

SAFETY NOTE

- 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.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.
- 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.
- WARNING:** the drive shall be disconnected from its power source during cleaning, maintenance and when replacing parts.
- The instructions shall status that the A-weighted emission sound pressure level of the drive is equal to or less than 70 dB(A), e.g. by writing $L_{pA} \leq 70$ dB(A).
- The mass and the dimension of the driven part shall be compatible with the rated torque and rated operating time.
- The type of driven part the drive is intended for.
- WARNING:** Important safety instructions. It is important for the safety of persons to follow these instructions. Save these instructions.
- Do not allow children to play with fixed controls. Keep remote controls away from children.
- 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.
- Watch the moving shutter and keep people away until the shutter is completely closed.
- WARNING:** Important safety instructions. Follow all instructions, since incorrect installation can lead to severe injury.
- Before installing the drive, remove any unnecessary cords and disable any equipment not needed for powered operation.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- Disconnect the drive from the supply or switch off the automatic controls when maintenance, such as window cleaning, is being carried out in the vicinity.



Features

- Electronic Limit
- Jog & Tilt
- Program Button
- Speed Regulation
- Reset to Factory Mode
- Built-in Receiver
- Switch Direction
- Preferred Stop Position
- Radio Lock
- Dual Shaft
- Stall Protection
- Limit Fine Adjustment
- Low Power Consumption

Fields of Application



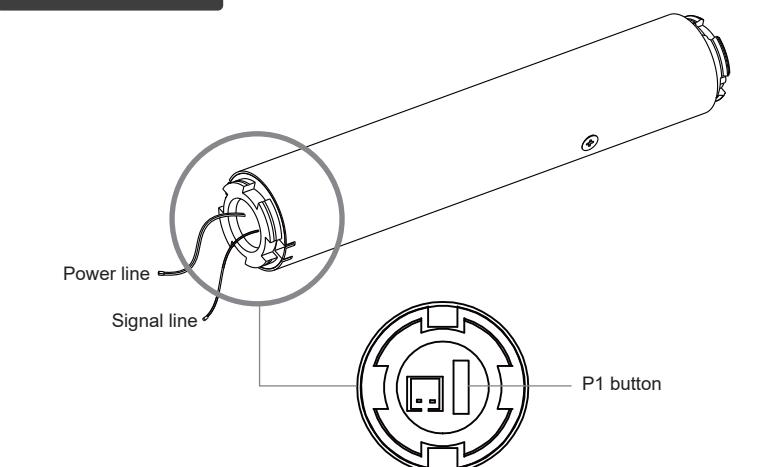
The motor is suitable for motorization of venetian blinds.

Specifications

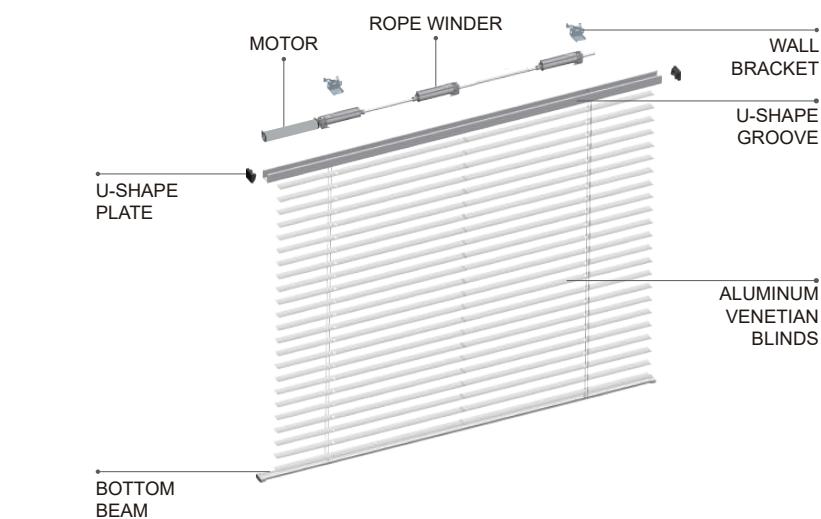
Working Temperature: -20°C ~ +65°C	Radio Frequency: 433.92MHz
Rated Voltage: DC 8V, DC 12V	Max. Single Running Time: 6min

* For more motor models and specific torque, please refer to the nameplate.

Motor Schematic



Motor Installation



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 are 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.



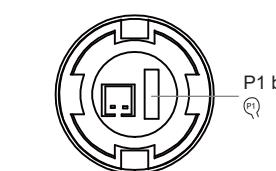
Important Safety Instructions To Be Read Prior To Operation.

Setting Notice

Please read following points of attention carefully before setting.

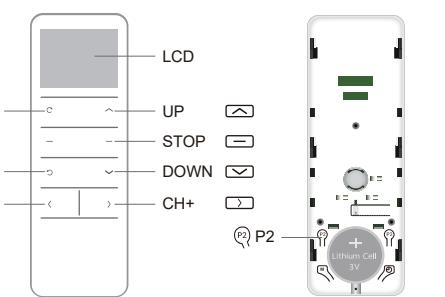
1. Operating:
 - ① The valid interval of the emitter button is 10s, the emitter will quit the set after 10s.
 - ② The motor will jog for hint, please do the next step after the hint.
2. Set limit position:
 - ① After the upper/lower limit setting, and the upper/lower limit position can't be at the same position.
 - ② After limit setting, with power off and memory function.
 - ③ Limit delete will clear all limit memory.
 - ④ It will exit limit setting when program there is no operation for 2 minutes.
3. When the motor running without any operation, the maximum running time is 6 minutes, it will stop automatically.
4. If the emitter lost, please setting up again with 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 P1 button

1. Cycle Operation: Press P1 button once and every press the motor will run upward → stop → downward circularly.
2. Pairing or Pairing / Delete One Additional Emitter: Press P1 button for 2S, motor jog once, release button, motor is ready for pairing or pairing / delete one additional emitter.
3. Radio Lock: Press and hold P1 button for 6S, the motor will jog twice, release button, the motor enters radio lock status, the motor won't receive any signal; press P1 button once to disable Radio Lock.
4. Switch Direction: Press and hold P1 button for 10S, the motor will jog 3 times, release button, the running direction of the motor has been changed.
5. Reset to Factory Mode: Press and hold P1 button for 14S, the motor will jog 4 times, release button, the motor has been reset to factory mode and enter deep sleep. After entering the deep sleep, the motor cannot be controlled. At this time, press P1 button for 2S, and then the motor will be jog for hint to exit the deep sleep.



Essential Settings

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

Factory mode

1 Pairing

→
P1 STOP

Press P1 button for 2S (1 jog), release button, or repower (1 jog), within 10S, 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.

* After successful reversing, keep all the original Settings of the motor.

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3 Upper and Lower Limits Setting

1 Set upper limit

or → +

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

2 Set lower limit

or → +

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

* The upper limit position and lower limit position cannot be set at the same position. 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

→ →

Check both upper and lower limits are set. Operate the product to desired preferred position. Press P2 (1 jog), press STOP (1 jog), STOP again (2 jogs), the preferred position is set.

2 Delete preferred position

→ →

Press P2 (1 jog), press STOP (1 jog), STOP again (1 jog), the preferred position is deleted.

* After the preferred position is set, if the motor is not at the preferred position, press STOP button for 2S, the motor will automatically run to the preferred position.

Roller systems: When the motor is in continuous operation mode, long press STOP button, the motor will run directly from the current position to the preferred position.

Venetian blind system: When the motor is in the jog mode, long press STOP button, the motor will first run from the current position to the lower limit position, and then from the lower limit position to the preferred position.

2 Jog Mode & Running Mode Switch

+ →

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

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

3 Adjust Limits

1 Adjusting the upper limit

+ → or → +

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

+ → or → +

DOWN STOP UP DOWN

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 Trim Mode, the original preferred stop position will not be deleted. If there is no button operation in 2 minutes, 2 minutes time limit, motor chance to rotate the hint, and automatically exit the fine-tuning mode; After fine-tuning the upper/lower limit positions can not be in the same position.

4 Pair / Delete Additional Emitter

Method one

→ →

Press P2 (1 jog) and P2 (1 jog) on existing emitter, press P2 on new emitter to add (2 jogs), new emitter is paired to the motor.
• Repeat same procedure will delete additional emitter.

Method two

→ →

Press P2 (1 jog) and P2 (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

→

Press P1 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 delete additional emitter.

* (a) as existing emitter,(b) as new emitter to pair/delete; All the setting of the motor will be kept after adding the new emitter.

Quick Index

Settings	Steps
1 Pairing	P1 (hold down 2s) → Stop (hold down 2s)
2 Switch Rotating Direction	Up + Down (hold down 2s)
3 Upper and Lower Limits Setting	1 Set the upper limit Up or Down → Up + Stop (hold down 2s) 2 Set the lower limit Up or Down → Down + Stop (hold down 2s)
4 Add / Delete Preferred Position	P2 → Stop → Stop
5 Jog Mode & Running Mode Switch	Up + Down (hold down 5s) → Stop
6 Adjust Limits	1 Adjusting the upper limit Up + Stop (hold down 5s) → Up or Down → Up + Stop (hold down 2s) 2 Adjusting the lower limit Down + Stop (hold down 5s) → Up or Down → Down + Stop (hold down 2s)
7 Pair / Delete Additional Emitter	1 Pair / Delete Additional Emitter P2(a) → P2 (a) → P2(b) 2 Pair Additional Emitter P2(a) → P2 (a) → Stop(b) (hold down 2s) 3 Pair / Delete Additional Emitter P1 (hold down 2s) → Stop(b) (hold down 2s)
8 Speed Regulation / Setting Motor Slow Stop Operation Mode	1 Acceleration setting / Activate the motor slow stop operation mode P2 → Up → Up 2 Deceleration setting / Deactivate the motor slow stop operation mode P2 → Down → Down

Troubleshooting

Issues	Possible causes	Solution
The motor has no response	Power failure or incorrect connection Emitter battery is low capacity Radio interference / shielding Out of radio control range	Double check power and cable connections, follow wiring instructions. Replace battery Check antenna on motor is intact and exposed. Check for possible source of radio interference. Try control within closer range
The emitter can't control single motor	Multiple motors are paired to the same channel.	Always reserve an individual correctly (refer to motor functions) 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. Incorrect installation or overload	Check connections Check installation or overload
The motor stops during the going up or going down.	The motor has reached the lower limit Running time exceeds 6 min	Adjust the new lower limit Let the motor cool down for about 20 minutes

5 Speed Regulation / Setting Motor Slow Stop Operation Mode

1 Acceleration setting / Activate the motor slow stop operation mode

→ →

P2 UP UP

Press P2 (1 jog), press UP (1 jog), UP again (2 jogs), the motor running speed is accelerated. When the motor is at the Max. speed, the motor jogs once after the last operation, and the motor slow stop operation mode is activated.

2 Deceleration setting / Deactivate the motor slow stop operation mode

→ →

P2 DOWN DOWN

Press P2 (1 jog), press DOWN (1 jog), DOWN again (2 jogs), the motor running speed is decelerated. When the motor is at the Min. speed, the motor jogs once after the last operation, and the motor slow stop operation mode is deactivated.

* The motor has 3 speed levels, the Max. speed: 40RPM; the Med. speed: 34RPM; the Min. speed: 28RPM. the factory default is 34RPM, slow stop mode (only works after the limits setting).

1 Adjusting the upper limit

+ → or → +

UP STOP UP DOWN

The new upper limit position

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.

RF exposure statement

This equipment complies with the FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

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.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.