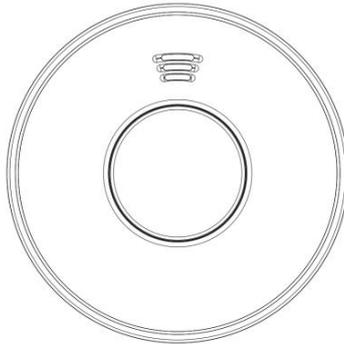# Photoelectric Smoke Alarm User Manual
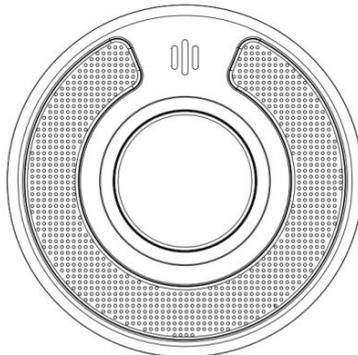
Rev. 01

Model: VS01 / VS01F /VS01W

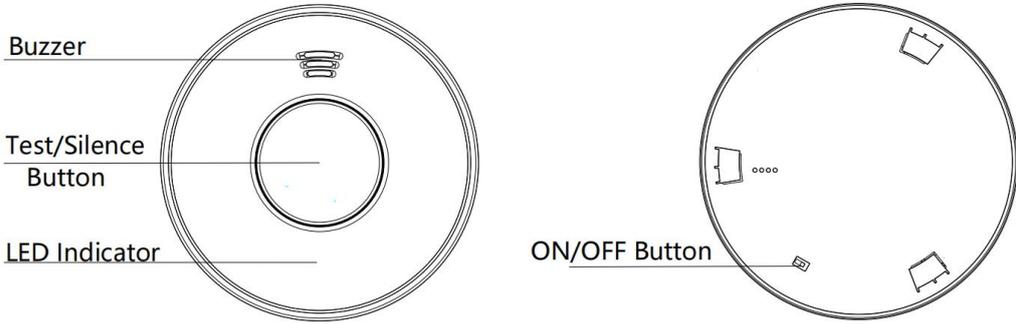**Model: VS02 / VS02F / VS02W**

Model: VS03 / VS03F / VS03W

Thank you for purchasing our Smoke Alarm. This device is designed to detect smoke, and this it does NOT detect flames, heat, carbon monoxide or other hazardous gases. Please read this manual carefully to ensure proper use and store it in a safe place for future reference.

Model Chart

Model	Product Type
VS01	Standalone Smoke Alarm
VS02	
VS03	
VS01F	Wireless Interlinked Smoke Alarm
VS02F	
VS03F	
VS01W	Wi-Fi Smoke Alarm
VS02W	
VS03W	

Product Profile

Buzzer

Test/Silence Button

LED Indicator

ON/OFF Button

Packing List

1 × Alarm Unit
1 × Mounting Bracket
2 × Screws
2 × Anchor Plugs
1 × User Manual

Product Specifications

Power Supply	10-year sealed 3V lithium battery (non-replaceable)
Product Life	10 years
Sensor Type	Photoelectric
Battery Life	10 years
Coverage Area	215-430 sq. ft (20-40 ㎡)
Operating Temperature	32-104℉ (0-40°C)

Operating Relative Humidity	≤ 90% (non-condensing)
Alarm Volume	>85 dB(A) at 10 ft (3 m)
Silence Time	About 9 minutes
Standard	EN 14604:2005/AC:2008

Following specifications only apply to the Wireless Interlinked Smoke Alarm: VS01F / VS02F / VH03F

Wireless Frequency	433MHz
Transmission Range	Over 328 ft (100 m) in open air
Max. Number of Interconnected Units	30 wireless units

Following specifications only apply to the Wi-Fi Smoke Alarm: VS01W / VS02W / VS03W

Wireless Frequency	2.4GHz
Wireless Protocol	IEEE 802.11b/g/n
Phone App	TuyaSmart / Smart Life APP(Android and iOS supported)

NOTES
1. **Battery life is calculated based on current ratings in standby mode with weekly testing. If the device enters an alarming condition, its battery life will decrease accordingly.**
2. **Not recommended for operation below 0ºC (32℉) or above 40ºC (104℉) or in humidity greater than 90%, as this may reduce the battery life.**
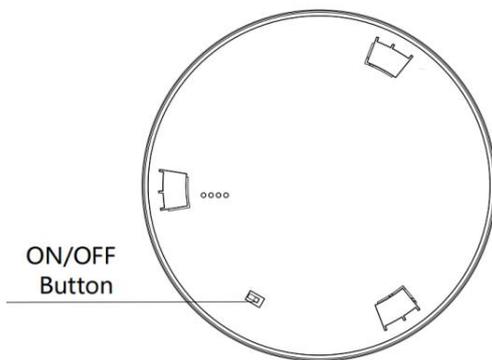3. **Battery not replaceable, replace the device within 10 years of installation date.**

⚠ **WARNING:**

1. NEVER IGNORE ANY ALARM. FAILURE TO RESPOND CAN RESULT IN SERIOUS INJURY OR DEATH.

2. THIS PRODUCT IS INTENDED FOR USE IN ORDINARY INDOOR RESIDENTIAL AREAS.

3. THIS APPARATUS IS TO BE INSTALLED BY A COMPETENT PERSON.
4. IT IS NOT TESTED FOR USE IN A CARAVAN OR BOAT.

How to Turn ON & OFF the Device

The device is turned off by default before leaving the factory, Before the device can be used normally, the product must be activated.
● Switch the ON/OFF button to the ON position to turn on the device.
● Switch the ON/OFF button to the OFF position to turn off the device.

ON/OFF
Button

Alarm Testing

Test the unit to ensure proper operation by pressing the Test/Silence button; the alarm will sound if the unit are working well. If no sound is heard, you can refer to "Trouble shooting" section for solution.

⚠ **WARNING:**
1. DO NOT test your alarm using an open flame. This may damage the alarm or ignite combustible materials and start a structural fire.
2. DO NOT stand close to the alarm when the alarm is sounding. Exposure at close range may be harmful to your hearing, so step away when testing.
3. Weekly Test: test this alarm once a week.

Silence Mode

During an alarm, you can push the Test/Silence button to activate Silence Mode, pausing the alarm for approximately 9 minutes. This feature should only be used when a known alarm condition, such as smoke from cooking that activates the alarm. The alarm device will automatically reset after approximately 9 minutes. If particles of combustion are still present after this period, the alarm will sound again.

⚠ **WARNING**:
Before using the Silence Mode, identify the source of the smoke and ensure that a safe condition exists.

Indicator and Audible Alarm

Status	LED indicator	Audible alarm
Standby Mode	Flashes green once every 5 minutes.	None
Test Mode	2 sets of 3 red flashes.	2 sets of 3 long beeps
Alarm Mode	Flashes red 3 times every 4 seconds.	3 long beeps every 4 seconds
Silence Mode	Flashes red once every 5 seconds.	None
Low Battery	Flashes red once every 60 seconds.	1 beep every 60 seconds
Malfunction	Flashes red once every 40 seconds.	2 beeps every 40 seconds

Set Up and Interconnect Wireless Alarms

Note: This part of the operation is applicable only to Wireless Interlinked Smoke Alarm: VS01F, VS02F, VS03F

Wireless interlinked alarms are interlinked through radio-frequency signals. When one unit is triggered, all interconnected units will sound an alarm.
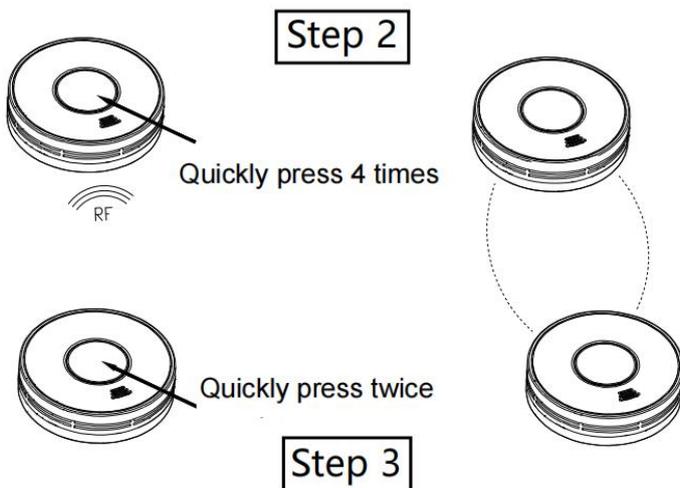
The wireless interlinked alarms in one multi-pack have already been interconnected, and the alarms in each multi-pack have their own independent interlinked network. If you have more than one multi-pack, you will need to connect them all to the same network. Choose one multi-pack as your base network and connect the other multi-packs (The alarms in this multi-pack must be disconnected one by one) to it.

How to create the interlinked network

Step 1: Make sure you only work with 2 units at a time, and make sure that they are both turned on to ensure successful connection.
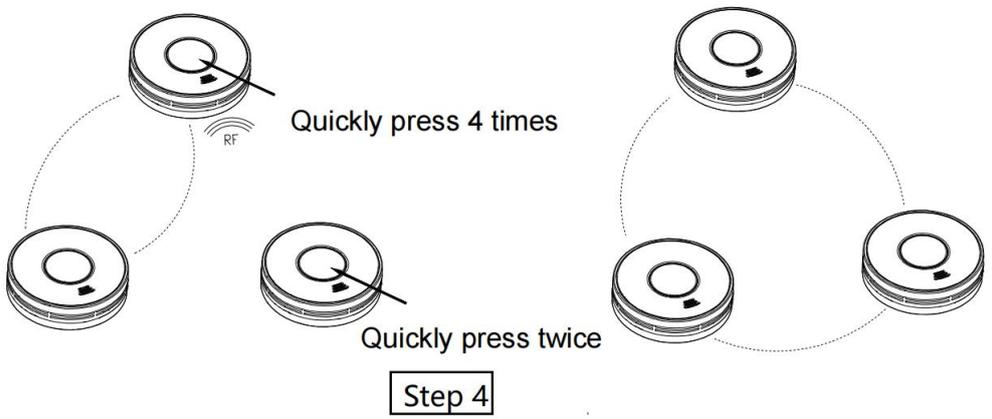Step 2: Press the test/silence button on one of these alarms 4 times, and the green LED will slowly flash continuously, indicating it has entered the transmitting mode (valid time: 60 seconds).
Step 3: Press the test/silence button on the other alarm twice, and the green LED will rapidly flash continuously, indicating it has entered the receiving mode.

Step 2

Quickly press 4 times

RF

Quickly press twice

Step 3

- **If pairing is successful**: The green LED of both alarms will stop flashing.

- **If pairing fails**: The green light will continue to flash for 60 seconds, and then the red light will stay on for 2 seconds.

Step 4: If you want to connect more units, select any previously interconnected unit and repeat Step 2. Then, follow Step 3 with the new device.

Quickly press 4 times

RF

Quickly press twice

Step 4

How to disable the interconnect function

Quickly press the test/silence button 2 times. The green LED will rapidly flash for a few second and the alarm will automatically disconnect. After disconnecting, the alarm can be reconnected to the same network or added to a new network.

How to silence the alarms in network when alarm

- When the alarm is triggered, the device will enter the Source/Master smoke alarm sound pattern and emit the alarm signal.
- Upon receiving the alarm signal, other alarm devices will enter the secondary alarm sound pattern until the Source/Master alarm device stops alarming.
- You can silence all interconnected units by pressing the test/silence button on one of the smoke alarms. If one unit is still alarming, **it is the initiating smoke alarm (the unit that detected the smoke**). To silence all connected units, you must also press the test/silence button on the initiating smoke alarm.

Status	LED indicator	Audible alarm
Source/Master smoke alarm sound pattern	Red LED flashes 3 times every 4 seconds.	3 long beeps every 4 seconds
Secondary alarm sound pattern	Red LED and Green LED flash alternately.	Short quick beeps

Set Up and Connect Alarms to Wi-Fi

Note: This part of the operation is applicable only to Wi-Fi Smoke Alarm: VS01W, VS02W, VS03W

Before connecting alarms, make sure that:

1. Download the TuyaSmart/Smart Life app and connect the alarm to your Wi-Fi via the app. Search for TuyaSmart/Smart Life in the App Store or Google Play, or simply scan the included QR code to install the TuyaSmart/Smart Life app. You will also need to register an account.

TuyaSmart App   Smart Life App

2. Know your Wi-Fi network name and password.
3. Make sure you are connecting alarms to a 2.4GHz Wi-Fi network. (incompatible with 5GHz Wi-Fi network).
4. Make sure the Bluetooth on your phone is turned on.
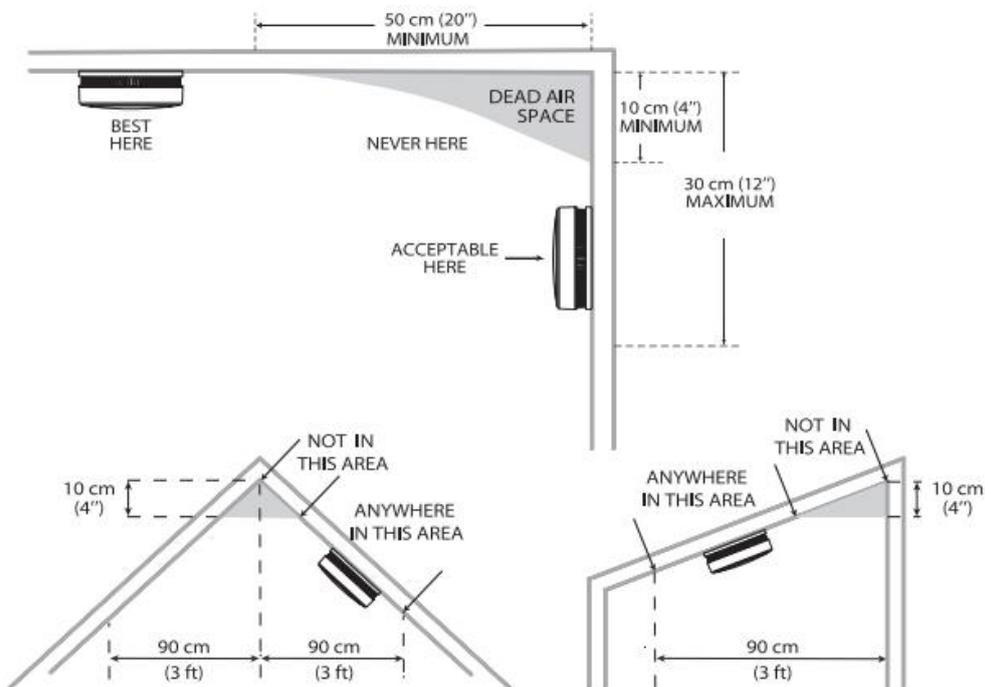
How to connect

1. Activate the alarm;
2. Press the Test/Silence button four times until the green light blinking;
3. Open the TuyaSmart/Smart Life app, tap the "+" icon in the top right corner of the "Home" page, or directly tap "Add Device" to add the device;
4. Choose the "Auto Scan" to find the device, you can see "devices to be added" then follow the app guide to connect it.
5. Once you have successfully connected your device to the app, you can continue to the "Settings" section to set up push notifications and change various settings for the app and device.

NOTES:

1. Unsuccessful connection may be because your router, mobile phone, and alarm are not as close to each other as possible, you have incorrectly entered your Wi-Fi password, or the Bluetooth on your phone is not turned on.
2. If your home Wi-Fi router is a 2.4 and 5 GHz dual-band that works with a single SSID name, please refer to your Wi-Fi router manual to create separate SSIDs for the 2.4 and 5 GHz channels. You can also select "Common router setting method" on the TuyaSmart/Smart Life App in the network configuration process to learn about the corresponding setting method.

Installation Instructions

Installation Positioning

1. Prioritize the installation of a smoke alarm in the bedroom and walkways to ensure you can hear the alarm from all sleeping areas. In homes with several bedrooms, install an alarm in every bedroom. If only one smoke alarm is installed, place it near all bedrooms, avoiding placement in basements or furnace rooms.
2. Install an alarm above stairways and on every floor of the house.
3. Smoke, heat, and other pollutants tend to spread horizontally after rising to the ceiling. Therefore, install the alarm in the center of the ceiling if possible. Ensure the alarm covers all corners of the room.
4. If installing the alarm in the center of the ceiling is not feasible, place it approximately 50cm (20 inches) away from the corners of the room.
5. When installing the alarm on a wall, position it 10-30cm (4-12 inches) below the ceiling.
6. For rooms or halls longer than 900cm (30 feet), install multiple alarms.
7. For angled walls or ceilings, install the alarm within 90cm (3 feet) of the highest point (measured horizontally) in the room.

Recommended Placement

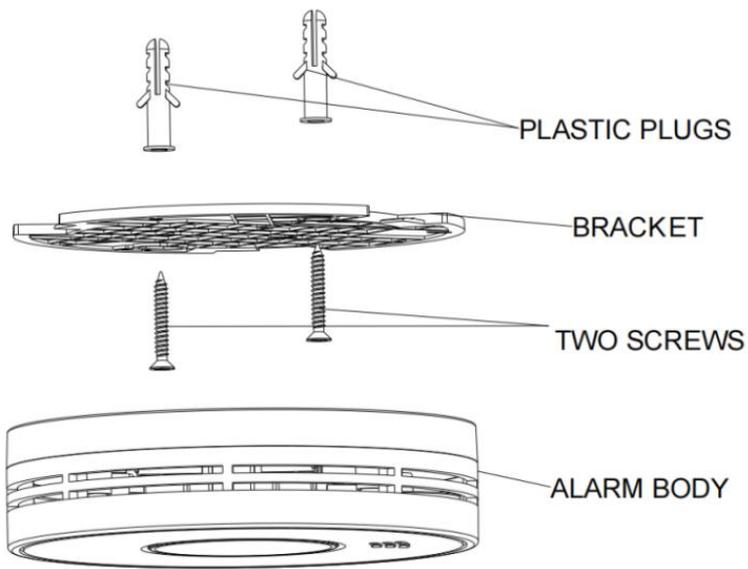|	
(sss) Smoke Alarms	(sss CO) Smoke & Carbon Monoxide Alarms
(CO) Carbon Monoxide Alarms	(🗍) Fire Extinguishers
(🌡sss) Heat Alarms	

Locations to Avoid

1. High-humidity areas such as kitchens and bathrooms.
2. Next to air outlets, fans and central heating systems.
3. Dusty, dirty areas or areas prone to insects.
4. High-temperature and easily polluted environment.
5. Areas with limited access, hindering test function operation.
6. Within1.5meters (5 feet) of lamps.
7. Next to doors or windows.
8. At the top of rooms with sloping roofs, in corners, or other dead-air spaces.

Installation Method

1. Twist off the mounting bracket from the alarm unit.
2. Position the bracket at the installation location and mark the screw holes on the ceiling or wall.
3. Use an electric drill to create two mounting holes at the marked positions.
   Insert two plastic anchor plugs into the holes using a hammer.
4. Securely screw the mounting bracket to the ceiling or wall.
5. Attach the alarm unit to the mounting bracket and rotate clockwise to lock it in place.

PLASTIC PLUGS

BRACKET

TWO SCREWS

ALARM BODY

Maintenance

To keep the alarm working properly, follow these simple steps:
1. Test the alarm once a week.
2. Do not paint the alarm, as paint can seal the vents and interfere with the sensor's ability to detect smoke.
3. Never attempt to disassemble the alarm to clean inside, as this may damage the alarm.

Clean the alarm at least once a month to remove dust, dirt, or debris. Use a vacuum cleaner with the soft brush, vacuum all sides and covers of the alarm device. If there is a defective battery or other failures, refer to "Trouble shooting" section for solutions. If issues persist during the warranty period, you can return the alarm to your retailer.

Trouble Shooting

PROBLEM	SOLUTION
Your alarm does not sound during testing.	• Check whether the ON/OFF button to the ON position. • Make sure you push the test/silence button firmly. • Check the installation positioning. The wireless signal might be blocked or out of range (Only for wireless models: VS01F, VS02F, VS03F).

False alarms triggered intermittently or when residents are cooking, taking showers, etc.	- Check the location of your smoke alarm (see "Installation Positioning"). - Clean the smoke alarm (see "Maintenance").
Red LED flashes and the alarm sounds one beep every 60 seconds.	The battery is low. Replace the device immediately, as the battery is sealed inside the device and can't be replaced.
Red LED flashes and the alarm sounds two beeps every 40 seconds.	The alarm is malfunctioning. Please clean your alarm and see if it is working normally. If not, replace the device immediately.
Device failed to connect to the network.	Make sure the Bluetooth on your phone is turned on when you connect the device to the network. Read the operating instructions in this manual carefully (Only for Wi-Fi models: VS01W, VS02W, VS03W).

Fire Procedure

If you hear the heat or smoke alarm sounding without having pressed the test button, it signals a dangerous situation requiring immediate action. To prepare for such emergencies, follow these fire safety guidelines:
- Create a floor plan of your home to identify all possible escape routes in the event of a fire. Determine whether windows on the ground floor can be used for escape and consider options for external rescue from upper floors if escape routes are blocked by fire or smoke.
- Familiarize everyone in your household with the sounds of the heat and smoke alarms and explain their meanings. Teach them how to check if doors are hot before opening them, how to stay close to the floor to avoid dangerous smoke, fumes, and gases, and how to use alternative exits if a door is hot. Instruct them not to open doors if they feel hot to the touch.
- Establish a designated meeting place a safe distance from your home and ensure that all household members understand they should gather there in the event of a fire. Educate children about the importance of being prepared to leave the house by themselves if necessary.
- Conduct fire drills every six months to ensure that everyone, including small children, knows how to escape safely.
- Know where to locate and how to use fire extinguishers and provide training to your family on their proper use in case of emergency."
- Provide emergency equipment, such as fire extinguishers, and teach your family how and when to use this equipment.

Environmental Protection

Please refrain from disposing of waste electrical products with household waste. Instead, recycle them where facilities exist. For recycling advice, consult your local authority or retailer.