



# **SMART AIR PURIFIER MODEL SOTO-Y9**

## **Operation Manual**

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

**SOTO**

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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.

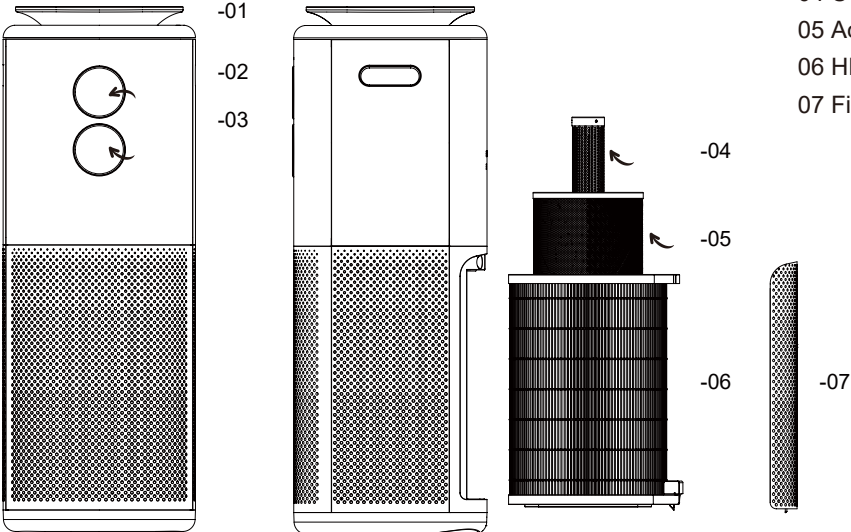
### **Guidelines for the Operating Environment**

1. Use only with a 220–240V power 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 Top Touchless Control Panel
- 02 Fan Motor System
- 03 Display Control Panel
- 04 UV-Photocatalytic System
- 05 Activated Carbon Filter
- 06 HEPA Filter
- 07 Filter Panel

## HOW IT WORKS

The device primarily comprises a fan motor system, a filtration system, and a UV-photocatalytic oxidation (UV-PCO) system. During operation, the fan motor draws indoor air into the unit through the air inlet, where it sequentially passes through the filtration and UV-PCO systems for purification and disinfection. The pre-filter and HEPA filter are designed to capture large particles as well as fine particulate matter with diameters of 0.3 microns and above, while the activated carbon filter effectively adsorbs and removes harmful gaseous pollutants. The UV-PCO system, centrally integrated within the filtration system, helps inactivate airborne microorganisms and decomposes certain airborne chemical compounds. Furthermore, the plasma generator releases plasma into the surrounding air to help enhance overall air purification performance.

### Features

1. High-performance DC Brushless Motor: The system incorporates a high-performance DC brushless motor coupled with a centrifugal fan, achieving low noise operation and superior airflow output.
2. Filtration System: The device's filtration system incorporates a high-efficiency HEPA filter with a separate activated carbon filter. The innovative design featuring separate HEPA and activated carbon filter enables individual replacement. This is more cost-effective and prevents unpleasant odor.
3. UV-PCO System: The UV-Photocatalytic system maximizes air purification and disinfection performance.
4. Plasma Generator: Releases plasma to help inactivate airborne microorganisms.
5. Integrated Multiple Sensors: Equipped with multiple sensors, the device can accurately monitor and display real-time air quality conditions.
6. Supports Multiple Operational Modes: The voice command and hand gesture operation help reduce physical contact and minimize the risk of cross-contamination among users. The device is equipped with a remote control, while the mobile application facilitates intelligent remote management and allows for scheduled operation settings.
7. Dual Control Display Panel: The device is equipped with a dual-control display panel that provides a full range of functions, including real-time monitoring of filter status and UV lamp service life.

## 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% (non-condensing).
3. Device Placement: The device must be placed on a stable and level surface during operation.
4. The device is intended for indoor use only and should be placed on a stable, level surface against a wall in a suitable location. Do not operate the device in environments containing flammable, explosive, or otherwise hazardous gases.

### Before Operation

1. Please verify that the device and all accompanying components are complete and in satisfactory condition upon receipt. In the event of any missing or damaged items, please contact the customer service center without delay.
2. *Before operating the device for the first time, it is essential to remove the plastic packaging from the filter assembly located inside the device.*
  - A. Open the filter panel located at the rear of the device and carefully remove the filter assembly.
  - B. Remove the plastic protective packaging from the filter assembly, reinstall the assembly into its designated position within the device, and securely close and lock the filter panel.

## OPERATION 1 VOICE COMMAND AND HAND GESTURE OPERATION

The device supports both voice commands (currently available in English) and hand gesture control. For detailed instructions on voice command operations, please refer to the **Voice Command Operation Guide**. After connecting the device to the power cord, perform a hand gesture over the top control panel. This gesture will activate the device and enable fan speed adjustment. The fan speed adjustment corresponding to each hand wave is as follows:

Hand waves 1-6 correspond to fan speed levels 1-6. Wave 7 activates Auto mode (adaptive fan speed based on environmental conditions), and wave 8 restarts the cycle from fan speed level 1.

### Auto Mode

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

### Button Lock / Unlock Function

Position your hand over the sensor panel and maintain a steady position to lock the device at the desired speed. To unlock, repeat the same procedure.



### Hand Gesture Operation

To disable hand gesture operation, press and hold the voice command button located on the lower control display panel.

## OPERATION 2 TOUCHSCREEN BUTTON OPERATION

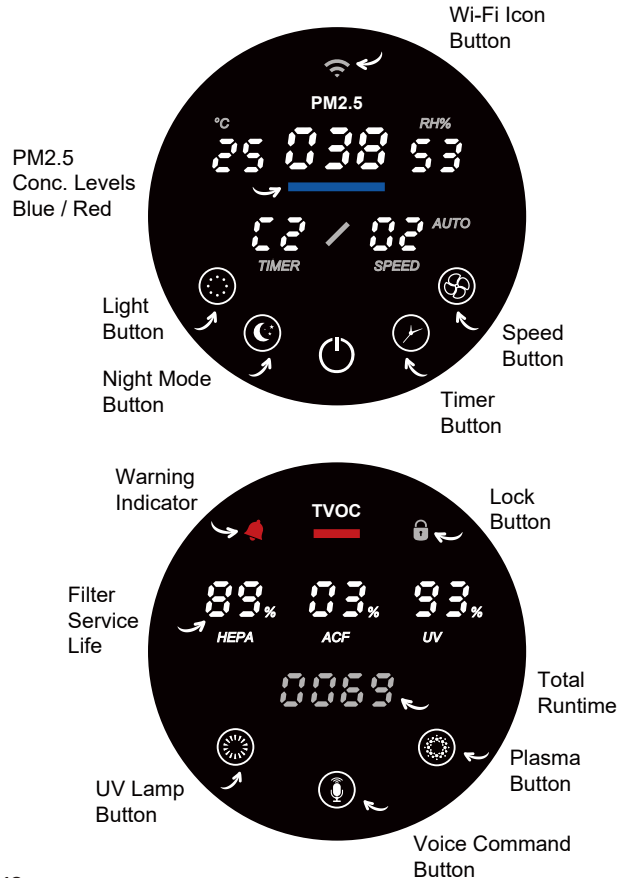
This device has dual control display panels (upper and lower). Press the power button to turn it on or off.

### Upper Control Display Panel

1. Speed Button: Press the button to sequentially cycle through the available fan speed settings: 01-02-03-04-05-06-AUTO-01...
2. Timer Button: Press the button to set the desired operating duration (1–12 hours). First press of the timer button activates C2 mode: 2h run-30m pause-cycle repeats.

### Lower Control Display Panel

1. Filter Service Life: Displays the remaining service life of the filters and UV lamp in real time. When a part's remaining service life drops to 3%, its digital display flashes. *After replacement, press and hold the corresponding bottom text to reset the service life.*
2. UV Lamp Button: Press the UV lamp button to turn it on/off. A flashing button indicates a UV lamp malfunction, requiring immediate inspection.
3. Voice Command Button: Press the button to toggle voice command on/off, press and hold to disable hand gesture operation.



## OPERATION 3 REMOTE CONTROL AND MOBILE APPLICATION

The device is equipped with an infrared remote control. The functions of each button are described as follows.

### Remote Control Buttons

1. Speed Button: Each button press cycles the fan speed sequentially through levels 01, 02, 03, 04, 05, 06 and then back to 01.
2. Timer Button: Press the timer button to set the desired operating duration (1–12 hours). The first press of the timer button activates C2 mode, which operates in a repeating cycle of 2 hours of operation followed by a 30-minute pause.
3. Reset Button: After replacing the filters or the UV lamp, press the button three times consecutively to reset the service life indicator.

### Mobile Phone Application Control

The device supports Wi-Fi connectivity and can be remotely controlled via a mobile application. To connect it to your Wi-Fi network, power on the device and press the Wi-Fi icon button on the upper control panel. The indicator light will start flashing.

For detailed operational instructions, please refer to the **Tuya Application User Manual**.



Remote Control Diagram

## CARE AND MAINTENANCE 1

To ensure optimal air purification performance, replace the HEPA filter, activated carbon filter, and UV lamp when the remaining service life indicator on the lower control display panel reaches 3%. At this point, the digital display indicating the remaining service life will automatically flash to notify the user. Before conducting any maintenance on the device, always disconnect the power supply by unplugging the power cord.

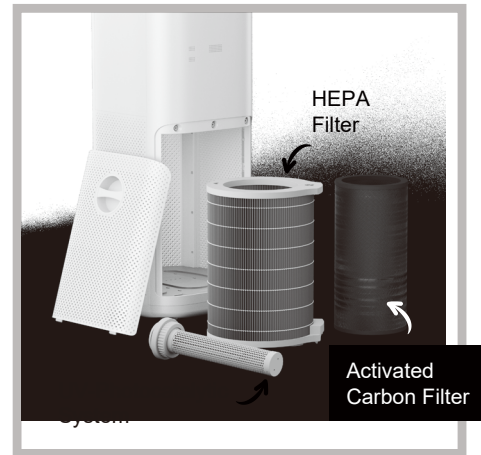
### Regular Maintenance

Gently clean stains with a soft cloth. Avoid volatile solvents, benzene, paint thinners, and polishing powders to prevent surface damage. Keep the device dry and away from water during cleaning.

### Replacement of the HEPA Filter

When the remaining service life of the HEPA filter, as indicated on the control panel, reaches 3%, it should be replaced promptly. The digital display will flash as a reminder.

1. Stop the operation and disconnect the power cord. Open the filter panel located at the rear of the device and carefully slide out the filter assembly.
2. Remove the activated carbon filter and UV-photocatalytic unit from the center of the HEPA filter assembly. Install these components into the new HEPA filter unit. Secure the complete filter assembly and reinstall it into the device.
3. *After replacing the HEPA filter, power on the device and press and hold the text below the digital indicator to reset the filter's service life.*



## CARE AND MAINTENANCE 2

### Replacement of the Activated Carbon Filter

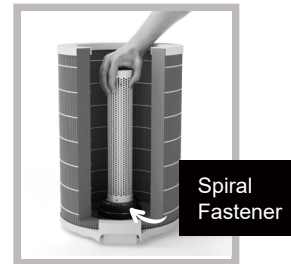
When the remaining service life of the activated carbon filter, as indicated on the lower control panel, decreases to 3%, timely replacement is required. The digital display will flash to provide a visual alert.

1. Turn off the device and disconnect the power cord.
2. Open the rear filter panel and remove the filter assembly. Extract the used activated carbon filter, replace it with a new one, and reinstall the assembly.
3. *After replacing the activated carbon filter, power on the device and press/hold the text below the digital indicator to reset the filter's service life.*

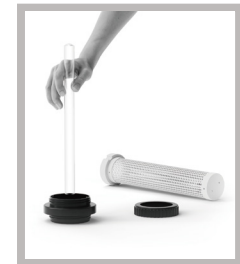
### Replacement of the UV Lamp

When the digital display indicating the remaining service life of the UV lamp on the lower control panel reaches 3%, immediate replacement is required.

1. Stop the device and unplug the power cord. Open the rear filter panel, remove the filter assembly, and extract the activated carbon filter.
2. Rotate the UV-photocatalyst unit counterclockwise to remove it. Next, unscrew the photocatalyst spiral fastener in the same direction. Carefully extract the UV lamp vertically, replace it with a new one, and reinstall the filter assembly after placing the activated carbon filter in position.
3. *After replacing the UV lamp, power on the device and press/hold the "UV" text below the digital indicator to reset the UV lamp's service life.*



1. First, rotate the UV-photocatalyst unit counterclockwise to remove it. Next, unscrew the spiral fastener.



2. Carefully extract the UV lamp vertically, replace it with a new lamp, and reinstall the filter assembly.

## **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**

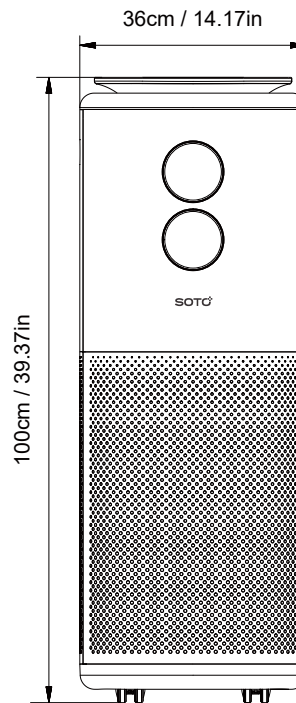
Ensure that the filter panel is securely fastened. If it is not fully closed, close it properly to achieve a secure fit. Verify that the device is firmly connected to the power source. If the power cord appears to be properly connected, inspect nearby electrical devices to evaluate the stability of the power supply. In case of suspected power cord malfunction, contact an authorized service center immediately for replacement.

### **2. The Device is Not Performing Purification and Disinfection Effectively**

If the device performance does not 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	Smart Air Purifier
Model No.	SOTO-Y9
Power Req	220-240V, 50/60Hz
Rated Power	120W
UV Lamp	24W / H-shape, UV-C 254nm
Plasma	$\pm 2 \times 3 \times 10^6 / \text{cm}^3$
Dimensions	36cmx36cmxH100cm
Weight	18.5kg / 40.79lb
Power Cord	2m
Operation	Voice / Hand Gesture Control Button / Remote Control / App
Display	PM2.5 / TVOC / Speed Timer / TEMP / RH / WiFi / Voice Button Lock / Filters & UV Lamp Usage Status / Filters & UV Lamp Replacement Notification



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