



Hemtick

# ENGINEERING CHANGE ORDER

REQUEST DATE	1/22/2024	REQUESTED BY	H. AMEZQUITA	REQUESTED RELEASE DATE	1/26/2024	ECO #	<b>ECO-00118</b>
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AFFECTED PRODUCT LINES	ALL MOTORIZED PRODUCTS (A-OK)
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REASON FOR CHANGE	INTRODUCTION OF NEW MOTOR AND MINI HUB
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DESCRIPTION OF CHANGE	RELEASE NEW PART NUMBERS FOR AM25 TYPE C RADIO FREQUENCY (RF) + BLUETOOTH LOW ENERGY (BLE) MOTORS AND MINI MULTI-MODE GATEWAY DEVICE HUB
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COST IMPACT	N/A
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DOCUMENT / PART NUMBER	OLD REV	NEW REV	DOCUMENT/ PART DESCRIPTION	CHANGE DESCRIPTION	FORM, FIT, OR FUNCTION AFFECTED <small>Yes, or No</small>	PART DISPOSITION <small>(USE AS IS) (REWORK) (SCRAP) (OBSOLETE) (RETURN TO VENDOR) (OTHER)</small>
MPMI1542	-	-	MOTOR ASSY, AM25 TYPE C RF BLE 38MM	RELEASE NEW PART NUMBER	NO	N/A
MPMI1543	-	-	HUB, MINI MULTI MODE GATEWAY, WHITE	RELEASE NEW PART NUMBER	NO	N/A

ADDITIONAL INFORMATION	
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**AFFECTED DOCUMENTS / PROCESSES (CHECK ALL THAT APPLY)**

BOM / CONFIG	<input checked="" type="checkbox"/>	PRODUCT / PART SPEC	<input checked="" type="checkbox"/>	QC CHECKLIST	<input type="checkbox"/>	PART DRAWING	<input type="checkbox"/>	ASSEMBLY DRAWING	<input type="checkbox"/>	INSTR SHEET	<input checked="" type="checkbox"/>	PROCESS VISUAL AIDS	<input checked="" type="checkbox"/>	WORK INSTRUCTIONS	<input checked="" type="checkbox"/>
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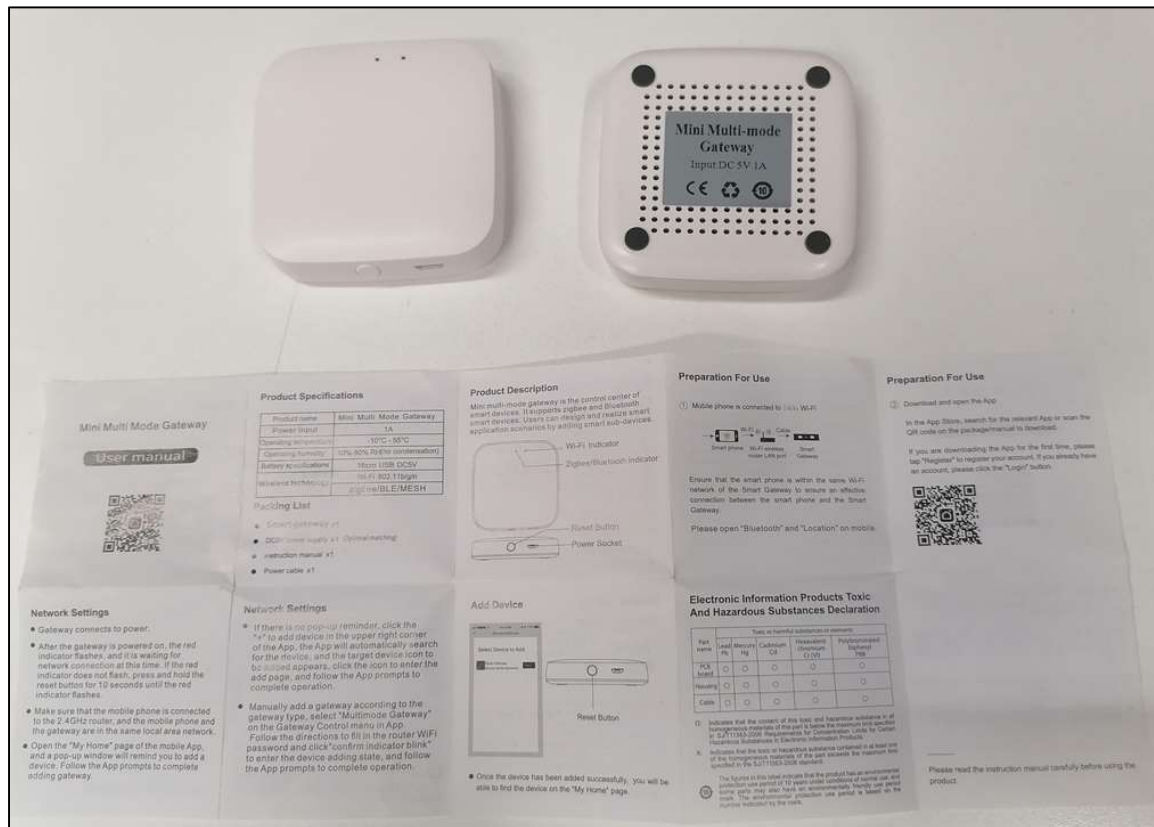
**ECO APPROVALS ROUTING**

APPROVER	APPROVAL REQUIRED	APPROVER NAME	APPROVAL STATUS	APPROVED ON	NOTES
PHASE II MANAGEMENT (US - DL)	<input checked="" type="checkbox"/>	T. DAVIDSON	APPROVED	01/22/2024	
PHASE II PROD DEV (US - NY)	<input checked="" type="checkbox"/>	L. HUNT	APPROVED	01/22/2024	
MANAGEMENT (MX)	<input checked="" type="checkbox"/>	L. MONTEJO	APPROVED	01/22/2024	
QC / ENG (MX)	<input checked="" type="checkbox"/>	H. AMEZQUITA	APPROVED	01/22/2024	
IT (MX)	<input checked="" type="checkbox"/>	E. CASTELLANOS	APPROVED	01/22/2024	
PRODUCTION (MX)	<input type="checkbox"/>				
MATERIALS (MX)	<input type="checkbox"/>				

## ACTIONS REQUIRED

BOM / CONFIG	☒	WILL BE MODIFIED BY IT (MX)
PRODUCT / PART SPEC	☒	WILL BE MODIFIED QC / ENG (MX)
QC CHECKLIST	☐	WILL BE MODIFIED QC / ENG (MX)
PART DRAWING	☐	WILL BE MODIFIED QC / ENG (MX)
ASSEMBLY DRAWING	☐	WILL BE MODIFIED QC / ENG (MX)
INSTR SHEET	☒	WILL BE MODIFIED PHASE II (USA)
PROCESS VISUAL AIDS	☒	WILL BE MODIFIED QC / ENG (MX)
WORK INSTRUCTIONS	☒	WILL BE MODIFIED QC / ENG (MX)

## PICTURES, DRAWINGS, ETC.



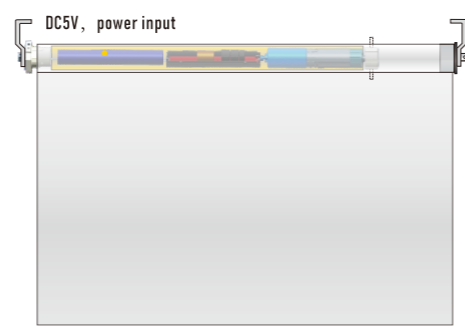
**MPMI1543 HUB, MINI MULTI MODE GATEWAY, WHITE**

# MOTOR PROGRAM INSTRUCTION



MOTOR FEATURES

- Energy saving design, powered by large capacity Li-ion battery;
- Motor can be control by RF remote and APP control via Bluetooth communication protocol
- Easy operation intelligent motor; Motor program settings can be do either by remote or by smart phone APP
- Patented smooth and quiet design; soft start and soft stop; running noise level lower to 35dB
- Low battery warning mode remind customer to charge motor in time
- motor can set 6 limits, include top/bottom limits and 4 favorite intermediate limits
- various user friendly features on APP control via Bluetooth



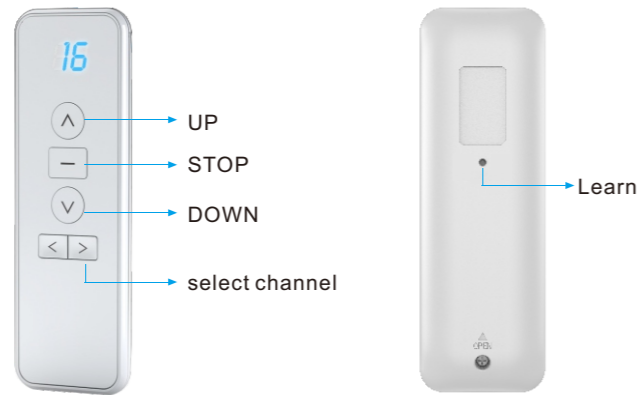
POWER SOURCE & CHARGING

- Built-in Li-ion battery supply. Recharged using an external charging kit include a charger block and one USB-C charging cable.
- Motor one full charge ca be used for 4-6 months vary with shade use frequency.
- Charging time is 6-8 hours;

Tips:  
 1. For longer life service of the motorized shade, we suggest all li-ion battery motor need to charge battery every 6 months to avoid battery over discharge  
 2. Please charge the motor for around 6 hours until you see the green light before first use



## remote illustration

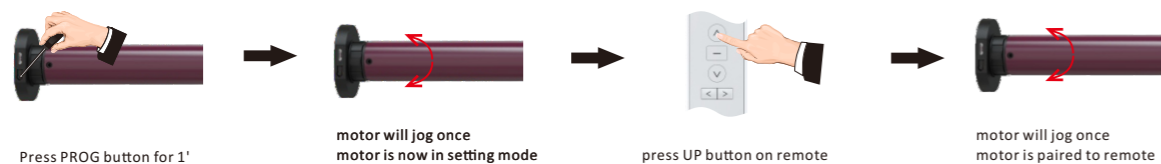


## Operation Instruction

### 1. Power ON/OFF \* After switching off power, the motor will not be able to receive remote signals.



### 2. Pairing remote \* If there is no action in 10 seconds, the motor will exit programming automatically.

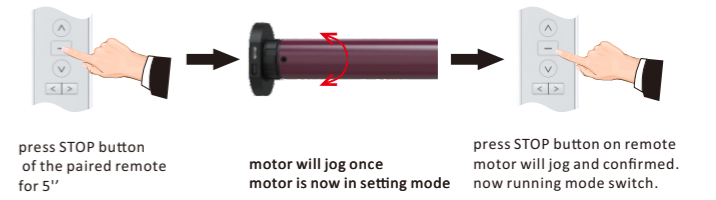


### 3. Copy new remote

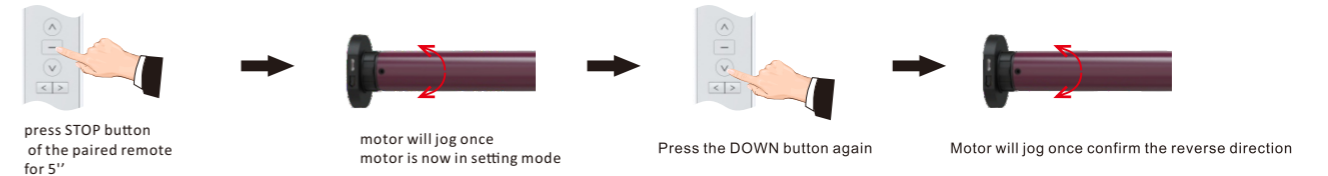


### 4. Change running mode (two modes)

(Continuously mode: when you hit the up/down button, motor will immediately run to next limit)  
 (Jogging move mode: when you hit the up/down button less than 1", motor only jog, keep press for more than 1", motor will keep running)



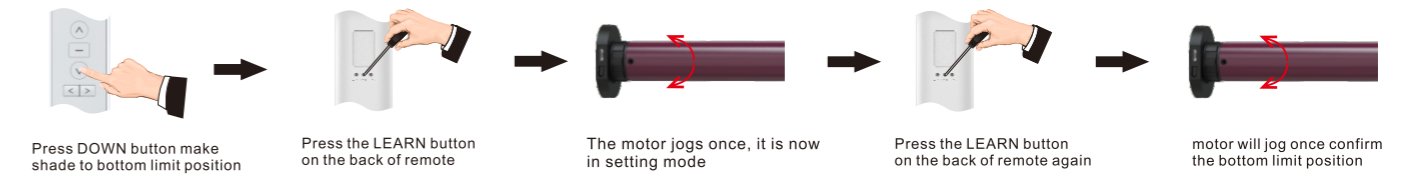
### 5. Change direction



### 6. TOP limit setting

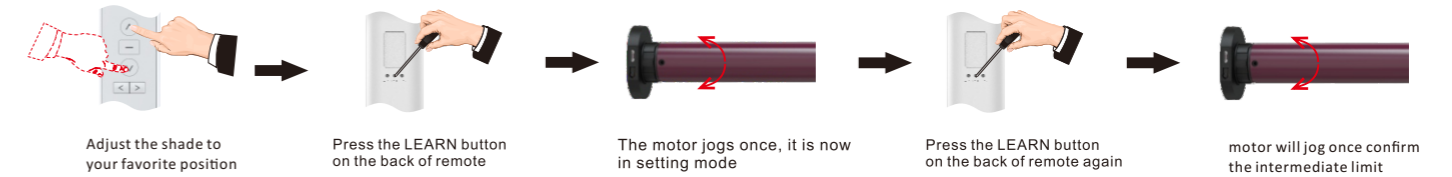


### 7. Bottom limit setting

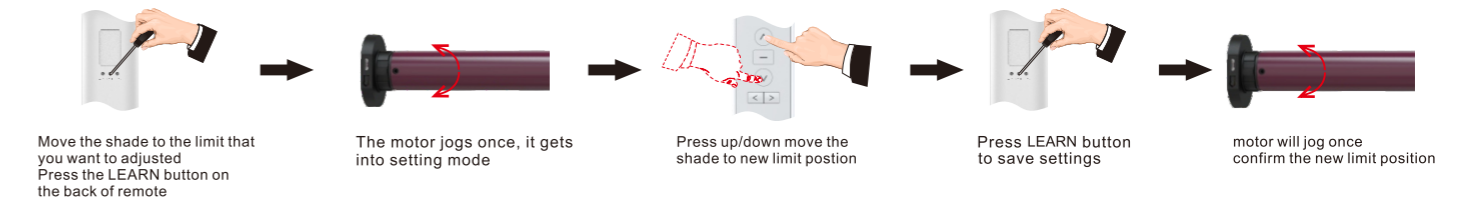


### 8. Other limit position setting \* If there's no any action within 30's, the motor will exit from limit position preparation automatically

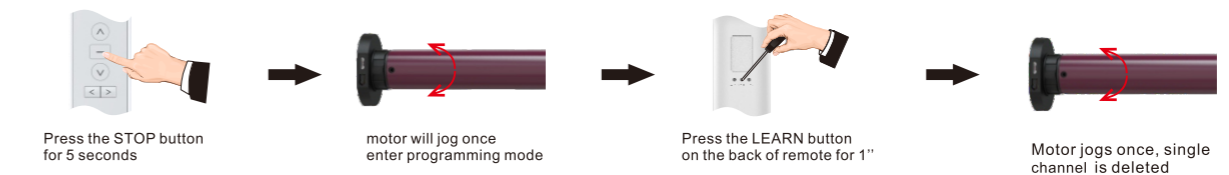
You can set 4 limits between top and bottom limits



### 9. Limit position fine-tuning

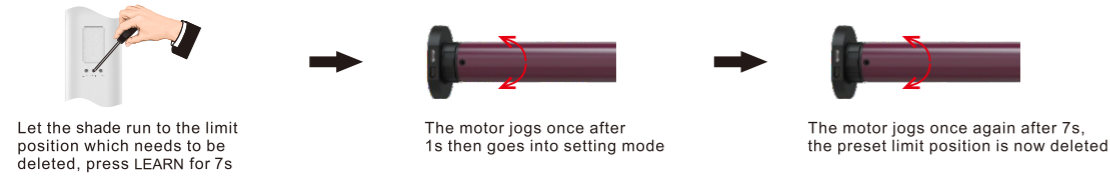


### 10. Delete Single Channel program (if you want to remove one channel's setting, pls do as follow)



## 11. Delete the limit position

tips: the first limit can't be deleted until you delete all the settings (restore to factory mode)



Let the shade run to the limit position which needs to be deleted, press LEARN for 7s

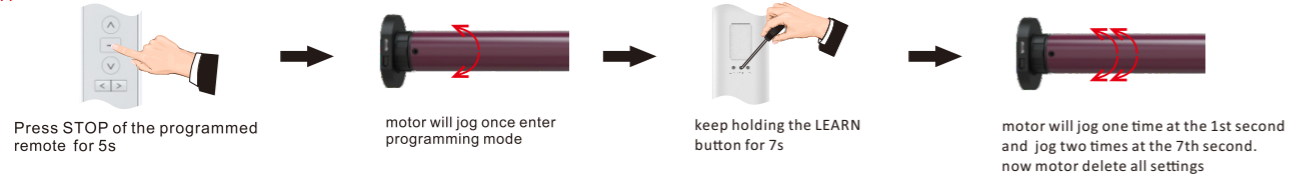
The motor jogs once after 1s then goes into setting mode

The motor jogs once again after 7s, the preset limit position is now deleted

## 12. Delete all settings (restore to factory mode)

(Two methods, one on the remote, another one on motor head)

### Method A



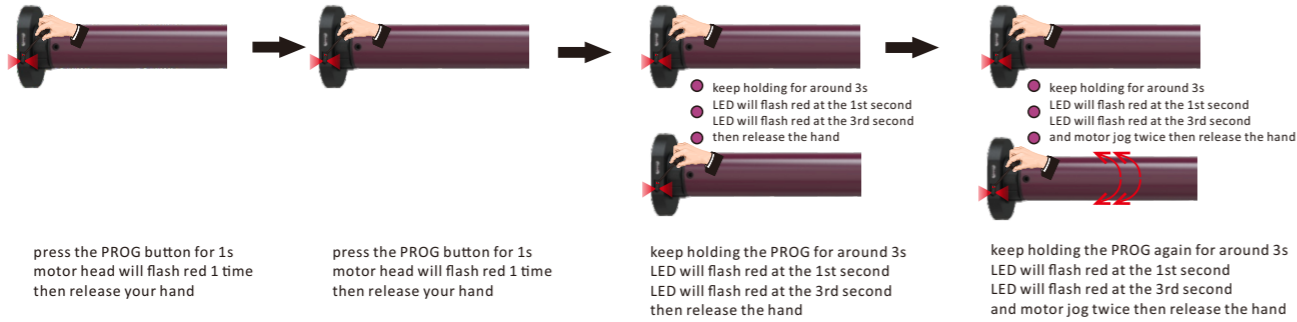
Press STOP of the programmed remote for 5s

motor will jog once enter programming mode

keep holding the LEARN button for 7s

motor will jog one time at the 1st second and jog two times at the 7th second. now motor delete all settings

### Method B



press the PROG button for 1s motor head will flash red 1 time then release your hand

press the PROG button for 1s motor head will flash red 1 time then release your hand

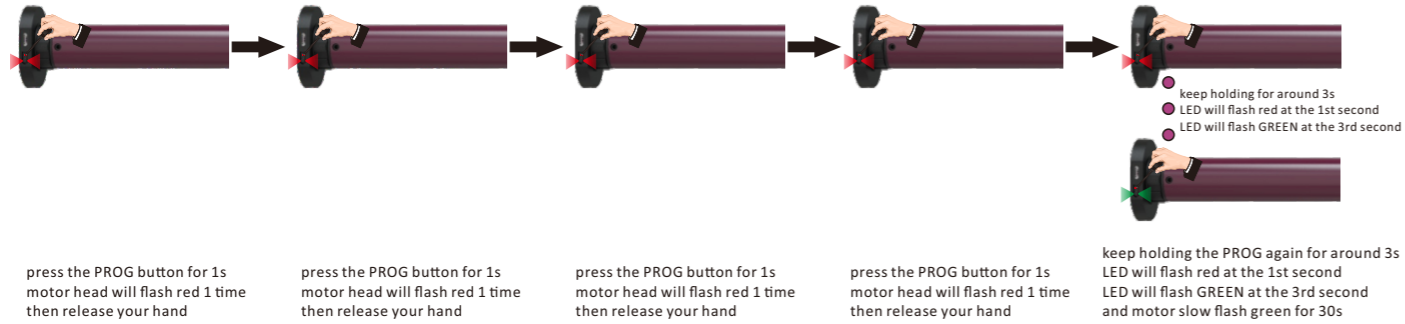
keep holding the PROG for around 3s LED will flash red at the 1st second LED will flash red at the 3rd second then release the hand

keep holding the PROG again for around 3s LED will flash red at the 1st second LED will flash red at the 3rd second and motor jog twice then release the hand

## 13. Reset motor Bluetooth

\* Make sure the interval between every actions less than 1s

when you receive your motor, usually you don't need to reset motor Bluetooth. Just open your APP and scan devices, the APP will automatically scan the Bluetooth motor around you. If your APP can't find the Bluetooth motor around you, then you can reset the motor Bluetooth. Motor will refresh the Bluetooth signal.



press the PROG button for 1s motor head will flash red 1 time then release your hand

press the PROG button for 1s motor head will flash red 1 time then release your hand

press the PROG button for 1s motor head will flash red 1 time then release your hand

press the PROG button for 1s motor head will flash red 1 time then release your hand

keep holding the PROG again for around 3s LED will flash red at the 1st second LED will flash GREEN at the 3rd second and motor slow flash green for 30s

## Supplemental Instruction

- Max. 6 limit stop positions. (Upper limit/ Lower limit and 4 intermediate limit positions)
- When the first limit position is the up limit position, all other limit positions can only below this position; the same thing, when the first limit position is the down limit position, all other limit positions can only be set above this position. can't be delete
- Every limit position can be fine-turned or deleted separately (the first limit position can only be fine-tuned but can't be deleted separately. It can be deleted when delete all memories)
- Under the jog mode, short press the up or down button, motor jogs once. Press the up or down button for more than 1s, and the engine moves to the limit
- Under the continuous move mode, quickly press the up or down button twice on the transmitter, and the motor will go directly to the up or down limit stop position without stopping at the middle limit position.
- The light is red when charging and will turn to green when fully charged.

### Battery shortage alarm:

The motor will step into jog mode and continuously beep when the battery capacity is below 6.8V, which means you must charge the motor now.

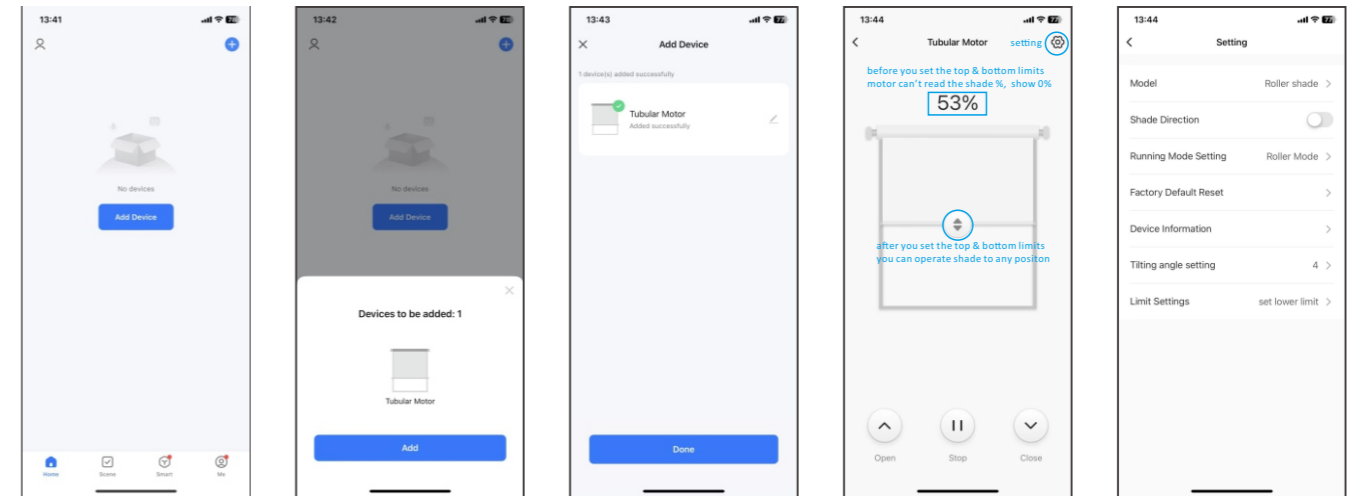
### Trouble Shooting

Item	Problem	Matter	Shooting
1	The motor doesn't work and no any move	A. Power is cut off B. Shortage voltage protection C. Incorrect installation leads to motor stucking	A. Switch it on by button B. Start the motor after charging it for 6 hours C. Check and make sure all parts are installed properly
2	The motor stops suddenly during operation	A. Shortage voltage protection B. Protect the motor when encounter obstacle	A. The motor will resume to work after being charged B. Check if there is something stuck or overloading

## APP control operation instruction



### Bluetooth local control

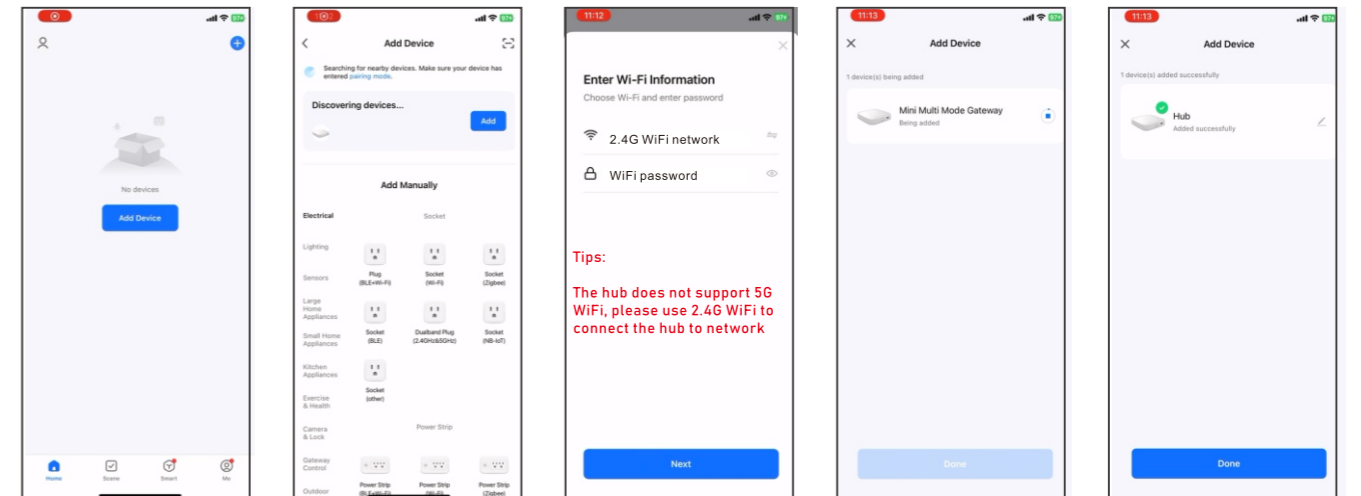


1. Register and login "Smart Life" APP
2. Click "Add Device" the APP will search devices.
3. When the APP discover BLE motor, choose "Add"

4. Choose "Done" when motor successfully add to the APP. Now you can control motor

5. now you can click "open" "stop" "close" to control your shade.
6. Make sure to check your shade had set the limits with remote, if not you can also set the limits under setting menu. then you could slide the shade to any favorite position. Enjoy your smart BLE local control

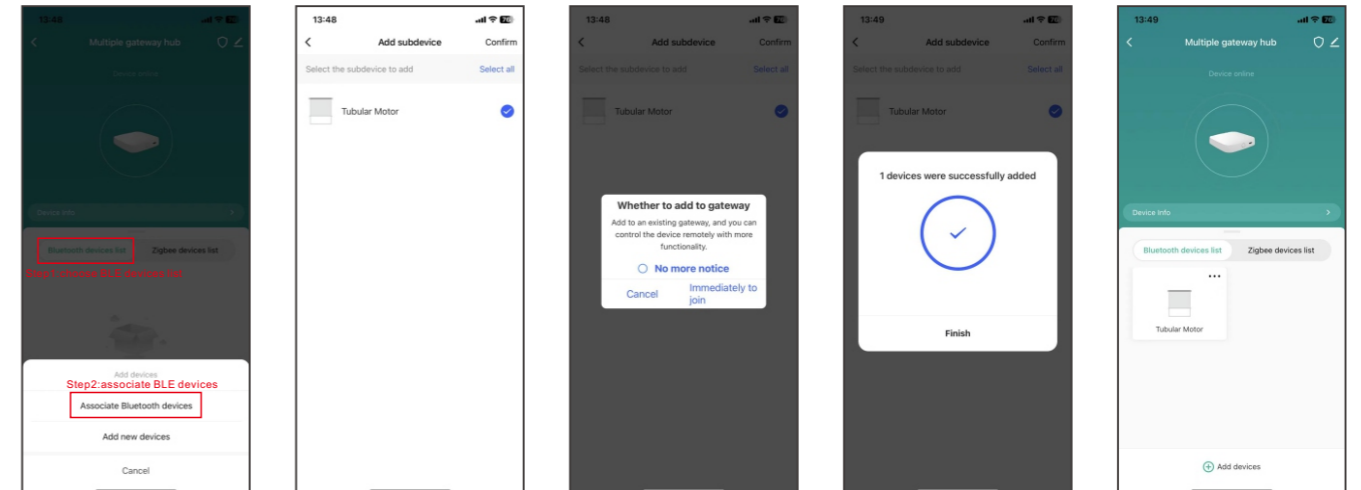
### Bluetooth remote control (To achieve remote access control shades outside your home, you must need to buy a Bluetooth Gateway Hub)



Tips:  
The hub does not support 5G WiFi, please use 2.4G WiFi to connect the hub to network

1. Register and login "Smart Life" APP
2. Click "Add Device", the APP will search devices.
3. When the APP discover the hub, choose "Add"

4. Choose 2.4G WiFi and input WiFi password to enable the hub to network.
5. Click "Next", the APP will automatically add the hub. When the hub successfully added, click "Done"



6. Choose "Bluetooth devices list"
7. Click "Add Device"
8. Choose "Associate Bluetooth devices"

9. Choose the local control shades that you want to do remote access control
10. Click "Immediately to join" then these shades will bonded to this hub
11. Now you can control your shades outside home under the Bluetooth devices list

# Mini Multi Mode Gateway

## User manual



### Product Specifications

Product name	Mini Multi Mode Gateway
Power input	1A
Operating temperature	-10°C - 55°C
Operating humidity	10%-90% RH(no condensation)
Battery specifications	Micro USB DC5V
Wireless technology	Wi-Fi 802.11b/g/n zigbee/BLE/MESH

### Packing List

- Smart gateway x1
- DC5V power supply x1 (Optional matching)
- Instruction manual x1
- Power cable x1

### Network Settings

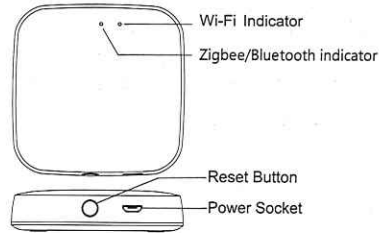
#### Network Settings

- Gateway connects to power.
- After the gateway is powered on, the red indicator flashes, and it is waiting for network connection at this time. If the red indicator does not flash, press and hold the reset button for 10 seconds until the red indicator flashes.
- Make sure that the mobile phone is connected to the 2.4GHz router, and the mobile phone and the gateway are in the same local area network.
- Open the "My Home" page of the mobile App, and a pop-up window will remind you to add a device. Follow the App prompts to complete adding gateway.

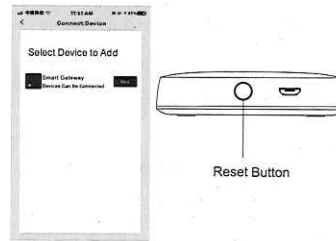
- If there is no pop-up reminder, click the "+" to add device in the upper right corner of the App, the App will automatically search for the device, and the target device icon to be added appears, click the icon to enter the add page, and follow the App prompts to complete operation.
- Manually add a gateway according to the gateway type, select "Multimode Gateway" on the Gateway Control menu in App. Follow the directions to fill in the router WiFi password and click "confirm indicator blink" to enter the device adding state, and follow the App prompts to complete operation.

### Product Description

Mini multi-mode gateway is the control center of smart devices. It supports zigbee and Bluetooth smart devices. Users can design and realize smart application scenarios by adding smart sub-devices.



### Add Device



- Once the device has been added successfully, you will be able to find the device on the "My Home" page.

### Preparation For Use

- ① Mobile phone is connected to 2.4GHz Wi-Fi



Ensure that the smart phone is within the same Wi-Fi network of the Smart Gateway to ensure an effective connection between the smart phone and the Smart Gateway.

Please open "Bluetooth" and "Location" on mobile.

### Preparation For Use

- ② Download and open the App

In the App Store, search for the relevant App or scan the QR code on the package/manual to download.

If you are downloading the App for the first time, please tap "Register" to register your account. If you already have an account, please click the "Login" button.



### Electronic Information Products Toxic And Hazardous Substances Declaration

Part name	Toxic or harmful substances or elements				
	Lead Pb	Mercury Hg	Cadmium Cd	Hexavalent chromium Cr (VI)	Polybrominated biphenyl PBB
PCB board	○	○	○	○	○
Housing	○	○	○	○	○
Cable	○	○	○	○	○

○: Indicates that the content of this toxic and hazardous substance in all homogeneous materials of this part is below the maximum limit specified in SJ/T11363-2006 Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products;

X: Indicates that the toxic or hazardous substance contained in at least one of the homogeneous materials of the part exceeds the maximum limit specified in the SJ/T11363-2006 standard.

♻️ The figures in this label indicate that the product has an environmental protection use period of 10 years under conditions of normal use, and some parts may also have an environmentally friendly use period mark. The environmental protection use period is based on the number indicated by the mark.

Please read the instruction manual carefully before using the product