Zigbee Motor with Built-in Li-ion Battery (USB Charging) User Manual
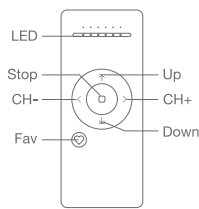
01 Product Info

Antenna
Zigbee antenna
LED
USB
Motor Head Button(H)

Working temperature
55℃
-10℃
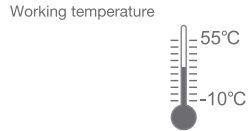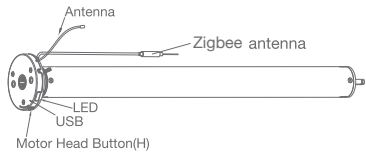
Remote Controller Buttons

LED
Stop
CH-
Fav
Up
CH+
Down
Prg

CR2460 3V
CR2460

Power Options

Models & Parameters (for details about other parameters, see the product nameplate)

JCD	25	S	LE	U	11	30	Z
DC Motor	Tube Diameter: 25 mm	S: Standard Q: Quiet P: Performance	LE: With built-in Li-ion battery	USB Port	Torque: 1.1 N.m	Speed: 30 rpm	Zigbee module

02 Caution!

1. This product is for indoor use only, do not use outdoor or in humid environments.
2. This motor has a built-in rechargeable Li-ion battery pack with integrated charge management. Max input voltage: 5V/2A.
3. Please charge it before using for the first time, make sure it is fully charged before first use
4. When the battery voltage is low, LED will flicker 8 times to give a low-voltage alarm when motor starts.
5. The motor will jog in operation, please do not proceed to the next step until it complete.
6. During operation, the effective interval of the transmitter button operation is 10 seconds. If there is no effective transmitter operation for more than 10 seconds, it will automatically exit the current mode.
7. The motor can be paired with max 10 controllers.
8. Please do not use motor when charging.
9. Upper&Lower limits cannot be set at the same position, limits saved even power off.
10. The motor runs constantly for at 6 mins max without any other operation.
11. Do not lift the motor by grabbing the wire or antenna.
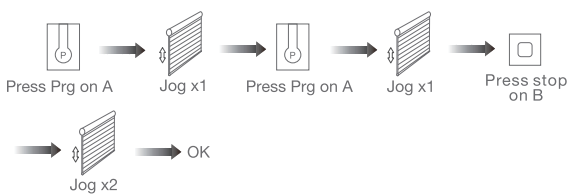
03 Instructions

Motor head button (H) functions

Functions	Operation	Jogging time	LED lamp flickers	Note
Control the UP/STOP/DOWN of the Shade	Short press	/	/	Can only operate after the limits are set and motor is not in sleep mode
Adding/Removing Controller	Hold for 2s	Jog*1	Flicker*1	Operation needs be done within 10s
Zigbee Connecting	Hold for 6s	Jog*2	Flicker*2	Entering Zigbee connection mode
Direction Reverse	Hold for 10s	Jog*3	Flicker*3	All settings saved after direction reversed
Reset	Hold for 16s	Jog*4	Flicker*4	All settings deleted

a.Pairing Motor with Controller

Way 1: Power on, add a new controller

H button
H button x2s → Jog x1 → Select channel → Press Prg within 10s → Jog x2 → OK
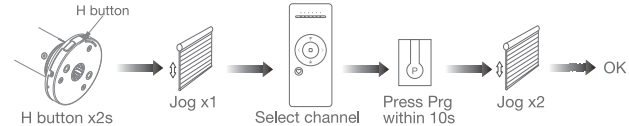
Way 2: Power on, add controller B via pre-existing controller A

Press Prg on A → Jog x1 → Press Prg on A → Jog x1 → Press stop on B → Jog x2 → OK

Note: Pairing can not be done under group channel or 0 channel.

b.Direction Reverse

Correct
Up → Shade goes up → Down → Shade goes down

If the limits are not set, and direction goes opposite.
Fav & Stop x2s → Jog x1 → Direction reversed

If limits are set and direction goes opposite.
Prg → Jog x1 → Up x1 → Jog x1 → Down x1 → Jog x1 → OK
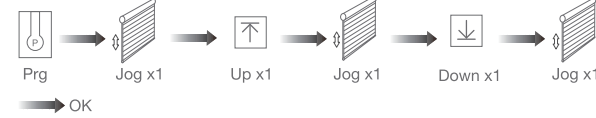
Note: Do reverse the direction when it goes opposite.

c.Upper&Lower Limits Setting

Up or Down → Fix upper point → Up & Fav x2s → Jog x2 → Upper limit set

Up or Down → Fix lower point → Down & Fav x2s → Jog x2 → Lower limit set
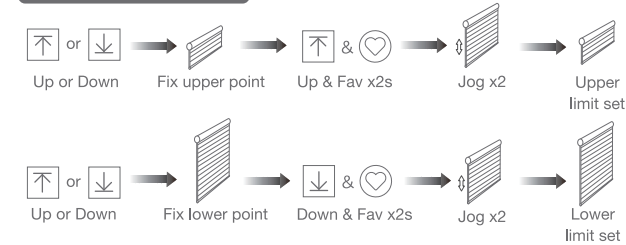
Note: Upper&Lower limits cannot be set at the same point.
Before limits set, the motor will run in one-touch mode by pressing Up or Down, hold Up or Down for 2s, motor runs in constant-touch mode.
Once limits set, press Up or Down, motor runs in constant-touch mode.

d.One-touch/Constant-touch Mode

Constant-touch ------>One-touch
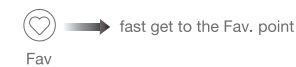Prg → Jog x1 → Stop → Jog x1 → Stop → Jog x1 → OK
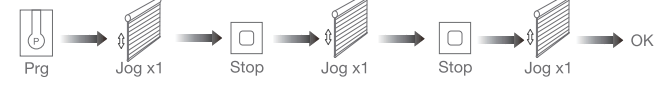
Same operation can toggle from one-touch to constant-touch mode.

Note: When motor in one-touch mode, hold Up or Down for more than 2s, it will run in constant-touch mode.
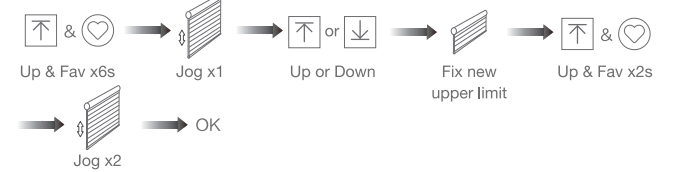
e.Setting and Cancelling Favorite Position

Setting
Up or Down → Fix Fav. position → Fav & Stop x2s → Jog x2 → Fav. position set

Cancelling
Shade is at Fav. position → Fav & Stop x2s → Jog x1 → Fav. position Cancel

f.Hot key to the Fav. Position

Fav → fast get to the Fav. point
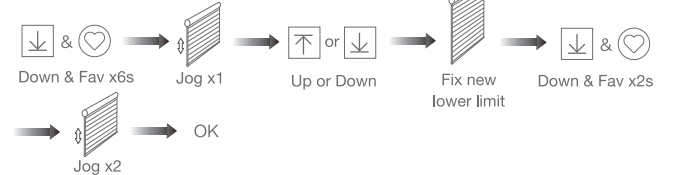
Note: The Fav.position setting only can be done after upper&lower limits set.

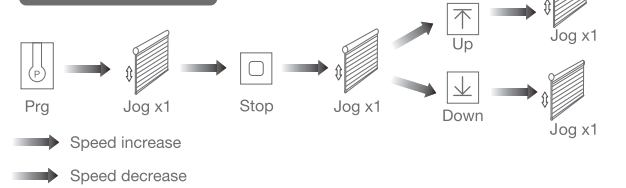### g.Adjusting Upper & Lower Limits

Adjust Upper limit
Up & Fav x6s → Jog x1 → Up or Down → Fix new upper limit → Up & Fav x2s → Jog x2 → OK

Adjust Lower limit
Down & Fav x6s → Jog x1 → Up or Down → Fix new lower limit → Down & Fav x2s → Jog x2 → OK

Note: The operation should be done within 4mins.

h.Adjusting Motor Speed

Prg → Jog x1 → Stop → Jog x1 → Up → Jog x1 / Down → Jog x1
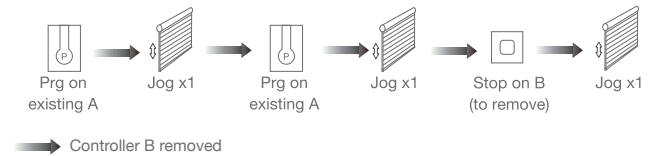
Speed increase
Speed decrease

Note: If motor doesn't jog, the max/min speed has already been reached.
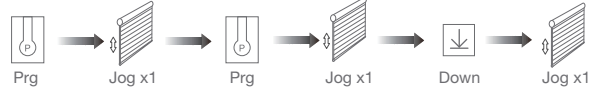There are 3 speeds adjustable.

i.Removing Controllers

Remove a single controller
H button
H button x2s → Jog x1 → Prg → Jog x1 → OK

Remove controller B via pre-existing controller A
Prg on existing A → Jog x1 → Prg on existing A → Jog x1 → Stop on B (to remove) → Jog x1

Controller B removed
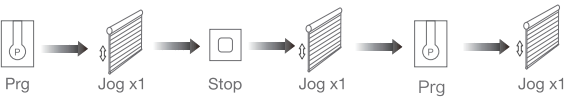
Remove all controllers:

Prg → Jog x1 → Prg → Jog x1 → Down → Jog x1

→ All controllers removed

Note: All the settings are saved even controllers removed(limits set are saved).
Controller A/B are already paired to motor.

j.Cancelling Limits

Prg → Jog x1 → Stop → Jog x1 → Prg → Jog x1

→ Limits cancelled

Note: It is forbidden to run the motor if installed into the shade without limits.
Limits should be set immediately to protect the shade.

k.Zigbee Connecting

*Connection requirement

a.Make sure the phone is connected to the Wi-Fi network.

b.The Tuya Zigbee gateway device need to be added to the "Smart Life" APP first, please

refer to its manual for details.

① Download App

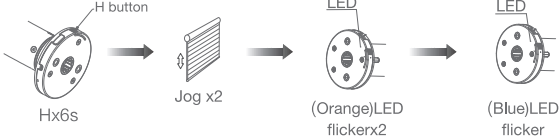a.Search for "Smart Life" in the app store or scan the QR code

b.Complete account registration and login to the app
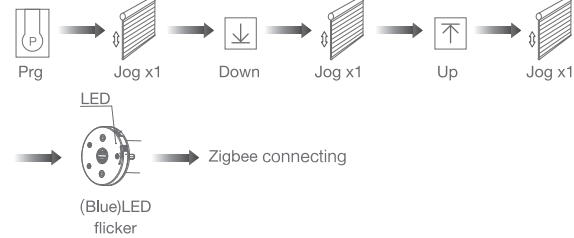
② Add Device

a.Make sure the phone is connected to the Wi-Fi network
b.Make sure the Tuya Zigbee gateway device is connected to "Smart Life" App
c.Make the motor is ready to be connected to Zigbee by following steps:
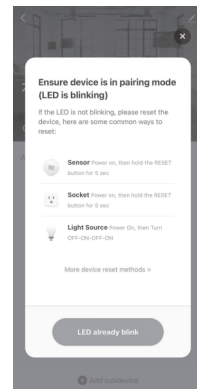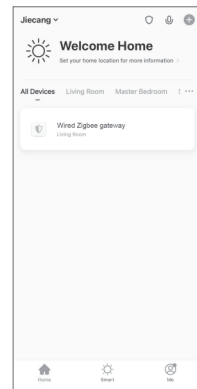
Way 1

Hx6s → Jog x2 → (Orange)LED flickerx2 → (Blue)LED flicker

→ Zigbee connecting

Way 2:

Prg → Jog x1 → Down → Jog x1 → Up → Jog x1

→ Zigbee connecting

(Blue)LED flicker

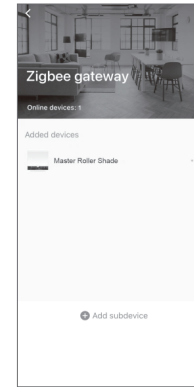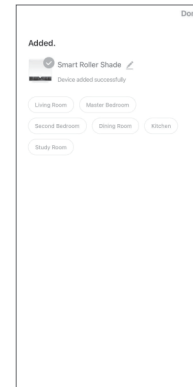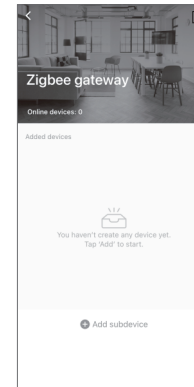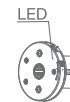d.Find the added Tuya Zigbee gateway on the "Smart Life" App, click "+" to add a sub-device, and then click "LED already blink", the APP will automatically search for motor device
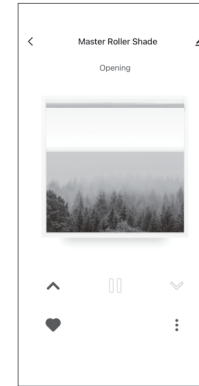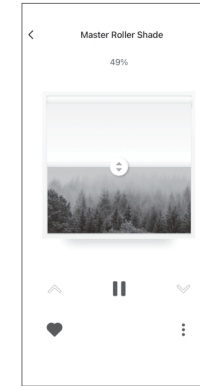

e.After adding successfully, click " ✎ " to modify the device name

f.After the motor device is added successfully, the LED on motor head will be on for 10s and then go off.

g.Now the motor can be controlled by App from anywhere, anytime

04 Troubleshooting

Fault	Cause	Solution
Motor does not work	1.Controller not paired 2.Motor inactive 3.Low battery	1.Add controller 2.Hold H button for 2s to activate motor 3.Charging
Motor stops suddenly	1.Upper & Lower limit set incorrectly 2.Shade exceed rated load 3.Low battery	1.Re-set Upper & Lower limits 2.Adjust load 3.Charging
LED flickers 8 times on motor head when motor starts	Low battery	Charging