizer be permitted to operate with humans, plants, or animals present in the Operation Area.

4. Outside the Operation Area the Treatment Time can be viewed on the Hand-held Remote Controller. Once the treatment time has expired the unit will turn off the **STER-L-RAY®** Germicidal Ultraviolet Lamps and it is now safe to return to the area. The word “**DONE**” will begin flashing on the Keypad Controller on the top of the unit.

USING THE HAND-HELD REMOTE CONTROLLER TO SET TREATMENT TIMES

The Hand-held Remote Controller provides further detailed information on the **Sanidyne® Prime Remote**. Therefore it is recommended to review the Hand-held Remote Controller Overview section of this manual to become familiar with the display which is shown in **Figure 3**.

⚠ CAUTION The Hand-held Remote Controller can operate the **Sanidyne® Prime Remote** remotely, thus it is imperative that the operator make a visual inspection of the Operation Area to ensure it is clear of all humans, plants, or animals before proceeding.

1. Setting Treatment Time on the Hand-held Remote Controller is done by holding a finger on the display face, directly on the words Treatment Time until the screen changes to a scroll bar. Next scroll the numbers up or down, characters on the left are hours, characters on the right are minutes. Positioning the desired treatment time in the center row. (Example of one hour and five minutes would appear as 01:05 on the Treatment Time Display) When times are positioned correctly, select **DONE** on the bottom of the scroll bar to input your Treatment Time choice.
2. Determining the proper treatment times for your specific location can be done by using the “**Recommended Treatment Time for Room Size**” chart (**Figure 4** on **Page 13**).
3. Once the choice of time has been displayed on the Hand-held Remote Controller, select the start button to begin and leave the Operation Area immediately. Make sure that the Hand-held Remote Controller is kept in possession of the operator during the Treatment Time. (**Remote Controller Instructions Continued on Page 12**)

NOTE: Once you select the start button an audible exit alarm will begin to sound and the **Sanidyne® Prime Remote** will begin counting down from 1:30 seconds to allow all inhabitants to leave the area before the UV treatment begins. The words “LEAVE AREA” will now appear on the lower status bar of the Hand-held Remote Controller. (See Figure 3, for the specific location). The Occupancy Sensors located on the top of the unit (Shown on Figure 1) will begin to operate at this time, providing an additional safety area around the unit. If the sensors detect movement close to the **Sanidyne® Prime Remote** when less than 30 seconds remains on the countdown time, the **Sanidyne® Prime Remote** will automatically reset giving 30 seconds more to leave the Operation Area. The Countdown time as well as the Treatment Time will all be displayed on the Hand-held Remote Controller. See Figure 3, for the specific location.

⚠ WARNING Occupancy Sensors do not protect the entire Operation Area of the **Sanidyne® Prime Remote**. Under no circumstances should this unit be permitted to operate with human, or animals present in the Operation Area.

4. The Hand-held Remote Controller displays the Lamp Status; When the lamp operation indicators on the display glow yellow the lamp is on, when the lamp is off it displays grey. (See **Figure 3** to locate lamp operation indicators) Once the treatment time has expired the unit will turn off the Germicidal Ultraviolet Lamps and it is now safe to return to the area.

⚠ CAUTION If at any time during the Treatment Time the Occupancy Sensors detect someone near the **Sanidyne® Prime Remote**, the unit will immediately turn off and send an alarm to the Hand-held Remote Controller and the **Sanidyne® Prime Remote**. If this event occurs the alarm can be turned off on the remote by pressing anywhere on the display or at the **Sanidyne® Prime Remote** by pressing the START/STOP on the Keypad. If the Alarm is turned off at the **Sanidyne® Prime Remote** the operator can reset the unit by pressing the START/STOP button on the keypad controller again to begin the 1:30 countdown to allow all inhabitants to leave the area. After the 1:30 has elapsed the unit will power on and complete the remaining Treatment Time left prior to the alarm.

If the Hand-held remote is used to stop the alarm, the operator must return to the area and ensure that the area is safe to proceed. Select the START/STOP button on the keypad controller to begin the 1:30 countdown to allow all inhabitants to leave the are. After the 1:30 has elapsed the **Sanidyne® Prime Remote** will power on and complete the remaining Treatment Time left prior the alarm.

SETTING DATE AND TIME

1. Press the **Settings** Button.
2. Press **Set Date/Time**.
3. Press **Admin Pin**. Using keyboard enter Pin number 1234.
4. Press **Date** or **Time**.
5. Scroll in **Date** or **Time** by swiping the scroll bar.
6. Press **Done**. Then press **Home** button when finished.

SAVING A SESSION

Saving a Session: At the end of a Session or after a Session is Stopped the “**Save This Session**” box will appear.

To save a Session;

1. Press **Yes** under Save Session.
2. Press on **Note Entry**
3. Type in Session Notes, press **OK**

Clearing Total Op Time or Clearing Session Data:

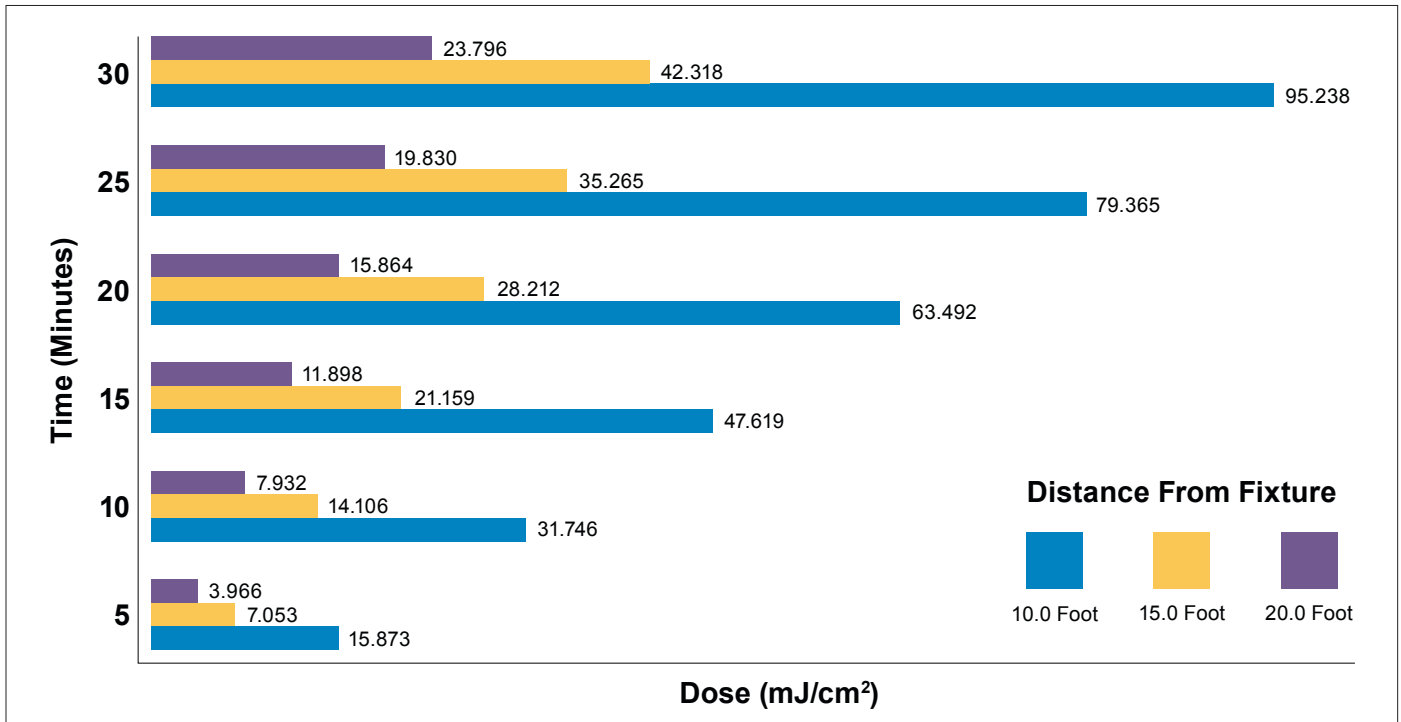
1. Press **Settings** Button
2. Press **Settings**
3. Press on the box next to “**Reset Total Operating Time**” and/or “**Clear Session Data.**”
4. Press **Home** Button

DETERMINING TREATMENT TIME FOR ROOM SIZES

⚠ CAUTION The Sanidyne® Prime Remote is intended for use in **UNOCCUPIED AREAS ONLY**. Under no circumstances should this unit be permitted to operate with humans, plants or animals present in the Operation Area. Consult our UV Application Specialists if you have any questions or need help with the Sanidyne® Prime Remote.

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® Prime Remote** on each side of large fixed objects (like a bed, or table, etc).
2. Measure the longest distance from the **Sanidyne® Prime Remote** to the farthest wall. Use this length to compare to the Distance From Fixtures / Time (Minutes) shown on **Figure 4** below.
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.

Figure 4 – Recommended Treatment Time for Room Sizes - Sanidyne® Prime Remote



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

MAINTENANCE



IN ORDER TO PERFORM THIS TASK, WEAR PERSONAL PROTECTION EQUIPMENT; GLOVES, LONG SLEEVE SHIRT WITH NO GAPS BETWEEN CUFFS AND GLOVES, AND AN ULTRAVIOLET BLOCKING FACE SHIELD MUST BE WORN TO COVER AND PROTECT EYES AND EXPOSED SKIN.

 **⚠️ WARNING** Always disconnect power to the fixture before performing any service or maintenance.

- A regular cycle of cleaning each **STER-L-RAY**® Germicidal Lamp MUST be established based on visual inspection and experience. The frequency of cleaning will vary with the conditions surrounding each installation. It is recommended that the germicidal lamp(s) and **Sanidyne**® Prime Remote surfaces be cleaned at least once every three (3) months.
- The **STER-L-RAY**® Germicidal Lamp(s) used in the **Sanidyne**® Prime Remote fixture have a manufacturer's rated average effective life of 13,000 hours. **STER-L-RAY**® lamps may operate longer than their rated effective life, but the reduction in ultraviolet output will make it impractical to use past the manufacturer's rated life. For maximum efficiency lamp replacement is recommended every 13,000 hours of operation.
- Unless lamp replacement is due to failure or breakage, it is recommended that all lamps be replaced at the same time.
- It is recommended that the user maintain a log of all maintenance performed on **Sanidyne**® Prime Remote. (See Page 17.)



Personal protection equipment, such as gloves; long sleeves with no gaps between cuffs and gloves, and an ultraviolet resistant face shield, is required when entering the irradiated space.

GERMICIDAL LAMP INSTALLATION, REPLACEMENT, OR CLEANING




IN ORDER TO PERFORM THIS TASK, WEAR PERSONAL PROTECTION EQUIPMENT; GLOVES, LONG SLEEVE SHIRT WITH NO GAPS BETWEEN CUFFS AND GLOVES, AND AN ULTRAVIOLET BLOCKING FACE SHIELD MUST BE WORN TO COVER AND PROTECT EYES AND EXPOSED SKIN.

NOTE: **STER-L-RAY**® lamps used in the **Sanidyne**® Prime Remote have **ArmorLite**™ Safety Shield (which is a protective covering over the glass of the lamp—DO NOT REMOVE this covering.)

 **⚠️ WARNING** Always disconnect power, to the fixture before performing any service or maintenance.

 **⚠️ CAUTION** Germicidal lamps are easily damaged. Exercise care when handling lamps.

1. To remove lamps follow the steps under “Lamp Installation” on Pages 9–10 in reverse order.
2. Moisten a clean, lint-free cloth with denatured alcohol and wipe down the outer surface of the lamp.
3. When lamp has been removed and cleaned, then safely set aside, remove any loose dust or dirt from the surface of the fixture with a soft, dry cloth or vacuum.
4. To reinstall lamps follow the steps under “Lamp Installation” on Pages 9–10.
5. Reconnect **Sanidyne**® Prime Remote to utility power, and restart.

 **⚠️ WARNING** Avoid exposure to direct or strongly reflected germicidal ultraviolet rays. Germicidal ultraviolet rays are harmful to the eyes and skin.

LAMP BREAKAGE

 **⚠️ CAUTION** Broken Quartz is SHARP.



Wear protective gloves when handling broken ultraviolet lamps. In the event of breakage, DO NOT use a household vacuum cleaner to pick up fragments of the lamp. Sweep up debris into a plastic bag and dispose of in accordance with local and/or state regulations.

DISPOSAL OF MERCURY ADDED LAMPS



Germicidal ultraviolet lamps, like standard fluorescent lamps contain small amounts of mercury. Mercury added lamps should not be placed in the trash. Dispose of properly. For further information regarding the disposal and recycling of lamps containing mercury, along with Federal and State requirements visit LampRecycle.org. For more information on **STER-L-RAY**® Germicidal Ultraviolet Lamps, visit Ultraviolet.com or BuyUltraviolet.com.

FUSE REPLACEMENT

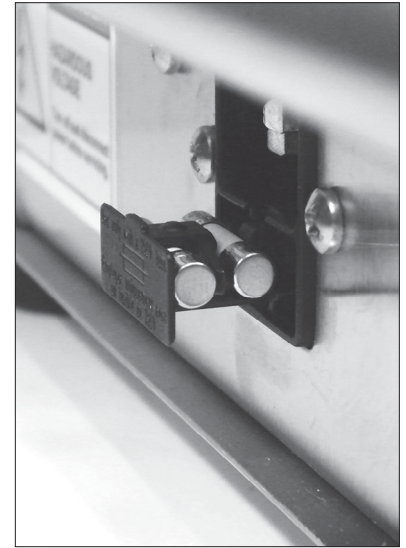
The fuse is contained in a small plastic tray at the bottom of the power connector.

1. Remove the power connector from the back of the **Sanidyne® Prime Remote**. A screwdriver can be used to access the fuse by inserting the blade in one of the horizontal slots and gently twisting the handle to bring the tray forward.
2. A spare fuse is accessible, clipped in front of the active fuse.

**Step 1 – Insert
Screwdriver & Bring
Tray Forward**



**Step 2 – Open Tray
(Spare Fuse is Clipped in
Front of the Active Fuse)**



TROUBLESHOOTING

⚠️ WARNING Always disconnect power to the fixture before performing any service or maintenance.



IN ORDER TO PERFORM THIS TASK, WEAR PERSONAL PROTECTION EQUIPMENT; GLOVES, LONG SLEEVE SHIRT WITH NO GAPS BETWEEN CUFFS AND GLOVES, AND AN ULTRAVIOLET BLOCKING FACE SHIELD MUST BE WORN TO COVER AND PROTECT EYES AND EXPOSED SKIN.

IMPORTANT: This fixture is to be serviced ONLY by qualified and factory authorized personnel.

Table 1 – Troubleshooting

Problem	Possible Cause	Corrective Action
Sanidyne® Prime Remote not operating	Power disconnected	Check connections.
	Fuse not operating	Remove power connector to check and replace fuse if necessary. (See “ Fuse Replacement ” section.)
STER-L-RAY® Lamp not operating	STER-L-RAY® Germicidal lamp faulty	Swap suspect lamp, with lamp known to be good. If suspect lamp does not operate, replace lamp.
	STER-L-RAY® Germicidal lamp not properly seated	Check lamp socket and re-install lamp if necessary.
	Loose Connection	Inspect for loose or disconnected wires.
	Surelite™ Ballast not operating	Disconnect the fixture from utility power; then replace ballast.
Sanidyne® Prime Remote fails to shut off	Microprocessor assembly faulty	Wearing protective clothing and face shield, enter area, and disconnect power to unit. Call factory for technical service.

TECHNICAL SPECIFICATIONS

Table 2 – Technical Specifications

Model:		40-0634B	40-0674B
Volts:		120v	220–240v
Amps:		4.5A	2.5A
Hertz:		50/60Hz	50/60Hz
Maximum Treatment Time:		24 Hours	
Weight:		31 lbs.	
Dimensions:	Length: (Inches)	13-15/16"	
	Width: (Inches)	12-1/8"	
	Height: (Inches)	36-7/8"	
Lamp Data:	Lamp Model:	05-0892	
	Number of Lamps:	8	
	Power Consumption: ① (Watts/Lamp)	68.75W (550W Total)	
	Ultraviolet Output: ② (Watts/Lamp)	17.8W (143W Total)	
	Average Effective Life: (Hours)	13,000	

① Wattage is lamp watts only and does not include ballast loss.

② Ultraviolet output at 254nm at 100 hours and 80°F (approximate).

All specifications, dimensional data, etc are approximate and subject to change without notice.

OPTIONAL ACCESSORIES

- Zenith™ Germicidal Ultraviolet Detector (30-1015):** 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 (00-1299):** Safety eyewear **MUST** be used as general-purpose safety protection and for additional shielding from ultraviolet rays
- Additional Promate™ Face Shields (00-0126):** Lightweight visor with adjustable headgear provides eye and face protection from ultraviolet rays. One (1) face shield is included with purchase of **Sanidyne® Prime Remote** but additional face shields may be purchased.
- Additional Promate™ Danger Signs (98-1827):** Glossy card stock signs (8-1/2" x 11") 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. Two (2) warning signs are included with purchase of **Sanidyne® Prime Remote** but additional signs may be purchased. **NOTE:** Danger Signs have English on one side and Spanish on the other.
- Assure™ UV-C Dosimeter (00-0376):** 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 (00-0373):** Contains a patented colorimetric indicator that changes color at 25, 50, and 100 mJ/cm² to visibly confirm that your **Sanidyne® Prime Remote** is achieving the desired UV-C exposure. Each card is designed for one (1) treatment cycle and **CANNOT** be reused. Complete instructions for use are on back of card. One (1) card has been included with this purchase but additional cards may be purchased by phone or on BuyUltraviolet.com.
- Personal UV-C Exposure Indicators (00-0375):** 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.

For more information and purchasing contact our offices, weekdays between 8:30 am and 5:00 pm Eastern time, at:
Atlantic Ultraviolet Corporation®, 375 Marcus Boulevard, Hauppauge, New York, 11788

REPLACEMENT PARTS

Table 3 – Replacement Parts

Item No.	Description	120v 50/60Hz	220–240v 50/60Hz
		Part No.	Part No.
1	STER-L-RAY® Germicidal Lamp	05-0892	
2	Surelite™ Ballast	10-0138	
3	Power Cord	35-1754	35-1767
4	Fuse	35-0644	35-0664

Other replacement parts are available. Consult Atlantic Ultraviolet Corporation® for specific requirements.

MAINTENANCE LOG

Date	Maintenance Performed	Service Person	Comment(s)

MAINTENANCE LOG

Date	Maintenance Performed	Service Person	Comment(s)

MAINTENANCE LOG

Date	Maintenance Performed	Service Person	Comment(s)

USER ASSISTANCE

Atlantic Ultraviolet Corporation® makes every effort to ensure that the **Sanidyne® Prime Remote** Portable Area Sanitizer is a product of superior quality and workmanship. This manual describes the installation, operation and maintenance of the **Sanidyne® Prime Remote** Portable Area Sanitizer.

Please read and become familiar with the contents of this manual before installing or using this unit. If after reading the manual you still have questions, or concerns, regarding the installation or use of this unit, contact our offices, weekdays between 8:30 am and 5:00 pm Eastern Time, at:

Atlantic Ultraviolet Corporation®
375 Marcus Boulevard
Hauppauge, New York, 11788
Tel: (631) 273-0500
Fax: (631) 273-0771
Email: Sales@AtlanticUV.com
Website: Ultraviolet.com
BuyUltraviolet.com

PATENT NOTICE

No attempt has been made to determine the patent status of applications illustrated or described in this publication. Inclusion in this publication of any design or method of use, which may be patented, is not to be construed as promoting or sanctioning unauthorized use.

WARRANTY & PRODUCT REGISTRATION

We warrant this product to the original owner to be free from defects in material and workmanship when installed in accordance with Atlantic Ultraviolet Corporation® specifications for a period of time as follows:

UV Water Purifier Chambers – Type 316 stainless steel chambers will have a Twelve (12) year Limited Warranty on the stainless steel chamber, from the date of original purchase while the Type 304 stainless steel chambers will have a Six (6) year Limited Warranty on the stainless steel chamber.

UV Air Disinfection Housing – Three (3) year Limited Warranty on the metal housing, from the date of original purchase.

Ballasts – Three (3) year Limited Warranty, from the date of original purchase.

UV Lamps, Monitoring Devices, Optional Accessories, and Other Parts – One (1) year Limited Warranty from the date of original purchase.

Within the warranty period we shall repair or replace such products, which are returned to us with shipping charges prepaid and which are determined by us to be defective. This warranty will not apply to any product, which has been subjected to misuse, negligence or accident; or misapplied; or modified; or repaired by unauthorized person; or improperly installed. Warranty will be null and void if any of the product's original labels are removed. This Limited warranty excludes the cost of labor.

The Buyer shall inspect the product promptly after receipt and shall notify us at our main office in writing of claims, including claims of breach of warranty, within thirty (30) days after the Buyer discovers or should have discovered the facts upon which the claim is based. Failure of the Buyer to give written notice of a claim within the time period shall be deemed to be a waiver of such claim.

The provisions of the above warranty are our sole obligation and exclude all other remedies or warranties, expressed or implied, including warranties of merchantability and fitness for a particular purpose, whether or not purposes or specifications are described herein. We further disclaim any responsibility whatsoever to the customer, or to any person for injury to person, damage to, or loss of property or value caused by any product which has been subjected to misuse, negligence, accident; or modified or repaired by unauthorized persons; or improperly installed.

Under no circumstances shall the Company be liable for any incidental, consequential or special damages; losses or expenses arising from the contract for this product, or in connection with the use of, or inability to use, our product for any purpose whatsoever.

Be sure to register your product and validate purchase within 30 days — registration is simple and will take less than 2 minutes to do.

NOTE – failure to register your purchase may jeopardize warranty.

Go to Ultraviolet.com and scroll down to the bottom of the page, under “Trust” click the “Warranty Registration Form”, complete and click “Submit”. Or click on “Warranty Registration PDF” to download the warranty registration card as a PDF, complete and mail to us at 375 Marcus Boulevard, Hauppauge, NY 11788, or simply fax to (631) 273-0771. If you prefer to register by phone, please call (631) 273-0500 and our customer service staff will be glad to assist you.

For your convenience, record the following information below. The model and serial number can be found on a label located on the **Sanidyne® Prime Remote** Portable Area Sanitizer. Keep this manual, along with proof of purchase, handy when contacting our offices.

Purchased From:	Date:
Model:	Serial No.: