

INSTALLATION AND OPERATION MANUAL OF ELECTRIC PROJECTION
SCREEN

Suitable for aluminum alloy shell



[Attention) Please read this manual before installing and using the projection screen, and retain this manual for future reference.

Content

General situation	3
Installation	08
Safety description	08
Check the list of items	09
Wall mounting mode	10
Top mounting mode	12
Hanging mounting mode	13
Zenith Angle installation mode	14
Use	15
Electric screen using method	15
Remote control	16
Remote control description	16
Code	17
Failures and warranty	18
Identification and elimination of faults	18

General Notes

1. Thank you for choosing our projection screen for your home or business. Please read the user manual carefully before proceeding. Follow the provided instructions to complete installation quickly and safely.
2. Please ensure there are no other objects such as power switches, outlets, furniture, and windows occupying the space designated to hang the screen.
3. Make sure that the proper mounting anchors are used and the weight of the screen is supported. If you are unsure whether your mounting method can support your screen, please consult a home improvement specialist.
4. When not in use, retract the screen to protect the optical surface from dirt, dust, grime, or any other impurities.
5. When cleaning, use a soft damp cloth with warm water or diluted liquid detergent to remove any marks on the casing or on the screen surface.
6. Never attempt to use any solutions containing corrosive chemicals or abrasive cleaners on the screen surface.
7. To avoid damaging the screen, do not fold the screen or touch the screen directly with your hands, tools, or any other abrasive/sharp object.
8. Do not run the screen continuously for over 4 minutes as the motor has an anti-overheating function and will shut down. If this happens, let the motor cool down for 5-20 minutes and continue use.
9. Spare parts should be stored out of reach of small children in accordance with household safety.
10. Curvature will appear in the edge of fabric when fabric is extended completely. This is a common phenomenon and the curvature will gradually disappear after you hang the screen for about ten minutes.

Safety Guide

1. Do not stand underneath the screen when mounting or hanging. Expansive bolts should be firmly attached and fixed into the wall or ceiling.
2. Be sure the ground wire is connected with the power cable to avoid electric shock.
3. Have two people present when installing the screen.

Installation Notes

- An electric drill with drill and driver bits as well as a level are necessary for installation.
 - Install the screen away from direct sunlight to keep screen material exposure to UV at a minimum.
 - Install in a room without excess humidity.
 - Only install the screen if it is in an electrically stable environment.
 - Keep the screen away from devices (heaters, etc.) that cause large changes in temperature and humidity.
 - Handle screen with care, avoid vibrations and drops.
- Notice: As for the shipping reason, so the remote control is without battery, pls buy the battery on your local store (battery name:CR2032)



General situation

Professional Aluminum alloy electric screen

With a breakthrough design concept and configuration, our electric screen has very high quality and standard; a number of patents and mute technology have been used, showing the new trend of top screen technology to the public. Equipped with supermute tube motor and QUIETTUNING mute technology, the lifting speed is 50% faster than synchronous motor screen. What's more, the noise is decreased by 80%.

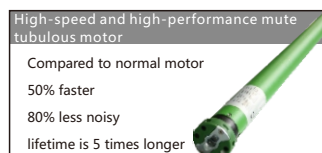


Gorgeous

The designer has added the concepts of dynamics, elegance and smoothness, to create gorgeous design style. The end cap on the front and side adopts card slot connection. No exposed screw. It is well designed.

High-performance power

Firstly adopted positive shock absorption stable system, it is equipped with high-speed and high-performance mute tubulous motor, which reflects top power technology;



Remote Transmitter

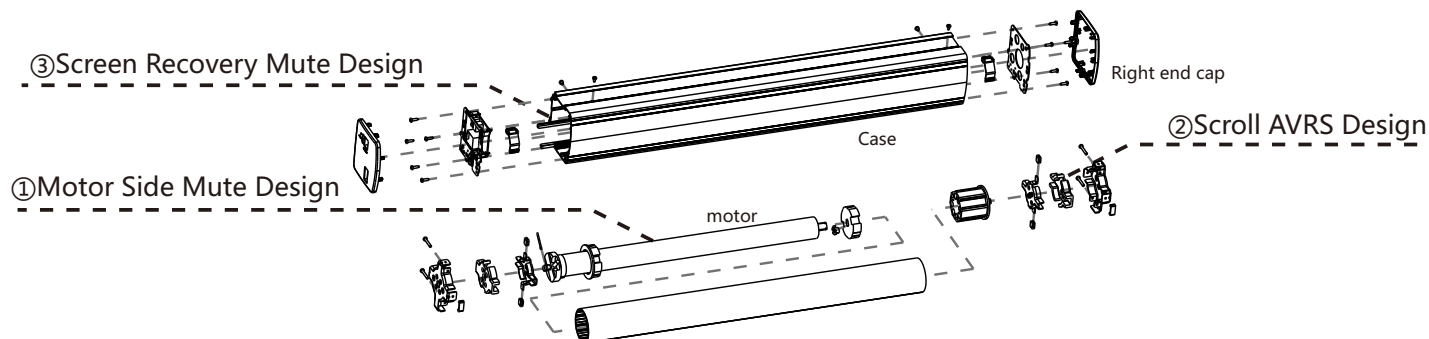
General situation

Quiet

This product adopts complete QuietTuning technology, which includes three major designs:

- ① Motor Side Mute Design: Built-in positive shock absorption mute technology tubulous motor;
- ② Scroll AVRS Design: Moving parts and fixed parts are adopted flexibly connected. Vibration of moving parts is absorbed by flexible connection device, to reduce noise and vibration caused by resonance of motor and the shell.
- ③ Screen Recovery Mute Design: While recovering the screen, the screen and the shell have mutual movement. Also, when the shell and the balance weight lever are connected, there will be noise. The sound absorption strip will reduce the noise by 30%. You will nearly hear no noise 2 meters away.

QuietTuning Technology



General situation

smart aluminum alloy electric screen

Standard configuration

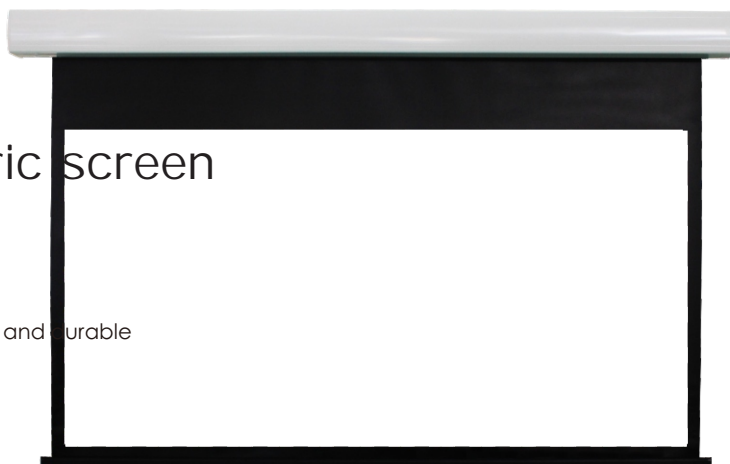
Screen: 4K/HD screen

Motor: high quality synchronous motor, stable and durable

Case: Aluminum alloy case



Remote Transmitter
(Optional)



Appearance design

The delicate and exquisite appearance, coupled with aluminum alloy textures, is more suitable for the modern family.

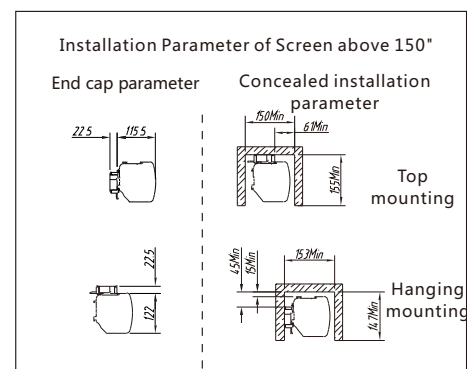
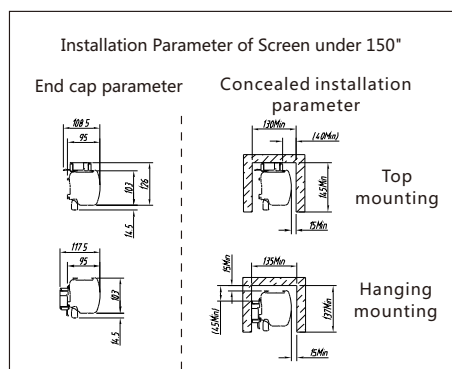
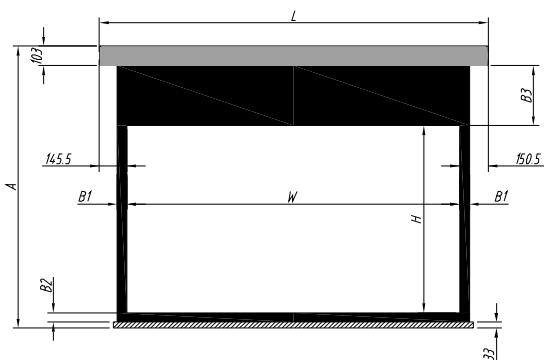
Stable motor

Equipped with high quality synchronous motor, to ensure that the screen runs smoothly.

General situation

Screen parameter

Format	Size	Projection Area		Left-Right Frame	Bottom Frame	Top black area	Screen Total Height	Screen Total Length(L)		Packing Size<L(mm)*W(mm)*H(mm)>		N.W	G.W
		W(mm)	H(mm)	(B1 Size)	(B2 Size)	(B3 Size)	(A Size)	non-tab Ele Screen	Tab tension ele screen	Ele Screen	Ele tab tension Screen	(KG)	(KG)
16:9	80"	1771	996	50	50	664	1850	2037	2220	2296*150*158	2446*150*158	13.5	17.9
	92"	2037	1145	50	50	515	1850	2302	2485	2562*150*158	2712*150*158	14.6	19.4
	100"	2214	1245	50	50	415	1850	2479	2662	2739*150*158	2889*150*158	15.4	20.3
	110"	2435	1369	50	50	450	2009	2701	2885	2960*150*158	3110*150*158	16.6	21.7
	120"	2656	1494	50	50	320	2004	2922	3106	3182*150*158	3331*150*158	17.6	23.1
	130"	2878	1618	50	50	200	2008	3143	3328	3403*150*158	3553*150*158	18	24
	135"	2989	1680	50	50	130	2001	3254	3439	3514*150*158	3664*150*158	19	24.8



Installation

! Important safety instruction

Warning Please strictly comply with the following safety rules, wrong installation or using methods will bring damage to machinery or personnel injury.

Considerations for installing / using this product

1. Please handle with care.
2. Don't expose it in the rain and keep away from water.
3. Keep away from fire/heat.
4. Please don't fold or scratch the screen.
5. Check that the voltage is consistent with the requirement to use voltage, it can only connect the power plug and socket with grounding wire.
6. Don't scratching the screen fabric.
7. Please recover the screen after used.
8. Don't rise and fall the screen in short time.
9. Ensure the screen to be installed in a horizontal position.



Please follow the manual to operate.
Please contact professional services staff for installation and maintenance.



Please pay attention to insulation of product Shell and accessories.
Do not remove the end cap, to avoid risk of electric shock.

- For any fault of installation or operation, we do not assume compensation liability for any mechanical damage or casualties.

**Forbidden arbitrarily debug the screen.
It must be debugged under the guidance of professionals**

Cleanning

Please use dry and soft cloth with non - corrosive components and neutral soap water to clean the screen and the shell carefully. Do not use chemicals or corrosive materials, or it will damage the product.

Installation

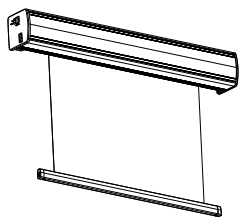
Check the list of items

Our company reserves the right to the accessories contained in the manual, and we are subject to change without notice.

installation instructions(1 copy)

warranty card(1 copy)

reminder sticker(1 copy)



Screen(1)



Remote Transmitter(1)
(optional)



Movable all-round
installation pendant(2)



Ring safe lock(2)



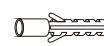
Ring(2)



M6 sleeve hook(2)



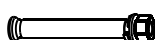
5X40 tapping screw(4)



No.8 Swell plastic button(4)



Het nut(2)

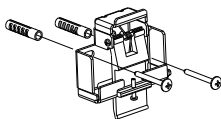


Sleeve screw(4)

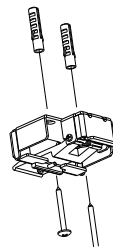
Installation

Installation methods

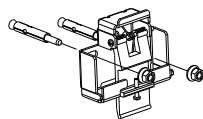
Wooden wall installation mode



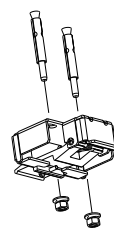
Wooden ceiling top mounting installation mode



Concrete/brick wall installation mode



Concrete mounting installation mode



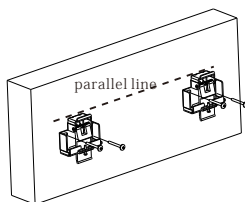
Installation

► Wall mounting installation

⚠ Warning

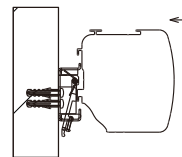
When installing the screen on the wall, please make sure the mounting points are on the same horizontal plane. When the screen expanded, it must keep parallel to the wall.

1



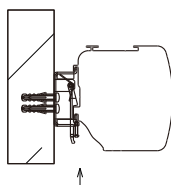
1.If conditions permit, use sleeve screw or swell plastic button on the solid wall with tapping screw(use tapping screws on wooden walls), to install the movable all-round installation pendant horizontally and fix it.

2



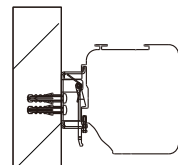
2.According to wall mounting installation principle, lift the screen, and let the shell match the movable all-round installation pendant, the screen falls by gravity, and when you hear a click, it means the screen has been installed.

3



3. Finished.

4



4. Hold the shell with one hand when disassemble the screen. Unbutton with fingers.Push up the shell and the the screen can be disassembled.

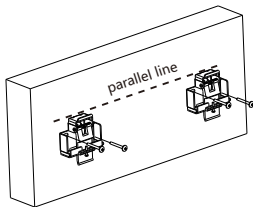
Installation

► Ceiling top mounting installation

⚠ Warning

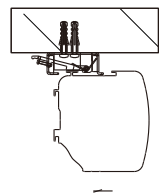
While installing ceiling top mounting screen, the ceiling must have enough bearing capacity, in order to avoid the screen from falling off, and then lead to accidents and injuries.

1



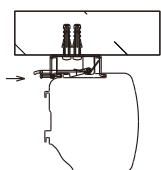
1.If conditions permit, use sleeve screw or swell plastic button on the solid wall with tapping screw(use tapping screws on wooden walls), to install the movable all-round installation pendant horizontally and fix it.

2



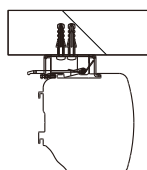
2. According to wall mounting installation principle, lift the screen, and let the shell match the movable all-round installation pendant, the screen falls by gravity, and when you hear a click, it means the screen has been installed.

3



3. Finished

4



4. Hold the shell with one hand when disassemble the screen. Unbutton with fingers. Push up the shell and the the screen can be disassembled.

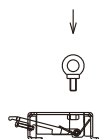
Installation

► Ceiling hanging installation

⚠ Warning

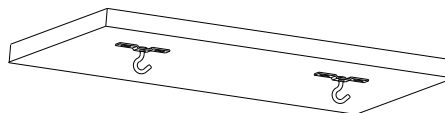
While installing ceiling top mounting screen, the ceiling must have enough bearing capacity, in order to avoid the screen from falling off, and then lead to accidents and injuries.

1



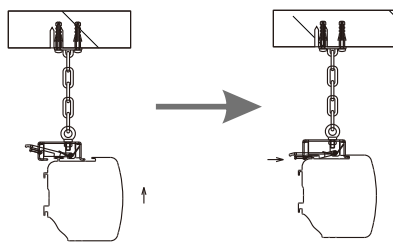
1. Movable all-round installation pendant connects with the ring through the hole.

2



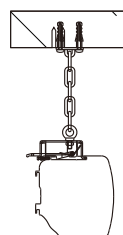
2.If conditions permit, use sleeve screws on solid walls.

3



3. If is the ceiling is too high, please use clasp to connect the ring and screen.

4



4. Finished

Installation

► Zenith Angle installation mode

⚠ Warning

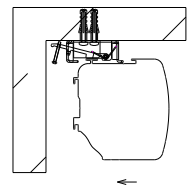
While installing ceiling top mounting screen, the ceiling must have enough bearing capacity, in order to avoid the screen from falling off, and then lead to accidents and injuries.

1



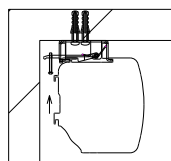
1.If conditions permit, use sleeve screw or swell plastic button on the solid wall with tapping screw(use tapping screws on wooden walls), to install the movable all-round installation pendant horizontally and fix it.

2



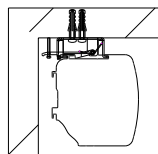
2. According to wall mounting installation principle, lift the screen, and let the shell match the movable all-round installation pendant, the screen falls by gravity, and when you hear a click, it means the screen has been installed.

3



3. Finished.

4



4. Hold the shell with one hand when disassemble the screen. Unbutton with fingers. Push up the shell and the the screen can be disassembled.

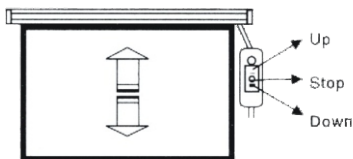
Use

Electric screen using method

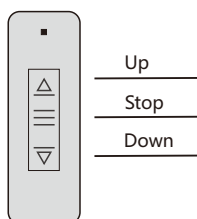
There are two electric screen control modes, manual control mode and remote control mode.

First: Manual control instruction:

Use the switch to control the screen up and down. When you choose “down” , the screen will expand; when you choose “up” , the screen will recover.



Second: Build-in wireless control/external wireless control/ IR remote control is optional for electric screen users.



1.extend :

The screen will fall to the setting position when you push this button.

2.recover :

The screen will recover when you push this button.

3.Stop

The screen will stop when you push this button.

Remote control

Control Mode

1

Remote control

Remote-controlled distance reaches 25m in any direction



2

IR control

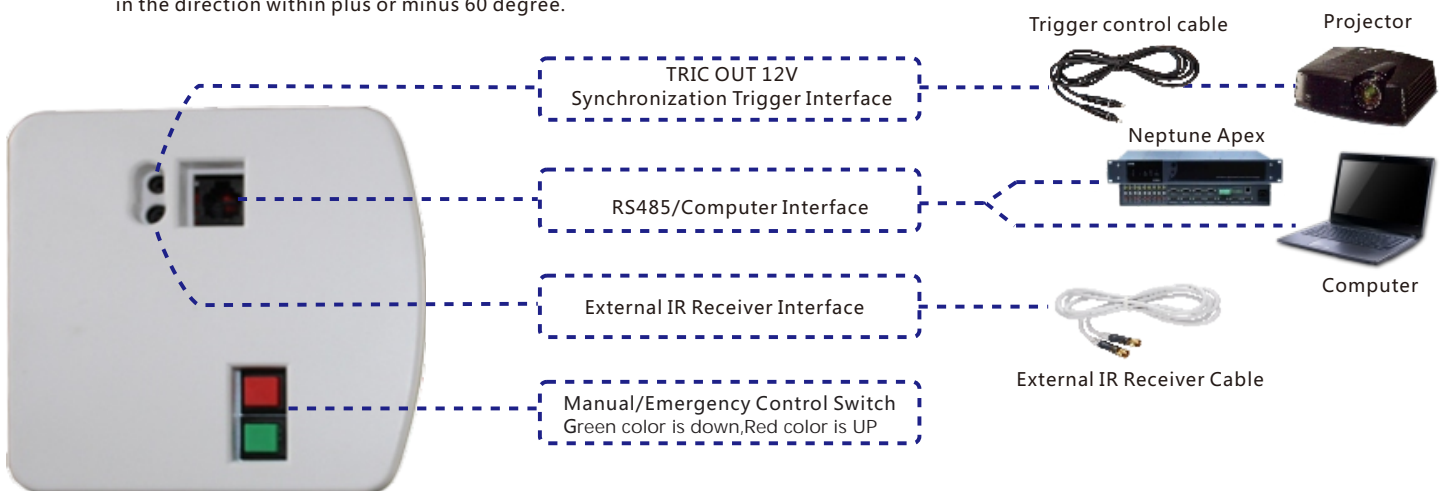
Remote-controlled distance reaches 8m, in the direction within plus or minus 60 degree.

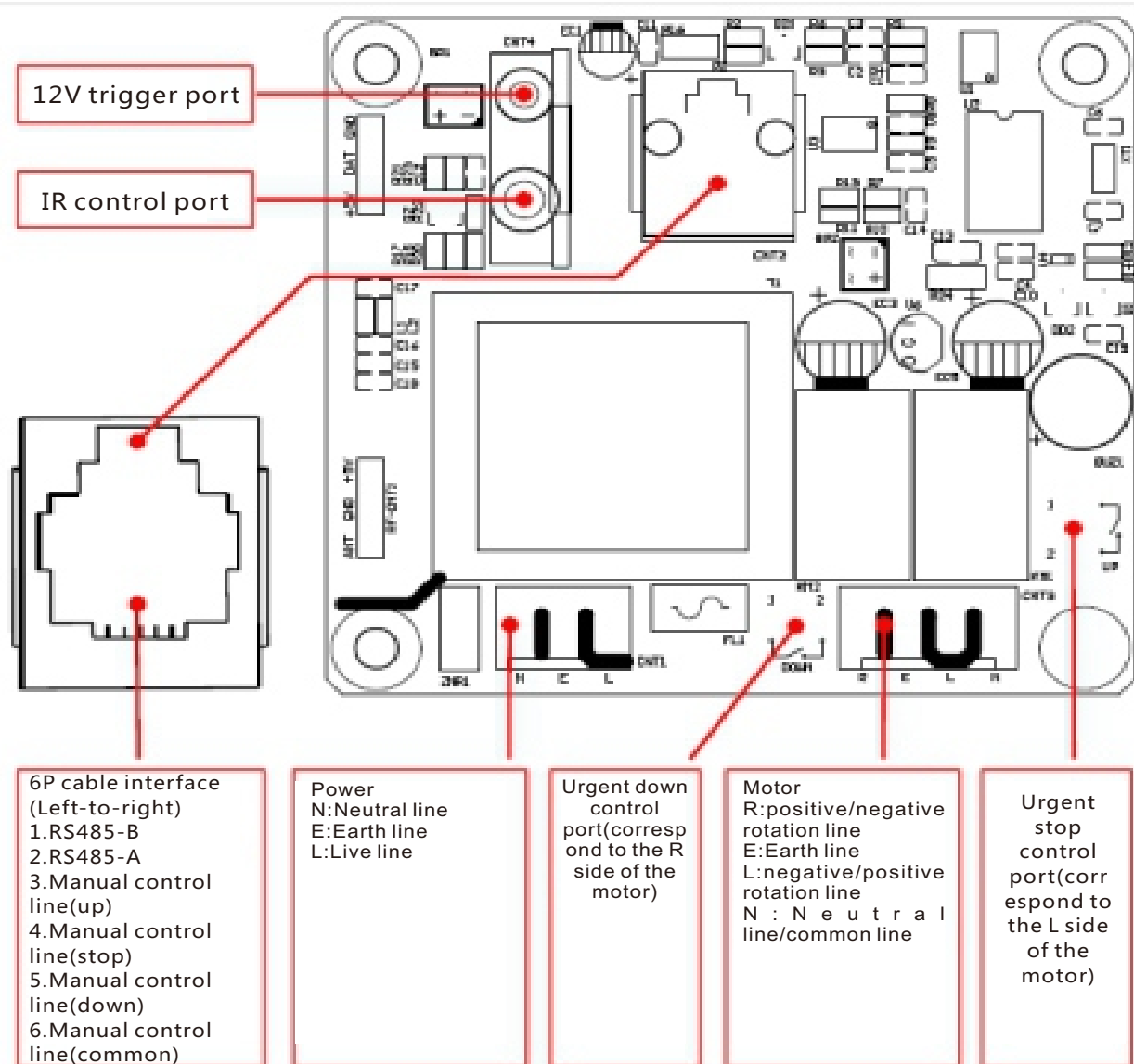


3

End cap control

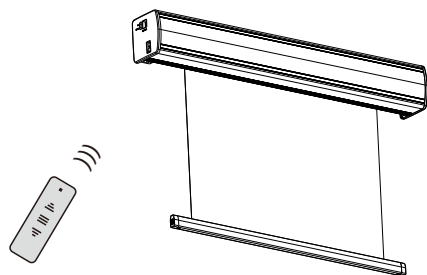
Remote-controlled distance reaches 8m, in the direction within plus or minus 60 degree.





Introduction of the built-in control

Built-in control coding steps



Enter coding state :

1) Long press the "up" button of the transmitter for 5 seconds, the receiver is powered up, the receiver buzzer rings slowly, then come to the coding state.

2) Long press the "stop" button of the coded transmitter for 5 seconds, the receiver buzzer rings slowly, then come to the coding state.

If there are not any action in 5 seconds on the coding state, the receiver buzzer will stop ringing, it automatically exit coding state.

Coding:

Coding state, press the "up" button, the receiver buzzer quickly rings 3 times, coding succeeded(The transmitter can be matched up to 20 remote controllers)

Delete single code :

Coding state, press the down button, the receiver buzzer quickly rings 3 times, single code is deleted successfully

Delete full code :

Coding state, press the delete code button on the back of the transmitter, the receiver buzzer quickly rings 3 times, full code is deleted successfully.

External DC/AC 12V power control

- A. DC/AC 12V When power on, the motor is automatically down ,
- B. DC/AC 12V When power off, the motor is automatically up ,
- C. Input voltage range: DC/AC 5V — DC/AC 20V

Remote control

Rs485 control

A. RS485 port setting

- 1) Baud rate: 2400
- 2) Parameter length: 8
- 3) Odd-even check: N
- 4) Start position: 1
- 5) Stop position: 1

B. Control code

- 1) Up code: 0xFF 0xAA 0xEE 0xEE 0xDD
- 2) Stop code: 0xFF 0xAA 0xEE 0xEE 0xCC
- 3) Down code: 0xFF 0xAA 0xEE 0xEE 0xEE

C. Function control

- 1) Up code: motor up
- 2) Stop code: motor stop
- 3) Down code: motor down

Identification and elimination of faults

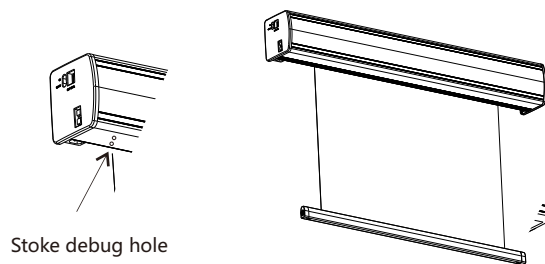
Fault phenomenon	Fault analysis	Solution
The indicator light of the transmitter flashes but the receiver has no response.	1. The wire connection of receiver is correct or not. 2. Check the transmitter is coded or not.	A. According to the manual to connect the wire. B. The transmitter and the receiver are coded correctly.
The transmitter and the receiver operate smoothly but the motor does not operate.	1. Whether the motor wired is correct.	A. According to the manual to connect the wire.
Remote control is insensitive and has no response.	1. Whether the battery of the remote controller is run out of.	A. Replace a new battery.

Identification and elimination of faults

Symptom	Symptom analysis	Solution
There is no response when controlling the screen up and down	Battery is run out of.	Replace new battery
	Power line hasn't been connected.	Ensure that appropriate power is connected
The screen is lower than the setting position or not folded or unfolded completely	Stoke have been changed	Refer to this manual to adjust the up stoke and down stoke

Screen stoke regulation

Forbidden to arbitrarily debug the screen stoke, which should be debugged under the guidance of professionals



A:Debug the up position(black bottom):

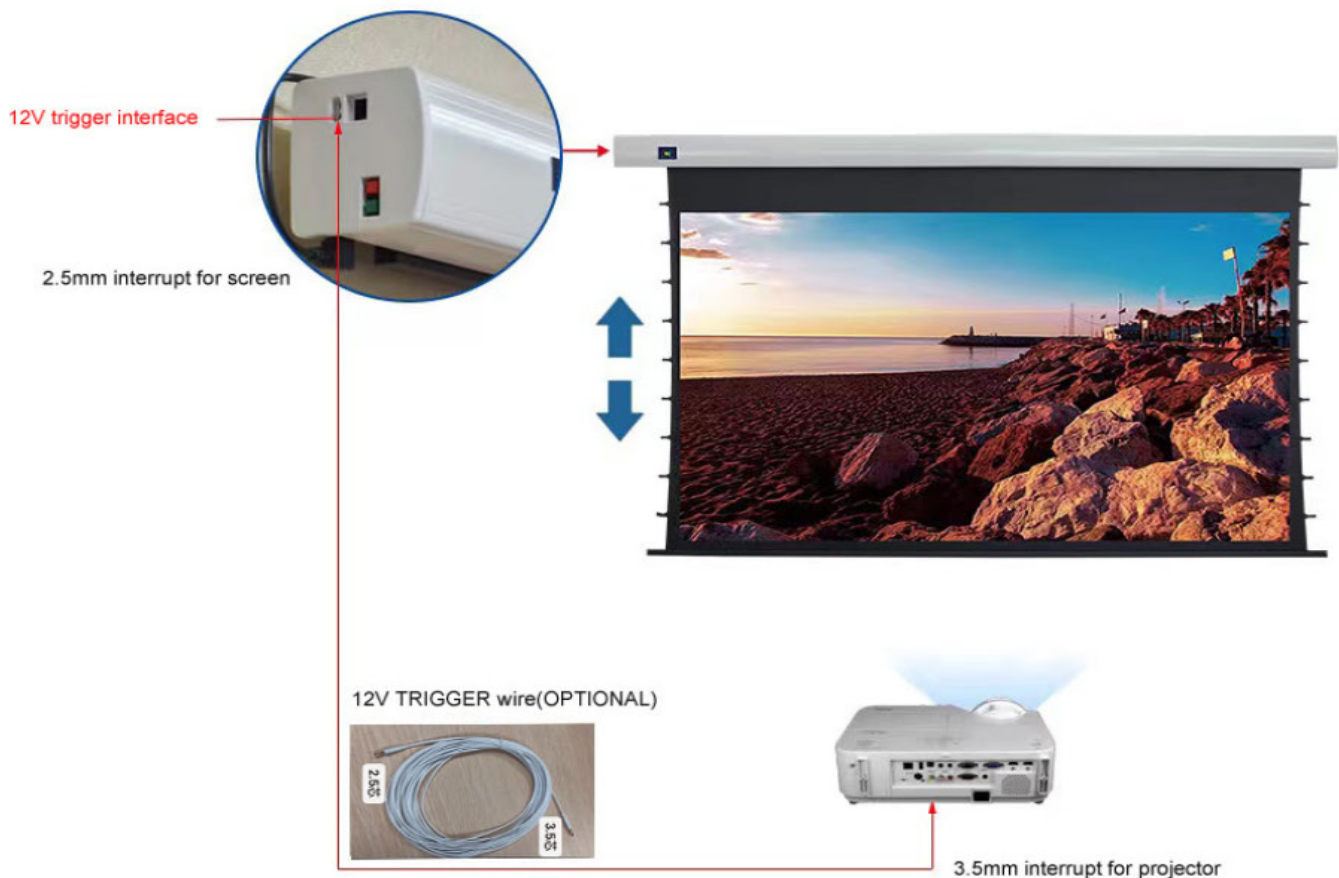
- 1) Stoke debug hole is "red button"
- 2) To increase the position, please rotate in the direction of (+), 2.15cm per circle;
- 3) To decrease the position, please rotate in the direction of (-), 2.15cm per circle

B:Debug the down position(black top):

- 1) Stoke debug hole is "white button"
- 2) To decrease the position, please rotate in the direction of (-), 2.15cm per circle;
- 3) To increase the position, please rotate in the direction of (+) 2.15cm per circle.

Motorized screen linking with the Projector method

Method one:



Method Two:



Triggers working Principle:

- A. The projector is connected to the trigger, and the trigger then connected to the alternating current.
- B. Press the projector remote control turn ON or turn OFF, and then the projection screen will automatically DOWN or UP

How To Extend the TOP black color Area?

The maximum distance X from which the lower limit moves downward (A is the projection size below):

screen $\leq 110''$, $X < 50\text{mm}$

From $110''$ to $135''$, $X < 90\text{mm}$

from $135''$ to $170''$, $X < 110\text{mm}$

When the distance of the adjustment lower limit is more than the above X value, the curtain will be easily damaged, and the screen will appear as if the screen is running downwards and then running upwards. Damage due to adjustment beyond the product range is not covered by the warranty!

So For 100inch screen, the most black area can extend is 50mm only!!

Notice: there are totally two holes on the Shell, one hole already Sealed (if you adjust on this hole, then the screen 100% will be damaged). Only another one hole can be used for adjust.

1) Click the down button on the remote control to lower the motorized screen to the bottom, and record the current position, the position you want to adjust, and the maximum distance X position with reference to the electric screen.

2) Insert the adjustment rod into the knob of the adjustment lower limit position (to confirm that the hex head of the adjustment rod is inserted into the knob, the visual hex head is inserted, and the hexagonal edge is not visible)

3) Rotate a half turn counterclockwise (accurately grasp the number of turns), at this time A. Immediate action of the screen surface, following the adjustment rod rotation and downward, indicating that the knob selection and rotation direction are correct.

B. If there is no change, reverse rotation (counterclockwise) half-turn reset, then continue reverse rotation (counterclockwise) half-turn and observe:

B1, the screen surface action, follow the adjustment rod rotation and downward, indicating that the knob selection and rotation direction

* correct.

B2, the screen still has no change, indicating that the knob is selected incorrectly.

At this time, turn clockwise back to half a turn to reset the upper limit of the electric screen to avoid damage to the electric screen due to the change of the upper limit. Return to 4.2 and replace the adjusted knob.

4) If the adjustment knob and direction are correct as in step 3, slowly rotate the adjustment rod to lower the electric screen to the desired position.

5) When the adjustment is over, rotate the knob in the opposite direction. Then click the up button on the remote control, the screen will retract a distance, and then press the down button of the remote control to check the position of the lower limit.



After finish adjust the screen, you need to adjust the wire also, like below photo:



How To Shorten the TOP black color Area ?

Notice: there are totally two holes on the Shell, one hole already Sealed (if you adjust on this hole, then the screen 100% will be damaged). Only another one hole can be used for adjustment.

- 1) Click the down button on the remote control to lower the motorized screen to the bottom and record the position with reference to the object next to the motorized screen.
- 2) Click the up button of the remote control. When the electric screen is running to the middle position, press the pause button to stop the electric screen in the middle position.
- 3) Insert the adjustment rod into the adjustment lower limit knob (to confirm that the adjustment rod's hex head is inserted into the knob, the visual hex head is inserted, and you can't see the six corner edge).
- 4) Rotate clockwise 1 turn (accurately grasp the number of turns), then press the row button to lower the motorized screen to the bottom.
- 5) A. If the TOP Black area is short than before, it means the knob is selected and the rotation direction is correct.
C. If there is no change, the knob is selected incorrectly. At this time, the same number of turns should be reversed to avoid the upper limit being changed and the electric screen being damaged.
- 6) After confirming the adjustment knob and direction correct, then lower the screen and repeat the operation until the screen stops at the height position you need.

