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 emission 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.
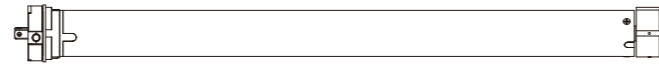
Li-ion

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

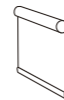# DM35(45)LE/S
DM35(45)LEQ/S

Instruction | A-04

Radio+

Features

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

Fields of Application

The motor is suitable for motorization of roller blinds.

Specifications

| Working Temperature: -10℃ ~ +55℃	Radio Frequency: 433.925MHz
Rated Voltage: DC 12V	Maximum Running Time: 6 minutes

Following data for reference

Model	Rated Torque (N.m)	Rated Speed (rpm)	Rated Current (A)
DM35LE/S-3/28	3	28	2.2
DM35LE/S-6/24	6	24	3.23
DM35LE/S-13/13	13	13	3.23
DM45LE/S-20/10	20	10	4.1
DM35LEQ/S-2/28	2	28	1.16
DM45LEQ/S-3/28	3	28	2.2
DM45LEQ/S-10/9	10	9	2.2

* 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.
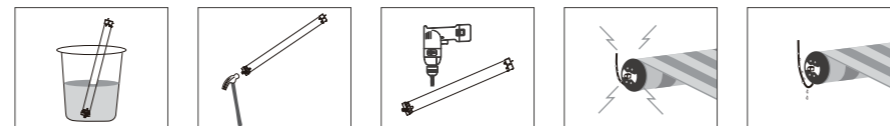
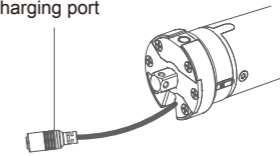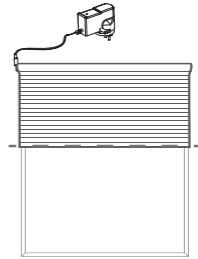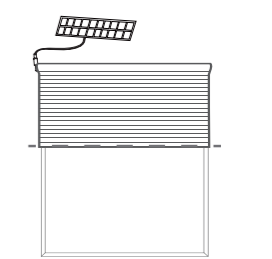
Charging Instructions

Charger port and solar panel charging port

Charging: 12.6V 1A   Solar (PV) Panel: 16V~24V

This motor has a 12V built in Li-ion battery pack with integrated charge management.
Maximum charger charging input: 12.6V 1A.
Before first use please charge motor for 6 hours.
During operation, motor will stop running when the voltage is lower than 8.0V and it will resume again when the voltage is greater than 8.5V.
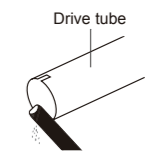During operation, motor will stop buzzer sounds when the voltage is lower than 7.0V and it will resume again when the voltage is greater than 7.5V.
When the motor is running continuously when the voltage is lower than 10V, the buzzer sounds 10 times.
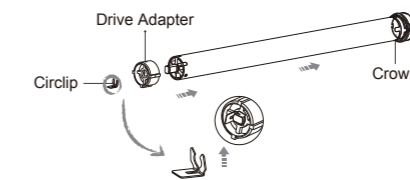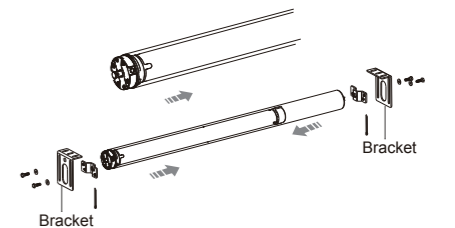
Motor Installation

Drive tube
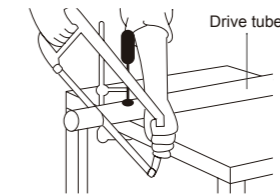
Drive tube

Step 1 Cut drive tube to required length.   Step 2 Ensure tube edge is clean and burr-free.

Drive Adapter   Crown   Circlip   Bracket   Bracket

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.
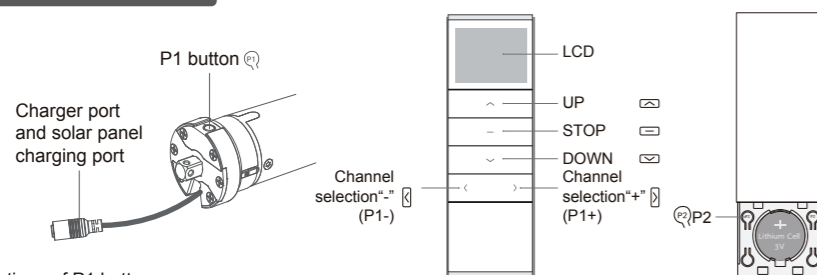
⚠ Important Safety Instructions To Be Read Prior To Operation.

Setting Notice

Please read following points of attention carefully before setting.
1. Don't operate motors when low voltage alarm.
2. Operation:
① The valid interval time of the buttons is within 10S, if there is no operation within 10S, the emitter will exit the present setting.
② The motor will jog and beep as hint, pls operate after the jog and beep.
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

P1 button
Charger port and solar panel charging port
LCD
UP
STOP
DOWN
Channel selection"-" (P1-)
Channel selection"+" (P1+)
P2

Functions of P1 button
1. Cycle Operation: Press P1 button once and every press the motor will run upward → stop → downward circulary.
2. Pairing or Pair / unpair Additional Emitter: Press P1 button for 2S, motor jog once, release button and long beep once, motor is ready for pairing or pair / unpair additional emitter.
3. Radio Lock: Press and hold P1 button for 6S, the motor will jog twice, release button and beep twice, 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 and beep 3 times, 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 and beep 4 times, 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 P1 button for 2S and then the motor turns to prompt to exit deep sleep.
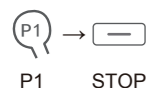
⚠ **Essential Settings**
The steps in factory mode must be completed to ensure proper operation.

Factory mode

1 Pairing

P1 → STOP

P1   STOP

Press P1 button for 2S (1 jog), release button and make a long noise, within 10S, press STOP for 2S (2 jogs and 3 beeps), 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 (1 jog and 1 beep), 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 P1 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 and 3 beeps), 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 and 3 beeps), 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

P2 → STOP → STOP

P2   STOP   STOP

Check both upper and lower limits are set. Operate the product to desired preferred position. Press P2 (1 jog and 1 beep), press STOP(1 jog and 1 beep), STOP again (2 jogs and 3 beeps), the preferred position is set.

2 Remove preferred position

P2 → STOP → STOP

P2   STOP   STOP

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

* In the normal running mode, if the motor is not at the preferred position, press STOP button longly, then the motor will run directly from the current position to the preferred position (apply for roller systems); In the jog mode, press STOP button longly, firstly, the motor runs from the current position to the lower limit then to the preferred position (apply for cord-lifting system).

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 and long beep once), switch to jog mode, If motor jog twice and beep 3 times, 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 DOWN or DOWN → The new upper limit position → UP + STOP

Press and hold UP and STOP buttons for 5S (1 jog and long beep once), operate the product to desired new upper limit position, press and hold UP and STOP buttons for 2S(2 jogs and 3 beeps), the new upper limit is programmed successfully.

2 Adjusting the lower limit

DOWN + STOP → UP DOWN or DOWN → The new lower limit position → DOWN + STOP

Press and hold DOWN and STOP buttons for 5S (1 jog and long beep once), operate the product to desired new lower limit position, press and hold DOWN and STOP buttons for 2S (2 jogs and 3 beeps), 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.

4 Pair / Unpair Additional Emitter

Method one

P2 → P2 → P2
P2(a)   P2(a)   P2(b)
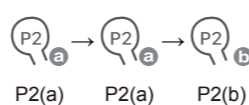
Press P2 (1 jog and 1 beep) and P2 (1 jog and 1 beep) on existing emitter, press P2 on new emitter to add (2 jogs and 3 beeps), new emitter is paired to the motor.
• Repeat same procedure will unpair additional emitter.

Method two

P2 → P2 → STOP
P2(a)   P2(a)   STOP(b)

Press P2 (1 jog and 1 beep) and P2 (1 jog and 1 beep) on existing emitter, press STOP on new emitter for 2S to add (2 jogs and 3 beeps), new emitter is paired to the motor.

Method three

P1 → STOP
P1   STOP(b)

Press P1 button for 2S (1 jog), release button and long beep once, press STOP on new emitter for 2S to add (2 jogs and 3 beeps), 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;
All the setting of the motor will be kept after addiing the new emitter.

5 Speed Regulation

1 Acceleration setting

P2 → UP → UP

P2   UP   UP

Press P2 (1 jog and 1 beep), UP (1 jog and 1 beep), UP again (2 jogs and 1 beep), the motor running speed is accelerated.

2 Deceleration setting

P2 → DOWN → DOWN

P2   DOWN   DOWN

Press P2 (1 jog and 1 beep), DOWN (1 jog and 1 beep), DOWN again (2 jogs and 1 beep), the motor running speed is decelerated.

* DM45LE/S does not have this function; If the motor no response, it has already been the Max. or Min speed; The factory default is the fastest.

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	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	P2 → 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	P2(a) → P2 (a) → P2(b)
		P2(a) → P2 (a) → Stop (b) (hold down 2s)
		P1 (hold down 2s) → Stop (b) (hold down 2s)
8	Speed Regulation	Acceleration setting P2 → Up → Up
		Deceleration setting P2 → Down → Down

Troubleshooting

Issues	Possible causes	Solution
The motor has no response	Battery in motor is depleted	Charge with the corresponding charger or solar panel
	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 upper limit or lower limit	Adjust the new upper limit or lower limit