Blindsmart ZM85EL-2Z

Blindsmart Tuya Zigbee Smart Curtain Motor User Manual

Model: ZM85EL-2Z

1. Introduction

Thank you for choosing the Blindsmart Tuya Zigbee Smart Curtain Motor. This device is designed to automate your curtains, providing convenience through app control, voice commands, and scheduled operations. This manual provides detailed instructions for installation, operation, and maintenance to ensure optimal performance and longevity of your smart curtain motor.
Note: A Tuya Zigbee hub is required for App control and Voice control functionalities.

2. Safety Information

Please read all safety warnings and instructions carefully before installing and operating this device. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Keep the device away from water and high humidity environments.
- Do not attempt to disassemble, repair, or modify the device. Contact qualified personnel for service.
- Ensure the curtain track or rod is securely installed and can support the weight of the curtains and the motor. The motor supports a maximum load of up to 20 pounds.
- Keep hands, hair, and loose clothing clear of the curtain motor and curtain track during operation to prevent injury.
- This device is for indoor use only.
- Supervise children to ensure they do not play with the curtain motor or controls.

3. Package Contents

Verify that all components are present in your package:

- Blindsmart Tuya Zigbee Smart Curtain Motor (ZM85EL-2Z)
- Charging Cable
- Adapters for different curtain track types (U-rail, I-rail, Roman rod)
- User Manual (this document)

4. Setup and Installation

4.1 Pre-installation Checklist

- Ensure you have a Tuya Zigbee hub for smart control features.
- Check your curtain track or rod type and dimensions for compatibility.
- The motor supports U- and I-Rails with I-rail bottom width ≥ 12mm, U-rail bottom slotting width ≤ 8mm. Suitable for 20-28mm Roman poles.
- Charge the motor fully before first use. The large 3000 mAh rechargeable battery provides up to 1-2 months of use on a single charge.

4.2 Attaching the Motor to Your Curtain System

The Blindsmart Smart Curtain Motor is designed for easy, tool-free installation on your existing curtain track or rod.



Image: The Blindsmart Smart Curtain Motor easily attaches to a Roman rod, blending seamlessly with your existing curtain setup.

For Roman Rods (20-28mm):

1. Select the appropriate adapter for Roman rods.
2. Open the motor's clamp and position it around the Roman rod.
3. Close the clamp securely until it clicks into place. Ensure the motor is firmly attached and can move freely along the rod.

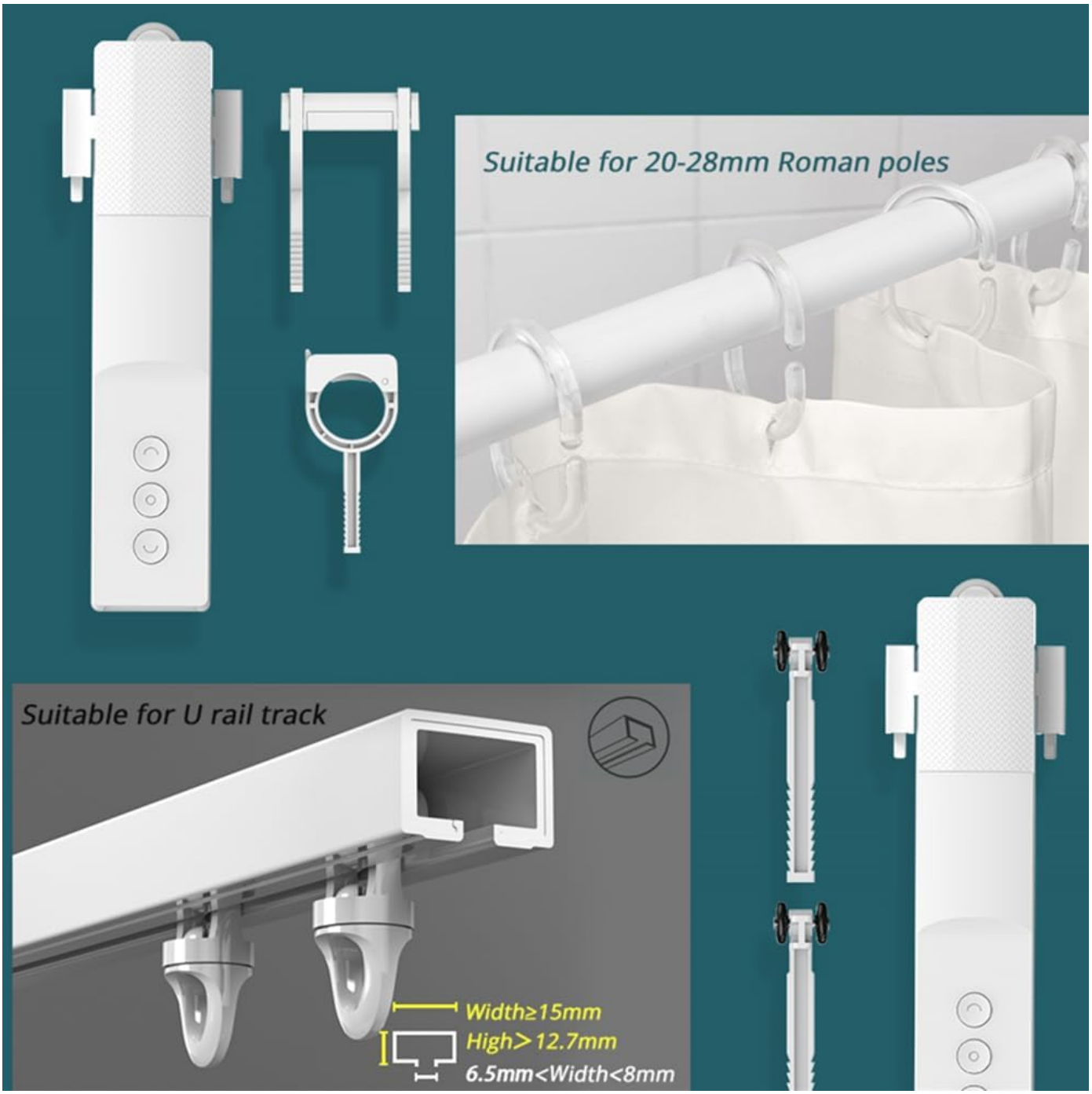


Image: Detailed diagram illustrating how to attach the motor to a Roman rod, highlighting compatibility with 20-28mm poles.

For I-Rails (bottom width ≥ 12mm, ≤ 14mm, High ≥ 12mm):

1. Choose the correct I-rail adapter.
2. Slide the adapter into the I-rail track.
3. Attach the motor to the adapter, ensuring a secure fit.



Image: Visual guide for installing the motor on an I-rail track, specifying the required dimensions for proper fit.

For U-Rails (bottom slotting width ≤ 8mm, Width ≥ 15mm, High ≥ 7mm):

1. Select the appropriate U-rail adapter.
2. Insert the adapter into the U-rail track.
3. Connect the motor to the adapter, making sure it is stable.

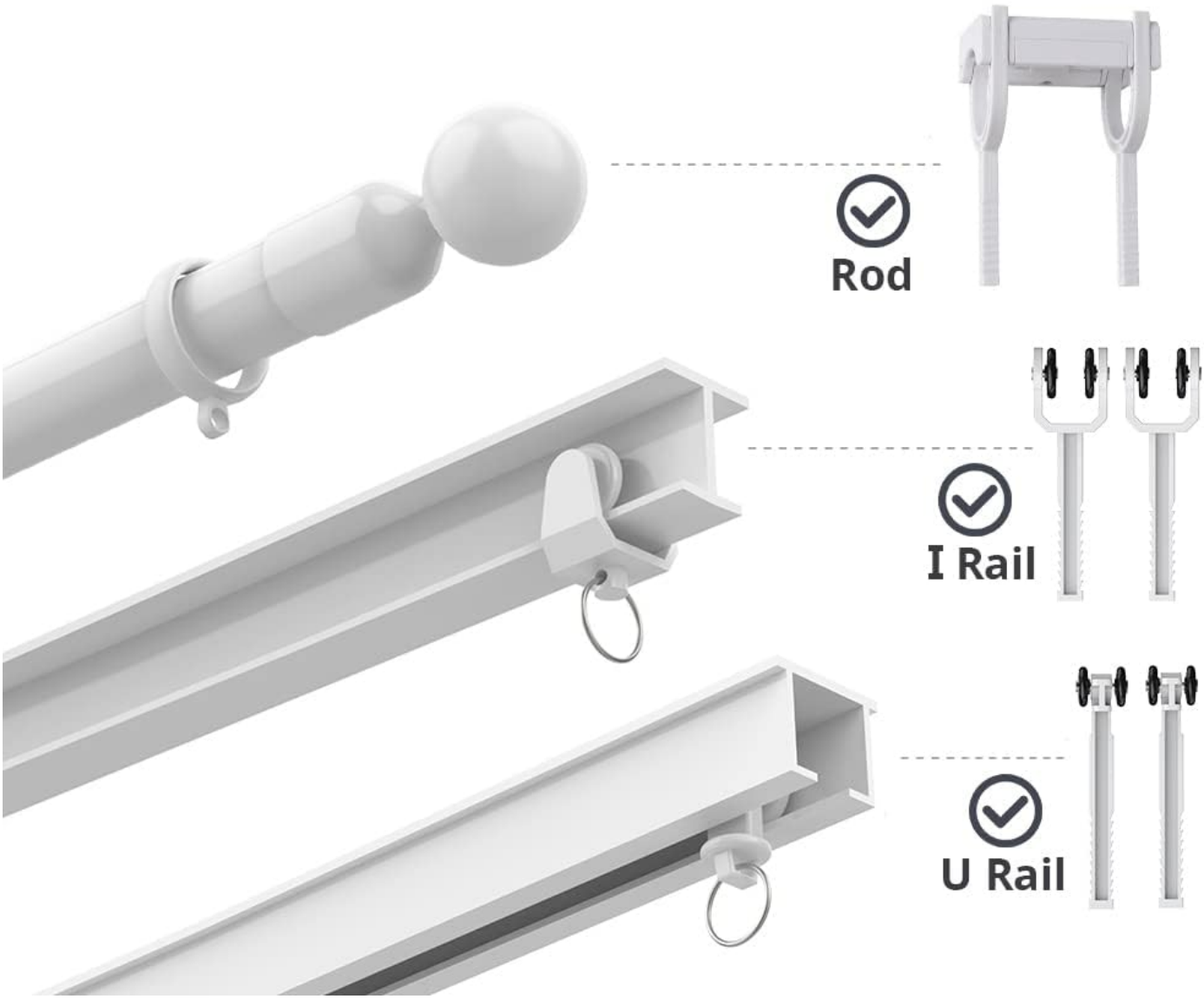


Image: Illustration demonstrating the installation process for U-rail tracks, including critical width and height measurements.



Image: A comprehensive visual displaying the compatibility of the Blindsmart motor with Rod, I-Rail, and U-Rail curtain systems.

4.3 Pairing with Tuya / Smart Life App

To enable smart control features, you need to pair your motor with the Tuya or Smart Life app via a Tuya Zigbee hub.

1. Download the Tuya Smart or Smart Life app from your mobile device's app store.
2. Register or log in to your account.
3. Ensure your Tuya Zigbee hub is set up and connected to the app.
4. In the app, tap '+' to add a new device. Select 'Curtain Motor' or search for the device type.
5. Follow the on-screen instructions to put the motor into pairing mode (usually by pressing and holding a button on the motor until an indicator light flashes).
6. Once detected, add the device and rename it for easy identification (e.g., "Living Room Curtains").

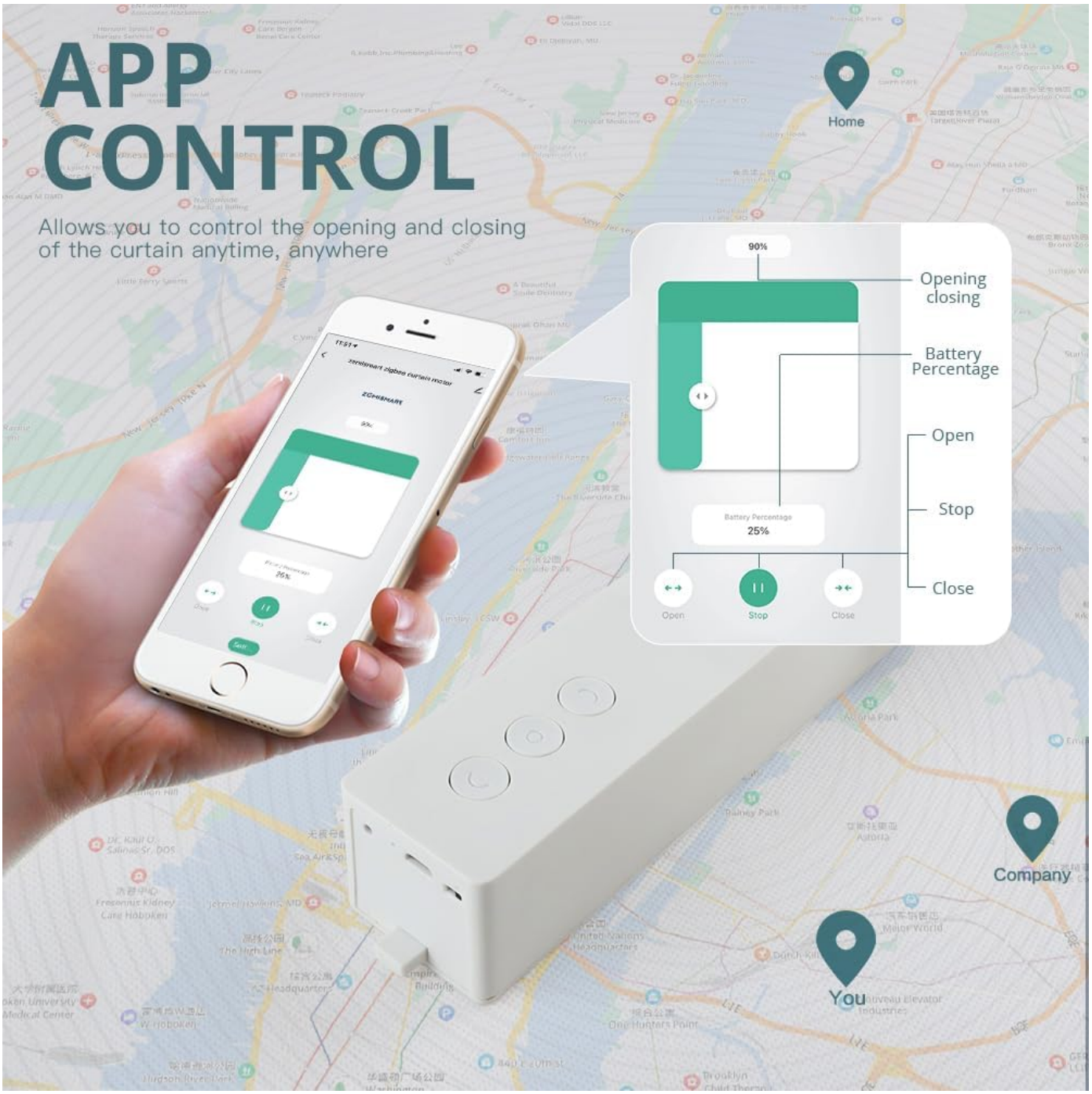


Image: The mobile application interface for controlling the smart curtain motor, showing options for opening, closing, and setting specific percentages.

4.4 Setting Open and Close Limits

After installation and pairing, you must set the open and close limits for your curtains to ensure smooth operation and prevent damage.

1. Manually move the curtain to its fully closed position.
2. In the app, or using the physical buttons on the motor, set this as the 'closed' limit. Refer to the app's specific instructions for limit setting.
3. Manually move the curtain to its fully open position.
4. Set this as the 'open' limit in the app or via the motor's buttons.
5. Test the limits by sending open and close commands to ensure the curtains stop at the desired positions.

5. Operating Instructions

5.1 Manual Control

The motor has physical buttons for basic control:

- **Open Button:** Press to open the curtains.
- **Close Button:** Press to close the curtains.
- **Stop Button:** Press to stop the curtains at any position.

5.2 App Control

Control your curtains remotely using the Tuya Smart or Smart Life app from anywhere with an internet connection.

- Open the Tuya Smart or Smart Life app.
- Select your Blindsmart Smart Curtain Motor from the device list.
- Use the virtual buttons or slider to open, close, or stop your curtains at a desired percentage.



Image: The mobile application interface for controlling the smart curtain motor, showing options for opening, closing, and setting specific percentages.

5.3 Voice Control (Alexa / Google Assistant)

Integrate your motor with Amazon Alexa or Google Assistant for convenient voice control. (Requires Tuya Zigbee Hub and linking accounts in the respective apps).

- Ensure your Tuya/Smart Life account is linked to your Alexa or Google Home app.
- Discover new devices in your Alexa or Google Home app.
- Use commands such as:
    - "Alexa, open [Curtain Name]"
    - "Hey Google, close [Curtain Name]"
    - "Alexa, set [Curtain Name] to 50%"

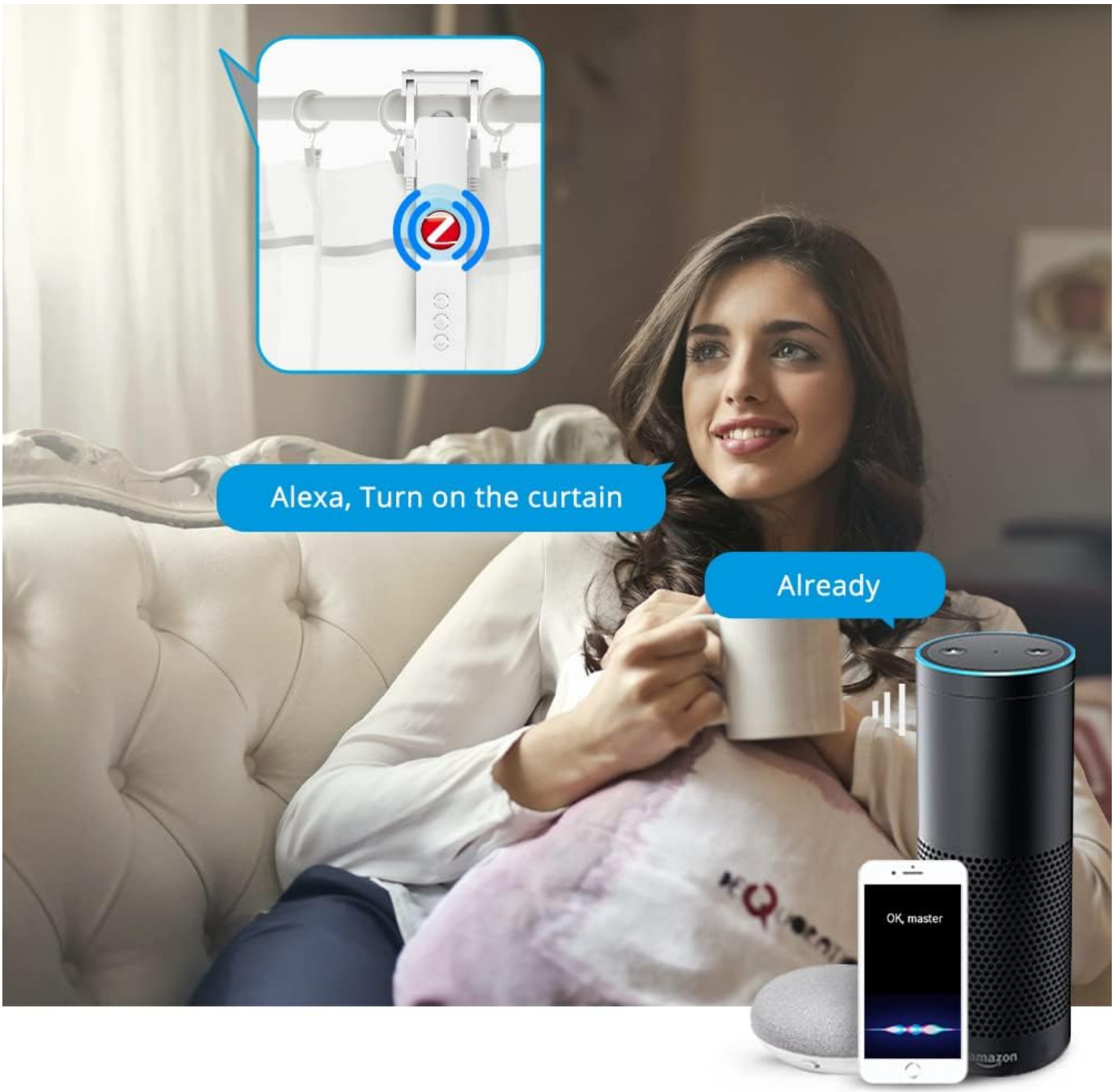


Image: A user interacting with a smart speaker to control their curtains via voice commands, demonstrating the integration with Alexa or Google Assistant.

5.4 Timer Control

Set schedules for your curtains to open or close automatically at specific times using the Tuya/Smart Life app.

1. In the Tuya Smart or Smart Life app, navigate to your curtain motor's settings.
2. Look for the 'Schedule' or 'Timer' option.
3. Create new schedules, specifying the time, action (open/close), and days of the week.
4. Save your schedules.

5.5 Single vs. Double Open Configuration

The motor supports both single-sided and center-opening curtain configurations.

- **Single Open:** If you want to open the curtains from one side (e.g., left to right), you will need one motor.
- **Double Open:** If you want to open the curtains from the center, you will need two motors, one for each side. Ensure they are installed oppositely so they run to the same side when opening/closing.

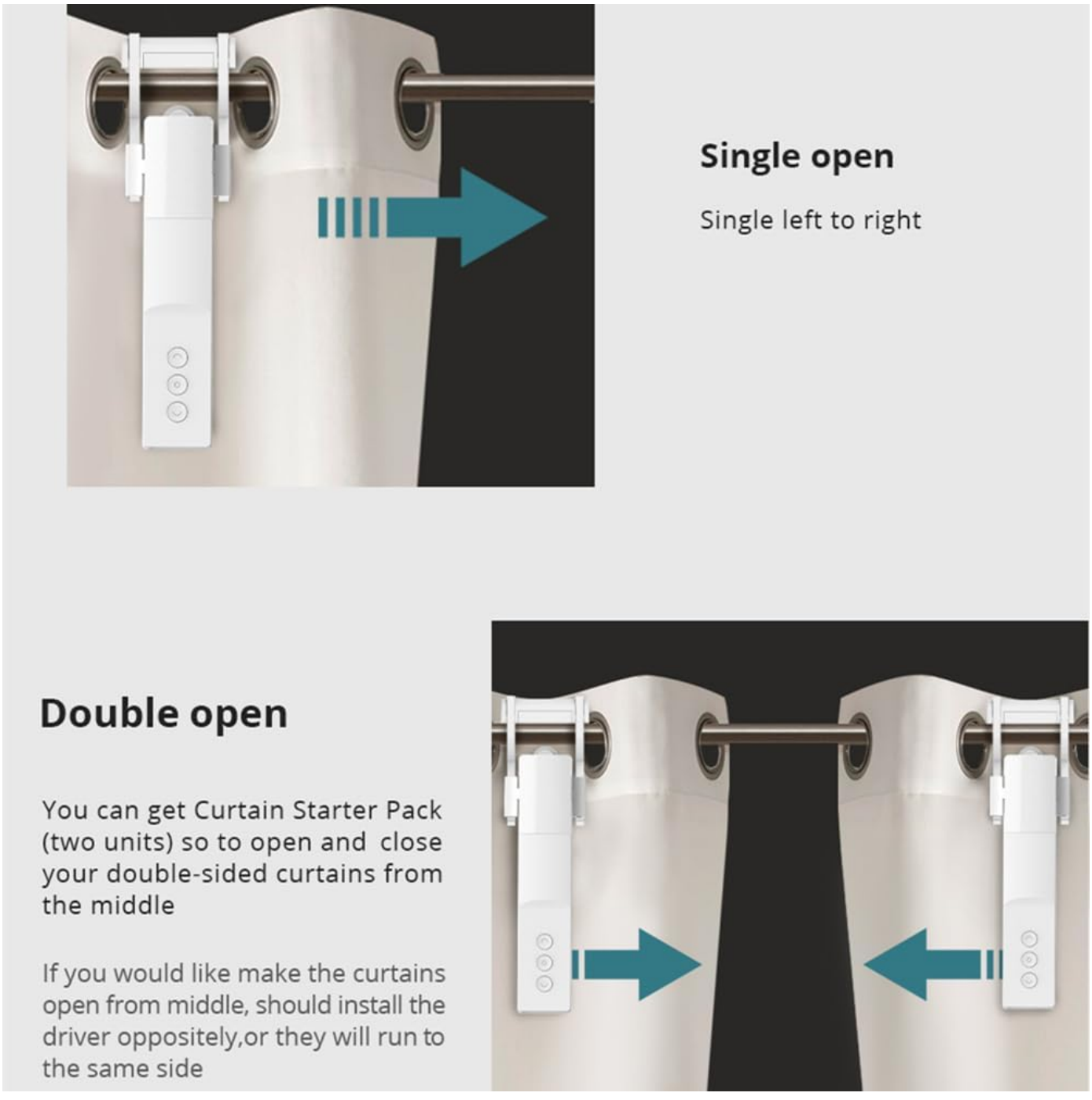


Image: A diagram illustrating the difference between single-sided curtain opening (one motor) and double-sided opening from the center (two motors).

6. Maintenance

6.1 Charging the Battery

The motor is equipped with a large 3000 mAh rechargeable battery. Battery life varies based on usage, track length, and curtain type, typically lasting 1-2 months on a single charge.

- When the battery is low, the indicator light on the motor will signal, and you may receive a notification in the app.
- Connect the provided charging cable to the motor's charging port and a standard USB power adapter.
- The indicator light will show charging status and turn off when fully charged.
- If you have the optional solar panel, ensure it is positioned to receive adequate sunlight for continuous charging.



Image: The smart curtain motor shown with an optional solar panel, illustrating how it can be charged without removal for convenience.

6.2 Cleaning

Wipe the motor with a soft, dry cloth. Do not use abrasive cleaners or immerse the device in water.

7. Troubleshooting

Problem	Possible Cause	Solution
Motor not responding to commands.	Low battery; Not paired; Out of Zigbee range; Hub offline.	Charge the motor. Re-pair the device with the app. Ensure the Zigbee hub is online and within range.
Curtains not opening/closing fully.	Limits not set correctly; Obstruction on track; Curtains too heavy.	Re-set the open/close limits in the app. Check for any obstructions on the curtain track. Ensure curtain weight is within the 20-pound limit.
Motor making unusual noise.	Obstruction; Improper installation; Worn parts.	Check for obstructions. Re-install the motor to ensure it's properly aligned. If noise persists, contact customer support.
Voice control not working.	App accounts not linked; Device not discovered by voice assistant.	Ensure your Tuya/Smart Life account is correctly linked to Alexa/Google Home. Ask the voice assistant to "discover devices."

8. Specifications

- **Product Name:** Zigbee Curtain Driver
- **Model:** ZM85EL-2Z
- **Dimensions:** 8.07 x 1.57 x 1.57 inches (205 x 40 x 37 mm)
- **Item Weight:** 1.32 pounds
- **Rated Power:** 5V 1A
- **Battery:** 3000 mAh Nonstandard Battery (included)
- **Battery Cell Type:** Lithium
- **Operation Temperature:** -5°C to 50°C
- **Working Humidity:** No condensation
- **Max Load:** Up to 20 pounds (approx. 10 kg)
- **Compatibility:** Tuya Zigbee Hub required for App/Voice control. Compatible with Alexa, Google Home.
- **Supported Curtain Types:** U-Rails (bottom slotting width ≤ 8mm), I-Rails (bottom width ≥ 12mm, ≤ 14mm), Roman Rods (20-28mm).
- **Country of Origin:** China

9. Official Product Video

Watch the official instruction video for a visual guide on setting up and using your Blindsmart Smart Curtain Motor.

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Video: Smart Curtain Motor - Instruction. This video provides a step-by-step demonstration of the product's features and installation process.

10. Warranty and Support

Blindsmart products come with a standard manufacturer's warranty. For detailed warranty information, technical support, or service inquiries, please visit the official Blindsmart store on Amazon or contact their customer service directly.
Blindsmart Store: https://www.amazon.com/stores/Blindsmart/page/1358D459-9FD5-4820-B0DA-53D7F14223AA

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Example: How do I reset this device or fix this error?

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Model number, symptoms, what you tried, or the section of the manual you are using.

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