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Blindsmart BSDJ-ZM25EL-08/25-ZB

Blindsmart Rechargeable Tuya Zigbee Roller Blinds Motor User Manual

Model: BSDJ-ZM25EL-08/25-ZB | Brand: Blindsmart

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Blindsmart Rechargeable Tuya Zigbee Roller Blinds Motor. Please read this manual carefully before installation and use to ensure proper functionality and safety. This motor is designed to automate your roller blinds, offering convenient control via smartphone applications, voice commands, and optional remote controls.

2. Product Overview

The Blindsmart Roller Blinds Motor is a compact and efficient solution for automating your window treatments. It features a built-in rechargeable battery and integrates seamlessly with Tuya Zigbee ecosystems.

Included Components:

- Motor
- Charging cable
- End Cap
- Brackets
- Manual

Below are visual representations of the product and its key features:



Figure 2.1: Blindsmart Roller Blinds Motor and accessories.

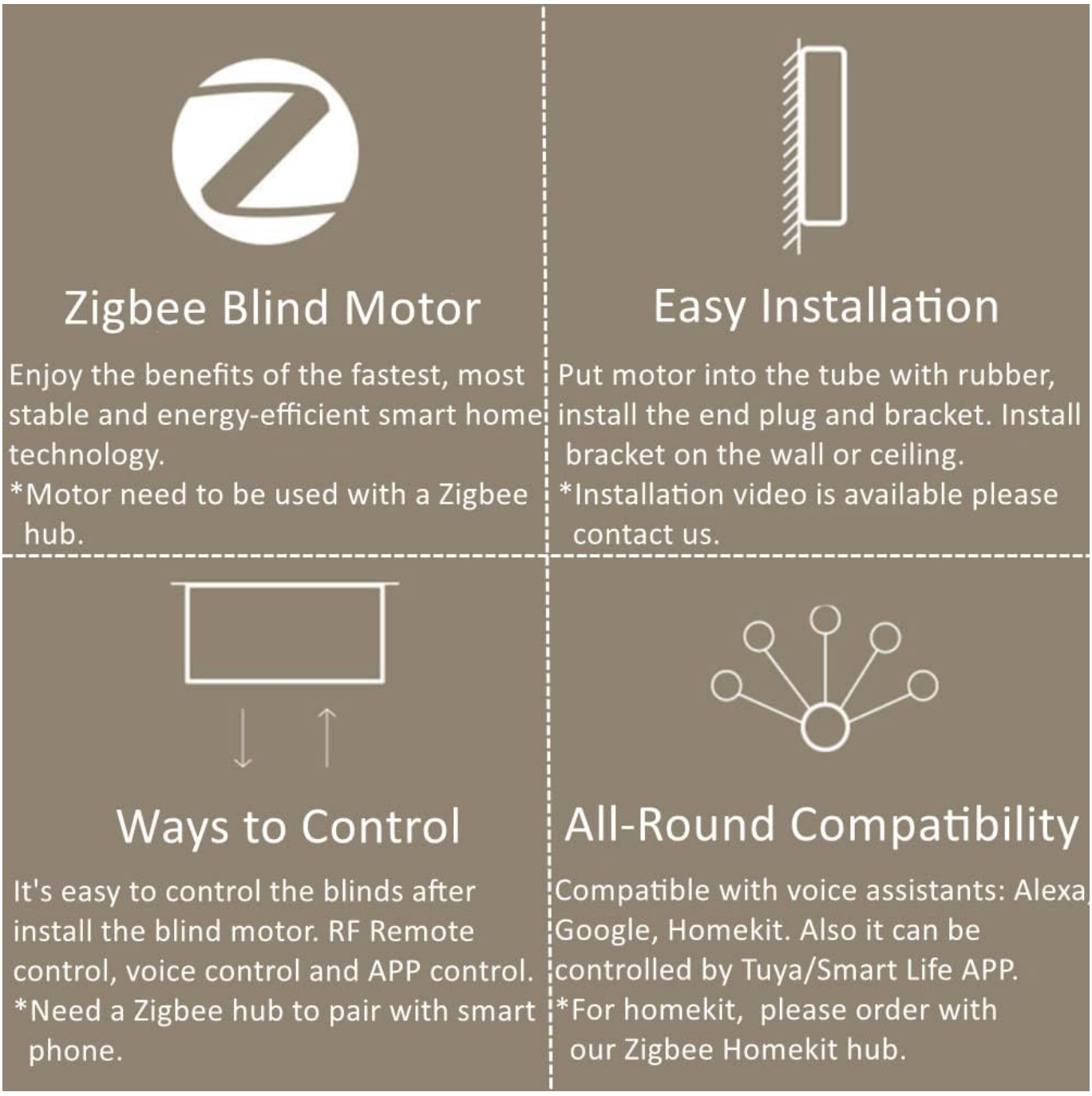


Figure 2.2: Key features including Zigbee compatibility, ease of installation, multiple control methods, and broad compatibility.



Figure 2.3: Important measurement guide for ensuring tube compatibility (36mm, 37mm, 38mm inner diameter).

3. Setup and Installation

Proper installation is crucial for the optimal performance of your roller blinds motor. Please follow these steps carefully. A Tuya Zigbee 3.0 Hub Gateway is required for this blind motor to function with smart control features.

Installation Video:

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Video 3.1: Detailed Roller Shade Motor Installation Guide. This video covers charging, motor insertion, bracket installation, and pairing.

Step-by-Step Installation:

1. **Charge the Motor:** Before installation, ensure the motor battery is fully charged using the included USB cable. The motor has a built-in 3000mAH Li-battery.
2. **Insert Motor into Tube:** The motor is designed to fit into 36mm, 37mm, or 38mm inner diameter shade tubes.

Insert the motor into one end of the roller blind tube, ensuring it grips the inside properly.

3. **Insert End Cap:** Insert the end cap into the other end of the roller blind tube.
4. **Affix Brackets:** Secure the roller blind brackets to the ceiling. Ensure the bracket with the plastic holder mechanism is facing outward for easy installation. If wall mounting is required, 'L' or 'S' shaped brackets can be purchased separately. Ensure the distance between the two brackets is equal to the width of the roller shade tube.
5. **Install Roller Shade Tube:** Begin installing the roller shade tube into the brackets. Ensure the end with the motor has the reset button and micro-USB port accessible for later use. The other end of the tube sits in the plastic holder, which is secured by pulling the catch over and down, snapping it into place.
6. **Pairing with Remote (Optional):** To pair the remote, press the Pairing button on the motor once, then the 'Up' button on the remote once.
7. **Pairing with Tuya Smart App:** Open the Tuya Smart app and tap on 'Add Device' or the '+' icon. Select your gateway/hub and press the pairing button on the motor three (3) times. The motor will be automatically discovered. Tap 'Add' then 'Done'.



Figure 3.2: Key steps in preparing the roller blind tube and motor for installation.

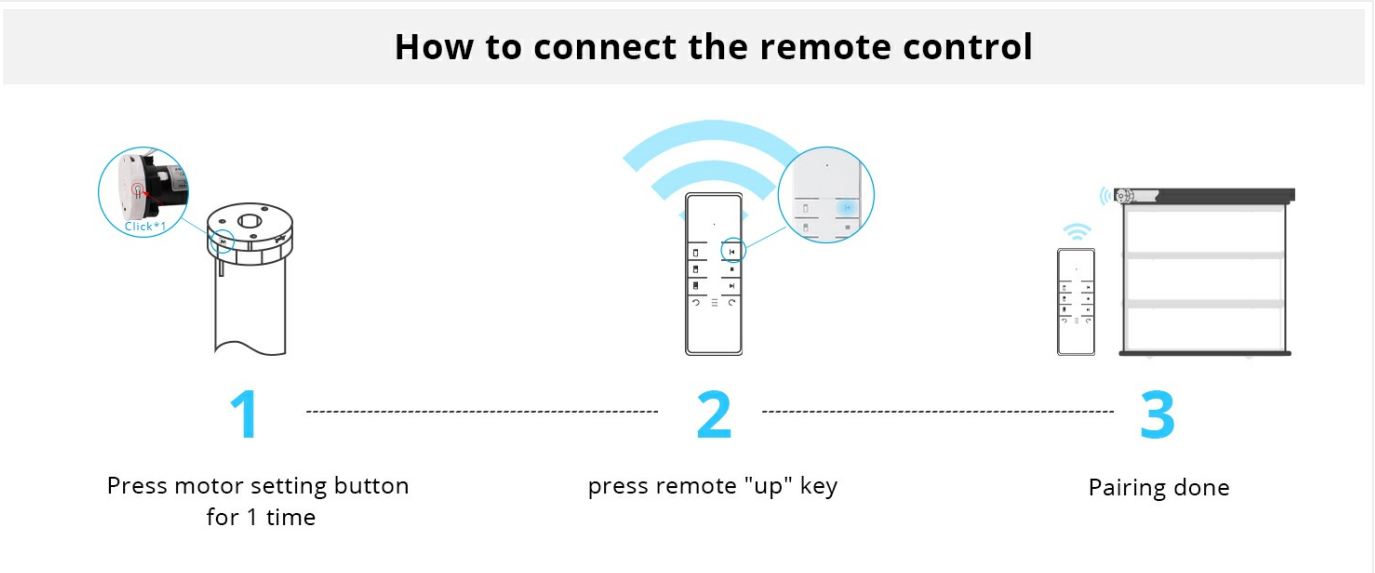


Figure 3.3: Remote control pairing process.

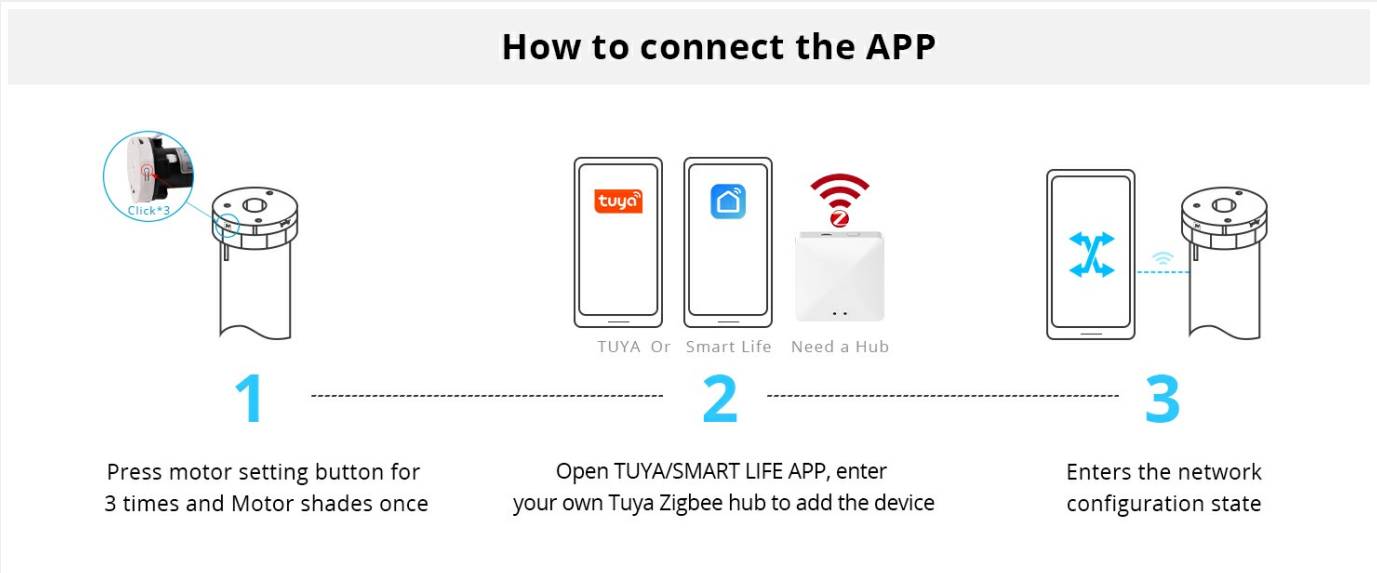


Figure 3.4: App connection process requiring a Zigbee hub.

4. Operating Instructions

Once installed and paired, your Blindsmart motor offers multiple ways to control your roller blinds.

Setting Upper and Lower Limits:

It is essential to set the upper and lower limits for your blinds to ensure they open and close to the desired positions. This is typically done using the remote control:

- **Set Upper Limit:** Press 'up' on the remote to begin setting the upper limit. Press the 'Stop' button when the desired upper position is reached. Then, press the 'set' button above the battery compartment once, followed by the 'Up' button on the remote. You will hear a 'beep' confirmation sound.
- **Set Lower Limit:** Press 'down' on the remote to set the lower limit. Press the 'Stop' button when the desired lower position is reached. Then, press the 'set' button above the battery compartment once, followed by the 'Down' button on the remote. You will hear a 'beep' confirmation sound.
- **Set Custom Position:** Press 'up' or 'down' on the remote to move the blind to a custom position. Press the 'Stop' button when this has been reached. Then, press the 'set' button above the battery compartment once, followed by the 'Stop' button on the remote. You will hear a 'beep' confirmation sound.

Control Methods:

- **APP Control:** Use the Tuya Smart or Smart Life APP to control your blinds. You can open, close, stop, and set schedules for your blinds. The app also displays the battery level.
- **Voice Control:** Integrate with Alexa, Google Home, and Siri for convenient voice commands. Ensure your Tuya skill is enabled in your voice assistant app.
- **Remote Control (Optional):** If you have a remote, you can use it for direct control of your blinds.

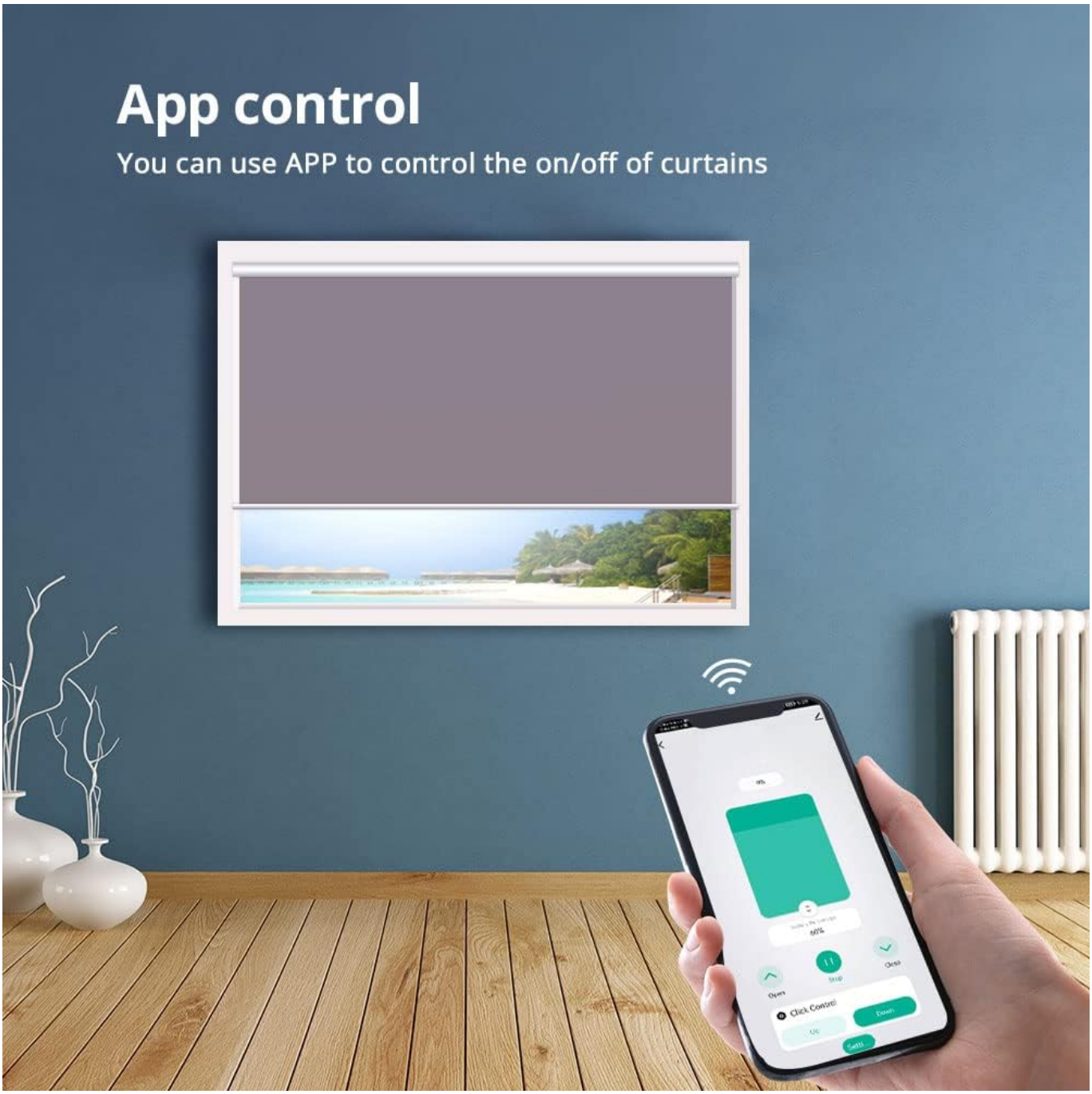


Figure 4.1: App control interface for your smart blinds.

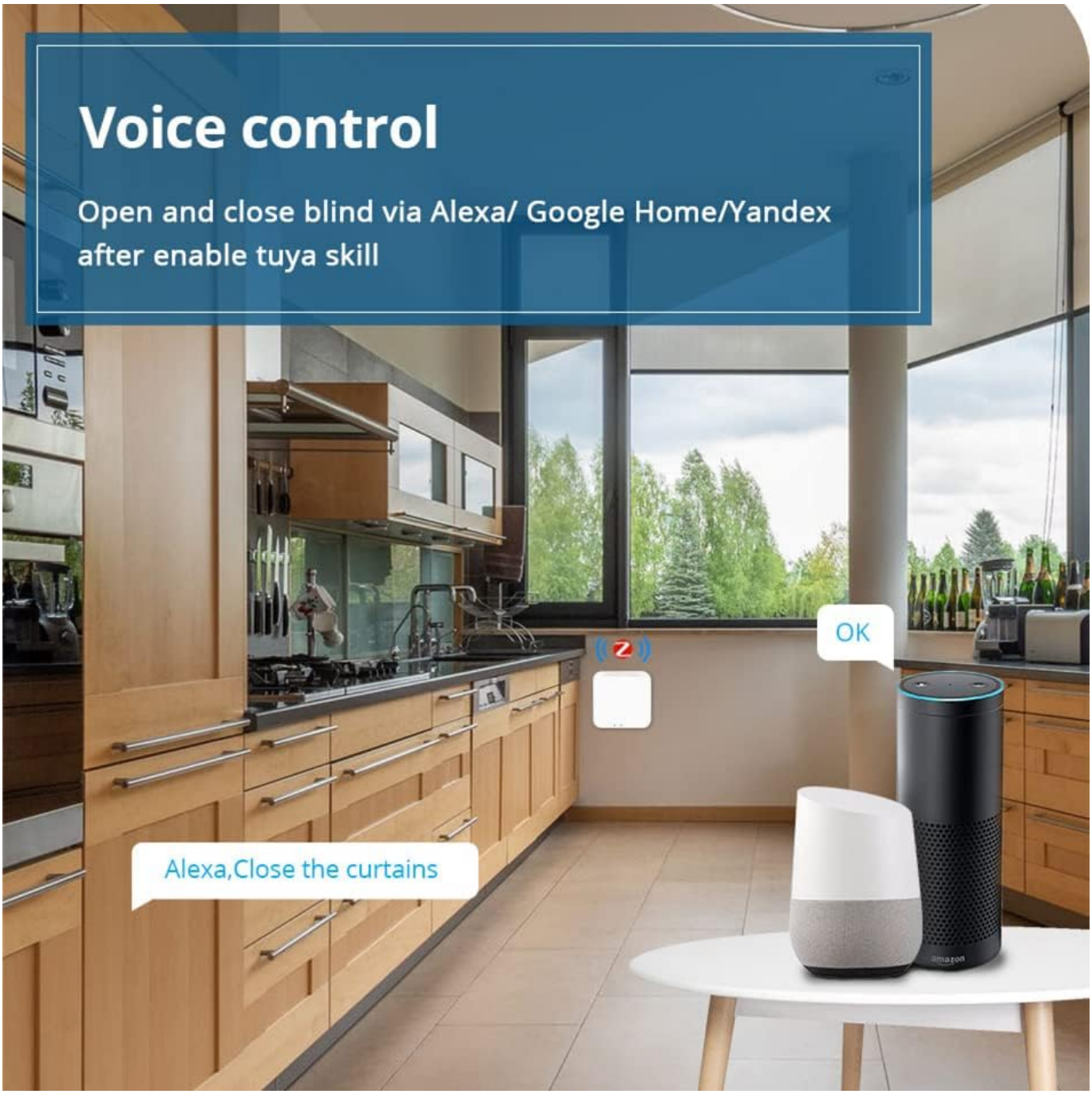


Figure 4.2: Voice control integration with smart assistants like Alexa.



Figure 4.3: Monitoring battery status via the app.

5. Maintenance

To ensure the longevity and optimal performance of your Blindsmart motor, follow these simple maintenance guidelines:

- **Charging:** The motor features a built-in 3000mAH Li-battery. Charge the motor using the provided USB cable when the battery level is low. You can monitor the battery status through the Tuya Smart or Smart Life APP.
- **Cleaning:** For cleaning, spot clean the motor and surrounding components as needed. Avoid using harsh chemicals or abrasive materials.
- **Environmental Conditions:** This product is recommended for indoor use only. Avoid exposing the motor to excessive moisture or extreme temperatures.

6. Troubleshooting

If you encounter issues with your Blindsmart motor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Motor not responding / inconsistent control	Low battery, pairing issue, Zigbee hub connectivity problem.	Ensure motor is fully charged. Re-pair the motor with the remote or Tuya app. Check Zigbee hub connection and status. Ensure the motor is within range of the hub.
Blinds not moving to set limits	Limits not set correctly or reset.	Follow the 'Setting Upper and Lower Limits' instructions in Section 4 to re-set the limits. To reset limits, press the 'set' button three (3) times, then press the button corresponding to the limit you want to reset (Up for upper, Down for lower).
Motor is noisy	Normal operation noise, or potential internal issue.	Some operational noise is normal. If noise is excessive or new, ensure the motor is correctly seated in the tube and brackets. If the issue persists, contact support.
Short battery life / Slow charging	Frequent use, aging battery, or charger issue.	Battery life varies with usage frequency. Ensure you are using the provided charging cable and a suitable power adapter. Consider the version with a solar panel charger for extended battery life.

7. Specifications

Detailed technical specifications for the Blindsmart Rechargeable Tuya Zigbee Roller Blinds Motor:

Specification	Detail
Brand	Blindsmart
Model Number	BSDJ-ZM25EL-08/25-ZB
Material	Plastic
Product Dimensions	17"L x 3"W
Item Weight	1.43 Pounds
Color	Black
Recommended Uses	Indoor, Home Décor
Operation Mode	Automatic
Special Feature	Eco-Friendly
Closure Type	Motorized
Compatible Devices	Smartphones, Tablets, Personal Computers
Mounting Type	Outside Mount
Water Resistance Level	Not Water Resistant
Control Type	Multi-way / Multi-modal
Battery Capacity	3000mAH Li-battery (Built-in)

Specification	Detail
Compatible Tube Diameter	36mm, 37mm, 38mm (inner diameter)
Max Fabric Weight	Up to 3 kg



Figure 7.1: Detailed product dimensions and electrical specifications.

8. Warranty and Support

For warranty information and customer support, please refer to the documentation included with your purchase or visit the official Blindsmart store on Amazon. You can also reach out to Blindsmart customer service for assistance with product inquiries, troubleshooting, or replacement parts.

Visit the Blindsmart Store: Blindsmart Amazon Store

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