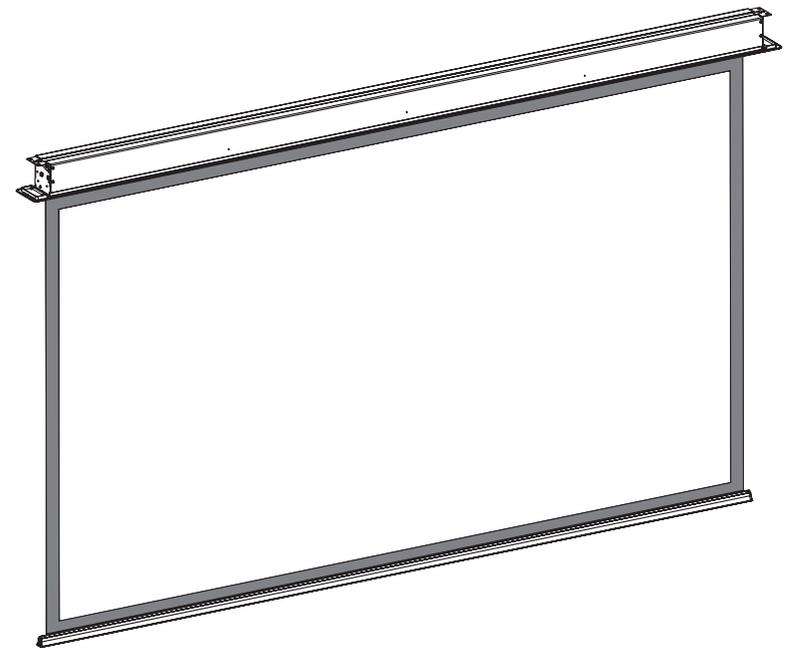


**Instruction Manual of
Mini Recessed Motorized Screen**



Grandview Crystal Screen Canada Ltd.

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Website: www.grandviewscreen.com
www.grandviewscreen.com.cn



Model:CB-MRC

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

Warnings

Please read the below attention points before using

1. Please hand over the screen to qualified professional for installation, non-qualified individual could cause damage to the product or injury of people.
2. Please make sure that the installation position can suffer from at least 50 Kg, otherwise there could be a potential dropping problem causing damage to the product or injury of people.
3. It is forbidden to connect the power before the installation is finished, otherwise it could cause damage to the product or injury of people.
4. Wrong wiring of malfunction of the wire could cause damage to the product or inquiry of people, please hand over the electric work to electric professionals.
5. The product is using Single-phase AC power, please use a socket with earth wire and make sure the earth wire is well connected.
6. Please make sure the screen is installed in a level status, otherwise it could cause damage to the product.
7. For screen with IR control, please do not use it in places with strong light or laser. For screen with remote control, please do not get close to fluorescent lamp, led lamp or other device or environment with strong electromagnetic radiation, to avoid damage to the product.
8. In order to lower down the possibility of fire or electric shock, please do not expose the product in damp places.
9. Please keep the screen away from heating device such as heater, stove, etc.
10. As long as the plug is still in socket, the screen is still connected with AC power, please remove the plug during lightening, thunderstorm or not used for extended periods.
11. Please retract the fabric fully in the case after using to avoid damage to the fabric by dust and dirt.
12. If the surface of fabric is dirty or being cut, it will affect the image quality, so please pay attention to below points:
 - A. Please do not touch the fabric with your hand
 - B. Please do not write or draw on the fabric
 - C. Please do not cut or poke the fabric to avoid damages
 - D. Please do not clean the surface with chemical cleaner, you can use dry cloth and soap water instead.
13. To avoid unnecessary damage, please use and manage the product by adult.
14. Please choose only the accessories from original factory.
15. Please do not hang any items under the case to avoid potential damages.
16. There are no spare parts inside for replace or repair, please contact the after sales team for after sales service.
17. Lubricant is not required for the motor.

Adjustment

Instruction of adjusting the retraction and extension limit

1. The default retraction limits are perfect settings, we do not recommend adjustment to avoid potential damage to the product, please talk to after sales team for further advice.
2. If you do need adjust the extension limit, you can do that through the slot underneath the right hand side of the screen, with below instructions:

WARNING

Please pay attention when adjusting retraction. Over-retraction is avoided in order not to spoil the motor and screen; please also pay attention when adjusting extension. The fabric should be rolled at least one and a half rounds onto the shaft to avoid the fabric fall off. After the adjustment is done, the difference of retraction and extension limit might not be found at once until the screen is operated for several times.

Adjustment of extension (lower limit).

Press the "down" button of the controller and the screen would extend. Insert the adjuster key into the positioner adjusting hole in yellow color on motor to make adjustment. Stand opposite to positioner adjusting hole and turn adjuster key clockwise to make fabric retract slightly, while turn counter clockwise to make fabric a little extension for adjustment.

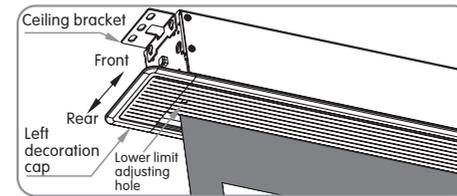


Diagram 32

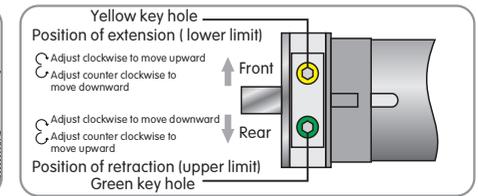


Diagram 33

Due to the special structure of the product, default of "retraction limit" has been perfectly set and it is not recommended to make adjustment by user so as not to damage the screen because of improper adjustment on retraction limit. Any damage out of this operation is not under warranty for the product.

Adjustment of retraction (upper limit).

Press the "up" button of the controller and the screen would retract. When the fabric rod goes nearby or enters the case, please insert the adjuster key (slight adjustment on direction is needed when insert adjuster key until the key enter correctly into the green hole) into the positioner adjusting hole in green color on motor to make adjustment. Stand opposite to positioner adjusting hole and turn adjuster key clockwise to make fabric extend slightly, while turn counter clockwise to make fabric a little retraction for adjustment.

Note on upper limit adjustment:

The decoration board of this product can completely cover the exit of the case and there is springs installed on the integration of fabric rod, which is different from other series of screens.

When adjusting the upper limit, please make sure decoration board could be completely closed. Enough space is needed for decoration board to move freely. Setting the upper limit to be too high would come to damage the fabric or motor.

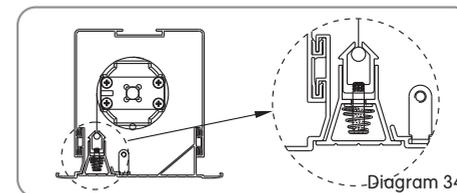


Diagram 34

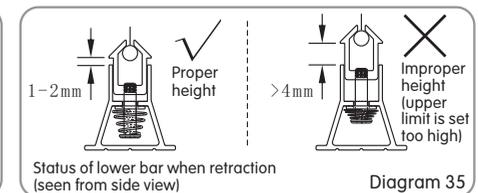


Diagram 35

Operation Instruction

The motorized screen is standard with inline switch control, while external remote control is for your option.

1. Inline switch control (diagram 25)

Extension (diagram 26) Press "down" button on inline switch then the fabric would extend slowly till it reaches the default position before it stops automatically.

Retraction (diagram 27) Press "up" button on inline switch then the fabric would retract slowly till it completely enters the case before it stops automatically.

Stop Press "stop" button on inline switch in the course of retraction or extension to make fabric stop at the position required.

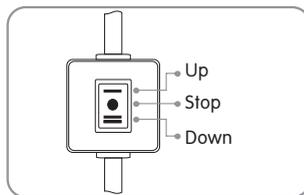


Diagram 25

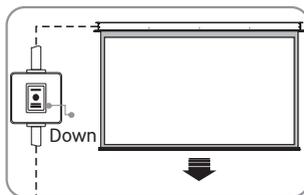


Diagram 26

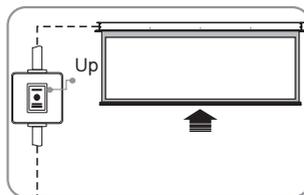


Diagram 27

2. External remote control and RS232/485 control:

If remote control or RS232/485 control is needed, please upgrade the control system by installing external remote control kits (need to cut off the inline switch and reinstall the external remote control kits manually for alternative), see diagram 28–30. Please turn to the manual for external remote control kits to know more details on usage and wiring connection method.

Model available: External IR remote control kits (Third Generation)---Model: 1GD-IRAn III ;
External RF remote control kits (Third Generation)---Model: 1GD-868Mn III .

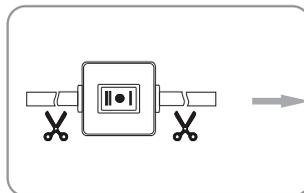


Diagram 28



Diagram 29

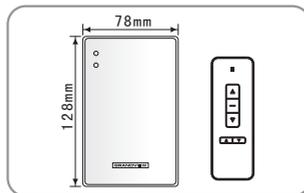


Diagram 30

Note:

Make sure the fabric is clean before retraction.

It is not recommended that continuous operation of retraction or extension be over 50 seconds. Over heat of the motor due to operated continuously above 4 minutes would result the screen in protection status (stop working for a while). In this situation, please stop operating the screen for a moment until motor is cool.

3. Circuit diagram

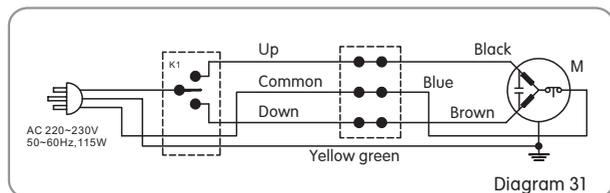


Diagram 31

3. Circuit diagram

Accessories Pack(s)

- Decoration cap*2 pcs (left and right)



- Ceiling bracket*2 pcs



- M5*10 thumb head screw*4 pcs



- M4 hexagonal adjuster key*1 pc



- Qualification certificate*1 copy

- Manual*1 set

Optional Accessories

- M8*500 extended bolt*2 pcs



- M8 nut*8 pcs, gasket*8 pcs



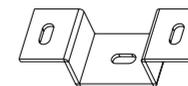
- Spring gasket*6 pcs



- M8*60 Expansion bolt*4 pcs

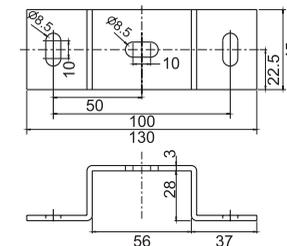


- Hook*2pcs



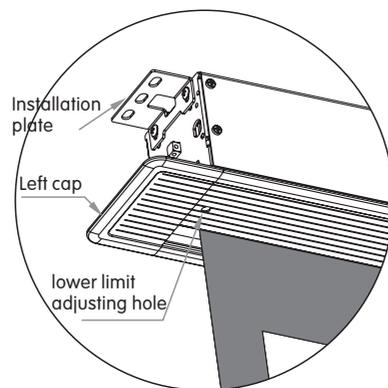
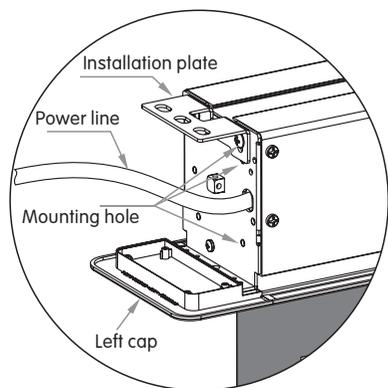
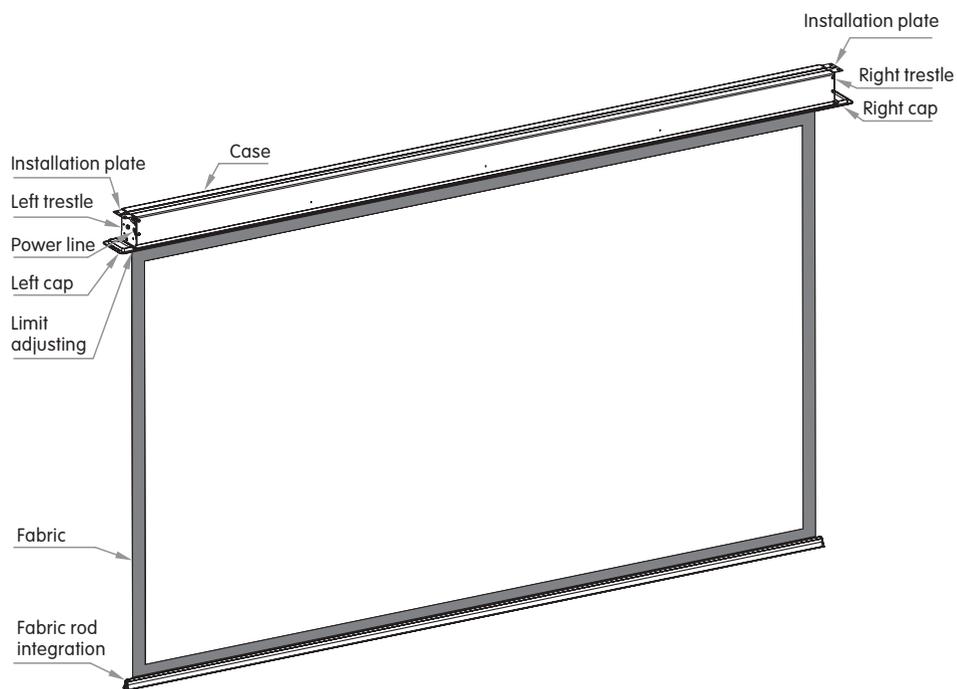
- External remote control kits (with RS232/485 control function)

External IR remote control kits (Third Generation)---Model: 1GD-IRAn III ;
External RF remote control kits (Third Generation)---Model: 1GD-868Mn III .



Dimension for installation of hook

Product structure



Installation Instruction

10. Installation of left/right decoration cap. Insert the fixing legs (diagram 19) of decoration cap aslope into slots from the two edges of decoration board (diagram 20). Please push upward tightly (diagram 21) and the decoration cap would be attached to left/right trestles by magnet (see diagram 19-21).

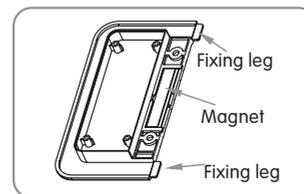


Diagram 19

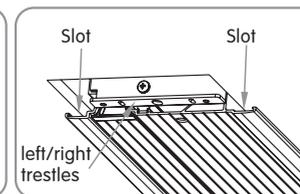


Diagram 20

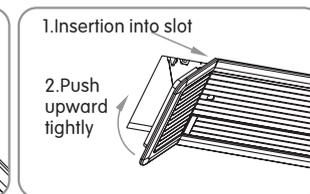


Diagram 21

Note:

Please make it clear the left and right decoration caps. Please pay attention to the decoration strip. After the decoration caps are fixed, the decoration strips should be in line with those on the decoration board (diagram 22-23)

If the seam seems too big at the joint, please push the decoration cap toward the screen to make it in position.

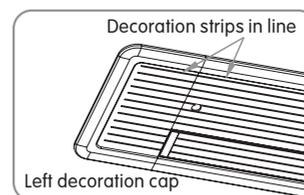


Diagram 22

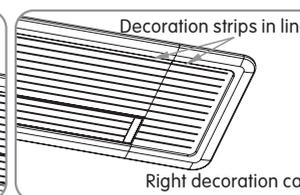


Diagram 23

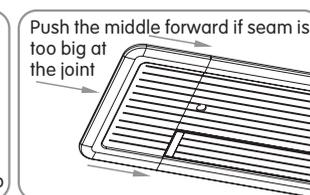


Diagram 24

Installation Instruction

6. Lift the screen and put it into the mounting holes pre-drilled. The fixing holes on two ends of installation plate should align to the expansion bolts or extended bolts on ceiling, see diagram 13–14.

Note: This step must be completed by two installers who should hold two ends of screen respectively when installation.

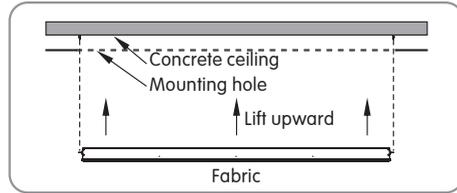


Diagram 13

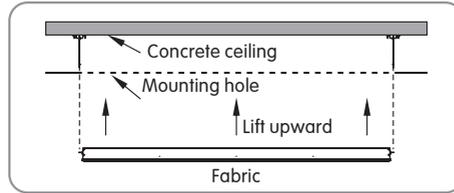


Diagram 14

7. Please put gasket, spring gasket and nut through the bolt, twist the nut for several rounds but not fasten it (diagram 15–16), and adjust the position of the nuts above and below the installation plate to get the front and back part of decoration board close enough to the decoration ceiling. Then please fasten the nut below the installation plate, see diagram 15–18.

Note: The screen must be operated in level condition. Please make necessary adjustment for screen to be horizontal when installing, or it would be likely to do damage to the screen.

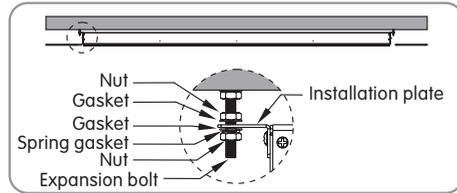


Diagram 15

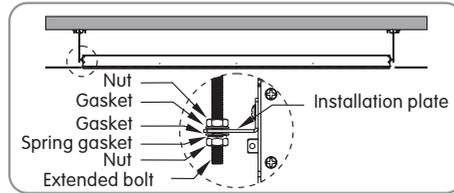


Diagram 16

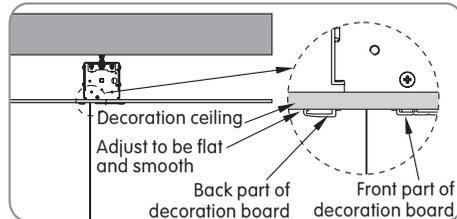


Diagram 17

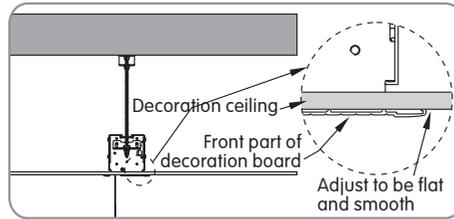


Diagram 18

Warning: Any installation of the screen related to electrical operation must be done by qualified electrician, or it is likely to damage the product or property lost and casualty.

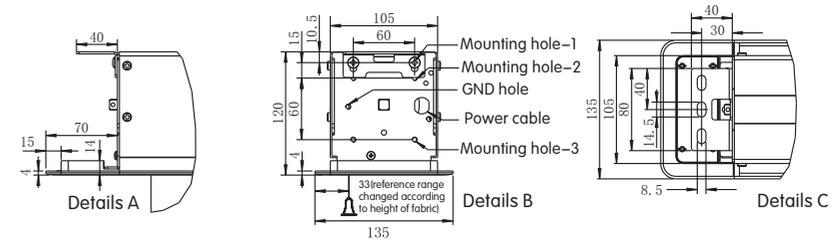
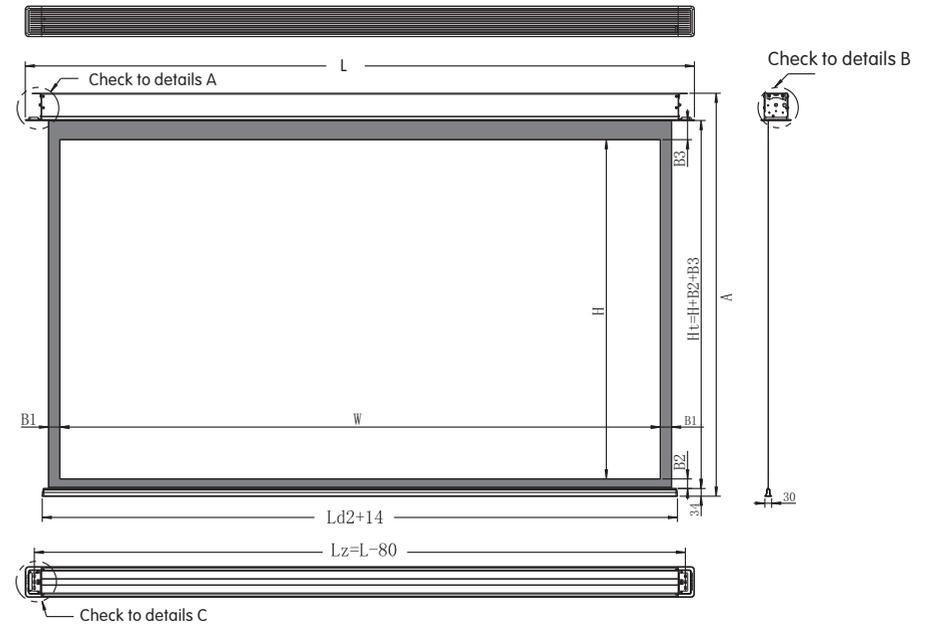
Note:

Before connecting the products to power supply, please make sure the put-in voltage is in conformity with rated voltage of the product. It is recommended that supply power should be 2 times or above as much as the rated power of the product. Any improper power supply would lead to abnormal performance or even spoil the product.

8. Please fix the inline switch or external remote control receiving box where it is convenient to get access to. Then plug in the socket to connect to power supply.

9. Operate the screen to complete retraction and extension for once or twice to see if it is working normally before moving to next step of installation.

Framework and Dimension



Installation distance: $Lz = \text{overall length}(L) - 80\text{mm}$

Ceiling-cutting dimension: length (Lt) = overall length (L) - 20, 115mm in width, 120mm plus in height

Variant	Ratio	4:3					16:9					16:10								
		72"	84"	100"	120"	150"	77"	80"	92"	100"	106"	120"	138"	77"	80"	92"	100"	106"	120"	142"
width of viewing area	W	1463	1707	2032	2438	3048	1705	1771	2032	2214	2346	2656	3048	1659	1723	1982	2154	2283	2585	3048
height of viewing area	H	1097	1280	1524	1829	2286	959	996	1146	1245	1320	1494	1715	1037	1077	1239	1346	1427	1615	1905
left and right black border	B1	30	50	50	50	50	50	28	50	50	50	50	50	50	50	50	50	50	50	50
spread black bottom	B2	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
spread black top	B3	850	670	420	120	80	990	950	800	700	630	450	300	990	950	800	700	630	450	300
length of decorative sheet	Ld2	1563	1847	2172	2578	3178	1845	1867	2172	2354	2486	2796	3178	1799	1863	2122	2294	2423	2725	3178
overall length	L	1723	2007	2332	2738	3338	2005	2027	2332	2514	2646	2956	3338	1959	2023	2282	2454	2583	2885	3338
overall height	A	2130	2133	2127	2132	2549	2132	2129	2129	2128	2133	2127	2198	2210	2222	2229	2240	2248	2388	
ceiling-cutting length	Lt	1703	1987	2312	2718	3318	1985	2007	2312	2494	2626	2936	3318	1939	2003	2262	2434	2563	2865	3318
installation distance	Lz	1643	1927	2252	2658	3258	1925	1947	2252	2434	2566	2876	3258	1879	1943	2202	2374	2503	2805	3258
length of package	Lh	1803	2087	2412	2818	3418	2085	2107	2412	2594	2726	3036	3418	2039	2103	2362	2534	2663	2965	3418
Gross Weight (kg)		11.6	13.4	15.5	18.1	21.9	13.4	13.5	15.5	16.6	17.5	19.5	21.9	13.1	13.5	15.2	16.3	17.1	19.0	21.9

Electrical data: AC220–230V/50–60Hz, 0.48A, 115W.

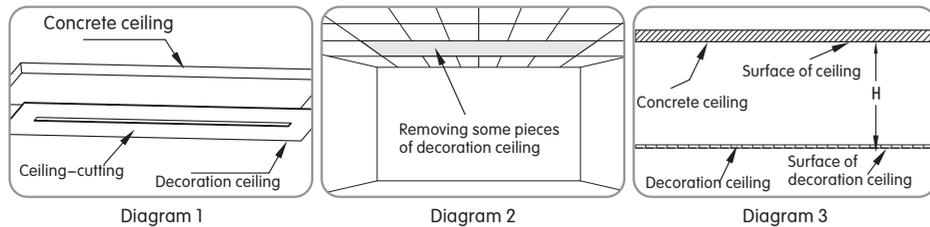
Any change on function, structure or specification is without prior notice due to improvements on the product. Please refer to the specific product included.

Installation Instruction

This product is fit to install into all types of decoration ceilings. User could install the product according to different environments. The screen should be installed at the most proper place where it can work with projector. It is more convenient and safer for use when the screen is installed right and correctly.

Please unpack the packages and check if the fittings are correct in number and types. Please install the screen at proper place according to the installation instructions below.

1. Ceiling-cutting should be done at the position where the screen would be installed (diagram 1). The dimension of ceiling-cutting is 115mm in width, while it is 20mm shorter than the overall length. As to the grille ceiling, please take some pieces out of the ceiling (diagram 2) and cut them into pieces that would fit to the ceiling for re-installation after installation of the screen is finished.



2. Please measure the height between surfaces of concrete ceiling and decoration ceiling (diagram 3) for optional installation modes:

- A. If the "H" is about 120mm, please install the screen directly onto concrete ceiling, see diagram 4;
- B. If the "H" is above 120mm, optional accessories including the hook and extended bolt are needed to complete installation, see diagram 5.

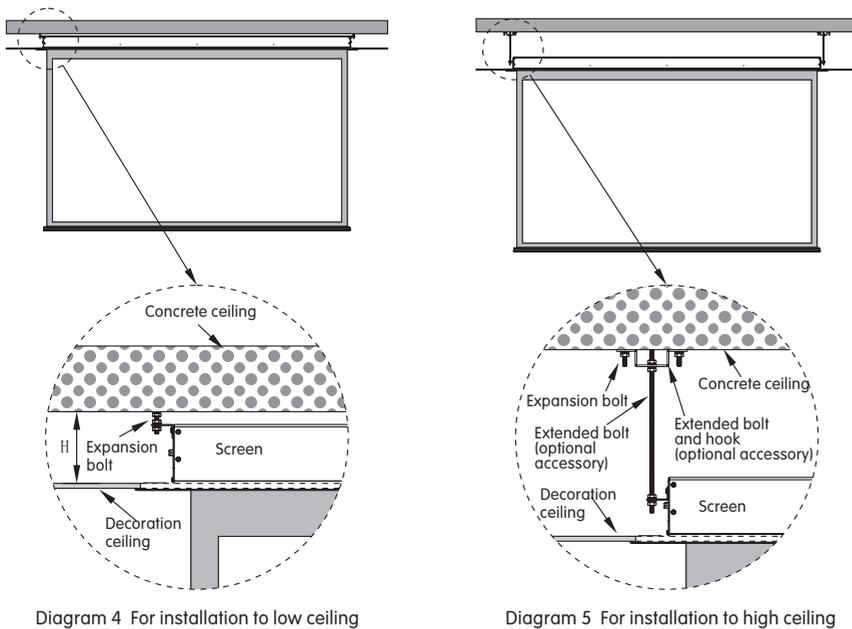


Diagram 4 For installation to low ceiling

Diagram 5 For installation to high ceiling

Installation Instruction

Note: Please make sure the concrete ceiling is strong enough to be bear the weight of 50kg or above before starting installation in order to avoid any damage on product or property lost and casualty due to insufficient bearing.

Note: Installation of the product must be completed by qualified technician(s), or it would result in damage, property lost and casualty.

3. According to the installation modes, please drill holes on concrete ceiling and fix expansion bolt (not included) in model of M8*80 or longer one into the holes, see diagram 6 and 8; for high ceiling installation, hooks and extended bolts are needed to work with M8*60 expansion bolt (optional accessories), see diagram 7 and 9;

Note: The center distance of two holes drilled for suspending purpose should strictly follow the actual dimension of the product, or the installation is not likely to be done; the distance from the two holes drilled for suspending purpose to both ends of the decoration ceiling should be the same. The suspending (installation) distance equals overall length of screen minus 80mm, please refer to the specification diagram for details.

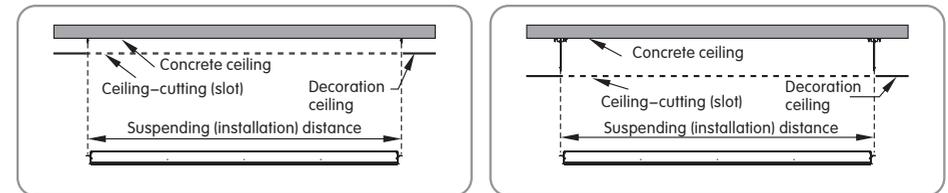


Diagram 6 Use screws for installation to low ceiling

Diagram 7 Use hook for installation to high ceiling

4. Both of the installation modes need to put the extra M8 nuts and gaskets for adjustment on the height of installation, see diagram 8-9;

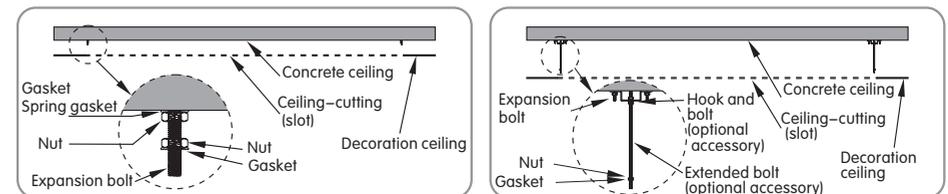


Diagram 8 Use screen for installation to low ceiling

Diagram 9 Use hook for installation to high ceiling

5. Choose the sets of mounting holes for fixture according to the installation mode selected. Please use the M5*10 screws included in fitting pack to fix the screen. If the extended bolts are not needed in installation, please choose the first set of mounting holes for fixture, see diagram 10; for installation to high ceiling where extended bolts are applied, please choose the second or third set of mounting holes according to installation environment. It is recommended to choose the third set of mounting holes if the extended bolts are long enough to reach because it is easier for installation, see diagram 11-12.

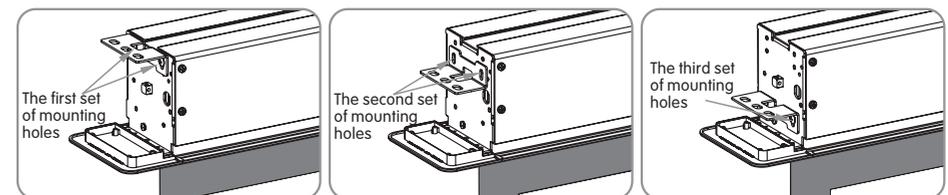


Diagram 10

Diagram 11

Diagram 12