



# **AIR PURIFIER**

## **MODEL SOTO-Y8**

### **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.

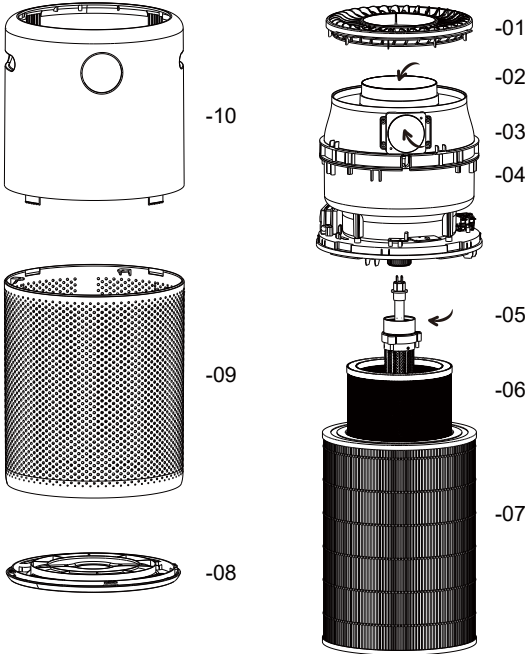
### **Guidelines for the Operating Environment**

1. Use only with a 220-240 volt electrical outlet.
2. Do not operate the unit in enclosed spaces containing flammable, explosive, or toxic vapors, such as those emitted by oil-based paints, paint thinners, or certain mothproofing agents, as this may pose a risk of fire or explosion.
3. 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. Do not operate the unit without first installing the filters. Ensure that all plastic packaging materials are completely removed from the filters prior to operation.
2. The HEPA filter and activated carbon filter should not be washed or reused.
3. Do not operate the unit if the power cord or plug is damaged, or if the connection to the wall outlet is loose.
4. Avoid handling electrical outlets or plugs with wet hands, as this may result in electric shock or fire hazards.
5. Do not disassemble the device unless you are a certified technician, as there is a risk of fire or electric shock.
6. When conducting maintenance, ensure the unit is powered off and disconnected from the power supply.
7. Do not insert fingers or any foreign objects into the air intake or exhaust outlet.
8. Keep hair, loose clothing, fingers, and all other body parts clear of openings and moving components.
9. Avoid direct exposure to UV lamps, as germicidal ultraviolet radiation may result in temporary or permanent eye damage, including the risk of blindness.
10. Do not clean the device with flammable substances, as this may pose a fire hazard.

# STRUCTURE AND MAIN PARTS



- 01 Air Outlet
- 02 Sensor Panel
- 03 Display Control Panel
- 04 Fan Motor System
- 05 UV-Photocatalytic System
- 06 Activated Carbon Filter
- 07 HEPA Filter
- 08 Bottom Plate
- 09 Lower Enclosure (Air Inlet)
- 10 Upper Enclosure

## HOW IT WORKS

The device integrates three core functional systems: a fan motor assembly, a multi-stage filtration system, and a UV-photocatalytic oxidation (UV-PCO) air purification system. During operation, the fan motor draws indoor air through an intake port located at the base of the lower enclosure. The airflow sequentially passes through the filtration system and the UV-PCO treatment module to achieve comprehensive purification and disinfection. The filtration system features a three-stage design: a pre-filter captures large particulate matter, a HEPA filter removes fine particles with diameters of 0.3 microns or larger, and an activated carbon filter adsorbs volatile organic compounds (VOCs), odors, and other gaseous pollutants. The UV-PCO system is integrated within the filtration pathway and employs ultraviolet light at a wavelength of 254 nm to activate photocatalytic oxidation processes. This dual-action mechanism helps reduce airborne contaminants and microorganisms while simultaneously decomposing hazardous chemical compounds through oxidative reactions. In addition, negative ion generators are positioned near the air outlet to release negative ions into the purified airstream. This feature enhances indoor air quality by promoting particle aggregation and sedimentation, thereby contributing to a cleaner and more refreshing indoor environment.

### Features

1. **High-Performance DC Brushless Motor:** The device features an integrated high-performance DC brushless motor coupled with a centrifugal fan, ensuring low noise operation and high airflow output.
2. **Filtration System and UV-PCO System:** The integration of the filtration system and the UV-PCO system not only enables effective air purification but also achieves comprehensive air disinfection.
3. **Negative Ions:** Negative ions play a significant role in improving and purifying indoor air quality.
4. **Multiple Sensors:** The multiple sensors enable monitoring and real-time display of air quality conditions.
5. **Supports Multiple Operational Modes:** The hand gesture operation enables touchless control, helping reduce the risk of cross-contamination among users. The RF remote control features through-wall signal transmission, while the mobile application allows intelligent remote control and scheduled operation settings.

## INSTALLATION

### Operational Environment

1. Power Supply Condition: Use only a 220–240V electrical outlet.
2. Environmental Conditions: Temperature range of 0°C to 40°C; Relative humidity below 75%.
3. Device Placement: During operation, the device must be placed on a stable and level surface.
4. Install the device in an indoor area with minimal personnel traffic, positioning it against a wall. Operating the device in flammable, explosive, or other hazardous gas environments is strictly prohibited.

### Before Operation

1. Upon receipt, verify that the device and all accompanying components are complete and in satisfactory condition. If any items are missing or damaged, contact the customer service center immediately.
2. *Before initial operation, **Remove the Plastic Packaging** from both the HEPA and activated carbon filters inside the device. The operational procedures are detailed below.*
  - A. Carefully turn the unit upside down after placing a soft padding on the ground to prevent damage during handling. Rotate the bottom plate counterclockwise to open it, then remove the HEPA and activated carbon filters. Finally, remove the protective plastic covering.
  - B. Reinstall the HEPA and activated carbon filters into the unit, then secure the bottom plate by rotating it clockwise until it clicks into place.

## OPERATION 1 HAND GESTURE OPERATION

The device is equipped with an innovative hand gesture control system. To operate it, connect the power cord and perform a hand gesture over the sensor panel, which will activate the device and adjust the fan speed accordingly. The fan speed adjustments based on hand gesture operations are outlined below.

1. The first wave will activate the device at low speed (L).
2. The second wave will increase the speed to medium (M).
3. The third wave will set the system to high speed (H).
4. The fourth wave will engage Turbo mode, with all circular indicators fully lit.
5. The fifth wave will illuminate the 'AUTO' indicator, activating automatic mode.
6. The sixth wave will activate the first circular indicator in ice blue, signaling Standby mode.

### Auto Mode

In Auto mode, the device dynamically adjusts its operating speed based on airborne pollutant concentration levels detected by its built-in sensors.

### Lock and Unlock the Buttons

Hover your hand over the sensor panel and hold it steady to lock the device at the desired speed. To unlock, repeat the gesture.



Hand Gesture Operation

## OPERATION 2 TOUCHSCREEN BUTTON OPERATION

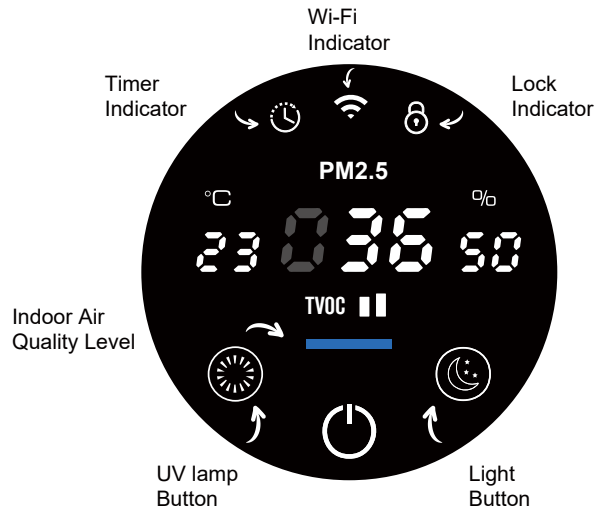
After one minute of inactivity, the power button and digital display remain illuminated while all other indicator lights turn off, activating screensaver mode.

### Touchscreen Buttons

1. Power Button: Press to turn the device on or off. *After replacing filters and the UV lamp, press and hold to reset the service life indicators.*
2. Timer Indicator Light: To set the operating time, use the remote control. Once the time is set, the timer indicator light will turn on.
3. UV Lamp Button: Press the button to turn the UV lamp on or off.
4. Light Button: Pressing the light button turns off all indicator lights on the display panel.

### Indoor Air Quality Level Display

The device employs a color-coded indicator system to provide an intuitive assessment of the air quality: Blue signifies good air quality, orange indicates unhealthy conditions, and red represents hazardous levels.



Control Display Panel Diagram

## OPERATION 3 REMOTE CONTROL AND MOBILE APPLICATION

The device uses an RF remote control, which must be paired with the unit before first use to ensure correct operation.

### Pairing Process

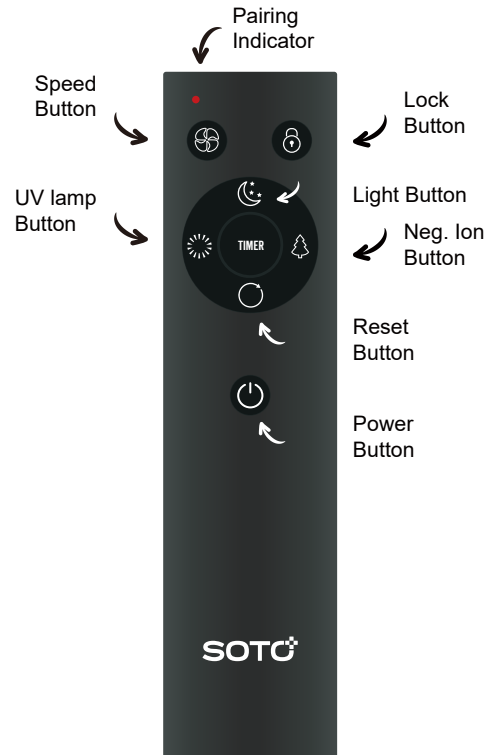
Upon connecting the device to a power source, press and hold the remote's power button until the upper-left indicator flashes red, confirming successful pairing.

### Remote Control Buttons

1. **Timer Button:** Each button press cycles through the following settings in order: 1 hour, 2 hours, 4 hours, C2 mode (which runs for 2 hours, pauses for 30 minutes, and repeats this cycle), and Cancel.
2. **Reset Button:** *After replacing the filters or the UV lamp, press the button three times in succession to reset the service life indicators.*

### Mobile Phone Application Control

To connect the device to the Wi-Fi network: Connect the device to the power supply while keeping it *in standby mode*. Press and hold the power button for about 3 seconds. The device will power on, and the Wi-Fi indicator light will start flashing. For detailed instructions, refer to the **Tuya Application User Manual**.



Remote Control Diagram

## CARE AND MAINTENANCE 1

For optimal air purification and disinfection performance, replace the HEPA filter, activated carbon filter, and UV lamp immediately when their indicator lights flash. Always unplug the power cord before maintenance. Never handle the plug with wet hands to avoid electric shock or injury.

### For Regular Maintenance

For cleaning, use a soft cloth to gently remove stains or dirt. Avoid using volatile solvents, benzene-based substances, paint thinners, or polishing powders, as these may damage the device surface. Keep the device away from water during cleaning to prevent liquid ingress.

### Replacement of the HEPA Filter

When the third circular indicator on the sensor panel flashes, replace the HEPA filter immediately. Follow these steps:

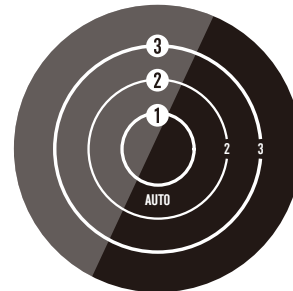
1. Stop device operation and disconnect the power cord.

Place the device upside down on a flat, stable surface covered with a soft cloth to prevent surface scratches.

2. Gently rotate the bottom plate counterclockwise to remove it. Take out the used HEPA filter and insert a new one securely.

3. *Reconnect the power cord and power on the device.*

*Press and hold the power button to reset the HEPA filter service life indicator.*



The sensor panel's circular indicators provide replacement alerts:

1. First indicator flashing: Replace the UV lamp.
2. Second indicator flashing: Replace the activated carbon filter.
3. Third indicator flashing: Replace the HEPA filter.
4. After replacing any component, press and hold the power button on the control display panel to reset the service life indicators.

## CARE AND MAINTENANCE 2

### Replacement of the Activated Carbon Filter

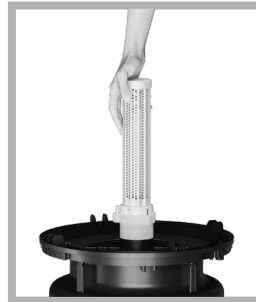
When the second circular indicator on the sensor panel flashes, replace the activated carbon filter immediately. Follow these steps:

1. Turn off the device and disconnect the power cord. Place the device upside down on a flat surface covered with a soft cloth to prevent scratching. Carefully remove the bottom panel.
2. Remove the used activated carbon filter and replace it with a new one.
3. *Reconnect the power cord and power on the device. Press and hold the power button on the control display panel to reset the activated carbon filter service life indicator.*

### Replacement of the UV Lamp

When the first circular indicator light on the sensor panel starts flashing, the UV lamp should be replaced.

1. Turn off the device and disconnect the power cord. Place the device upside down on a flat and stable surface covered with a soft cloth to prevent scratching, then carefully remove the bottom panel.
2. After removing the filters, replace the UV lamp as illustrated in the figures on the right, and ensure that the new lamp is securely installed.
3. *After replacing the UV lamp, reconnect the power cord, power on the device, and press and hold the power button on the control display panel to reset the UV lamp service life indicator.*



1. Remove all filters, then turn the photocatalytic cover counterclockwise to unscrew it.



2. Rotate the spiral fastener counterclockwise to unscrew it, then gently lift the lamp vertically upward to remove it.

## **TROUBLESHOOTING**

Many service issues that seem serious can often be fixed with simple steps. Try troubleshooting using this guide first. For all other repairs, contact an authorized service center.

### **1. The Device Fails to Power On**

- A. Check if the bottom plate is securely closed. If not, re-close it firmly.
- B. Ensure the device is properly connected to the power source.
- C. If the power cord connection looks normal, test nearby appliances to check power stability.
- D. Suspect a power cord issue? Contact an authorized service center for replacement.

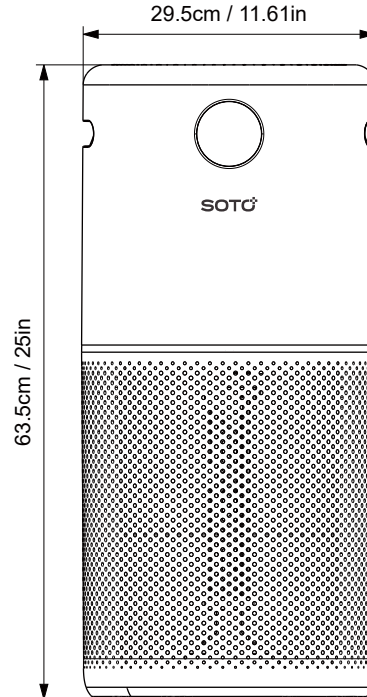
### **2. The Device's Purification and Disinfection Performance is Below Standard**

If the device performance fails to meet the required standards for purification and disinfection, inspect the filter surfaces for excessive dust accumulation and verify whether the filters or UV lamp have been replaced in a timely manner.

If necessary, clean the filter surfaces and replace the filters or UV lamp as appropriate.

## SPECIFICATIONS

Product Name	Air Purifier
Model No.	SOTO-Y8
Power Req	220-240V, 50/60Hz
Rated Power	56W
UV Lamp	10W / UV-C, 254nm
Negative Ion	2x3x10 <sup>6</sup> /cm <sup>3</sup>
Dimensions	Φ29.5cmxH63.5cm
Weight	7.5kg / 16.53lb
Power Cord	2m
Operation	Hand Gesture Control / Button RF Remote Control / App
Display	PM2.5 / TVOC / Speed / Timer WiFi / TEMP / RH / Button Lock Filters & UV Lamp Replacement Notification



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