SAFETY NOTE

1. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
2. Children shall not play with the appliance.
3. Cleaning and user maintenance shall not be made by children without supervision.
4. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
5. WARNING: the drive shall be disconnected from its power source during cleaning, maintenance and when replacing parts.
6. The instructions shall state that the A-weighted emis sion sound pressure level of the drive is equal to or less than 70 dB(A), e.g. by writing LpA ≤ 70 dB(A).
7. The mass and the dimension of the driven part shall be compatible with the rated torque and rated operating time.
8. The type of driven part the drive is intended for.
9. WARNING: Important safety instructions. It is important for the safety of persons to follow these instructions. Save these instructions.
10. Do not allow children to play with fixed controls. Keep remote controls away from children.
11. Frequently examine the installation for imbalance and signs of wear or damage to cables and springs. Do not use if repair or adjustment is necessary.
12. Watch the moving shutter and keep people away until the shutter is completely closed.
13. WARNING: Important safety instructions. Follow all instructions, since incorrect installation can lead to severe injury.
14. Before installing the drive, remove any unnecessary cords and disable any equipment not needed for powered operation.

Do not dispose of in general waste.
Please recycle batteries and damaged electrical products appropriately.

WM25L Series

Instruction | A-01

Features

- Built-in Receiver
- Jog & Tilt
- Built-in Lithium Battery
- Scan and Program
- Status Feedback
- Switch Direction
- Stall Protection
- Program Button
- Reset to Factory Mode
- Memorized Setting
- Electronic Limit
- Preferred Stop Position
- Speed Regulation
- Scene Control

Fields of Application

The motor is suitable for motorization of roller blinds.

Specifications

Working temperature: -10℃ ~ +40℃	Radio Frequency: 433.925MHz
Input Voltage: USB 5V 1A / USB 5V 2A	Maximum Running Time: 6 minutes

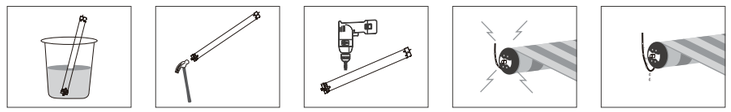
Following data for reference

Model	Rated Torque (N.m)	Rated Speed (rpm)	Rated Power (W)
WM25L-1.1/24	1.1	24	10

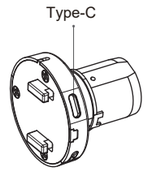
* For reference only.

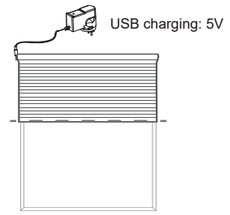
Attention

Never drop, knock, drill or submerge the motor. Keep the power cable in right position as following.
Important safety instructions to be read before installation.
Incorrect installation can lead to serious injury and will void manufacturer's liability and warranty.



Charging Instructions





This motor has a built in Li-ion battery pack with integrated charge management.
Max power input for recharging: 5V 2A.
Before first use please charge motor for 6 hours. Using 5V charger (most phones charger is 5V) .
During operation, when the motor starts, the buzzer will beep 10 times, indicating a low-voltage alarm and needs to be charged.
During operation, the voltage was detected to be too low, the battery was about to run out, the battery stopped running and needed to be recharged.

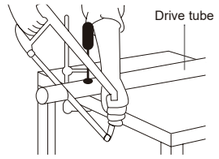
Rechargeable Battery

Blinking red:
Low battery alert

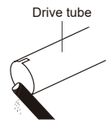
Blinking green:
Charging is processing

Solid green:
Battery has finished charging.

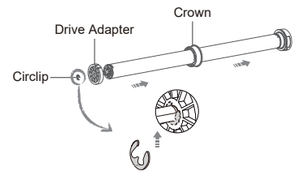
Motor Installation



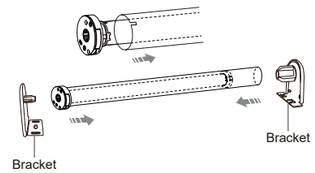
Step 1 Cut drive tube to required length.



Step 2 Ensure tube edge is clean and burr-free.



Step 3 Mount correct crown & drive adapter on the motor. Make sure drive adapter fits firmly and crown rotates freely.



Step 4 Align the notches on the crown and drive adapter with the drive tube, slide and fit the motor into drive tube. Mount idler and bracket on both ends.

Caution

1. Do not expose motor to humid or extreme temperature conditions.
2. Do not drill into motor.
3. Do not cut the antenna and keep it clear from metal objects.
4. Do not allow children to play with this device.
5. If power cable or connector is damaged, do not use.
6. Ensure correct crown and drive adaptor are used.
7. Ensure power cable and aerial is clear and protected from moving parts.
8. Cable routed through walls shall be properly isolated.
9. Motor is to be mounted in horizontal position only.
10. Before installation, remove unnecessary cords and disable equipment not needed for powered operation.
11. Installation and programming to be performed by a qualified professional, use or modification outside the scope of this instruction may void warranty.

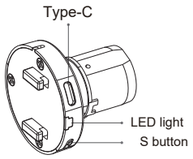
Important Safety Instructions To Be Read Prior To Operation.

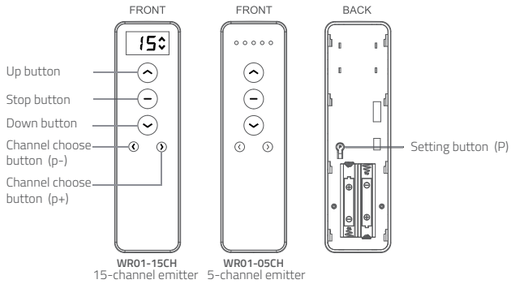
Setting Notice

Please read following points of attention carefully before setting.

1. Don't operate motors when low voltage alarm.
2. Operating:
   ①The valid interval of the emitter button is 10S, the emitter will quit the set after 10S.
   ②The motor will run or beep for hint, please do the next step after the hint.
3. Set the limit position:
   ①After the upper / lower limit setting, and the upper / lower limit positin can't at the same position.
   ②After the limit setting, with power off and memory function.
   ③Limit delete will clear all limit memory.
   ④It will exit limit setting when program there is no operation for 2 minutes.
4. If the emitter lost, please set up again with the new emitter.
5. One motor can store maximum 10 channels; after fully stored, if pair new channels, only the last one will be covered circularly.

Button Instructions





Functions of S button

1. Cycle Operation: Press S button once and every press the motor will run upward → stop → downward circulary.
2. Pairing or Pair Additional Emitter: Press S button for 2S, motor jog once, release button, motor is ready for pairing or pair additional emitter.
3. Press and hold the P1 button on the motor head for 6 seconds until the motor jog twice then release the button . When the red led light is on indicates that you entered the pairing mode.
4. Radio Lock: Press and hold S button for 10S, the motor will jog twice, release button, the motor enters radio lock status, the motor won't receive any signal; press S button once to disable Radio Lock.
5. Reset to Factory Mode: Press and hold S button for 14S, the motor will jog 4 times, release button, the motor has been reset to factory mode.At this point the motor will go into deep sleep. After entering deep sleep, the motor can't be controlled. At this time, you need to press S button for 2S and then the motor turns to prompt to exit deep sleep.

Essential Settings
The steps in factory mode must be completed to ensure proper operation.

Factory mode

1 Pairing

S → STOP

Press S button for 2S (1 jog), release button, press STOP for 2S (2 jogs), the motor has been paired successfully.

* If within 10S, the motor doesn't receive STOP signal from the any emitter, it will exit the paring mode automatically.

2 Switch Rotating Direction (Optional)

If press UP, the motor runs downward, try below to switch direction

UP + DOWN

Press and hold UP and DOWN buttons simultaneously for 2S, motor jog once, the direction has been switched successfully.

* The operation is only valid when there is no limits. If the motor has already set the upper and lower limit, then you can only switch direction by S button.

3 Upper and Lower Limits Setting

1 Set upper limit

UP → UP + STOP

Press UP for 2S, operate the motor to desired upper position, press and hold UP and STOP buttons simultaneously for 2S (2 jogs), upper limit is set.

2 Set lower limit

DOWN → DOWN + STOP

Press DOWN for 2S, operate the motor to desired lower position, press and hold DOWN and STOP buttons simultaneously for 2S (2 jogs),lower limit is set.

* If exit the limits setting status before you finish the limit setting, then the motor will take the previous limits if has; After the limits have been set successfully, the motor will enter the user mode.

User mode

1 Add A Preferred Position

1 Set preferred position

P → STOP → STOP

Check both upper and lower limits are set. Operate the product to desired preferred position. Press P (1 jog, press STOP(1 jog), STOP again (2 jogs), the preferred position is set.

2 Remove preferred position

P → STOP → STOP

Press P (1 jog), press STOP (1 jog), STOP again(1 jog), the preferred position is deleted.

* Press STOP for 2S,the motor moves to preferred position automatically.

2 Jog Mode & Running Mode Switch

UP + DOWN → STOP

Press and hold UP and DOWN buttons simultaneously for 5S (1 jog), press STOP (1 jog), switch to jog mode, If motor jog twice, switch to running mode.

* When in jog mode, press UP or DOWN once, the motor will be jog running, if press more than 2 second, the motor will be continously running.

3 Adjust Limits

1 Adjusting the upper limit

UP + STOP → UP or DOWN →

→ UP + STOP

Press and hold UP and STOP buttons for 5S (1 jog), operate the product to desired new upper limit position, press and hold UP and STOP buttons for 2S(2 jogs), the new upper limit is programmed successfully.

2 Adjusting the lower limit

DOWN + STOP → UP or DOWN →

→ DOWN + STOP

Press and hold DOWN and STOP buttons for 5S (1 jog), operate the product to desired new lower limit position, press and hold DOWN and STOP buttons for 2S (2 jogs), the new lower limit is programmed successfully.

* After entering the limits fine tuning mode, the original preferred position will not be deleted; If there is no button operation within 2 minutes, it will arrive within 2 minutes, and the motor will turn to prompt, and automatically exit the route adjustment mode; When fine-tuning the limit, press and S for more than 2S to exit the mode.

4 Pair / Unpair Additional Emitter

Method one

P(a) → P(a) → P(b)

Press P (1 jog) and P (1 jog) on existing emitter, press P on new emitter to add (2 jogs), new emitter is paired to the motor.

• Repeat same procedure will unpair additional emitter.

Method two

P(a) → P(a) → STOP(b)

Press P (1 jog) and P (1 jog) on existing emitter, press STOP on new emitter for 2S to add (2 jogs), new emitter is paired to the motor.

Method three

S → STOP(b)

Press S button for 2S (1 jog), release button, press STOP on new emitter for 2S to add (2 jogs), new emitter is paired to the motor.

• Repeat same procedure will unpair additional emitter.

* (a) as existing emitter,(b) as new emitter to pair/unpair; Adding the emitter should be carried out when there is a limits; All the setting of the motor will be kept after addiing the new emitter.

5 Speed Regulation

1 Acceleration setting

P → UP → UP

Press P (1 jog), UP (1 jog), UP again (2 jogs), the motor running speed is accelerated.
2 jogs: Is the second speed level
3 jogs: Is the third speed level

2 Deceleration setting

P → DOWN → DOWN

Press P (1 jog), DOWN (1 jog), DOWN again (2 jogs), the motor running speed is decelerated.
1 jog: Is the first speed level
2 jogs: Is the second speed level

* If the motor no response, it has already been the Max. or Min speed.

Quick Index

	Settings	Steps	
1	Pairing	S (hold down 2s) → Stop (hold down 2s)	
2	Switch Rotating Direction	Up + Down (hold down 2s)	
3	Upper and Lower Limits Setting	Set upper limit	Up (hold down 2s) → Up + Stop (hold down 2s)
		Set lower limit	Down (hold down 2s) → Down + Stop (hold down 2s)
4	Add / Remove Preferred Position	P → Stop → Stop	
5	Jog Mode & Running Mode Switch	Up + Down (hold down 5s) → Stop	
6	Adjust Limits	Adjusting the upper limit	Up + Stop (hold down 5s) → Up or Down → Up + Stop (hold down 2s)
		Adjusting the lower limit	Down + Stop (hold down 5s) → Up or Down → Down + Stop (hold down 2s)
7	Pair / Unpair Additional Emitter	P(a) → P(a) → P(b)	
		P(a) → P (a) → Stop (b) (hold down 2s)	
		S (hold down 2s) → Stop (b) (hold down 2s)	
8	Speed Regulation	Acceleration setting	P → Up → Up
		Deceleration setting	P → Down → Down

Troubleshooting

Issues	Possible causes	Solution
The motor has no response	Battery in motor is depleted	Recharge with compatible AC adaptor
	Power Failure Or Incorrect Connection	Double check power and cable connections, follow wiring instructions.
	emitter battery is low capacity	Replace battery
	Radio interference / shielding	Check antenna on motor is intact and exposed. Check for possible source of radio interference.
	Out of radio control range	Try control within closer range
The emitter cann't control single motor	Multiple motors are paired to the same channel.	Pair single motor with emitter correctly
		Try to use multi-channel emitters to control multi-motor projects, ensure each channel to control one single motor
The motor doesn't run or starts too slowly or make loud noise	Connections are incorrect.	Check connections
	Installation is improper or overload	Check installation or overload
The motor stops during the up and down running	The motor has reached the lower limit	Adjust the new lower limit
	The running time more than 6min	Consult the sales for more information

FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC’s RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

FCC ID: 2AZ9W-WM25L