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.

DV24AF/L , DV24CFQ/L
DVQ24AF/L

Instruction | A-04

Features

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

Fields of Application

The motor is suitable for motorization of venetian blinds.

Specifications

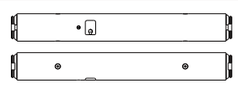
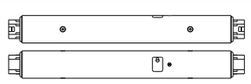
Working temperature: -10℃ ~ +55℃	Radio Frequency: 433.925MHz
Rated Voltage: DC 12V	Maximum Running Time: 6 minutes

Following data for reference

Model	Rated Torque (N.m)	Rated Speed (rpm)	Rated Current (A)
DV24AF/L-0.8/45	0.8	45	0.83
DV24CFQ/L-0.5/34	0.5	34	0.76
DVQ24AF/L-0.8/45	0.8	45	0.83

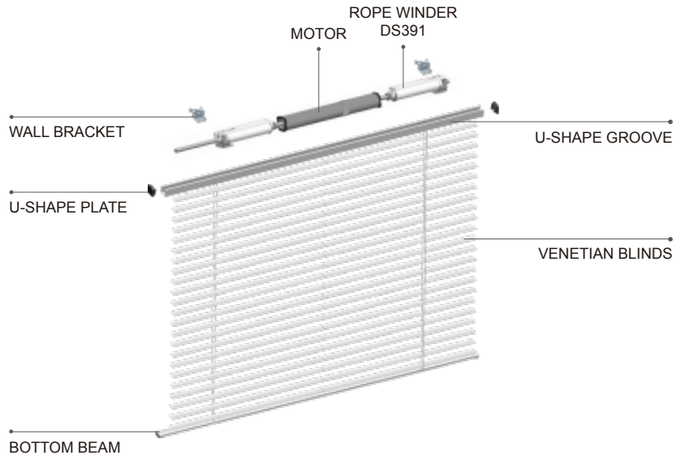
* For reference only.

Product Feature Comparison

Model	Motor Schematic	Full Speed Start/ Slow Start Slow Stop	Motor Length
DV24AF/L		Full Speed Start	193mm
DV24CFQ/L		Slow Start Slow Stop	
DVQ24AF/L		Full Speed Start	206mm

*Full speed start refers to the motor running at a uniform speed under any conditions;Slow start slow stop refers to the motor in any circumstances to slow start, then fast running, finally run slowly until stopped.

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 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.

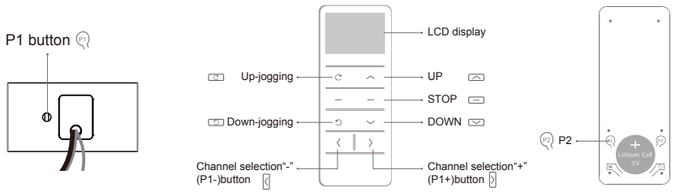
Important Safety Instructions To Be Read Prior To Operation.

Setting Notice

Please read following points of attention carefully before setting.

1. Don't operate motors when low voltage alarm:
   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.
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 as hint, pls operate after the jog.
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 setting up again with new emitter.
5. One motor can store maximum 20 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 circulary.
2. Pairing or Pair Additional Emitter：Press P1 button for 2S, motor jog once, release button, motor is ready for pairing or pair additional emitter.
3. Switch Direction: Press and hold P1 button for 6S, the motor will jog twice, release button, the running direction of the motor has been changed.
4. Reset to Factory Mode: Press and hold P1 button for 12S, the motor will jog 3 times, release button, the motor has been reset to factory mode.

Essential Settings
Step 1 to 2 must be completed to ensure proper operation.

1 Pairing

P1 → P2 → P2 → UP

Press P1 button for 2S (1 jog), or power on motor (1 jog), press P2 (1 jog), P2 again (1 jog), and UP (1 jog), motor is paired with emitter.

*After the success of the code will delete the original limit settings and motor running mode speed settings, restore the factory value.

2 Upper and Lower Limits Setting

1 Initiate limit setting

P2 → P2 → P2

Press P2 (1 jog), UP (1 jog), and P2 (1 jog), motor is ready for limit settings.

*In the process of motor running upward or downward, press P2, the motor enters the stepping operation state, can precisely set the limit position.

2 Set upper limit

UP → STOP → STOP

Press UP, operate the motor to desired upper position, press STOP once, motor stops, then press 5 times or press and hold STOP for 3S(1 jog), upper limit is set.

3 Set lower limit

DOWN → STOP → STOP

Press DOWN,operate the motor to desired lower position, press STOP once, motor stops, then press 5 times or press and hold STOP for 3S (1 jog), lower limit is set.

*Power on the motor again after power off will exit the limit setting mode. Exit the limit setting mode before completing the limit setting. If you have already set the limit before setting, you can only fine-tune the limit.

3 Add A Preferred Position

P2 → STOP → STOP

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

• *Repeat same procedure will remove preferred position.*

*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).

4 Adjust Limits

1 Adjusting the upper limit

UP → UP + DOWN → UP or DOWN → STOP

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

2 Adjusting the lower limit

DOWN → UP + DOWN → UP or DOWN → STOP

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

*After fine-tuning the upper or lower limit position,the original preferred position will be automatically replaced; If fine-tuning is not successful, the original upper or lower limit position is still used; Fine-tuning the limits, press UP or DOWN once, the motor will be jog running, if press more than 2 second, the motor will be continously running.

5 Activate / Deactivate Jog / Tilt Mode

P2 → UP → DOWN

Press P2 (1 jog), UP (1 jog), and DOWN (1 jog), Jog / tilt mode is deactivate.

• *Repeat same procedure will activated Jog / tilt 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; When the jog mode is off, the up-jogging and down-jogging can also make the motor jog running.

6 Pair / Unpair Additional Emitter

Method one

P2(a) → P2(a) → P2(b)

Press P2 (1 jog) and P2 (1 jog) on existing emitter, press P2 on new emitter to add (1 jog), new emitter is paired to the motor.

• Repeat same procedure will unpair additional emitter.

Method two

P2 → UP(b) + DOWN(b)

Press P1 button for 2S (1 jog), release button, press UP and DOWN on new emitter for 2S to add (1 jog), new emitter is paired to the motor.

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

7 Remove All Emitters

P2 → STOP → P2

Press P2 (1 jog), STOP (1 jog), and P2 (1 jog), all emitters are deleted.

8 Deleting All Limits

P2 → DOWN → P2

Press P2 (1 jog), DOWN (1 jog), and P2 (1 jog), all limits are removed.

*This operation is deleted along with preferred position.

9 Speed Regulation

1 Acceleration setting

UP + STOP

Press UP and STOP simultaneously for 2S (2 jogs), The motor speed is raised to the second gear. If the motor is jogs 3 times, the motor speed is raised to the third gear.

2 Deceleration setting

DOWN + STOP

Press DOWN and STOP simultaneously for 2S (1 jog), the motor speed is reduced to first gear. If the motor is jog twice, the motor speed is reduced to second gear.

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

Quick Index

	Settings	Steps	
1	Pairing	P1 → P2 → P2 → Up	
2	Initiate Limit Setting / Confirm Limits	Initiate limit setting	P2 → Up → P2
		Set upper limit	Up → Stop → Stop (hold down 3s or press 5 times)
		Set lower limit	Down → Stop → Stop (hold down 3s or press 5 times)
3	Add / Remove Preferred Position	P2 → Stop → Stop	
4	Adjust Limits	Adjusting the upper limit	Up → Up + Down (hold down 5s) → Up or Down →Stop (hold down 5s)
		Adjusting the lower limit	Down → Up + Down (hold down 5s) → Up or Down →Stop (hold down 5s)
5	Activate / Deactivate Jog or tilt mode	P2 → Up → Down	
6	Pair / Unpair Addition Emitter	P2(a) → P2 (a) → P2(b)	
		P1 → Up(b) + Down(b)	
7	Remove All Emitters	P2 → Stop → P2	
8	Delete All Limits	P2 → Down → P2	
9	Speed Regulation	Acceleration setting	Up + Stop (hold down 2s)
		Deceleration setting	Down + Stop (hold down 2s)

Troubleshooting

Issues	Possible causes	Solution
The motor has no response	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
	Incorrect installation 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	Let the motor cool for about 20 min