Grandview®

Grandview®



Model: SK - MIxx

Guangzhou Grandview Creative Technology Co., Ltd Add: No.1 Building of No.43 South International Trade Avenue, HualongTown, Panyu District, Guangzhou China. Tel: +8620-8489-9499 Fax: +8620-8480-5299

Web: www.grandviewscreen.com



Thank you for purchasing a Grandview projection screen. Before use, please read instructions carefully. After installation, store instructions for future reference.

Instruction Manual for Skyshow Series Motorized Screen

Caution

Warnings: Please prevent screen from wet place to avoid electric or fire dangerous.

- 1. Please read carefully with this instructions before installation to avoid damage to product causing by inappropriate installation or operation.
- 2. Please keep the screen away from hot sources, such as radiator, heating machine, fireplace, loudspeaker or other relative device.
- 3. Only Plug with ground wire is acceptable.
- 4. Only accessories from authorized supplier is acceptable.
- 5. Please unplug the power wire when lighting and raining or not use with a long time.
- 6. Please handle the repair work to the professional agent.
- 7. Please prevent screen from water as well as putting stuff with water (such as vase) on the screen.
- 8. As soon as the plug of the screen is connected to the power source, the screen is connecting with electricity.
- 9. Please use the approved power line (three-core power line)/ device interface/power plug.
- 10. Please use the rating (voltage, amps) power line (three-core power line) / device interface/power plug. If have any questions about power line/ device interface/power plug, please contact the professional people.
- 11. After installation, please locate a power device in order to disconnect power or connect the power plug to electrical socket. This electrical socket should be installed to a convenient position. If the accident occurs during operation, please disconnect power or take out the power plug.
- 12. The ceiling or wall used for fixture installation must be secure enough; load-bearing requirement must be 4 times of the screen to prevent the screens from falling.



To prevent from electric dangerous, please don't remove the end cap. There is no need for users to check the parts inside, please handle the problems to professional repairman.



Please notice the non-insulated voltage of the spare parts to prevent from electric dangerous.



Please operate according to the user manual with the screen.

Questions & Answers

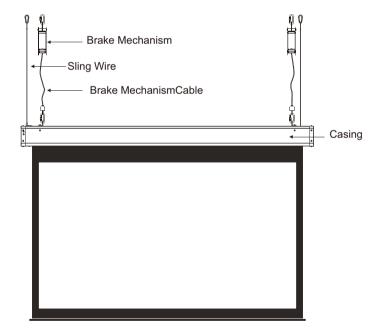
Fabrics of Grandview motorized screen can be used for years, most problems are cost by simple incidents. If problem occurs, please find the list below for some common solutions. If problems keep on, please contact authorized agent of Grandview or call service number: (8620)34806166

1. Can not be used after installation completely.

Reasons	Solutions
No power or wrong installation of batteries in controller.	Please check about the batteries as instruction manual.
Power line disconnection	Please connect the power line as instruction manual.
Sling Wheel is blocked	Return the sling wheel by hands.

2. The casing can drop, but can not rise.

Reasons	Solutions
Secure Positioning Executive Piece is blocked	Return the Secure Positioning Executive Piece by hands



Caution

1. Safety

- a. Please ensure whether the operating voltage is the same as local voltage. If the voltage adapter is required, please contact the professional agent.
- b. If any liquid or solid fall into the casing, please disconnect power and contact the professional agent.
- c. If the screen is not being used for an extended period of time, please disconnect electricity.
- d. Take out the power plug by hand.

e. Wall power socket needs to be installed at a convenient position. f. As soon as the plug of the screen is connected to the power source, the screen is connecting with electricity.

g. Do not put the hands into casing.

2. Lighting

- a. Do not stay the screen under lighting or sunlight to achieve the best viewing image.
- b. Recommend using spotlight in viewing process, and magnesium light is not recommended.
- c. The windows facing to screen need to be blocked by opaque curtain.
- d. Using the screen in the room without reflective materials.

3. Cleaning and Maintenance

After cleaning, please disconnect power.

(1). Casing Clean

a.Please use the soft dry-cloth to clean the casing. Please remove the stubborn stains with Neutral detergent, and then use the soft-cloth to clean.

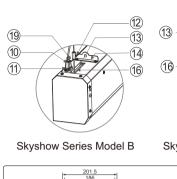
(2). Fabric Clean

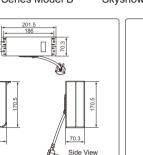
- a. The damages of appearance of screen will influence the viewing image, please note the following: ① Do not touch the screen by hands.
- (2) Please do not mark the screen surface
- ③ Do not shave the screen by finger or edge tool to avoid the crack or scratch.
- ④ Do not clean the screen with alcohol, benzene or thinner.
- b. Retract the screen after using.
- c. Please retract the screen without any insects, dust and foreign bodies.

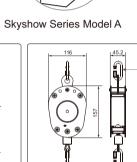
b. The excess using of rubber or vinyl resin products will damage the appearance of casing.

SkyShow series is a perfect solution for installation in venues with high ceiling or pillarsthat range from 5m to 8m.

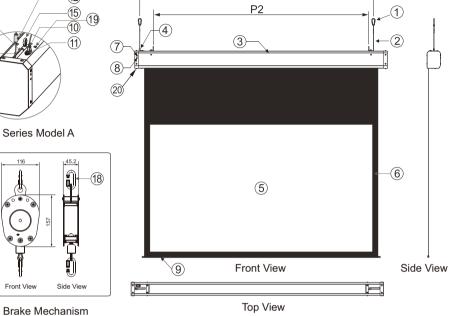
Description







Front View



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Screen parts

Cable Box

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67

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H 170.5

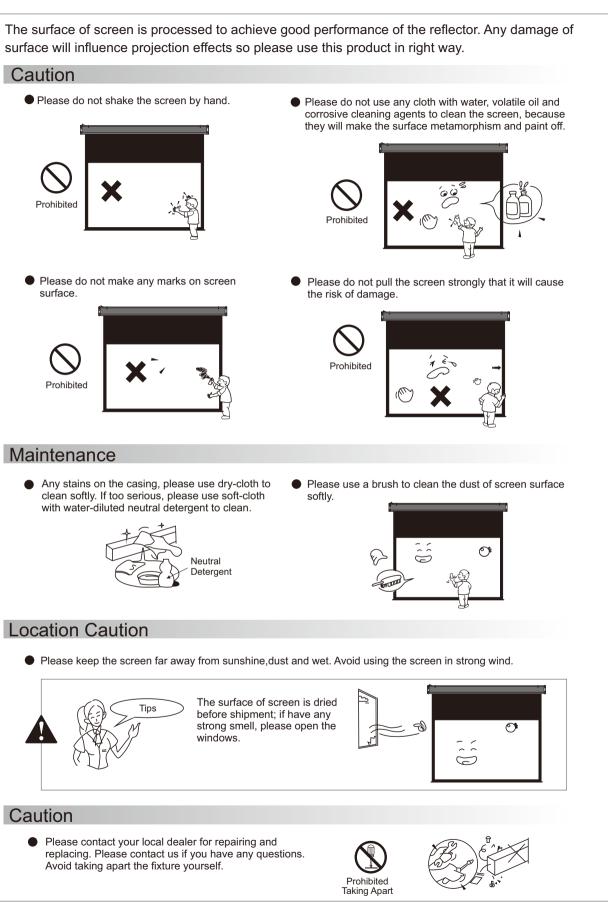
Front View

1	Hook	8	Extending Limitation	14	Hanging Piece for Brake Mechanism (seriesB)
2	Sling Wire	9	Low Bar	15	Hanging Hook for Brake Mechanism (series A)
3	Casing	10	Cable Box Plug	16	Secure Positioning Executive Piece
4	Secure Positioning Piece	(1)	Socket	17	Cable Box Socket
(5)	Screen Fabric	(12)	Positioning Screw	18	Buckle
6	Black Border	13	Carriage Wheel	19	Central Control Interface
7	Retracting Limitation			20	LED

Accessaries

Flat Network Control Cable box (1 pc) ■ Ø5 x 40mm Tapping screws and caps (4 sets) Remote controller (1pc) Cable Lock (1pc) ■ Ø4x10 Screw (1 pc) M4 Adjustment Key (1 pc) Cable lock (1pc) (@0000> \sqrt{O} Brake Mechanism (2 pcs) M5x10mm Screw(2pcs) Buckle (4 pcs) Instruction Manual (1pc) Ð Warranty Card (1pc)

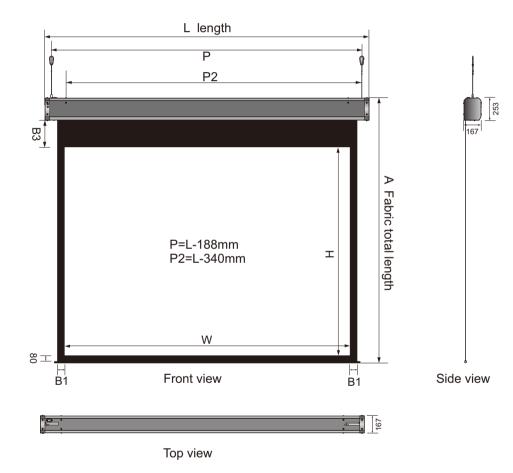
Caution Illustration



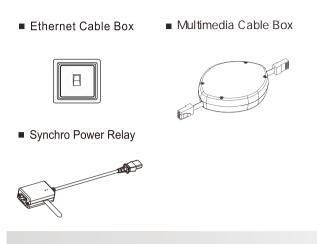
Model A Series Data

Format	Model	Size (in)	Viewin W (mm)	g area H (mm)	L (mm)	A (mm)	B1(mm)	B3(mm)	Net weight (Kg)
4:3	SK-M150	150"	3048	2286	3405	2819	80	200	
	SK-M180	180"	3620	2715	3977	3248	80	200	
	SK-M200	200"	4020	3015	4377	3548	80	200	
	SK-M240	240"	4878	3660	5235	4193	80	200	
16:9	SK-M150	150"	3320	1867	3677	2400	80	200	
	SK-M180	180"	3984	2240	4341	2773	80	200	

Remarks: Casing length will change upon different screen sizes, above specifications are subject to change without informing. (The tolerance for L is 3mm.)



Optional Accessories



Installatioon Instruction

Take out all the parts from the packaging and follow the accessories guideline to ensure you have all parts, and then follow the operations to install (Please follow model B series installation, which is the same as model A).

1.Fix the rings (not accessories) on the ceiling according the distance P1 between two hooks (note: make sure each of rings can endure at least 100Kg to avoid falling down) (figure 1).

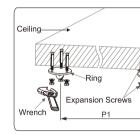


Figure 1

2.Fix the rings (not accessories) on the ceiling according the distance P2 between two hanging pieces of brake mechanism (note: make sure each of rings can endure at least 200Kg to avoid falling down) (figure 2).

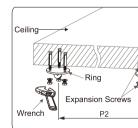


Figure 2

Wall Switch

Ceiling Installation Part

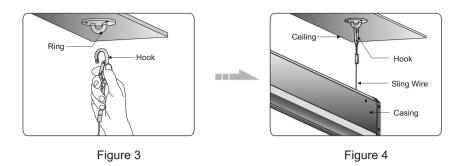








3. To hang the hooks on the rings (note: do not operate after pull out the cable from cable box) (figure 3-4).



4. Hook the buckles of brake mechanism on the rings, and then fasten the buckles (figure 5-6)

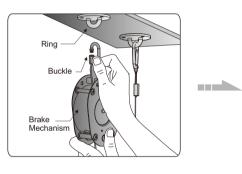


Figure 5

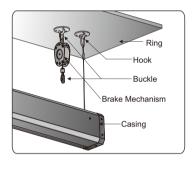


Figure 6

5. Hook the low buckles of brake mechanism on the hanging pieces, and then fasten the buckles (figure 7-8)

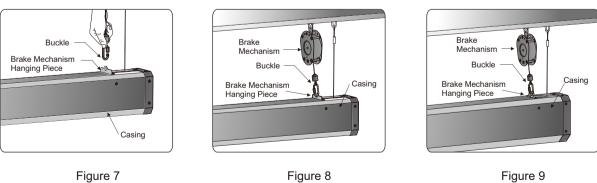


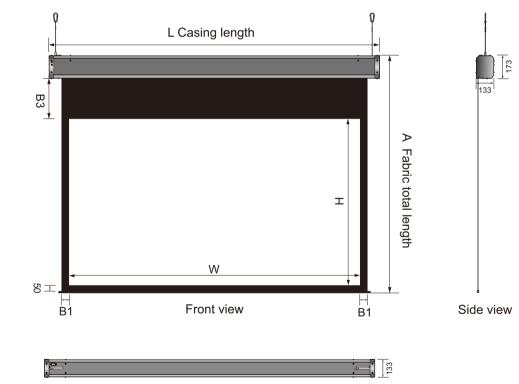
Figure 9

Specification

Model B Series Data

Format	Model	Size (in)	Viewin	ig area	L (mm)	A (mm)	B1(mm)	B3(mm)	Net weight (Kg)			
Format	Model	Size (III)	W (mm)	H (mm)	L ((1111))	Α (ΠΠΠ)						
1:1	SK-M60	60"	1520	1520	1767	1970	25	200	24.7			
	SK-M70	70"	1780	1780	2030	2230	23	200	29.0			
	SK-M84	84"	2030	2030	2327	2480	50	200	33.5			
	SK-M96	96"	2338	2338	2635	2788	50	200	38.8			
	SK-M100	100"	2540	2540	2837	2990	50	200	42.9			
4:3	SK-M100	100"	2030	1520	2327	2327 1970		200	34.3			
	SK-M120	120"	2338	1755	2635	2205	50	200	38.7			
	SK-M150	150"	3048	2286	3345	2736	50	200	50.2			
16:9	SK-M77	77"	1710	958	2007	1408	50	200	28.1			
	SK-M80	80"	1771	996	2068	1446	50	200	29.1			
	SK-M92	92"	2030	1145	1145	1145		2327	1595	50	200	33.4
	SK-M100	100"	2214	1245	2511	1695	50	200	36.3			
	SK-M106	106"	2338	1320	2635	1770	50	200	38.3			
	SK-M120	120"	2656	1494	2953	1944	50	200	43.7			
	SK-M136	136"	3048	1715	3345	2165	50	200	50.1			

Remarks: Casing length will change upon different screen sizes, above specifications are subject to change without informing. (The tolerance for L is 3mm.)



Top view

Optional

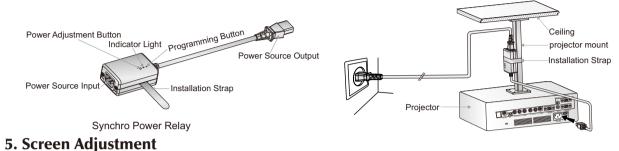
1. Multimedia cable box; 5M automatic retracting.

Only use for the products which have this joint and the products can work with the multimedia cable to connect computer or central control. And they can be controlled by RS-232, RS-485 and trigger.

Multimedia Cable Box

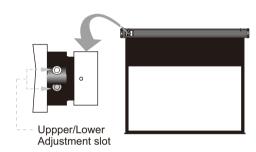
2. Synchro Power Relay

Connect the projector with Synchro Power Relay, and then the screen can be controlled by projector.



Motor Positioning

Don't roll out and retract the screen continuously over 4 minutes in a time to avoid overheating. If the motor overheats, keep 30 minutes for heat elimination .No lubrication using for the motor, the drop and retract limit of the screen has been preposition to an optimal configuration before delivery , In order to avoid motor damage ,please ask the local dealer or professional for consultation when a new position setting is needed .



"Screen Extending" adjustment

Adjust after the screen fabric is dropping completely:

(1) To adjust the position of the viewing area when the screen is falling down, first of all please insert the adjuster in the slot, the viewing area will rise up about 40mm if turning the adjuster for a circle anticlockwise.

Note: Only when pressing "UP" button and operating for few seconds, that you can observe the differences after position adjustment distinctly; then press "DOWN" button you can easily see the difference of the position of the screen.

(2) If over-adjusting, anticlockwise adjustment can regulate the screen retraction. Adjustment is only after the screen is completely dropped and up or down control is not in use.

A Please operate carefully to avoid motor and screen damage by over-retraction.

"Screen Retracting" adjustment

Only for your information: turn off the positioning switch.

(Note: the adjustment is extremely dangerous, please ask our technician for assistance without fail to prevent destroying the screen or guarantee invalidation.)

"The Note"strongly suggests users not adjust the retraction limit privately; all the screens are preset before delivery which satisfies most of the users' demand.

Description as follow is only restricted to few situations:

(1)Insert the adjuster in the adjusting slot (in the place where is nearest to the rear of the screen), when the screen fabric is retracted to the casing, adjust the motor anchor point. The screen can be positioned at where 40mm away from the casing if turning the adjuster for a circle deasil.

Note: Only when pressing "DOWN" button and operating for few seconds, that you can observe the differences after position adjustment distinctly; then press "UP" button you can easily see the difference of the position of the screen.

To avoid damage, please do not operate the screen before the first step.

(2)Turn the Motor Adjusting Slot anticlockwise for one circle, the screen will be positioned at where 40mm away from the casing.

A Please operate carefully to avoid motor and screen damage by over-retraction.

6. Drill 4 holes on the ceiling, and then select 5x40mm tapping screws to fasten the cable box on the ceiling. (Recommendation: cable box must be installed above the power input of screen) (figure 10-11).



Figure 10

7. The screen includes two parts of cable; there are cable box and main cable. Firstly, please insert the plug into socket (figure 12-13).

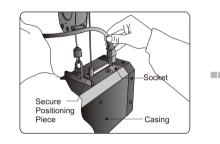


Figure 12

8. Loop the cable with cable lock, and then fasten it onto the casing top via 4x10mm screw(note: separate the cable and power to avoid the damages of power line).

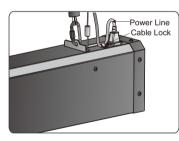


Figure 14

9. Insert the plug from main cable into the socket on the cable box (figure 15-16).

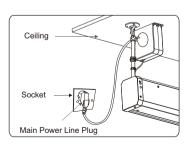
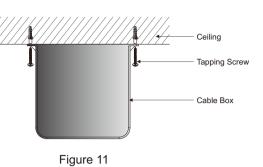


Figure 16



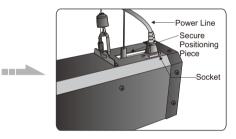
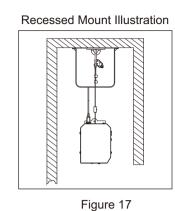


Figure 13

Recessed Mount

The screen can be installed on the ceiling, with the reference to the above-mentioned steps 1-9 (figure 17).

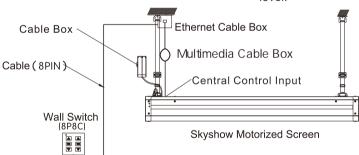


Product Instruction

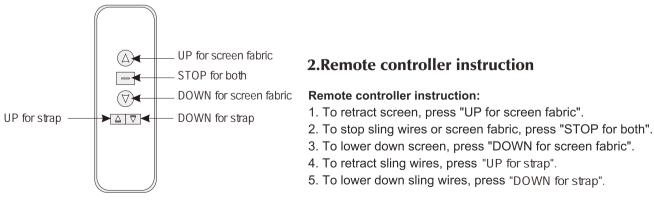


Please use the wall switch following the marking and symbols on switch.

Note: please fix the cable box on the ceiling, and please ensure the cable box, retractor and central control input are at the same level.



Wall Switch Wiring Description



Front view

c.To press the localizer hole at the back of the remote controller with one small pin or equivalence for about 3 seconds and then release, then press Down button for sling wire to the desired position and stop, the screen is already reset for its extend limit (figure 28-29).

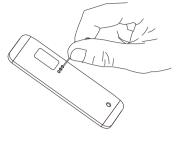


Figure 28

Notice: for ensuring the security of positioning function, the distance between the upper limitation and secure positioning mechanism must be 10cm. The effective setting period of electric positioning should be 60 seconds, after 60 seconds will return to normal situation. If the setting fails within 60 seconds, please repeat as following step: to press the setting button, then LED light will turn off; press the setting button again, then LED light will turn on. In this movement, the resetting function will begin.

(3). Upper Limitation Secure Positioning

For the safety, there is also Secure Positioning Piece besides the Remote Localizer. a. Casing upper limitation uses the touching switch, consists of secure positioning piece system. (Refer to description). You just need to loose the screw on the position piece and then fasten again after moving it to the desired position (figure 30).

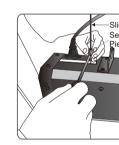
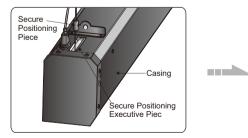


Figure 30

Remark: the position of positioning piece needs to be set according to the screen of electric positioning at highest upper limitation.

b. When the casing retracts to a certain height and reach the secure positioning piece, the touching switch would be off by being pressed by secure positioning piece onto the secure positioning executive piece . The casing will not rise any more but can only lower down. (Recommendation: cable box must be installed above the power input of screen) (figure 10-11).





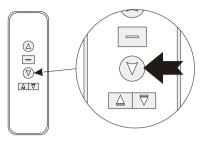


Figure 29



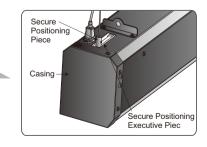


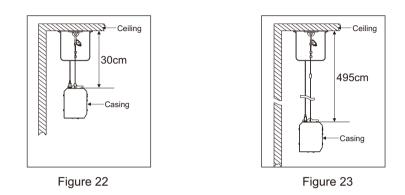
Figure 32

4. Positioning Instruction

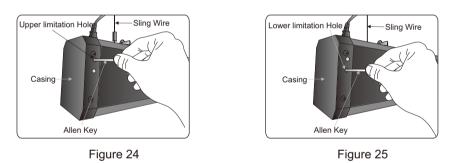
There are totally 3 solutions to position the screen, upper/lower limitation hole for sling wires, remote localizer and position piece.

(1). Upper/Lower Limitation Adjustment for Sling Wires

Upper limitation and lower limitation are set from factory, the upper limitation should be at 30cm which is the distance between the screen and installation position (figure 22), and the lower limitation should be at 495cm which is the distance between the screen and installation position (figure 23) (upper/lower limitation hole for sling wires must be regulated by professional or dealers, please do not regulate yourself. Improper regulation will cause the risk of damages).



- a. Upper limitation adjusting. Take off the knob from the hole and use the provided allen key to adjust (figure 24). A clockwise adjustment will retract the screen (The distance between the screen and installation position will decrease) and a counter-clockwise adjustment will extend the screen (The distance between the screen and installation position will increase).
- b.Lower limitation adjusting. Take off the knob from the hole and use the provided allen key to adjust (figure 25). A clockwise adjustment will extend the screen (The distance between the screen and installation position will increase) and a counter-clockwise adjustment will retract the screen (. The distance between the screen and installation position will decrease).



Remark: default setting should be kept. If it is special solution, the remote localizer is recommended.

(2). Remote Localizer

- a.When the screen is at loading situation, you can adjust the upper/lower limitation via the remote controller. (Retract position is larger than 30cm to the installation position, extend position is smaller than 495cm installation position).
- b.To press the localizer hole at the back of the remote controller with one small pin or equivalence for about 3 seconds and then release, then press Up button for sling wire to the desired position and stop, the screen is already reset for its retract limit (figure 26-27).





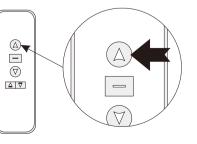
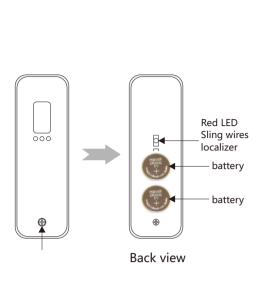
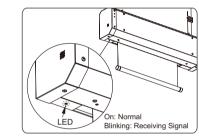
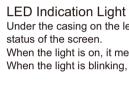


Figure 27







Cautions:

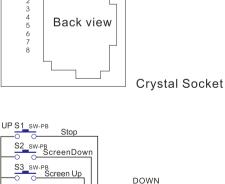
Controller

the cover

-	1	Slightly press the common line.	5	Screen goes down completely.
2	2	Slightly press the switch for retracting the screen.	6	Stop
(3	Slightly press the switch for extending the screen.	7	Rs232 Input B
4	1	Screen goes up completely.	8	Rs232 Input A



1)Communication Agreement Setting: data bits: 8 bits, start bits: 1 bit, stop bits: 1 bit, Baud Ratio: 2400. 2)Directive for retracting the screen: oxFF oxEE oxEE oxEE oxDD 3)Directive for stopping the screen: oxFF oxEE oxEE oxCC 4)Directive for retracting the screen: oxFF oxEE oxEE oxEE oxEE 5)Directive for retracting the screen: oxFF oxEE oxEE oxC9 6)Directive for retracting the screen: oxFF oxEE oxEE oxEE oxE9 232 setting: 2400, n, 8,1 a continuous data sends two times, each time interval of 200 ms.



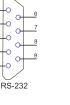
STOF

St sw-PB

S5_SW-PB

EXTER

8P8C



1. The minimum distance between Controller and Receiver: 50cm 2.Workable within 8m in horizontal directionfrom the Receiver to the

3.Do not cover the Controller's launching port while operation 4. Strictly banoperation in wet or high temperature environment. 5.Replacing batteries when the signal is faint or no signal. 6.Batteries for the Controller: 2 units CR2032 button cells.

Batteries Installation Instruction:

When the signal of the Controller is faint, please replace the batteries as follow steps:

1. Reverse Controller to the back, push down as the arrow mark to open

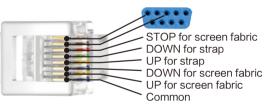
2.Installtwo cells of battery and set the direction of positive and negative electrode just like the chart shows. 3.Close the battery cover.

Under the casing on the left side, the LED light can indicate the

When the light is on, it means the power supply is normal.

When the light is blinking, it means the screen is receiving signals.

3. Central Control Instruction **Emitter Function:**



Multi-function Control Diagram

Central Control Format Agreement

RS485 Custom Setting Address:

1、RS-485, RS-232 input A continuous data sends two times, each t ime interval of 200 ms. 3 bytes of studying address directive are custom sett ing address directive. Central Control Format Agreement 1)Communication Agreement Setting Data Bits: 8 bits Start Bits: 1 bit Stop Bits: 1 bit Baud Ratio: 2400 Common directives are in chip of screen and can not be changed. 2)Directive for retracting the screen: oxFF oxEE oxEE oxDE 3) Directive for stopping the screen: oxFF oxEE oxEE oxEE oxCC 4) Directive for extending the screen: oxFF oxEE oxEE oxEE oxEE 5) Directive for retracting the screen: oxFF oxEE oxEE oxC9 6) Directive for extending the screen: oxFF oxEE oxEE oxEE oxE9 7) Studying address directive: oxFF oxXX oxXX oxXX oxAA

Directive Composing Instruction:

oxFF is only bit; ox stands for 16 hexadecimal system; FF is effective bit; a directive is composed by 5 bits. Studying directive oxFF oxXX oxXX oxXX oxAA

oxFF and oxAA can not be changed, but oxXX oxXX oxXX can be changed to any 16 hex data, which stand for address bit.

- The changed working directive
- 1) Directive for retracting the screen: oxFF oxXX oxXX oxXX oxDD
- 2) Directive for stopping the screen: oxFF oxXX oxXX oxXX oxCC
- 3) Directive for extending the screen: oxFF oxXX oxXX oxXX oxEE
- 4) Directive for retracting the screen: oxFF oxXX oxXX oxXX oxC9
- 5) Directive for extending the screen: oxFF oxXX oxXX oxXX oxE9
- 6) Studying address directive: oxFF oxXX oxXX oxXX oxAA
- Example: the studying directive is oxFF ox10 ox11 ox12 oxAA which can be changed to:
- 7) Directive for retracting the screen: oxFF ox10 ox11 ox12 oxDD
- 8) Directive for stopping the screen: oxFF ox10 ox11 ox12 oxCC
- 9) Directive for extending the screen: oxFF ox10 ox11 ox12 oxEE
- 10) Directive for retracting the screen: oxFF ox10 ox11 ox12 oxC9
- 11) Directive for extending the screen: oxFF ox10 ox11 ox12 oxE9
- 12) Studying address directive: oxFF ox10 ox11 ox12 oxAA

Studying Directive and Operation

After connecting power, studying status will operate within the first 10 seconds. The studying directive is oxFF oxXX oxXX oxXX oxAA. The screen can be used normally after study completed, but the screen can not be used normally after the address bit changed, so that one port can be used to control many screens.

Example:

Screen A and screen B with RS-485 port, if need to control these two screens synchronously that the directive oxFF oxEE oxEE oxEE oxDD will be sent out from the port. If need to control these two screens in different movement, such as screen A goes down and screen B goes up, common directive can not be used and separated by address bit at this time.

Connect the power for screen A, and send out directive oxFF ox10 ox11 ox12 oxAA. At the same time, the address of screen A is ox10 ox11 ox12. Entering the operating address of screen A can control the screen.

Directive for retracting the screen: oxFF ox10 ox11 ox12 oxDD Directive for stopping the screen: oxFF ox10 ox11 ox12 oxCC Directive for extending the screen: oxFF ox10 ox11 ox12 oxEE Directive for retracting the screen: oxFF ox10 ox11 ox12 oxC9 Directive for extending the screen: oxFF ox10 ox11 ox12 oxE9 Completed the studying in screen A, and then disconnect the power in screen A. Please operate the screen B in screen.

Directive for retracting the screen: oxFF ox10 ox11 ox12 oxDD Directive for stopping the screen: oxFF ox10 ox11 ox12 oxCC Directive for extending the screen: oxFF ox10 ox11 ox12 oxEE Directive for retracting the screen: oxFF ox10 ox11 ox12 oxC9 Directive for extending the screen: oxFF ox10 ox11 ox12 oxE9 This studying is one address bit for a long time until next address bit change to update. After studying address bit, the common directive is still effective, so the address bit can not be oxEE oxEE.

Attachment 1

Compare 16 hexadecimal system t	to 10 hexadecimal system
---------------------------------	--------------------------

16 hexadecimal	system	1	2	3	4	5	6	7	8	9	А	В	С	D	E	F
10 hexadecimal	system	1	2	3	4	5	6	7	8	9	10	12	13	14	15	16

2.Load Mechanism

hanging the screen on the rings, screen gravity would turn the wheel via sling wires, which connects the load switch automatically (figure 18-19).

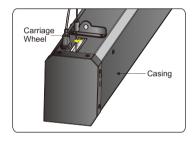
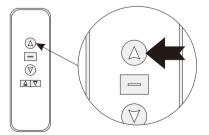


Figure 18

3. Remote Controller Instruction

before using.

- (1). The screen is at situation of load. After connecting the power within 5 seconds, please press UP button and STOP button simultaneously for 5 seconds then release.
- (2). Press the DOWN button to ensure whether the programming works?
- (3). If the programming fails, please repeat step 2 and 3.





- same way and change the address to oxAA oxAA oxAA. Entering the operating address of screen B can control the

There is a load mechanism in the screen, assuring screen to work only after being properly installed. When

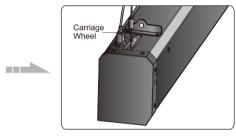


Figure 19

- There is matching function between controller and screen, and then controller needs to be programmed

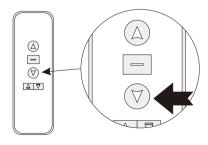


Figure 21