



Instruction Manual for Smart Move Motorized screen



Technical Assistance

If you need help with installing this screen please visit
www.sapphireav.com



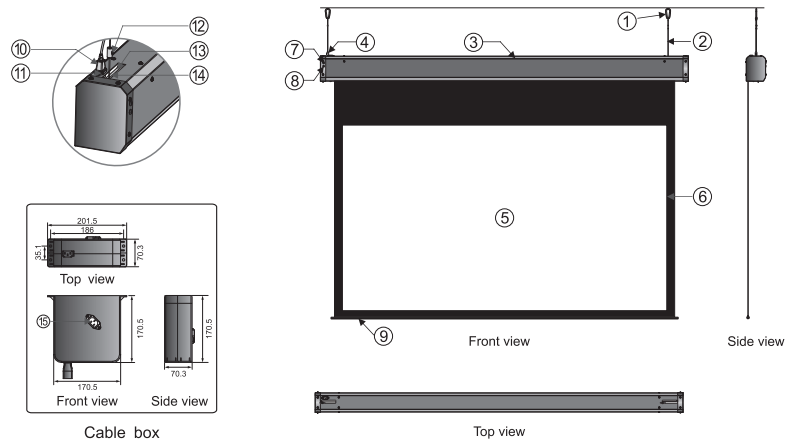
Thank you for purchasing a sapphire projection screen.

Before use, please read instructions carefully. After installation, store instructions for future reference.

Sapphire Smart Move screen provides solution for halls with high ceiling. It provides easy installation and ideal viewing angle. This screen is suitable for venues with high ceiling from 5 to 8 metres such as hotels, boardrooms, banquet halls, churches and amphitheatre..

Description









Illustration



Screen parts

①	Hook	⑨	Bottom bar
②	Sling Wire	⑩	Cable box plug
③	Housing	⑪	Motor Socket
④	Secure positioning piece	⑫	Secure positioning screw
⑤	Screen fabric	⑬	Carriage wheel
⑥	Black border	⑭	Secure position executive device
⑦	Retract limit hole for wire-rolling motor	⑮	Socket on cable box
⑧	Drop limit hole for wire-rolling motor		

Accessories

- Cable box (1 pc)

- Remote controller (1pc)

- Instruction manual (1pc)
- $\varnothing 5 \times 40\text{mm}$ Tapping screws and caps (4 sets)

- Cable lock (1pc)

- Allen key (1pc)

- Cable (1 pc)

- $\varnothing 4 \times 10$ Screw (1 pc)

- Batteries(1set)


Trouble shooting

1. Screen does not work properly even after installing.

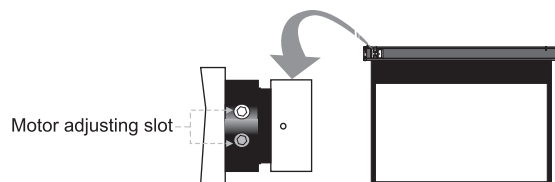
Causes	Solutions
Controller is short of power, or the anode and cathode on the batteries are not aligned.	Follow manual instruction and reassemble the batteries. Tighten the power plug with reference to the instruction manual.
The power plug is loosen.	Tighten the power plug with reference to the instruction manual.
The carriage wheel gets stuck.	Manually adjust the carriage wheel to make it back to proper position.

2. The housing can be descended but not ascended.







Causes	Solutions
Secure positioning executive device is stuck without retracting to proper position.	Manually adjust the device to normal situation.

Warnings

- Ensure the screen fabric is clean and free from odds and ends before operation. The motor will automatically stop if being continually operated the over 4 minutes at a time. Another 2 minutes is needed to cool down the motor before another operation. No lubricant is required. Please do not personally adjust the drop and retract limits of the screen since they have been properly pre-set. Any problem please ask your local dealer or professionals for advise.



- The ceiling used for fixture installation must be secure to prevent the screens from falling.
- Appointed professional is required for the installation of the motor in case that a mis-connection may lead to fire or leaks.
- Make sure the screen is at the situation of load when operating it.
- To guarantee a perfect performance, please be noted:
 1. Do not touch the screen surface with hands as it may cause scratches or tears.
 2. Do not write or draw on the surface.
 3. Clean the screen with a soft cloth and lukewarm water. Do not use any detergent or cleaning chemicals.
- Roll up the screen after every use.
- To prevent unnecessary damage, the operating and maintaining works of the screen should be done by adults.

 Ignoring the safety warnings may lead to injuries and/or damaging the product.	 Fixtures should be installed in a secure place to avoid accidents or the screen falling.
 Do not operate the screen while connecting any power source or remote controls.	 After operation, retract the fabric to housing to keep it clean and durable.
 Please contact your local dealer for repairs or maintenance. Avoid taking apart the fixtures yourself. Loose parts may cause the screen to fall.	 Refrain from hanging anything on the screen as it may cause the screen to fall.

Do not take apart and replace with unknown parts. If there are any problems, please contact your local dealer. Product specifications are subject to change.

Installation

Take out all the parts from the packaging and follow the accessories guideline to ensure you have all the parts. Installing is as below.

1. To drill 6 proper holes according to the distance between two hooks, and then hammer the screws (not provided) into the holes, as well as fasten the round flying rings (not provided, make sure each of them can endure at least 100Kg weight to avoid falling down). (Figure 1)

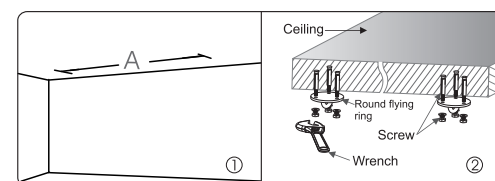


Figure 1

2. To drill 4 holes to match with the holes on the cable box, and then hammer the tapping caps into the holes, as well as fixing the cable box onto the ceiling with the tapping screws. (Cable box is strongly suggested to mount at the left side of the screen) (Figure 2-3)

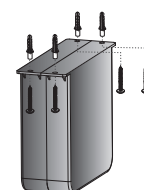


Figure 2

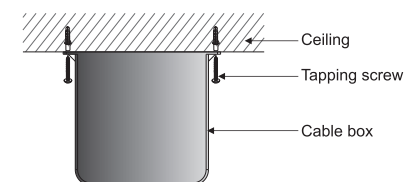


Figure 3

3. To hang the hooks over the round flying rings, at least 2 persons are needed for this operation. (Figure 4-5)

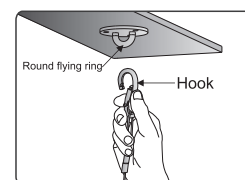


Figure 4

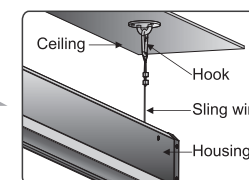


Figure 5

4. There are two parts of cable, cable from Cable box and Main cable. Please insert the plug into the motor socket. (Figure 6-7)

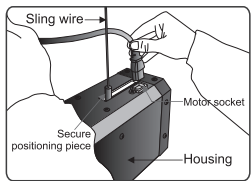


Figure 6

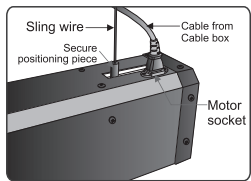


Figure 7

5. To loop the cable with the Cable lock, and then fasten it onto the housing top via screw 4x10mm.

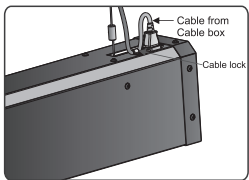


Figure 8

6. Insert the plug from Main cable into the socket on the Cable box. (Figure 9-10)

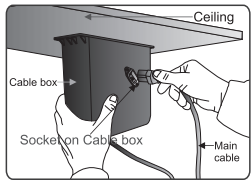


Figure 9

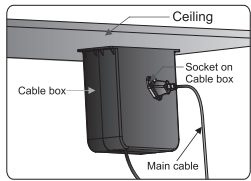


Figure 10

Hidden Installation

The screen can be hiddenly installed on ceiling, with reference to the above-mentioned steps 1-6.

Hidden Installation Illustration

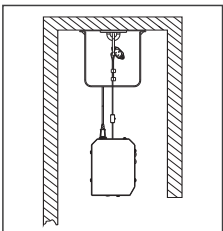
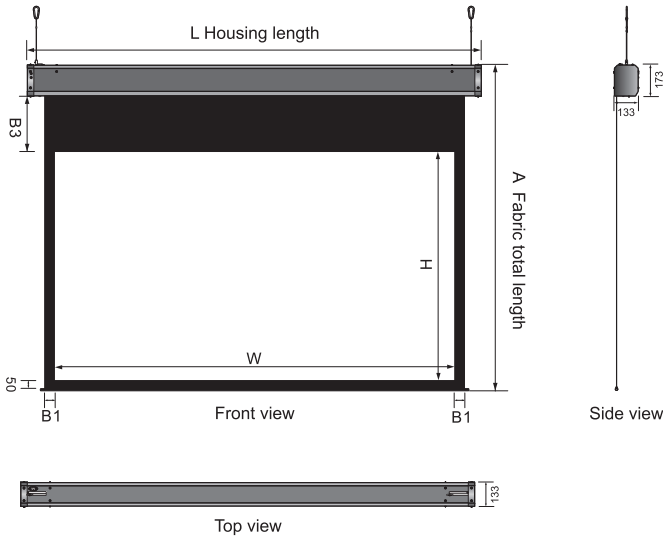


Figure 11

Specifications

Format	Model	Size (in)	Viewing area		L (mm)	A (mm)	B1(mm)	B3(mm)	Net weight (Kg)
			W (mm)	H (mm)					
1:1	SK-M60	60"	1520	1520	1757	1873	25	80	24.7
	SK-M70	70"	1780	1780	2013	2129	23	80	29.0
	SK-M84	84"	2030	2030	2317	2373	50	80	33.5
	SK-M96	96"	2338	2338	2625	2681	50	80	38.8
	SK-M100	100"	2540	2540	2827	2883	50	80	42.9
4:3	SK-M100	100"	2030	1520	2317	1863	50	80	34.3
	SK-M120	120"	2338	1755	2625	2098	50	80	38.7
	SK-M150	150"	3048	2286	3335	2629	50	80	50.2
16:9	SK-M77	77"	1710	958	1997	1301	50	80	28.1
	SK-M80	80"	1771	996	2058	1339	50	80	29.1
	SK-M92	92"	2030	1145	2317	1808	50	200	33.4
	SK-M100	100"	2214	1245	2501	1908	50	200	36.3
	SK-M106	106"	2338	1320	2625	1983	50	200	38.3
	SK-M120	120"	2656	1494	2943	2157	50	200	43.7
	SK-M136	136"	3048	1715	3335	2378	50	200	50.1

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



Motor specifications

Motors	Voltage (V)	Frequency (Hz)	Power (W)	Application
Motor for fabric	230V/120V/100V	50Hz/60Hz	85W/85W	Applicable for all Skyshow screens
Motor for wires	230V/120V/100V	50Hz/60Hz	250W/220W	Applicable for all Skyshow screens

3. Press the Localizer hole at the back of the remote control with one small clip or equivalence, and then press the button "Down for sling wires". When the Red LED is illuminated, press the "Down for sling wires" to make the screen stop at desired position, and then press the Localizer again. Then the LED is off and screen stops running. That is the way to set the lower limit for the screen.(Figure 23-24)

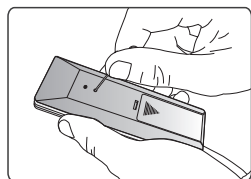


Figure 23

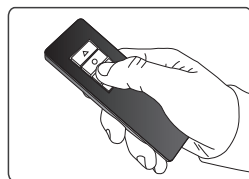


Figure 24

⚠ Attention: For the safety effectiveness for the remote localizer, make sure the distance between the localizer and the Secure Positioning Piece is 10cm.

Housing retract limit

For the cause of safety, there is also Secure positioning executive piece besides Remote localizer.

1. Housing retract limit uses touching switch, consists of secure positioning piece and secure positioning system.(refer to description at page 1) You just need to loosen the screw on the position piece and then fasten again after moving it to your desired position. (Figure 25)

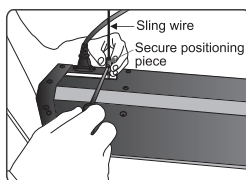


Figure 25

Remarks: Secure positioning piece would always need to be at least 10cm lower than the position you set for highest retract limit of remote localizer.

2. When housing 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 housing won't raise any more but can only lower down. (Figure 26-27)

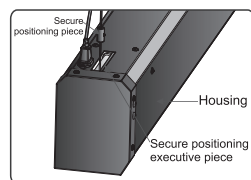


Figure 26

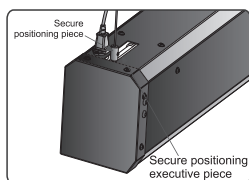
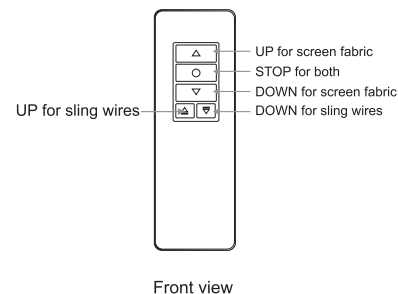


Figure 27

Remote controllers instruction

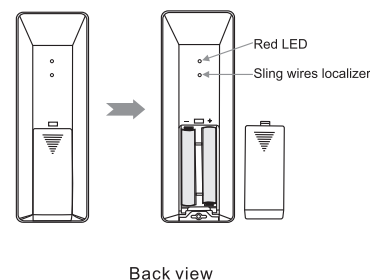


Remote controller instruction:

1. To retract screen, press "UP for screen fabric".
2. To stop sling wires or screen fabric, press "STOP for both".
3. To lower down screen, press "DOWN for screen fabric".
4. To retract sling wires, press "UP for sling wire".
5. To lower down sling wires, press "DOWN for sling wire".

Remote controller guideline:

1. Working temperature: -20°C - $+80^{\circ}\text{C}$.
2. Protection index: IP30.
3. Batteries: 1.5V x 2pcs, model # AAA.
4. Working under normal polluted environment.
5. Take out batteries if the controller will not be used for a long time.
6. Please change the batteries when signal is weak.



How to install the batteries:

Please change the batteries as below when signal is weak.

1. Turn around the controller, push to pen the cover as guiding arrow.
2. Put the batteries in according to the guide of anode and cathode.
3. Close the cover.

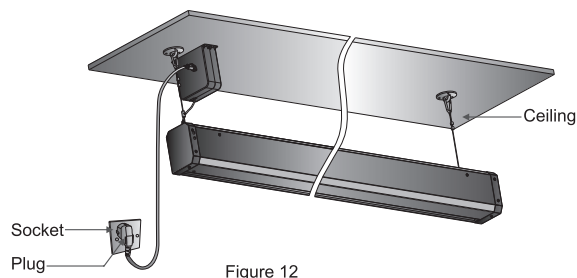
Caution

The controller does not work if mistaking the anode and cathode of batteries, please correct the direction according to the figure on the left.

Operation instructions

Power connecting

1. Insert the plug from Main cable into socket of power. (Figure 12)



Load device

1. There is Load protection device in this screen, assuring screen to work only after being properly installed. When hanging the screen onto flying rings, screen gravity would turn the bar wheel via sling wires, which connects the load switch automatically. (Figure 13-14)

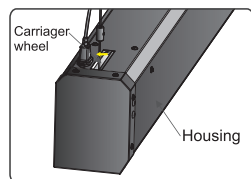


Figure 13

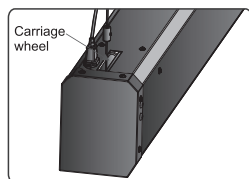


Figure 14

Remote controller instructions

There is matching function between controller and screen, the controller needs to be programmed before using.

1. Screen is at the situation of load.
2. Press buttons of "Up for screen fabric" and "Stop" for both" simultaneously, then connect the screen to power electricity(according to your local voltage). After 5 seconds, release the pressed buttons. (Figure 15)
3. Press the button of "DOWN for screen fabric" to test whether this programming works. (Figure 16)

Remarks: If it fails then repeat steps 2 and 3.



Figure 15

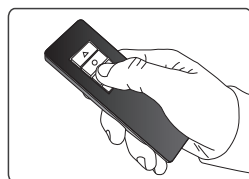


Figure 16

Screen position instructions

There are totally 3 solutions to position the screen, Retract/drop limit holes for sling wires, Remote localizer and Secure positioning piece.

Retract/drop limit holes for sling wires

The retract / drop limit are pre-setted in factory already, the retract limit is 30cm from top of housing to installing point, (Figure 17) drop limit is 495cm. (Figure 18) (Please call your local dealer for assistance for limit adjusting, since no professional operation would lead to the damage of screen.)

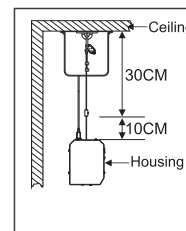


Figure 17

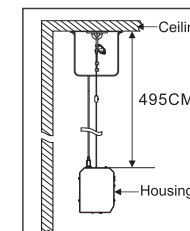


Figure 18

1. Retract limit adjusting. Take off the knob from the whole and then use the provided allen key to adjust. If it goes clockwise the housing would raise, to adjust anticlockwise the housing would lower down. (Figure 19)
2. Retract drop adjusting. Take off the knob from the whole and then use the provided allen key to adjust. If it goes clockwise, the housing would lower down, to adjust anticlockwise the housing would raise. (Figure 20)

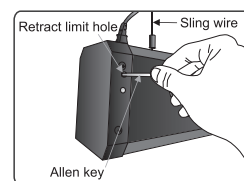


Figure 19

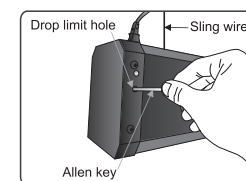


Figure 20

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

Remote localizer

1. When the screen is at loading situation, you can adjust the retract/drop limit via the remote controller. (Retract position is larger than 30cm to the installing point, drop position is smaller than 495cm to the installing point.)
2. Press the Localizer hole at the back of the remote control with one small clip or equivalence, and then press the button "Up for sling wires". When the Red LED is illuminated, press the "Up for sling wires" to make the screen stop at desired position, and then press the Localizer again. Then the LED is off and screen stops running. That is the way to set the upper limit for the screen.(Figure 21-22)

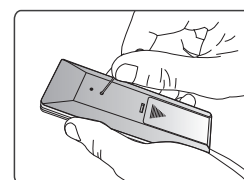


Figure 21

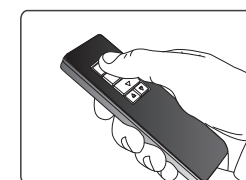


Figure 22