



# **AIR PURIFIER MODEL SOTO-G5**

## **Operation Manual**

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

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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.

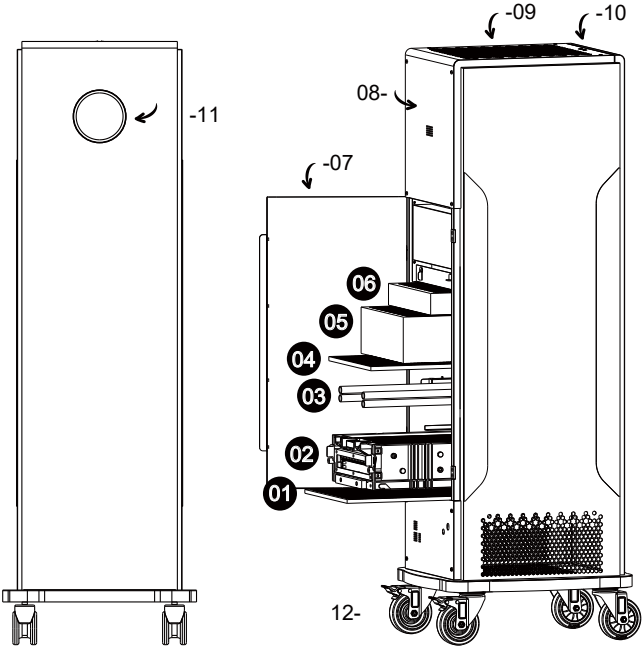
### Guidelines for the Operating Environment

1. Use only a 220-240V outlet equipped with a grounded receptacle.
2. 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%.
3. Do not operate the device 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.

### Guidelines for Operational Safety

1. To ensure safe operation, adhere strictly to the device's operational procedures outlined in this user manual.
2. Do not operate the unit if the power cord or plug is damaged, or if the connection to the wall outlet is loose.
3. When conducting maintenance, ensure the unit is powered off and disconnected from the power supply.
4. Do not clean the device or its components, **especially the electronic cell**, with gasoline, paint thinner, or other flammable substances to prevent fire hazards. When cleaning the electronic cell, wait 10 minutes after powering off to ensure complete discharge of residual static electricity and prevent electric shock hazards.
5. Avoid direct exposure to UV lamps, as germicidal ultraviolet radiation may result in temporary or permanent eye damage, including the risk of blindness.
6. Keep the device's air intake and exhaust vents clear. Do not insert fingers or any foreign objects into these openings.
7. Do not operate the unit without first installing the filters. Remove all plastic packaging from filters before operation. HEPA and activated carbon filters must not be washed or reused.

# STRUCTURE AND MAIN PARTS



Front View

Lateral View

- 01 Pre-Filter
- 02 Two-Stage Electronic Cell
- 03 H-shaped UV Lamps
- 04 Photocatalytic Filter
- 05 HEPA Filter
- 06 Activated Carbon Filter
- 07 Back Panel
- 08 Fan Motor System
- 09 Air Outlet
- 10 Sensing Area
- 11 Control Display Panel
- 12 Caster

## HOW IT WORKS

The device primarily comprises a fan motor system and a multi-stage filtration system, which includes a pre-filter, two-stage electronic cells, a UV photocatalytic oxidation (UV-PCO) system, a HEPA filter, and an activated carbon filter. During operation, the fan motor draws indoor air into the unit through an inlet located at the base, where the air sequentially passes through the filtration assembly and the UV-PCO system for purification and air quality improvement. The pre-filter and electronic cells are designed to capture both large particles and fine particulate matter, while the UV-PCO system effectively inactivates pathogenic microorganisms and decomposes harmful chemical compounds. The HEPA filter removes fine particulate matter with diameters of 0.3 microns and above, and the activated carbon filter adsorbs and eliminates gaseous pollutants. Additionally, the plasma generator releases plasma into the surrounding air to help reduce airborne microorganisms and enhance overall air treatment performance.

### Features

1. DC Brushless Motor: Achieves low noise levels while delivering high airflow output performance.
2. Multi-Stage Filtration System: The multi-stage filtration system enables comprehensive air purification through sequential processing stages. The reusable electronic cell can be cleaned with water and effectively captures fine particulate matter, thereby extending the service life of the downstream HEPA filter.
3. UV-PCO System: The UV-Photo system maximizes air purification and disinfection performance.
4. Plasma Generator: Releases plasma to help inactivate airborne microorganisms.
5. Multiple Sensors: The device is equipped with multiple sensors, enabling accurate monitoring and real-time display of air quality conditions.
6. Supports Multiple Operational Modes: The touchless voice command and hand gesture operation functionalities help reduce the risk of cross-contact among users. The device is equipped with a remote control, while the mobile application enables intelligent remote management and supports scheduled operational settings.

## INSTALLATION

### Operational Environment

1. Power Supply Condition: Use only a 220-240V 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.
4. The device must be installed indoors in areas with minimal personnel activity and should be positioned against a wall. Operation in flammable, explosive, or any other hazardous gas environments is strictly prohibited.

### Before Operation

1. Upon receipt, please 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 operating the device for the first time, **Remove the Plastic Packaging** from both the HEPA and activated carbon filters inside the unit. The operational procedures are detailed below.*
  - A. Open the back panel and the filter panel located at the rear of the device. Remove the HEPA filter first, followed by the activated carbon filter. Before installation, carefully peel off the external plastic protective covering from both filters. (*Note: Avoid touching the filter surfaces with bare hands to prevent contamination.*)
  - B. Insert the HEPA filter into the designated slot, ensuring it is fully seated. Then, place the activated carbon filter on top of the HEPA filter, aligning the arrow markings with the airflow direction indicator. Finally, close the filter panel and back panel securely.

## OPERATION 1 VOICE COMMAND AND HAND GESTURE OPERATION

The device supports dual touchless operation modes:

1. Voice Commands (English only) - For detailed instructions, please refer to the **Voice Command Operation Guide**.
2. Hand gesture control - After connecting the power cord, perform gestures over the sensing area located on the upper front section of the device to initiate power control and adjust fan speed.

The fan speed adjustment response to hand gestures is as follows:  
Waves 1-6: Correspond to fan speed levels 1-6 (incremental increase).  
Wave 7 Activates Auto mode (adaptive fan speed based on environmental conditions).

Wave 8: Resets the cycle to fan speed level 1.

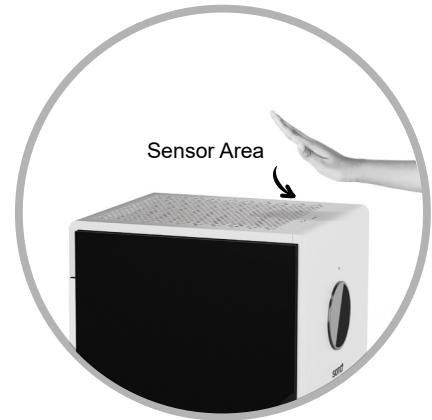
*Note: To disable the voice command control, press and hold the UV lamp button on the control display panel.*

### 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

1. To Lock: Hover your hand over the sensing area and hold it in a stationary position to lock the device at the current fan speed.
2. To Unlock: Repeat the hovering procedure to reactivate manual control.



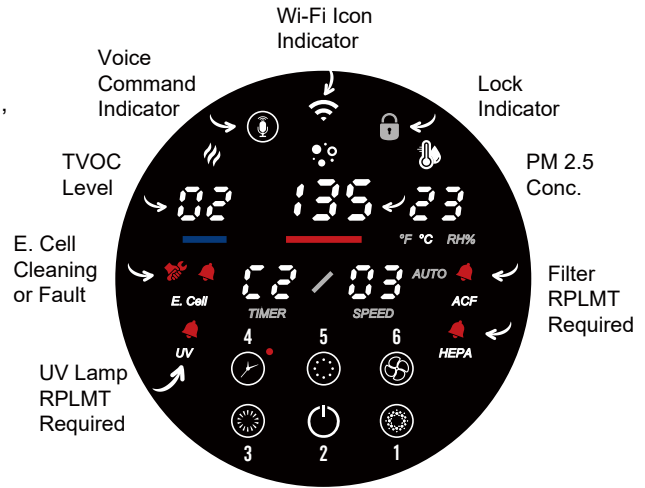
### Hand Gesture Operation

To disable hand gesture operation, press and hold the power button on the control display panel during device startup.

## OPERATION 2 CONTROL DISPLAY PANEL

When the device remains inactive for one minute, the power button and digital display will remain illuminated, while all other indicator lights will turn off, entering screensaver mode.

1. Power Button: Press the power button to turn the unit on or off. *To disable hand gesture operation, press and hold the power button on the control display panel during device startup.*
  2. Speed Button: Press the button to sequentially cycle through the available fan speed settings: 01-02-03-04-05-06, followed by AUTO mode.
  3. Timer Button: To set the operating duration, press the timer button once to activate C2 mode, which operates for 2 hours, followed by a 30-minute pause, and then automatically repeats the cycle. Press the button repeatedly to select a duration from 1–12 hours (each press increments by 1 hour).
  4. UV Lamp Button: Press the button to activate or deactivate the UV lamp. *A flashing UV lamp button indicates a malfunction. Please inspect and resolve the issue immediately.*
- Note: Press and hold the plasma button to switch between °C (Celsius) and °F (Fahrenheit) temperature units.*



Control Display Panel Diagram

- 1- Plasma Button
- 2- Power Button
- 3- UV Lamp Button
- 4- Timer Button
- 5- Light Button
- 6- Speed Button

- A red dot appears in the upper right corner of the timer button when a schedule is set via the mobile app.

### Indoor Air Quality Level Display

Color bars indicate air quality levels: blue represents good air quality, while red indicates unhealthy or hazardous conditions.

## OPERATION 3 REMOTE CONTROL AND MOBILE APPLICATION

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

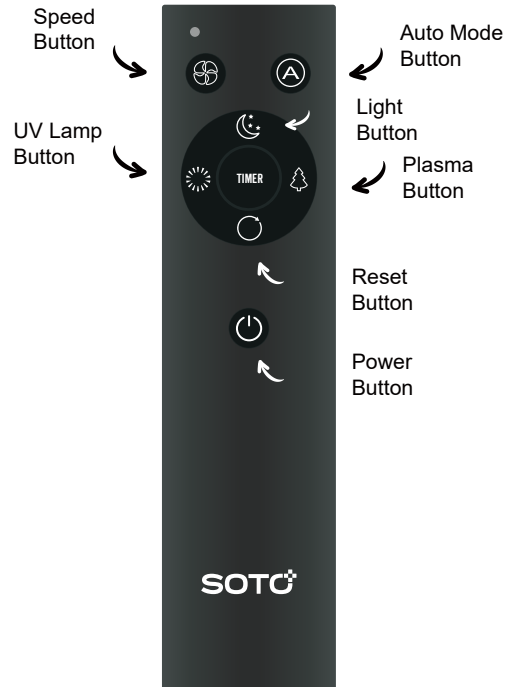
### Remote Control Buttons

1. **Timer Button:** Press the timer button to set the desired operating duration (1–12 hours). The first press activates C2 mode, which operates in a recurring cycle of 2 hours of operation followed by a 30-minute pause. Subsequent presses increment the selected duration by 1 hour, allowing selection within the 1–12 hour range.
2. **Reset Button:** *After replacing the filters or the UV lamp, press the button three times in succession to reset the service life indicator.*

### Mobile Phone Application Control

The device is equipped with Wi-Fi connectivity and can be remotely controlled through a dedicated mobile application. To establish a connection to your Wi-Fi network, power on the device and press the Wi-Fi icon button located on the control display panel. The indicator light will subsequently begin to flash.

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



Remote Control Diagram

## CARE AND MAINTENANCE 1

To ensure optimal air purification performance, regularly clean the pre-filter and electronic cell. The HEPA filter, activated carbon filter, and UV lamp should be replaced promptly when the corresponding indicator lights illuminate on the control display panel. Before performing any maintenance procedures, always disconnect the power supply by unplugging the device.

### Regular Maintenance

Depending on the operating environment, when a significant accumulation of dust occurs on the surface of the pre-filter, regular cleaning and maintenance should be performed. For the removal of light stains or dirt from the device, use a soft cloth. Avoid the use of volatile solvents, benzene-containing substances, paint thinners, and polishing powders, as these may damage the surface of the device. Ensure the device is kept away from water during cleaning to prevent liquid ingress.

### Cleaning of the Electronic Cell

When the E.CELL indicator light on the control display panel flashes, the electronic cell requires cleaning.

1. Stop the operation and disconnect the unit from the power supply. Open the rear back panel and filter panel. Firmly grasp the handle of the electronic cell and gently pull it outwards.
2. Clean the surface of the dust collection plates in the electronic cell using a soft, slightly damp cloth, or alternatively, use a spray water gun for cleaning. Subsequently, dry the components thoroughly with a heat gun, ensuring complete dryness prior to reinstallation.
3. *After reinstalling the electronic cell, reconnect the power cord and press and hold the E. CELL indicator button on the control panel until the cleaning duration is reset.*



### Electronic Cell Cleaning

The dust collector of the electronic cell is designed for easy removal during cleaning.

## CARE AND MAINTENANCE 2

### Replacement of the Activated Carbon and HEPA Filter

When the ACF or HEPA indicator light on the control display panel flashes, the corresponding filter should be replaced promptly.

1. Turn off the device and disconnect the power cord. Open the rear back panel and filter panel, then carefully remove the used filter and replace it with a new one.
2. Close the two panels securely after replacement of filter.
3. *After replacing the filter, reconnect the power cord, turn on the device, and press and hold the filter reset button on the control panel to reset the filter's service life.*

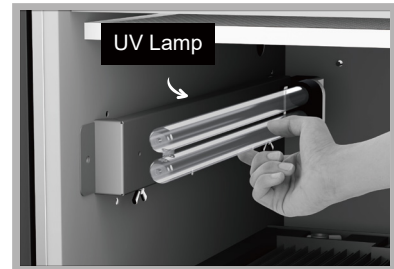
### Replacement of the UV Lamp

When the UV replacement indicator light on the control display is flashing, the UV lamp should be replaced.

1. Stop operation and disconnect the unit from the power source. Open the back and filter panels located at the rear of the device, gently grasp the UV lamp, and carefully pull it forward to remove it from the lamp holder.
2. Close the two panels after replacing the UV lamp and ensure it is securely fastened.
3. *Reconnect the power cord, turn on the device, and press and hold the designated UV indicator button on the control panel to reset the lamp's service life.*



Replacement of Activated Carbon and HEPA Filter



Replacement of UV Lamp

Carefully grasp the UV lamp and gently pull it forward to disengage it from the lamp holder.

## **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**

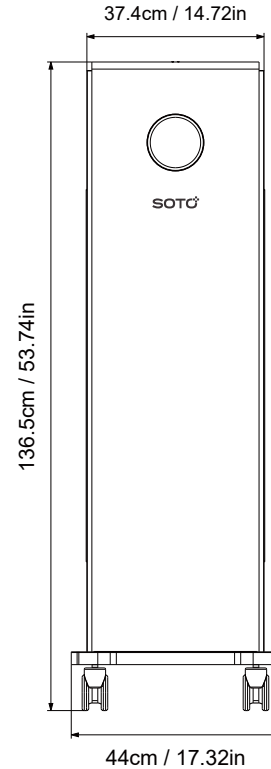
- A. Ensure that the rear back panel is securely closed; if not, close it firmly.
- B. Verify that the device is properly connected to the power supply.
- C. If the power cord appears to be correctly connected, test other nearby electrical devices to assess power stability.
- D. If the fuse is blown, replace it with a new fuse of the same specification.
- E. If a fault in the power cord is suspected, contact an authorized service center for a replacement.

### **2. The Device's Purification Performance is Below the Required Standards.**

If performance does not meet specifications, inspect the pre-filter and electronic cell surfaces for excessive dust accumulation. Verify that the HEPA filter, activated carbon filter, and UV lamp have been replaced as required. If necessary, clean the pre-filter and electronic cell, and replace the HEPA filter, carbon filter, or UV lamp as appropriate.

## SPECIFICATIONS

Product Name	Air Purifier
Model No.	SOTO-G5
Power Req	220-240V, 50/60Hz
Rated Power	208W
UV Lamp	2x24W / H-shape, UV-C 254nm
Negative Ion	3x10 <sup>6</sup> /cm <sup>3</sup>
Dimensions	48cmx48cmxH136.5cm
Weight	53kg / 116.84lb
Power Cord	2.5m
Operation	Hand Gesture Control / Button Remote Control / App
Display	PM2.5 / TVOC / Speed / Timer WiFi / TEMP / RH / Button Lock Filters & UV Lamp Replacement Notification



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