



# **360 UV STERILIZER MODEL SOTO-UV360**

## **Operation Manual**

Before operating the system, please read this manual thoroughly and retain it for future reference.

**SOTC**

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## **CONSUMER LIMITED WARRANTY**

SOTO provides the following limited warranty for this device solely if it was originally purchased from SOTO or an authorized dealer.

SOTO warrants that, under normal use and proper maintenance, the device shall be free from defects in materials and workmanship throughout the applicable warranty period. Should any such defects be identified during this period, SOTO reserves the right, at its sole discretion, to repair or replace the device in accordance with the terms specified herein.

SOTO will repair or replace, free of charge, to the original purchaser, any part that is found to be defective in material or workmanship within one (1) year of the date of purchase. This limited warranty does not cover the replacement of expendable or consumable parts such as UV lamps, and other parts subject to normal wear unless they are defective in material or workmanship.

### **This Warranty Shall Not be Applicable If:**

1. Any defects caused or repairs required because of abusive operation, negligence, accident, improper installation or inappropriate use as outlined in the operation manual.
2. Any product tampered with modified, adjusted or repaired by any party other than SOTO.
3. Damaged caused or repairs because of the use with items not specified or approved by SOTO.
4. Any damage caused by external or environmental conditions (such as a fire or an earthquake), including but not limited to the use of voltage other than indicated on the product.
5. Damage caused by incorrect electrical supply, voltage fluctuations, or use of power sources not specified on the product label.
6. Shipping damage occurring after delivery unless otherwise agreed in writing.
7. In situations where the product information fails to correspond to the product, or where adequate valid documentation is absent to prove that the defective product originated from SOTO or an authorized distributor.

## **SAFETY PRECAUTIONS**

To minimize the risk of electric shock, fire, or personal injury, please carefully read and adhere to the following instructions.

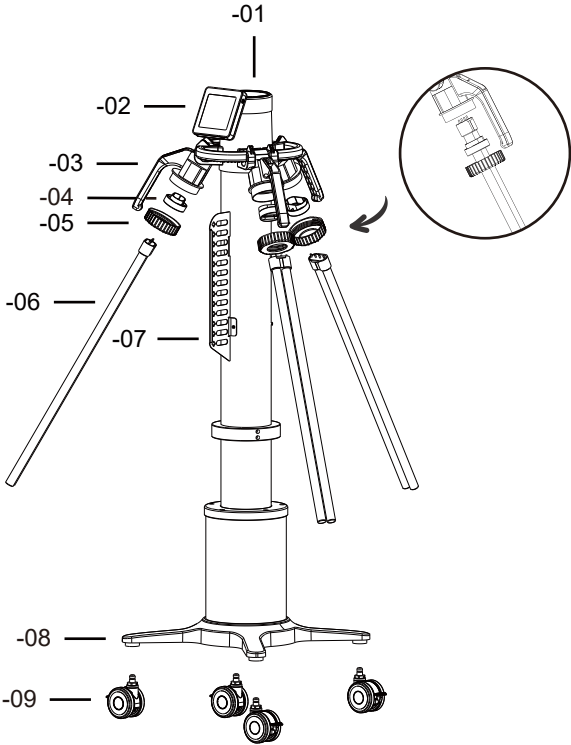
### **Guidelines for the Operating Environment**

1. This device must be operated without personnel present. Upon completion of operations, users are required to evacuate the area immediately.
2. Use only a 120-220V outlet equipped with a grounding wire receptacle.
3. The device must not be operated in confined spaces containing flammable, explosive, or toxic vapors, as such environments may pose a significant risk of fire or explosion.
4. Do not operate the unit in excessively high temperatures or humid environments. The optimal operating conditions are a temperature range of 0~40 °C and a relative humidity below 75%.

### **Operation of the Device**

1. Operate the device strictly in accordance with the instructions specified in this manual.
2. Do not operate the unit if the power cord or plug is damaged, or if the connection to the wall outlet is insecure.
3. Avoid handling the plug or electrical device with wet hands, as this may result in electric shock or fire hazards.
4. To reduce the risk of electric shock, this equipment has a grounding type plug that has a third (grounding) pin. This plug will only fit into a grounding type power outlet. If the plug does not fit into the outlet, contact qualified personnel to install the proper outlet. Do not alter the plug in any way.
5. To avoid potential fire hazards, do not disassemble the device under any circumstances.
6. The device should be positioned on a level floor within the room to prevent the unit from tipping over.
7. Before operating the device, ensure that all three UV lamps are properly and securely installed.
8. Regularly wipe the UV lamps with a dry, soft cloth to maintain optimal sterilization performance.

# STRUCTURE AND MAIN PARTS



- 01 Power on Indicator Light
- 02 Intelligent Touchscreen
- 03 UV Lamp Handle
- 04 Lamp Connector
- 05 Lamp Spiral Fastener
- 06 UV Lamp
- 07 Photocatalytic Plate
- 08 Device Base
- 09 Caster

## HOW IT WORKS

The device primarily consists of three H-shaped high-power UV lamps and photocatalytic plates. These UV lamps are strategically arranged in a 360-degree configuration, enabling effective disinfection of indoor air and object surfaces, thereby ensuring comprehensive, all-around sterilization without blind spots.

The emitted UV radiation effectively disrupts the DNA and RNA molecular structures of microorganisms, thereby inactivating their reproductive and metabolic functions, resulting in microbial inactivation and achieving efficient sterilization and disinfection.

To prevent potential harm from high-intensity UV radiation, this device must be operated only in the absence of personnel. Upon initiation of operations, users are required to evacuate the area immediately.

### Features

1. 360-degree sterilization: The three H-shaped high-power ultraviolet lamps facilitate comprehensive 360-degree sterilization.
2. PCO system: Photocatalytic plates effectively decompose harmful airborne substances through photocatalytic oxidation processes.
3. Radar surveillance: Equipped with a radar sensor protection system, all UV lights will be immediately turned off when personnel are detected in proximity, preventing accidental UV exposure and potential injury to individuals.
4. Intelligent control system: The intelligent control panel enhances operational convenience and safety, while effectively overcoming the limitations typically associated with traditional UV sterilizers.
5. Damping mechanism: The lamp base features a damping mechanism that enables convenient single-handed operation, ensuring smooth and secure adjustment of the lamp angle.

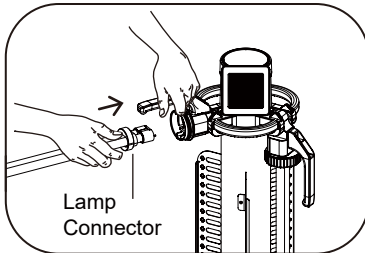
## INSTALLATION

### Operational Environment

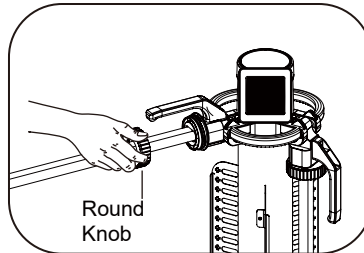
1. Power supply condition: Use only a 120–220V outlet equipped with a grounding wire receptacle.
2. Environmental conditions: Temperature range of 0°C to 40°C; Relative humidity below 75%.
3. Device placement: The device must be placed on a stable and level surface during operation.

### Installation of the UV Lamps

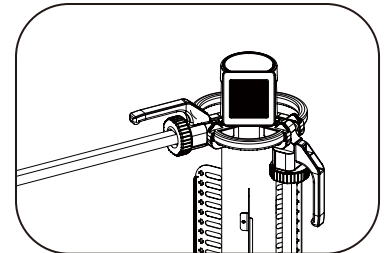
Remove the three UV lamps from the packaging and proceed with installation as illustrated in the figure below.



1. Put the UV lamp connector on the lamp tube, then insert the UV lamp into the UV lamp socket of the unit.



2. Secure the lamp spiral fastener by tightening it clockwise onto the UV lamp connector.

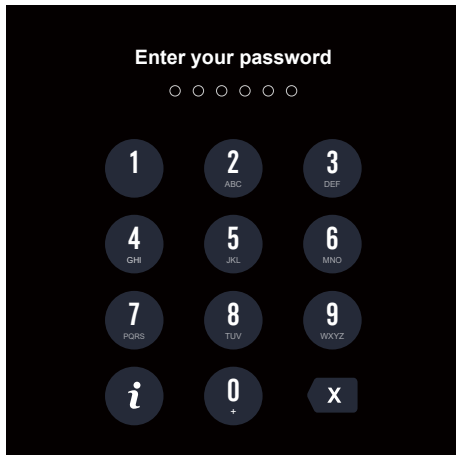


3. The installation of the UV lamp has now been successfully completed.

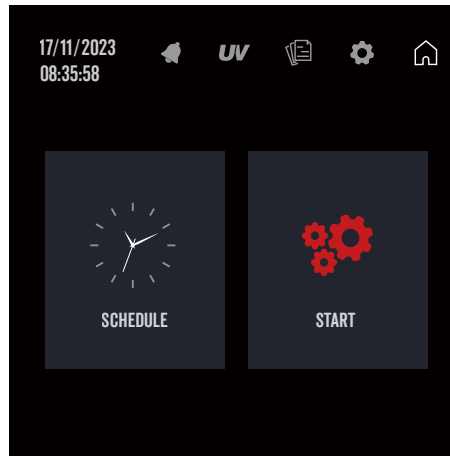
## OPERATION 1

### Initiate the Device Operation

Place the device on a flat and stable surface within the room. Carefully raise and fully extend the UV lamps as necessary. Connect the unit's power cord to a nearby electrical outlet. Press the power switch located on the right side of the control display panel to activate the system. Perform the following operations.



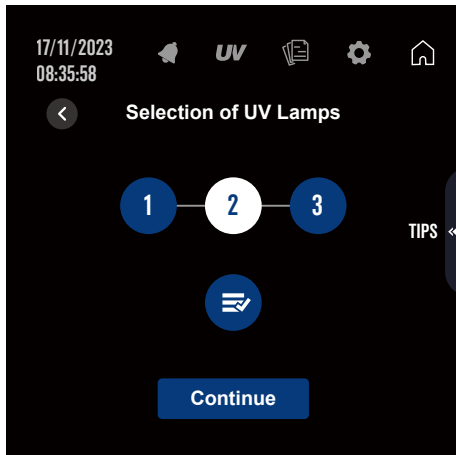
1. Please enter your password. The default password is 123456.



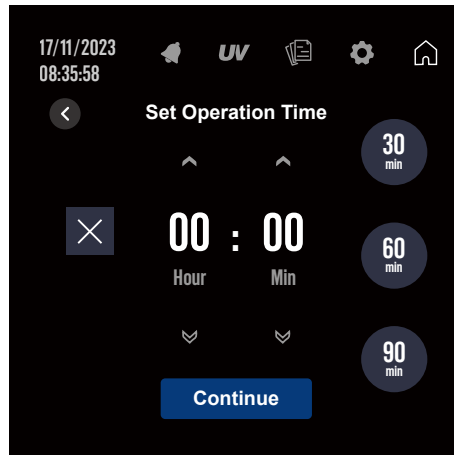
2. Start operation by pressing the "START" button.

## OPERATION 2

Please select the UV lamps to be activated, set their operating duration, and provide detailed information regarding the disinfection area and the operator.



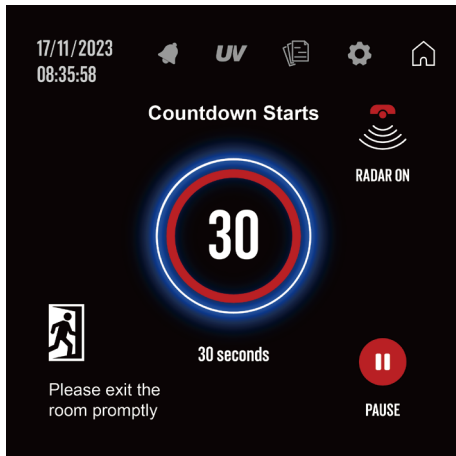
1. Select the lamps to be turned on by pressing the corresponding circular buttons.



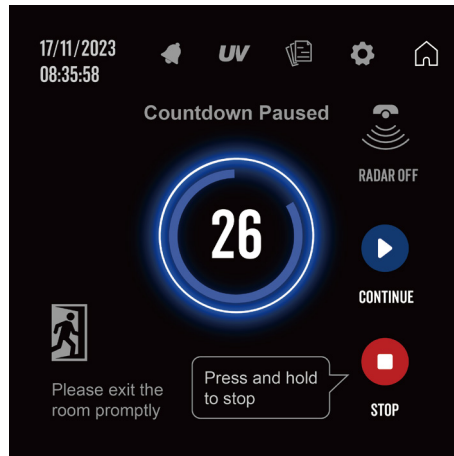
2. Set the operational time.

## OPERATION 3

Upon completion of the above settings, the UV lamp will initiate a countdown and commence operation. The PAUSE button can be pressed to temporarily suspend operation, or the STOP button may be pressed and held to terminate the process entirely. Once the countdown begins, all personnel must immediately evacuate the area to prevent potential harm from exposure to UV radiation.



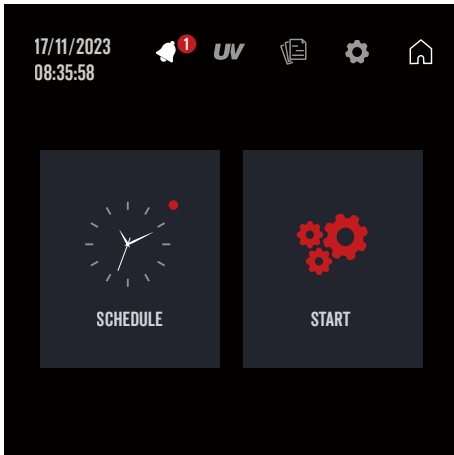
1. Press the "PAUSE" button to suspend the countdown process.



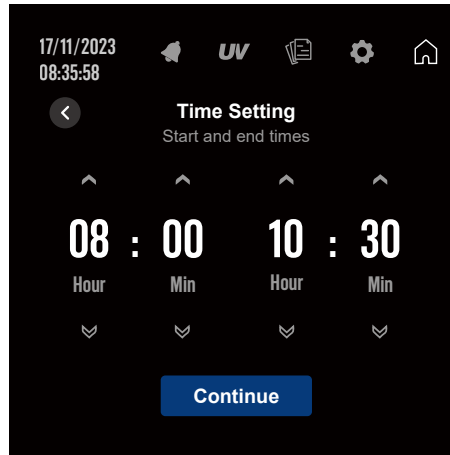
2. Press and hold the "STOP" button to terminate the process.

## OPERATION 4 SCHEDULING SETTING 1

This device features a scheduled start function, allowing users to program tasks by pressing the PROGRAM button on the main touchscreen interface to configure designated operations.



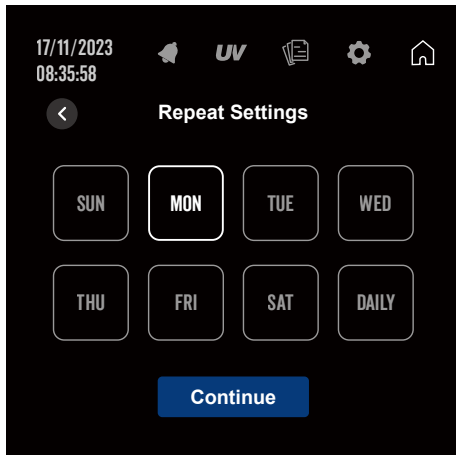
1. Press the "SCHEDULE" button to schedule a task.



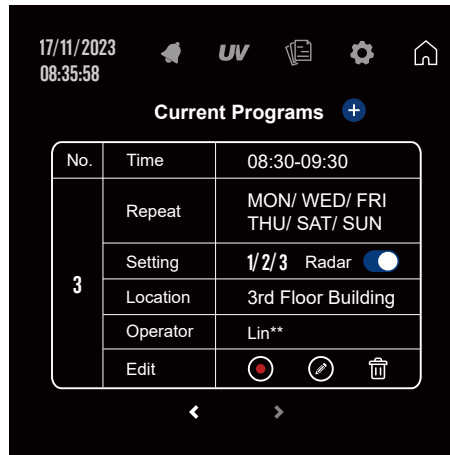
2. Set the start and end times.

## OPERATION 4 SCHEDULING SETTING 2

Continue setting up the weekly recurring schedule, select the UV lamps to be activated, and specify the disinfection area along with the operator's name, the system will then automatically generate the corresponding scheduled task list. In the scheduled task list, users can modify settings by selecting various configuration options and enabling or disabling scheduled tasks.



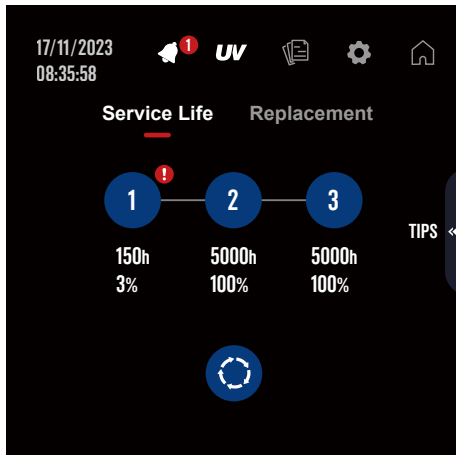
1. Set a weekly recurring schedule.



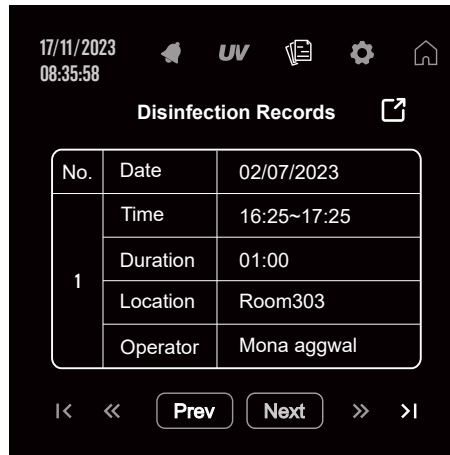
2. Generate a scheduled task list.

## OPERATION 5 SERVICE LIFE & DISINFECTION RECORDS

By selecting the UV lamp management and record management options from the navigation menu, users can access detailed information on the service life and replacement history of UV lamps, as well as view and export disinfection logs for further analysis.



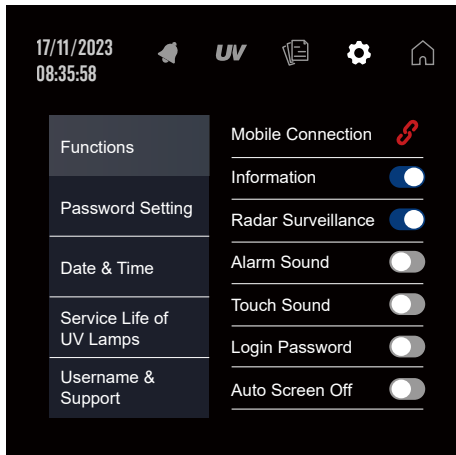
1. View the service life of the UV lamps by clicking on the "UV" option.



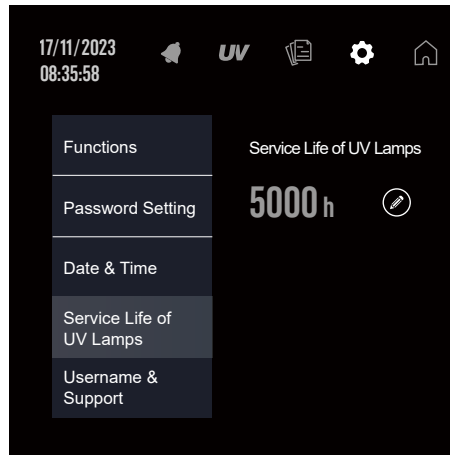
2. Access and export UV lamp disinfection records.

## OPERATION 6 VARIOUS SETTINGS

Access the Settings interface through the navigation menu to configure various functional options, including password modification and UV lamp service life settings.



1. Enable or disable specific functions as required.



2. Adjust the operational service life of the UV lamp.

## **CARE AND MAINTENANCE 1**

To ensure optimal performance of the device, regular maintenance and timely replacement of UV lamps are required. Before conducting any maintenance procedures, confirm that the power cord has been disconnected from the power source. Furthermore, under no circumstances should the plug be handled with wet hands to eliminate the risk of electrical shock and potential injury.

### **Regular Maintenance**

1. For persistent stains or accumulated dirt on the device, gently wipe the surface using a dry, soft cloth. Avoid the use of volatile solvents such as benzene or paint thinner, as they may damage the surface finish.
2. Clean the UV lamps regularly using a cotton swab moistened with 75% alcohol to remove accumulated dust. Avoid the use of wet wipes or damp cloths, as residual moisture may leave watermarks that could impair the sterilization efficacy.

### **Message Center**

A notification will promptly appear on the screen whenever the UV lamp malfunctions or requires replacement. Users may also access the Message Center to review detailed information.

## CARE AND MAINTENANCE 2

### Replace the UV Lamp

1. Before replacing the UV lamp with a new one, ensure that the device is powered off and the power cord is disconnected to avoid potential safety hazards.
2. *The procedure for replacing the UV lamp generally follows the reverse sequence of the initial installation steps, refer to the INSTALLATION section for details.*

### Reset the UV Lamp Replacement Timer

Following the replacement of the ultraviolet lamp, it is essential to reset the replacement timer to ensure accurate monitoring of the operational duration.

1. Click the UV icon in the navigation menu to access the UV lamp management interface.
2. Press the circular button to reset the replacement timer for the corresponding UV lamp.
3. Press the central button to reset the replacement timers for all UV lamps simultaneously.

## **TROUBLESHOOTING**

Service issues that may initially appear significant can often be resolved through simple measures. Users are encouraged to consult the following guide to address common concerns independently. For all other maintenance or repair requirements, service must be performed exclusively by an authorized service center.

### **1. The Device is Not Powered On**

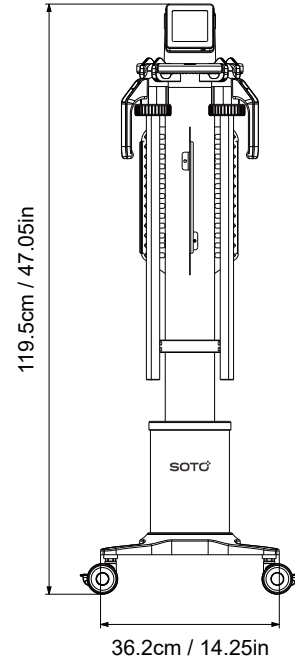
Please verify that the device is securely connected to the power cord. If the connection appears to be intact, please check the power supply of other electrical appliances to determine whether a power outage has occurred.

### **2. The UV Lamp is Not Functioning Properly**

Please verify that the UV lamp tube has been securely installed in the device. If installation is confirmed to be correct, the issue may be due to either the UV lamp tube or the ballast. In the event of a suspected ballast malfunction, please contact customer service personnel promptly for assistance.

## SPECIFICATIONS

Product Name	360 UV Sterilizer
Model No.	SOTO-UV360
Power Req	220-220V, 50/60Hz
Rated Power	165W
UV Lamp	3x55W / 254nm, UV-C
Dimensions	36.2cmx36.2cmx119.5cm
Weight	8.5kg / 18.74lb
Power Cord	2.5m
Operation	Touchscreen Control
Intelligent Control	Timer / Countdown
Panel	Radar Surveillance Disinfection Records UV Lamp Service Life UV Lamp Replacement Records



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