



# Instruction Manual

## WiFi Smart Water Leak Detection and Protection System



U.S. Solid Smart Motorized Ball Valve is a cutting-edge motorized ball valve with integrated smart control capabilities. This intelligent valve can be easily operated via mobile devices by connecting to Wi-Fi through a dedicated app, offering a revolutionary upgrade in automation and ease of use compared to conventional motorized ball valves.

- **Manual Override:** Alongside smart control, the valve includes a manual switch for direct operation.
- **Smart Integration:** Compatible with Google Home and Amazon Alexa, enabling control via app commands or voice through Bluetooth speakers.
- **Power Failure Safety:** Automatically shuts within 2 seconds during a power outage, providing reliable protection.

### Specifications

Material: 304SS / Brass, UPVC

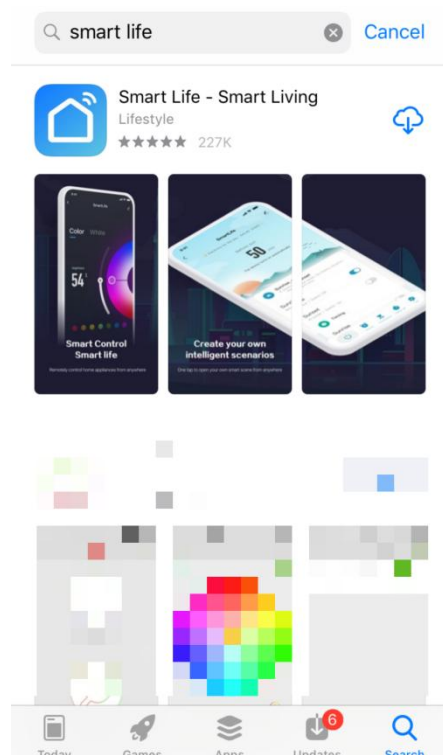
Max Pressure: 1.0 Mpa

Wiring Type: USB / Plug

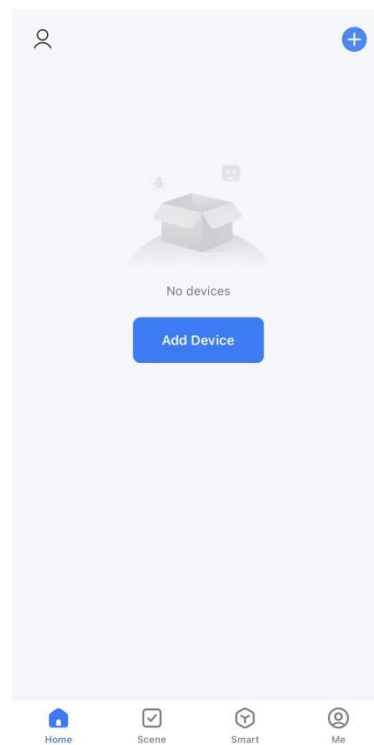
Input Voltage: 5V DC / 110(220)V AC

Ambient Temperature Range: -20°C-45°C

### Connection and Operation



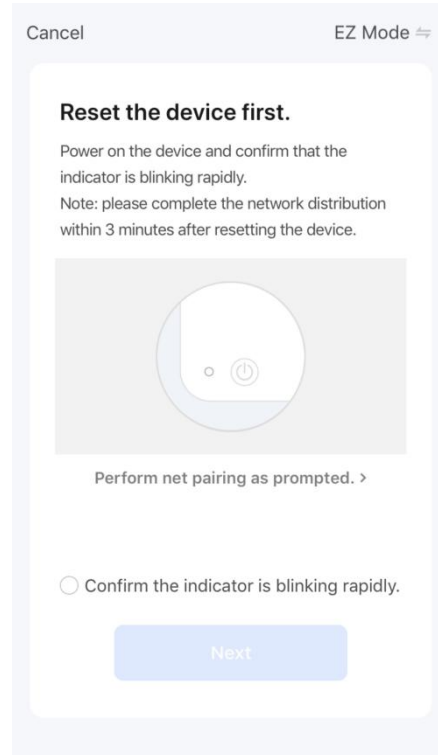
1. Download the “Smart Life” application from the Apple Store or Google Play. Sign up and log in.



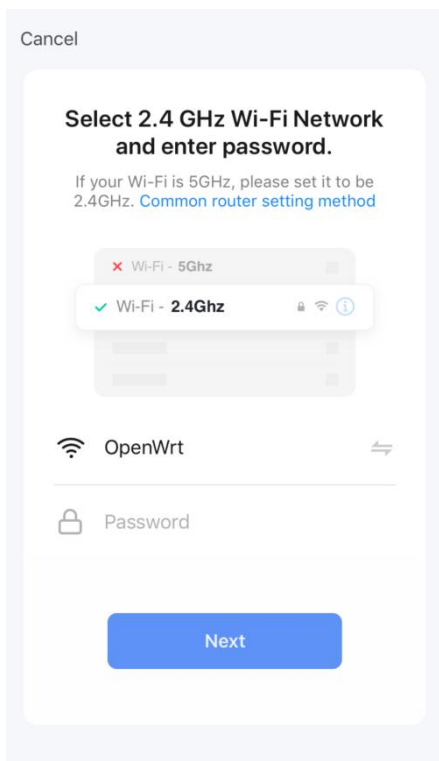
2. After connecting the U.S. Solid Smart Valve to the power, tap “Add Device” or the “+” at the upper-right corner.



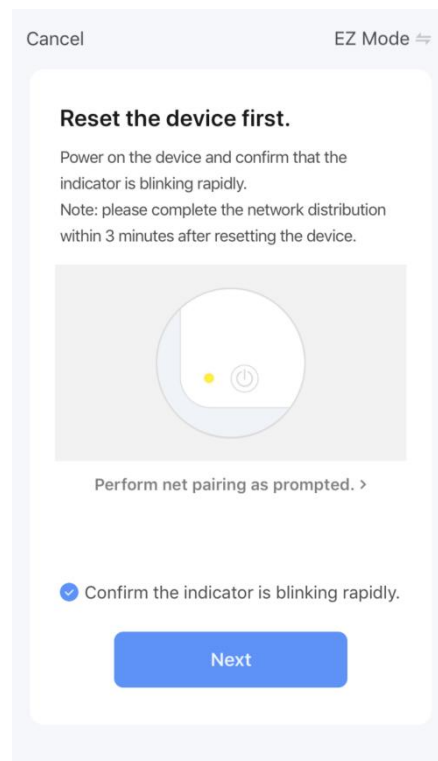
3. Swipe to the bottom and tap “Others”, then tap “Connector (Wi-Fi)”.



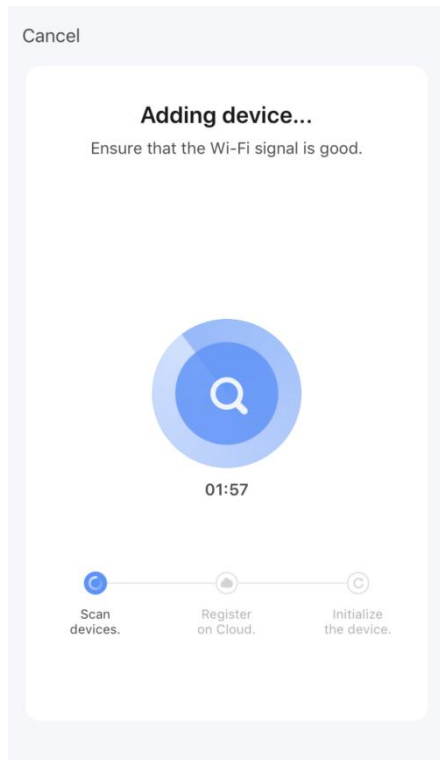
5. Connect your U.S. Solid Smart Motorized Ball Valve to the power.



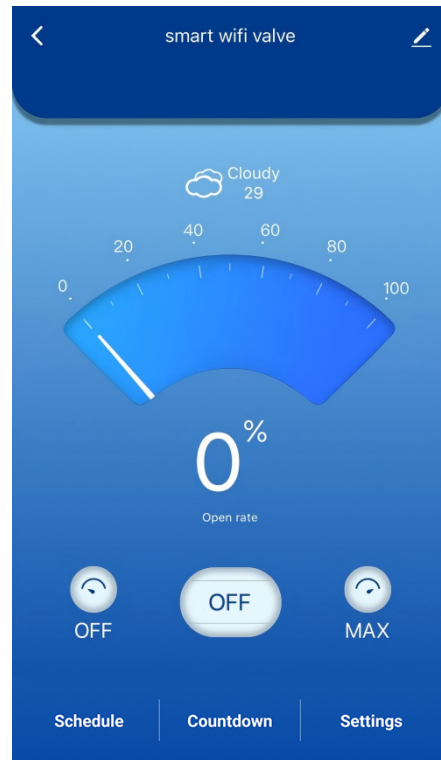
4. Select the Wi-Fi you want to connect to, fill in the password and tap “Next”.



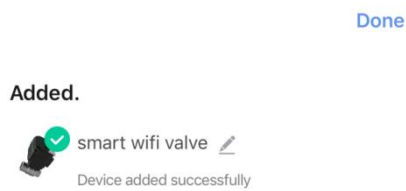
6. Tap “Confirm the indicator is blinking rapidly” and then tap “Next”.



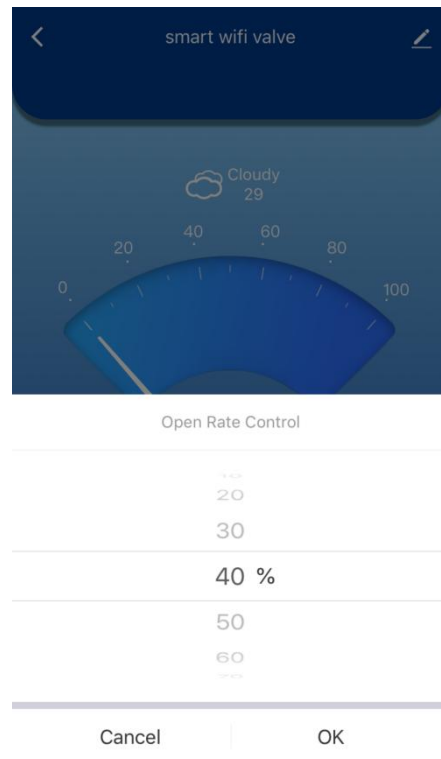
7. The network distribution will be performed automatically.



9. Then operation interface has been entered.



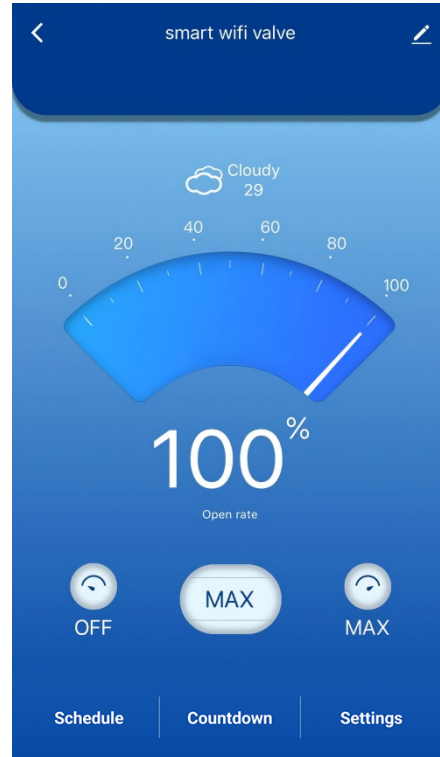
8. After the valve has been added, tap "Done" at the upper-right corner.



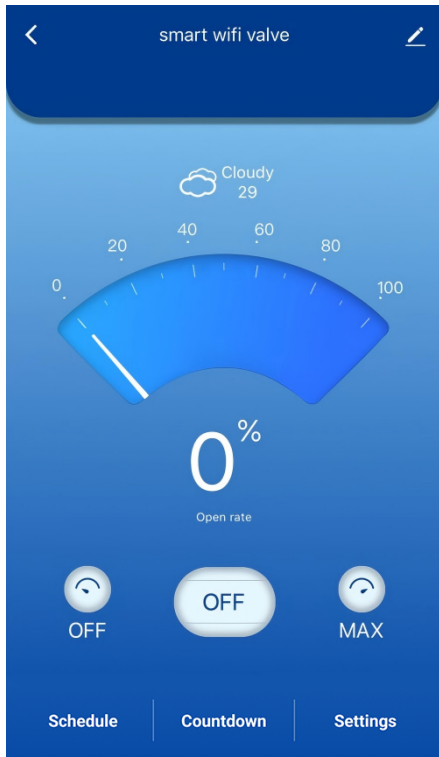
10. Tap "OFF" in the center and swipe to select the open rate, then tap "OK".



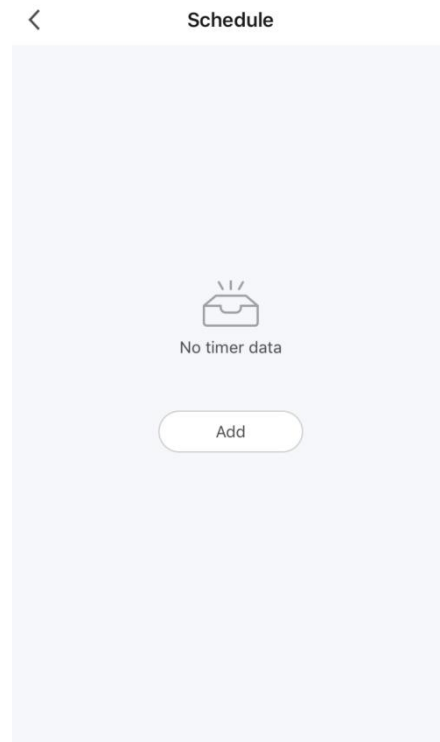
11. The valve will open to the open rate selected.



13. Tap "MAX" on the right side. The valve will open completely.



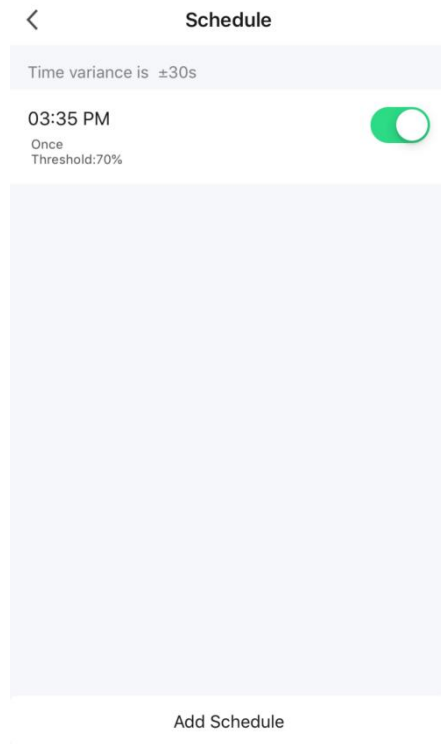
12. Tap "OFF" on the left side. The valve will close completely.



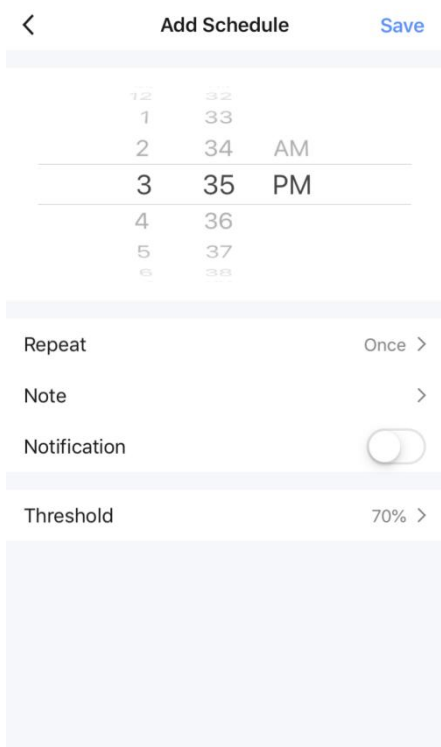
14. Tap "Schedule" to set the scheduled automatic switch. Tap "Add".



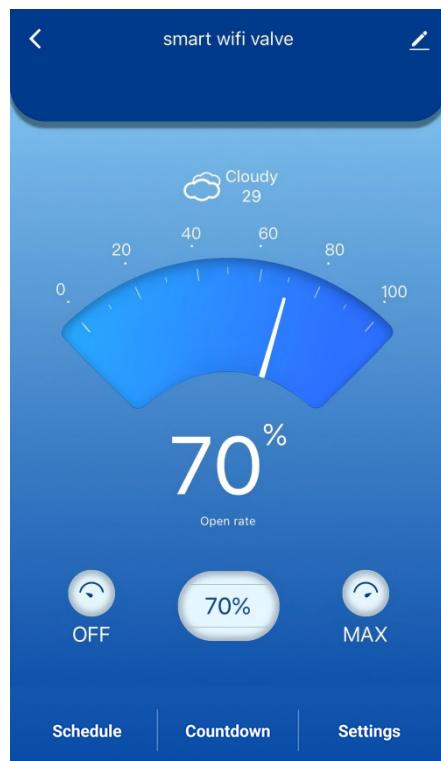
15. Tap “Threshold” to select the open percentage.



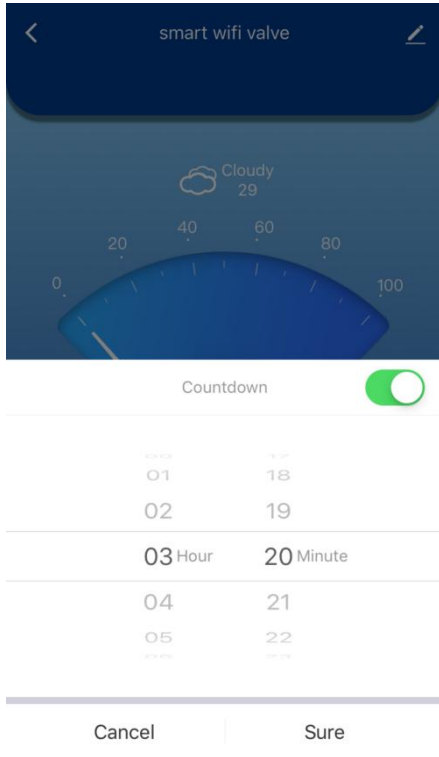
17. The schedule has successfully been set.



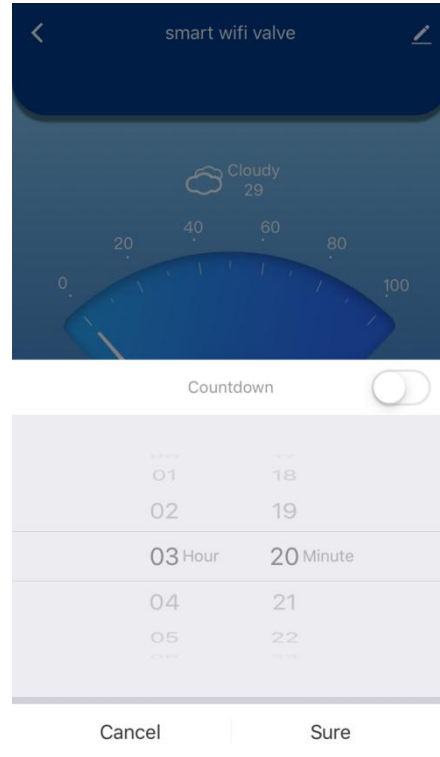
16. Swipe to select the scheduled time and tap “Save” to save the schedule.



18. The smart valve will open or close to the selected open rate when the scheduled time is up.



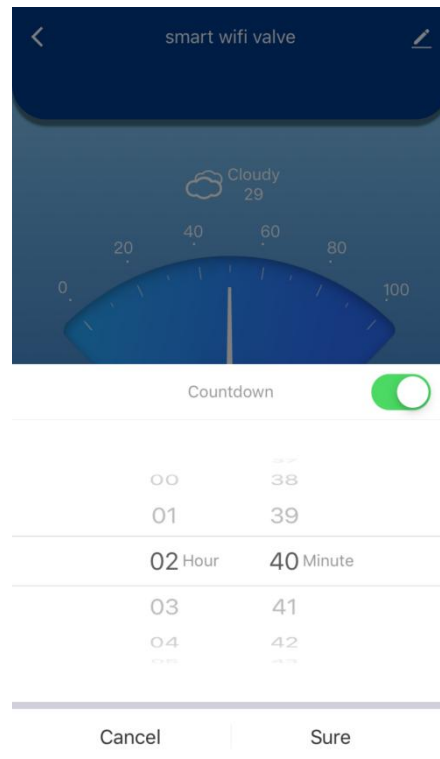
19. Tap "Countdown" to set the countdown automatic switch, then tap "Sure".



21. The countdown can be canceled by tapping the white dot.



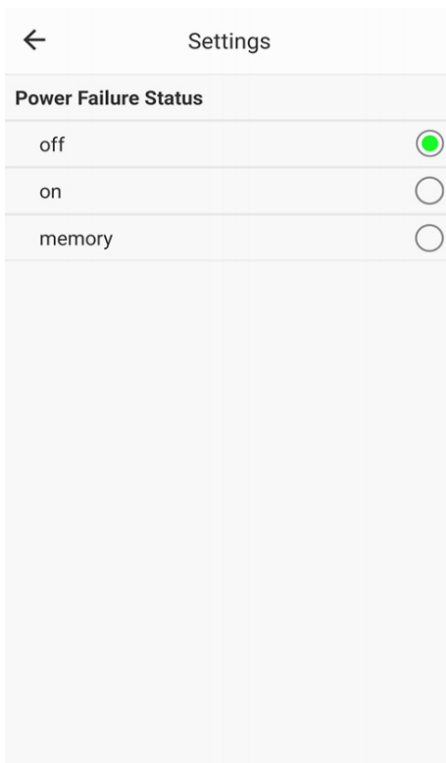
20. The smart valve will automatically open to max when the countdown is over.



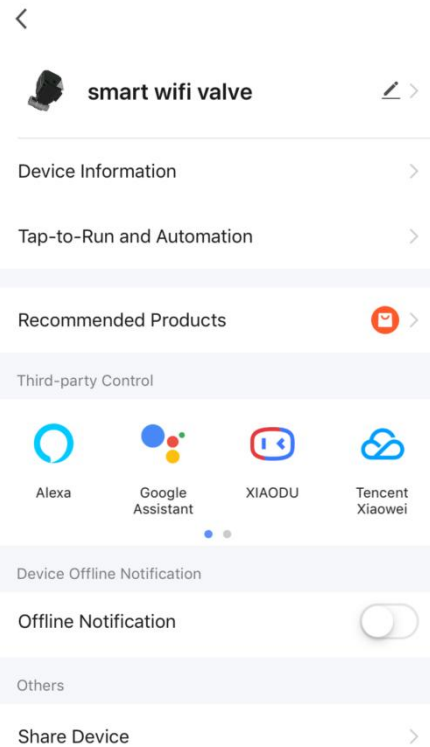
22. When the smart valve is open, tap the "Countdown" to set a time.



23. The smart valve will close automatically when the countdown is over.



24. Tap "Settings" to configure the valve's power-off state. Choose "off" to close the valve, "on" to open it, or "memory" to maintain its last position when power is lost.



25. Tap the upper-right icon to perform other settings.

The WiFi Water Leakage Alarm is a high-sensitivity security device designed to provide 24/7 monitoring and protection for your home or business. By connecting directly to your **2.4GHz WiFi** network, this smart sensor ensures you are the first to know about potential leaks, even when you are away.

## Features:

**Comprehensive Detection:** Equipped with high-sensitivity sensors to detect multiple water hazards, including top dripping, base leakage, and full immersion.

**Dual Alert System:** In the event of a leak, the device triggers a powerful 100dB internal siren while sending instant push notifications to your smartphone via the Tuya Smart or Smart Life app.

**Seamless Smart Integration:** Fully compatible with the Tuya & Smart Life ecosystems, enabling easy device management, automation scenes, and family sharing.

**Ultra-Low Power Consumption:** Powered by two AAA batteries, the device operates at a static current of just 30 $\mu$ A, ensuring years of reliable standby performance.

**Intuitive One-Button Control:** Features a multi-function button for quick pairing (5-second press) and an instant mute function (1-second press) to silence alarms locally.

## Specification Parameters:

Input voltage: 3V

Static current: 30 $\mu$ A

Alarm current: 150mA

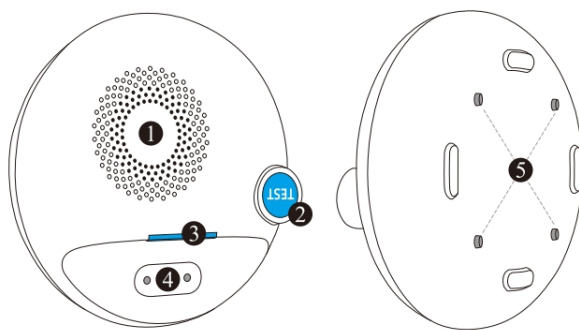
Alarm volume:  $\leq$ 100dB(within 10cm range)

WiFi: IEEE 802.11 b/g/n 2.4GHz

Working temperature: -10 $^{\circ}$ C~+50 $^{\circ}$ C

Battery: Two AAA batteries (optional)

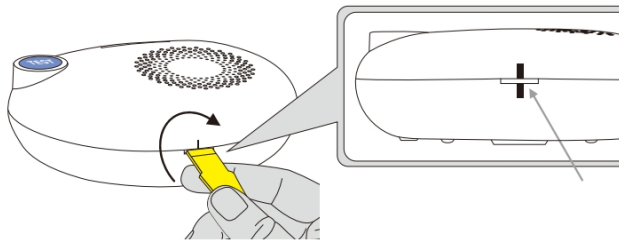
## Product Structure:



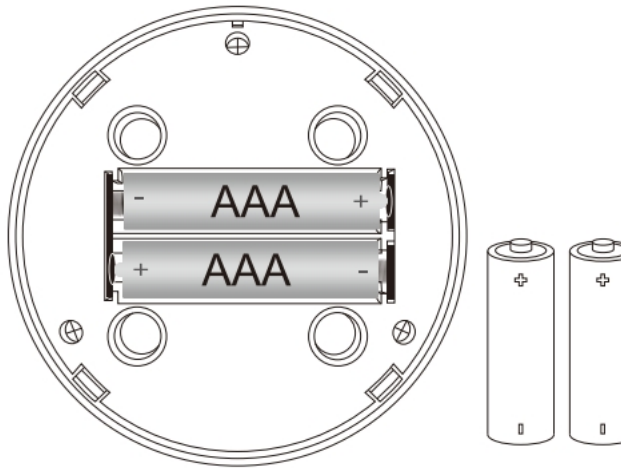
1) Buzzer

- 2) Pairing network:long press for 5 seconds, Stop the alarm sound:Short press for 1 second
- 3) LED indicator light
- 4) Drip sensing alarm
- 5) Water leakage sensing alarm

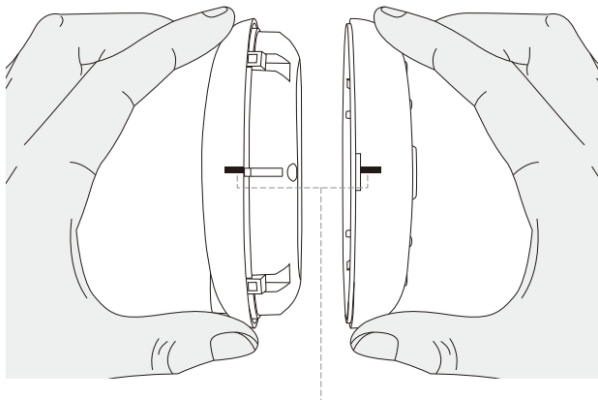
### Connection and Operation(sensors)



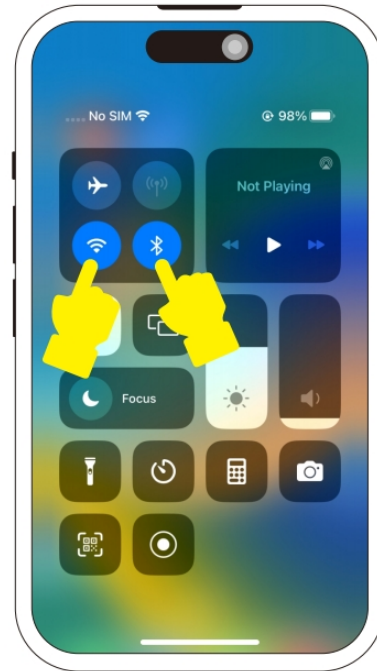
1. At the corresponding side notch position,use a pry bar rotate and open the bottom back cover.



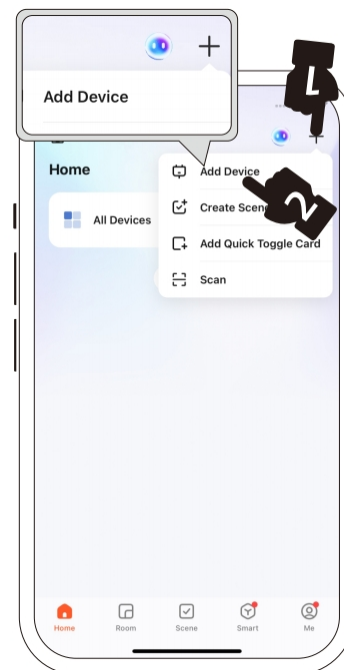
2. Align the+and-poles respectively and install 2 AAA batteries.



3. Find the position of the horizontal line on the side and install the bottom cover. Align the horizontal and install the back cover.

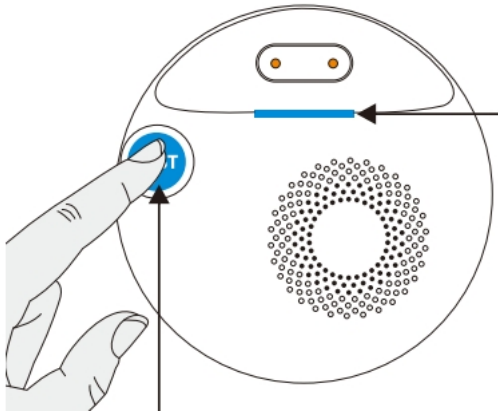


4. Connect your phone to WIFI(2.4GHz) and turn on Bluetooth.

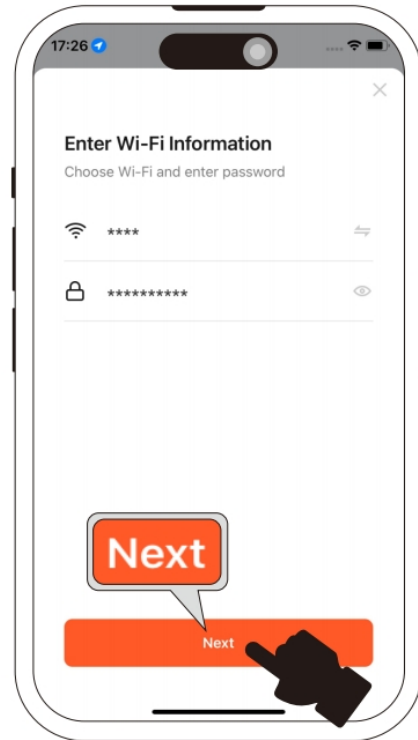


5. Open the app. Click on the “+” in the upper

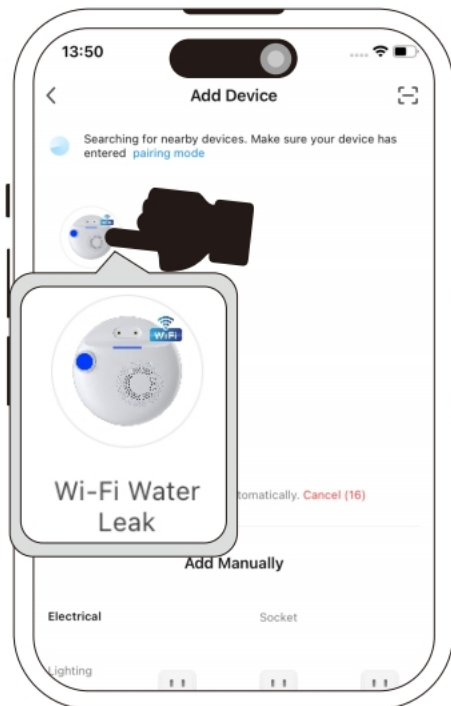
right corner. Click on “Add Device”.



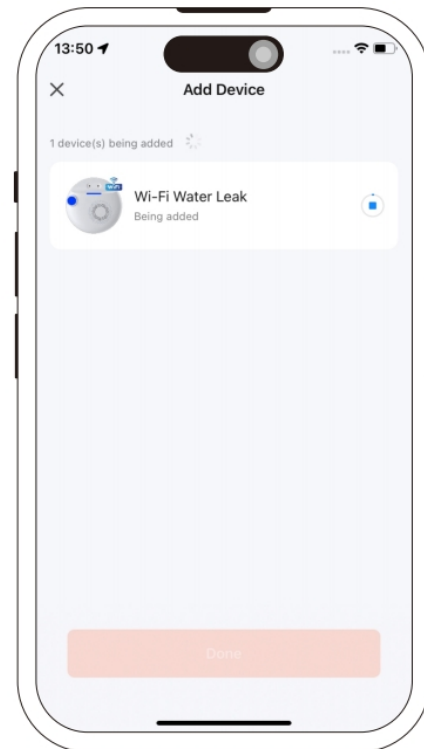
6. Press and hold the “TEST” button for 5 seconds until the LED indicator light continues to flash, then release the button.



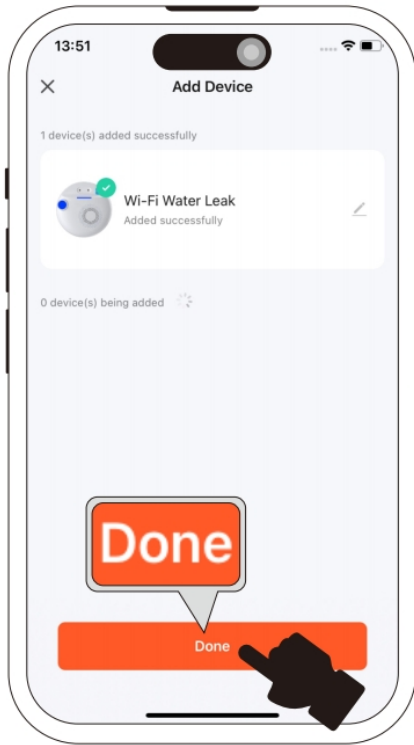
8. Enter the Wi-Fi name and password, and click "Next".



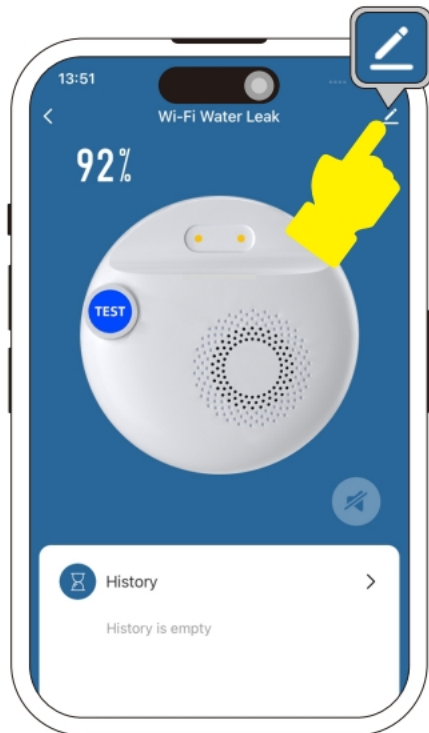
7. After automatically discovering the device, click on the device.



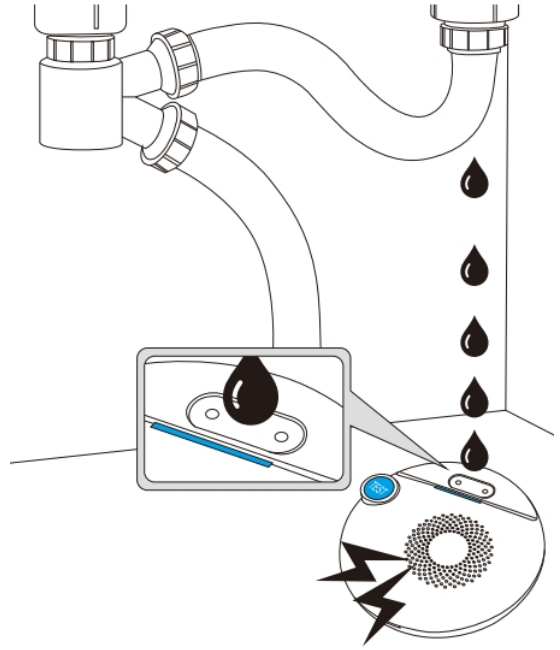
9. Connecting in progress.



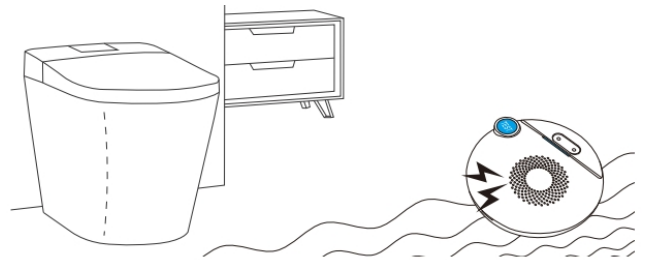
10. Successfully connected,click “Done”.



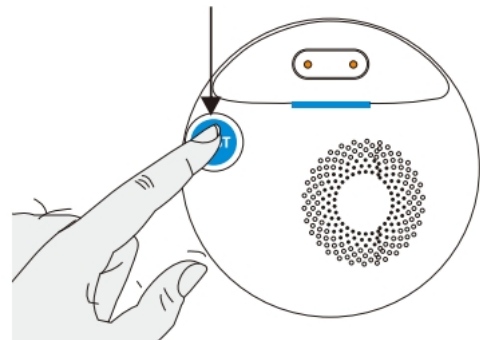
11. Click on the top right corner.



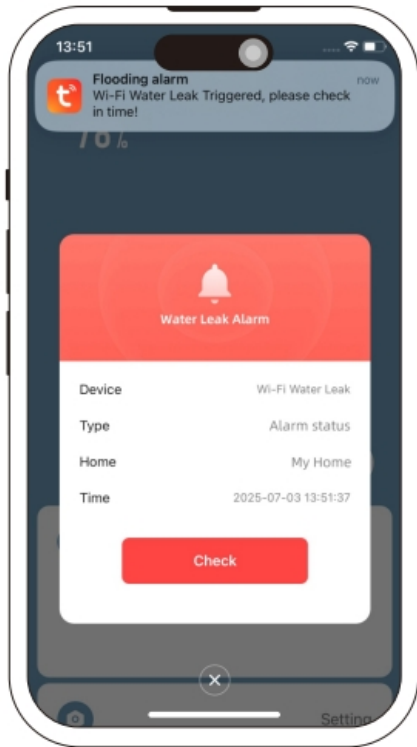
12. Drip sensing alarm.



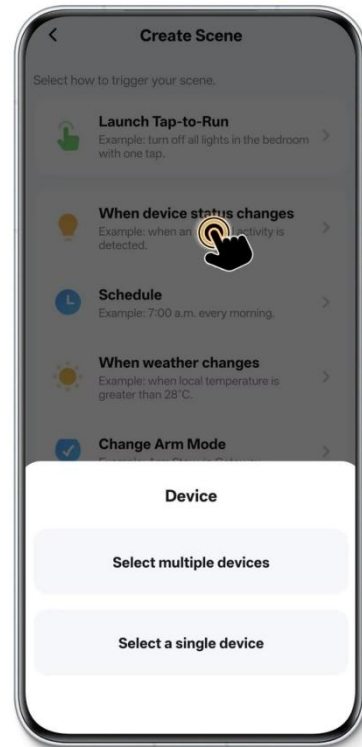
13. Full water sensing alarm.



14. When an alarm occurs, press the mute button briefly for 1 second to immediately stop the alarm.

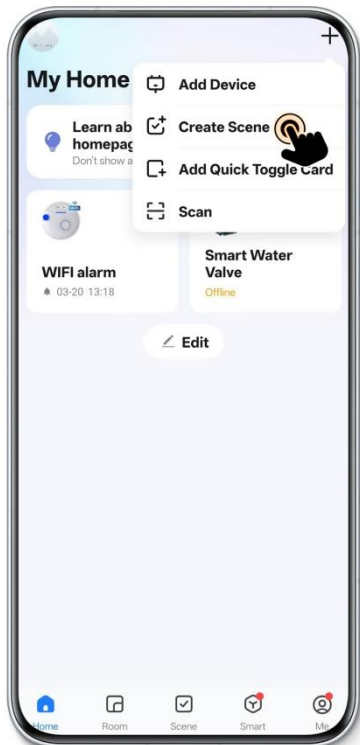


15. The mobile app has received an alarm.



2. Select "When device status changes" and choose single or multiple devices.

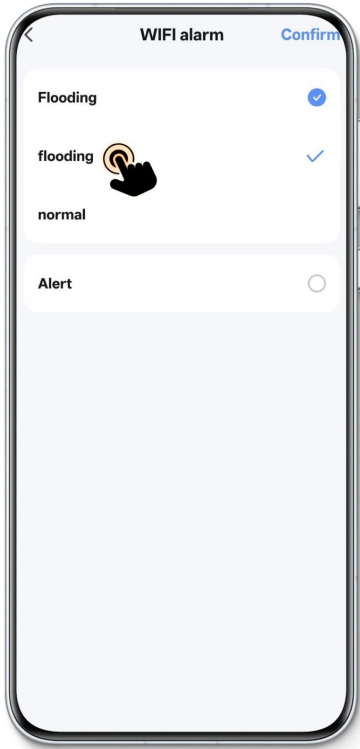
### How to Connect the Sensor to the Ball Valve



1. Click "Create Scene" as shown in the Smart Life APP



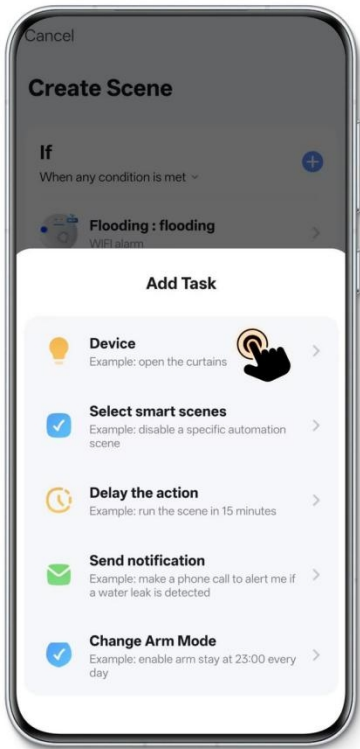
3. Select your sensor.



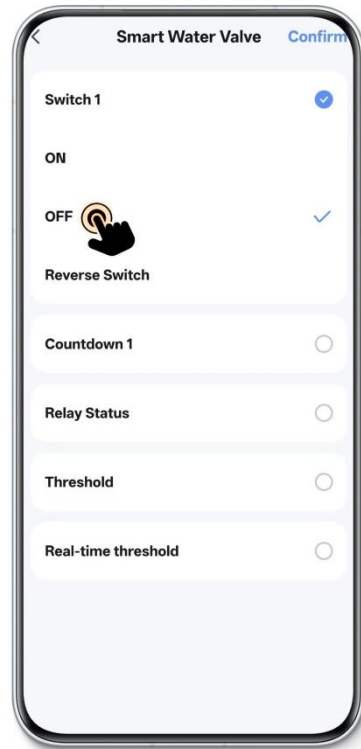
4. Select "When sensor status becomes Flooding."



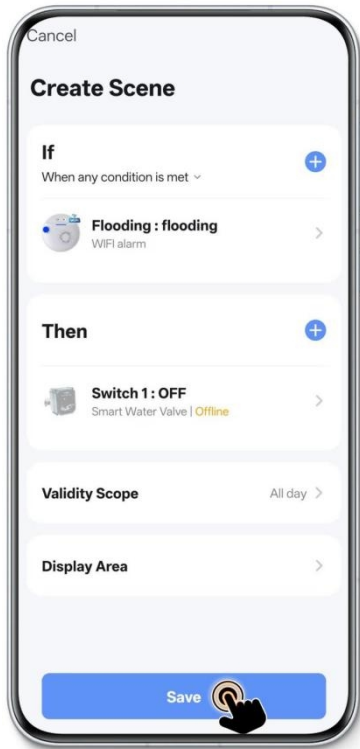
6. Select your smart motorized ball valve.



5. Select "Add Task" and choose "Device".



7. Select "Switch OFF" for the valve status.



8. Select "Save" to complete the setup. Your sensor is now successfully linked with the motorized ball valve, and the valve will automatically close whenever the sensor triggers an alarm.

## **FAQ:**

Q: Can the Smart Motorized Ball Valve only be controlled via the app?

A: No, it also features a manual push-button for local control.

Q: Unable to connect to the app?

A: • The distance between the product and the router exceeds the communication range of the product. Please approach the router 1-3 meters for network distribution.

- The WiFi frequency does not support 5GHz, only 2.4GHz.
- Press and hold for 5 seconds to re-enter pairing network mode.

Q: Why hasn't the app received any alarm notifications?

A: • Please go to the system settings and grant access to push applications.

- Please ensure that the product is within the coverage range of WiFi signal.

Q: After configuring the automation, will the ball valve still shut off automatically during a sensor alarm if the phone app is offline or not in use?

A: Yes. Once configured, the automation runs independently. The ball valve will still shut off automatically during an alarm even if your phone is offline or the app is closed.

## **Contact**

Feel free to visit our website: [ussolid.com](http://ussolid.com)

You can email us at [service@ussolid.com](mailto:service@ussolid.com)