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LoraTap SC411WSC-US

LoraTap WiFi + RF Smart Curtain Switch User Manual

Model: SC411WSC-US

1. INTRODUCTION

The LoraTap WiFi + RF Smart Curtain Switch provides convenient control over electric curtains, roller blinds, and roller shutters. This device integrates seamlessly with your smart home ecosystem, offering control via the Smart Life/Tuya Smart App, voice commands through Alexa and Google Home, and a dedicated RF remote control. This manual provides detailed instructions for installation, operation, and maintenance to ensure optimal performance and user experience.

2. PRODUCT OVERVIEW

The LoraTap Smart Curtain Switch is designed for ease of use and versatility. It features a touch-sensitive panel and supports multiple control methods to suit your preferences.

Key Features:

- **WiFi Smart Control:** Manage your curtains from anywhere using the Smart Life/Tuya Smart App on your smartphone.
- **Voice Control:** Compatible with Alexa and Google Home for hands-free operation.
- **RF Remote Control:** Provides convenient control within a 30-meter range, even when Wi-Fi is unavailable.
- **Touch Control:** Manual operation directly from the switch panel.
- **Timer Function:** Schedule automatic opening and closing of curtains based on your daily routine.
- **Group Control:** Control multiple curtain switches simultaneously by creating groups in the app.



Image 1: LoraTap Smart Curtain Switch, RF remote, and Smart Life app interface, highlighting remote, timer, touch, and voice control features.

3. PACKAGE CONTENTS

Please check the package for the following items:

- 1x LoraTap Wi-Fi Roller Shutter Switch
- 1x RF Roller Shutter Remote Control (battery included)
- 1x Remote Control Holder
- 1x User Manual (English version provided here)
- Installation accessories (screws, etc.)

4. SPECIFICATIONS

Manufacturer	LoraTap
Model Number	SC411WSC-US
Product Dimensions (L x W x H)	12 x 7.2 x 3.9 cm

Weight	240 grams
Input Voltage	100-250 V AC, 50/60 Hz
Wiring	Phase wire and Neutral wire
Load Capacity	≤ 600 W
Glass Plate	4 mm tempered glass
Wi-Fi Standard	2.4 GHz 802.11 b/g/n
Standby Power Consumption	≤ 0.5 W
Operating Temperature	-30 °C ~ 70 °C
Remote Control Frequency	868 MHz
Remote Control Dimensions	29 x 12 x 90 mm
Color	White
Material	Acrylonitrile Butadiene Styrene
Current Rating	10 A
Operating Voltage	240 Volts

Safe and waterproof

4mm tempered glass panel, ensures safe operation even with wet hands



Image 2: Detailed dimensions of the LoraTap Smart Curtain Switch and its remote control, illustrating the 4mm tempered glass panel and its waterproof design.

5. SETUP

5.1 Wiring Instructions

The LoraTap Smart Curtain Switch is designed to work exclusively with 4-wire electric motors for curtains, roller blinds, or roller shutters. Ensure proper wiring to prevent damage and ensure correct functionality.

- **Brown Wire:** Connects to the 'Open' function of the motor.
- **Blue Wire:** Connects to the 'Common' (Neutral) wire of the motor.
- **Black Wire:** Connects to the 'Closed' function of the motor.
- **Yellow and Green Wire:** Connects to 'Earth' (Ground).

Important: Always turn off the main power supply before performing any wiring to avoid electrical shock.

5.2 App Installation and Wi-Fi Connection

The switch operates with the Smart Life or Tuya Smart App. Download the app from your smartphone's app store.

1. Download and install the **Smart Life** or **Tuya Smart** App on your mobile device.

2. Register or log in to your account.
3. Ensure your Wi-Fi network is a **2.4 GHz** network. If you have a dual-band router (2.4 GHz and 5 GHz), temporarily separate the bands in your router settings to ensure a stable 2.4 GHz connection during setup.
4. Follow the in-app instructions to add the LoraTap Smart Curtain Switch. This typically involves putting the switch into pairing mode (refer to the switch's LED indicator for status) and confirming the Wi-Fi network and password in the app.

6. OPERATING INSTRUCTIONS

6.1 App Control

Once connected to the Smart Life/Tuya Smart App, you can control your curtains from anywhere.

- Open the app and select your curtain switch device.
- Use the 'Open', 'Close', or 'Pause' buttons to control the curtains.
- Adjust the slider to open or close curtains partially to your desired percentage.

6.2 Voice Control (Alexa/Google Home)

Integrate your LoraTap switch with Amazon Alexa or Google Home for voice-activated control.

1. Ensure your Alexa or Google Home device is set up and linked to your Smart Life/Tuya Smart account.
2. Use commands such as:
 - "Alexa, open the curtains."
 - "Hey Google, close the blinds."
 - "Alexa, set the curtains to 50%."

Voice Command - Free Your Hand

Controlled by voice via Alexa and Google Assistant

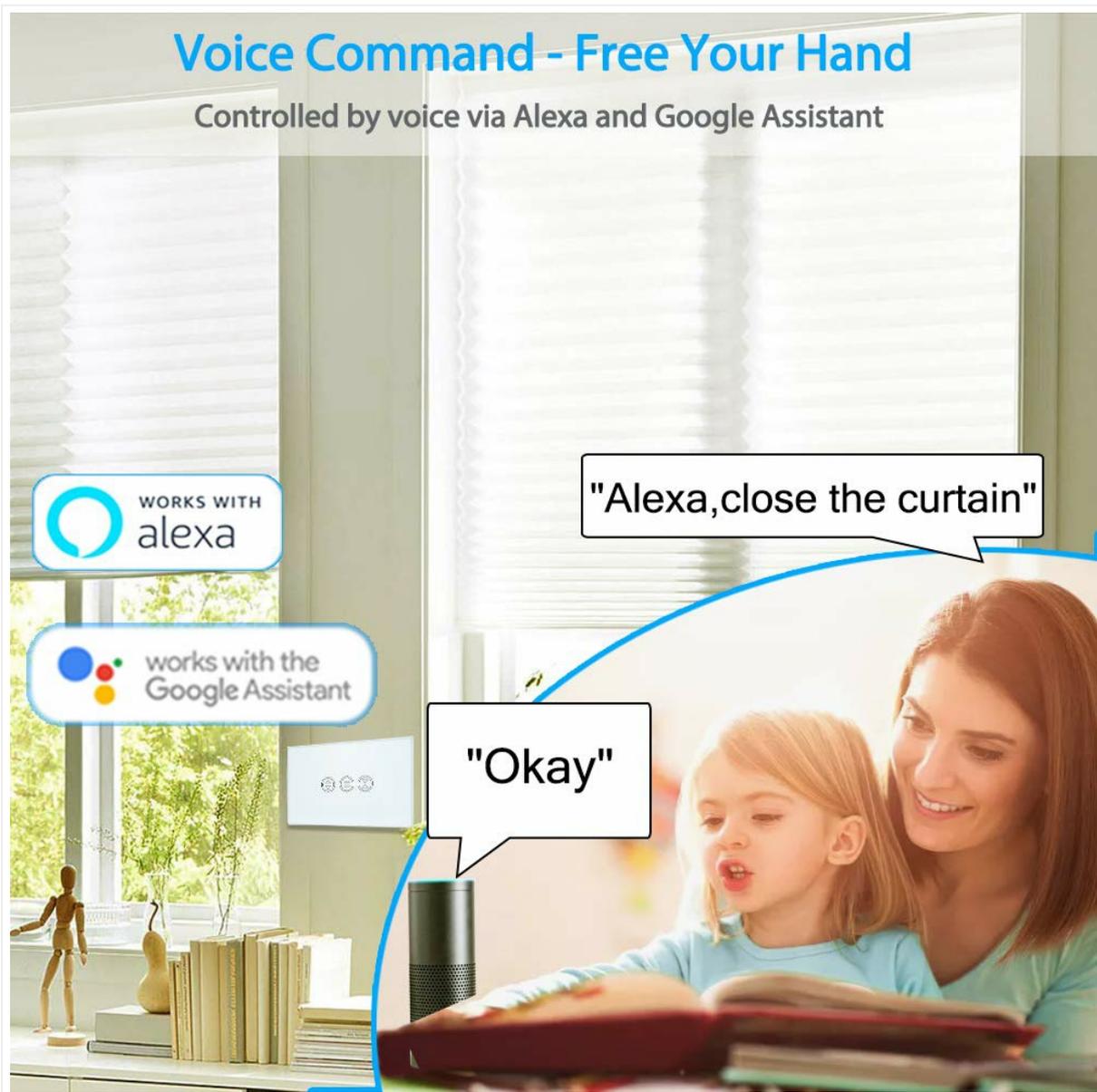


Image 3: An example of using voice commands with Alexa to control the curtains.

6.3 RF Remote Control

The included RF remote control allows for local control without Wi-Fi.

- The remote can control the curtains from up to 30 meters away.
- Press the 'Up' button to open, 'Down' button to close, and 'Pause' button to stop the curtains.
- Ensure the remote is paired with the switch (refer to pairing instructions if needed, usually involves pressing a button on the switch while activating the remote).

6.4 Touch Control

The switch panel itself is touch-sensitive for direct manual control.

- Tap the 'Up' icon to open the curtains.
- Tap the 'Down' icon to close the curtains.
- Tap the 'Pause' icon to stop the curtains at any position.

6.5 Timer Function

Automate your curtains with the timer function in the Smart Life/Tuya Smart App.

1. In the app, navigate to the device settings and find the 'Timer' or 'Schedule' option.

2. Set specific times for your curtains to open or close. For example, open at 6:30 AM and close at 9:00 PM.
3. You can also adjust the motor running time (default 60 seconds) to achieve partial opening/closing if your motor supports it.

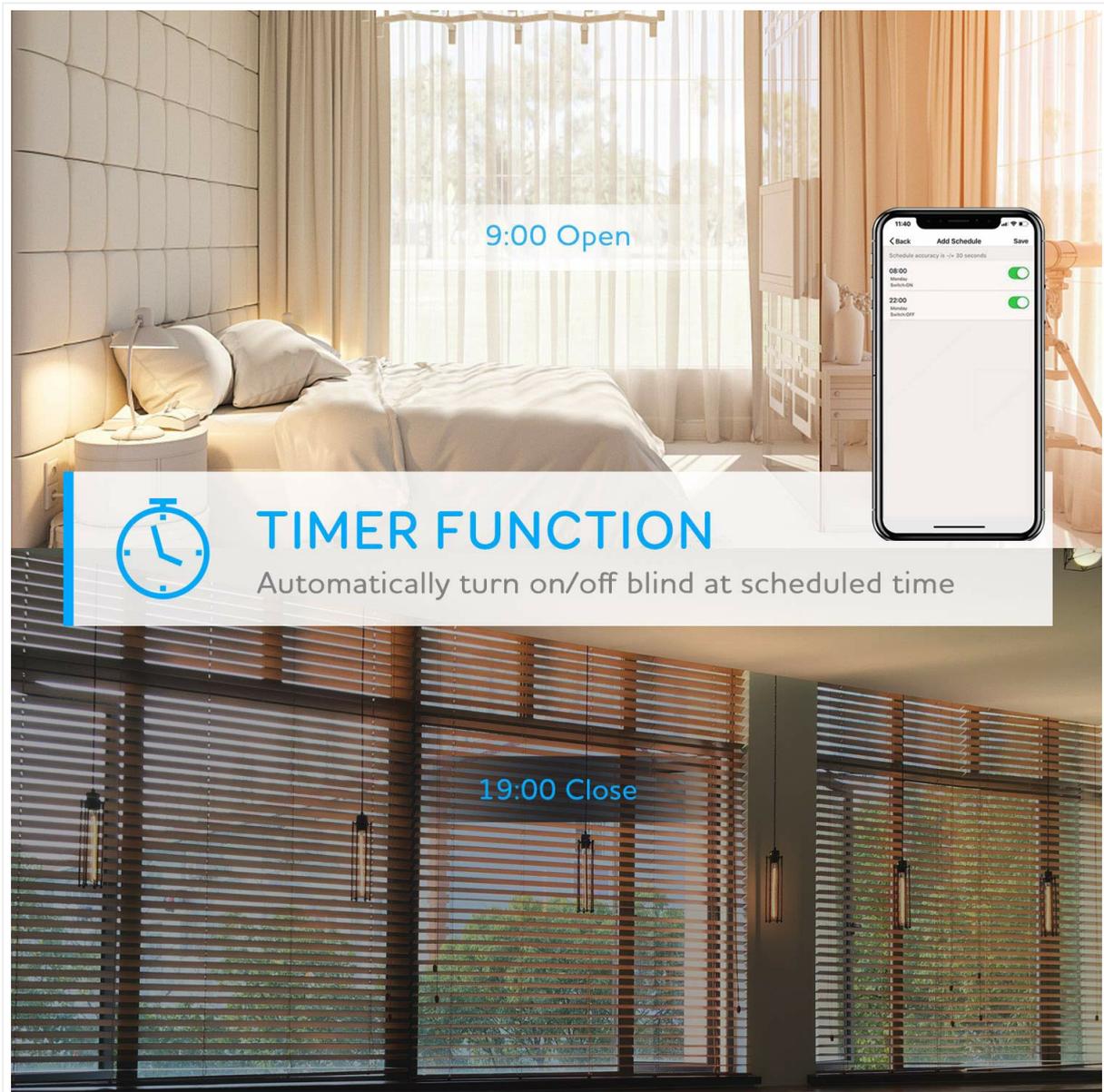


Image 4: Illustration of the timer function, showing curtains automatically opening and closing at scheduled times.

6.6 Group Control

Control multiple LoraTap Smart Curtain Switches simultaneously.

1. In the Smart Life/Tuya Smart App, create a new group.
2. Add up to 20 curtain switches to this group.
3. You can now control all grouped curtains with a single command.
4. Share device control with family members through the app for shared smart home management.

Multiple smartphones can control one curtain switch



One key controls all the switches in one group.



Image 5: Demonstrates how multiple smartphones can control a single switch and how group control allows managing several switches with one command.

7. CALIBRATION

To ensure accurate positioning of your curtains, perform a quick calibration using the Smart Life/Tuya Smart App. This process measures the time it takes for your curtains to fully close.

1. **Prepare a stopwatch:** Use a stopwatch to record the exact time it takes for your curtains to move from fully open to fully closed.
2. **Close curtains manually:** Use the wall switch to fully close the curtains. Wait for them to reach the fully closed position.
3. **Verify app state:** Ensure the app also shows the curtains in a fully closed state (0%).
4. **Access calibration in app:** In the Smart Life/Tuya Smart App, go to the device settings, select "Quick Calibration", and click "Next Step".
5. **Enter travel time:** Enter the time you measured with the stopwatch (e.g., 9 seconds or 15 seconds).
6. **Complete calibration:** Click "Next Step" to complete the calibration process. The app will confirm once calibration is finished.

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Video 1: This video demonstrates the quick calibration process for the LoraTap Smart Curtain Switch, showing how to measure the curtain travel time and input it into the Smart Life app for accurate control.

8. APPLICATION SCENARIOS

The LoraTap Smart Curtain Switch can be used in various settings to enhance convenience and smart living.

- **Bedroom:** Automate curtains to open with your alarm or close for privacy.
- **Living Room:** Adjust blinds for optimal lighting or privacy with a touch or voice command.
- **Office:** Control office blinds for glare reduction or privacy during meetings.
- **Kitchen:** Manage kitchen window coverings easily.
- **Store Awnings:** Automate the opening and closing of store awnings.

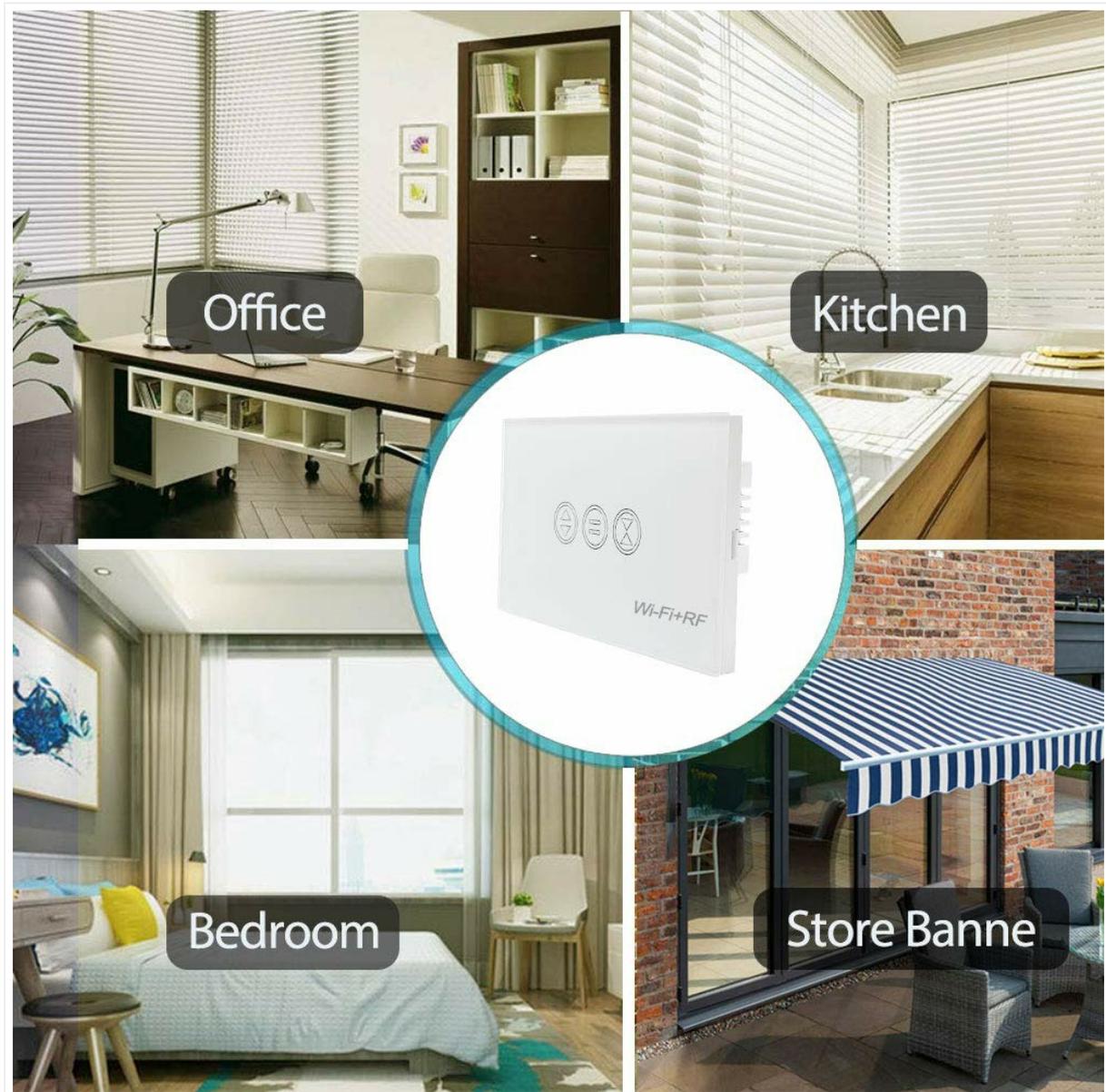


Image 6: Examples of the LoraTap Smart Curtain Switch being used in different environments such as an office, kitchen, bedroom, and for a store awning.

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Video 2: This video showcases various application scenarios for the LoraTap WiFi Shutter Switch, demonstrating its use with different types of window coverings and in various rooms.

9. MAINTENANCE

To ensure the longevity and proper functioning of your LoraTap Smart Curtain Switch, follow these maintenance guidelines:

- **Cleaning:** Wipe the glass panel with a soft, dry cloth. Avoid using abrasive cleaners or solvents that could damage the surface.
- **Connection Check:** Periodically check the wiring connections to ensure they are secure. Always turn off power before inspecting wiring.
- **Firmware Updates:** Keep the Smart Life/Tuya Smart App updated to receive the latest features and security enhancements for your device.
- **Battery Replacement (Remote):** If the RF remote control's performance degrades, replace its battery (type C, included in package).

10. TROUBLESHOOTING

If you encounter issues with your LoraTap Smart Curtain Switch, refer to the following common troubleshooting steps:

- **Switch not responding:** Check if the main power supply is on. Ensure the switch is properly wired.
- **Wi-Fi connection issues:**
 - Verify your Wi-Fi network is 2.4 GHz.
 - Ensure the Wi-Fi signal strength is adequate at the switch's location.
 - Restart your Wi-Fi router and the switch.
 - Attempt to re-pair the device with the Smart Life/Tuya Smart App.
- **RF Remote not working:**
 - Check the battery in the remote control and replace if necessary.
 - Ensure the remote is within the 30-meter operating range.
 - Re-pair the remote with the switch if connection is lost.
- **Curtains not opening/closing fully or stopping incorrectly:**
 - Perform the calibration process as described in Section 7.
 - Check the motor's limit switches if applicable.
- **Voice control not working:**
 - Ensure your Alexa/Google Home device is online and linked to your Smart Life/Tuya Smart account.
 - Check the device name in the app and use clear voice commands.

11. WARRANTY AND SUPPORT

The LoraTap Smart Curtain Switch comes with a **1-year warranty** from the date of purchase, covering manufacturing defects. For technical support, warranty claims, or further assistance, please contact your retailer or LoraTap customer service through their official channels. Please have your model number (SC411WSC-US) and proof of purchase ready when contacting support.