

Grandview

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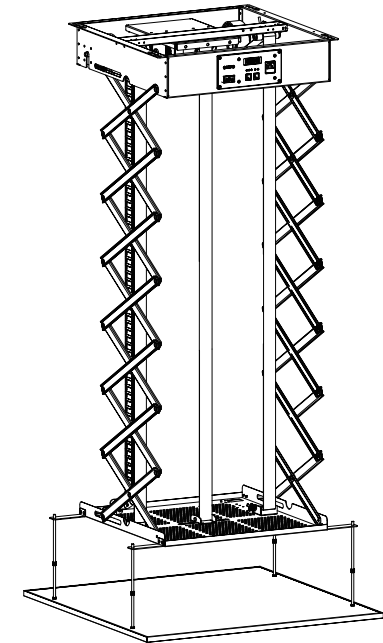
Instruction Manual

Recessed-Ceiling Motorized Projector Lift

Applicable Model	Maximum weight:
GPCK-ME1000E	40KG
GPCK-ME2000E	40KG
GPCK-ME3000E	40KG
GPCK-ME4000E	40KG

Please read before installation:

Thank you for purchasing this product.
Please read the instruction manual
carefully to ensure this projector lift is
suitable for your installation environment.



Cautious



Warnings

This product should only be installed by a qualified technician.

Please review the manual carefully to ensure it is properly installation and to avoid injury.

The ceiling used must have a minimum load bearing of 40KG.



Caution

For projector lift assembly only



Do not take apart

Please do not take apart the
accessories of mounting bracket

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Tel:(86)-20-84899499

WARNING: Important safety instructions.

It is important for the safety of persons to follow these instructions. Save these instructions.

It is important for the safety of persons to follow these instructions

- For models with fixed control, do not allow children to play with fixed controls. Keep remote controls away from children;
- Frequently examine the installation for imbalance and signs of wear or damage to cables and springs. Do not use if repair or adjustment is necessary;
- Do not stand below the product when it is working;

WARNING: Important safety instructions.

Follow all instructions, since incorrect installation can lead to severe injury.

- Before installing the drive, remove any unnecessary cords and disable any equipment not needed for powered operation;
- For models with wall switch fixed control, the actuating member of a biased-off switch is to be located within direct sight of the driven part but away from moving parts. It is to be installed at a minimum height of 1,5 m; - when projector lift completely opened, the moving part at least 2.5 m above floor level or other access level.



Trouble Shooting
The Grandview GPCK-ME is designed for many years of use. Problems are usually caused by small issues or improper use. If there problems please refer to the follow trouble shooting list. If problems persist, please contact the authorized dealer or call 020-84899499 for technical support

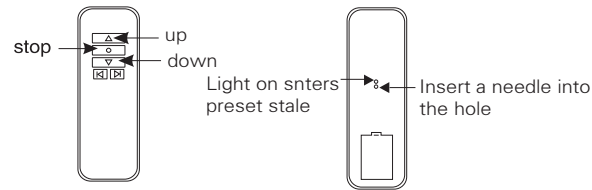
	Causes	Solution
The projector lift can not function properly after installation.	Power cable is no connected	Referring to the user manual and connect the power cable
	Outlet does not have power	Verify the wall outlet if it has sufficient voltage to support the operation.

Limit three year warranty only
Grandview provided limit three year warranty on motorized projector lift products. Grandview's sole obligation under this warranty shall be to repair or to replace the defective part of the merchandise if the projector lift has been operated properly. This warranty does not apply to apparatus showing evidence of misuse, abuse or accidental damage, or which has been installed or operated improperly.

Remote controller

1. Remote control key function

-  up
-  stop
-  down



2. Remote Controller Instruction

a. when projector lift is under loading status, long press stop on the control panel within 5 seconds after switched on. When number display screen flicker, this product is under learning mode or hold up and stop button for 10 seconds into the study mode.

b. Press up and stop on the remote control until the projector lift slight move upwards and downwards.

c. Test if the remote could control the product properly, if not, try to pair again.

Caution: This product has been paired and learned before EXW.

2. Remote control electronic positioning

a. When the lift is under load, you can use the remote control to set the lower limits of the lift according to the needs of the site.

b. Use a small paper clip or small round needle to insert the electronic positioning setting key hole of the elevator on the back of the remote control (as shown in Figure 21, press the electronic positioning setting key of the elevator, the red and blue LEDs will light up, and then press the elevator Rack down button, at this time after the lifting frame is lowered to a suitable position, press the stop button of the remote control as shown in Figure 22, and then press the electronic positioning setting button of the lifting button, the red and blue light-emitting diodes are off, and the lifting frame moves up and down. The electronic lower limit setting of the lifting frame is completed.

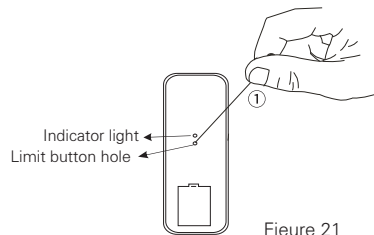


Figure 21

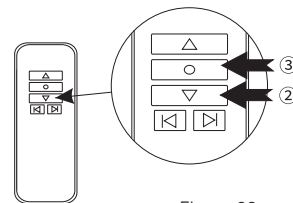
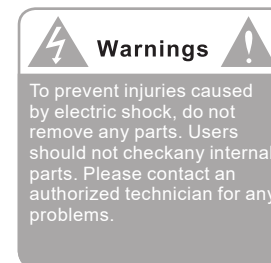


Figure 22

Caution

Warning: In order to minimize the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

1. Please read the instructions carefully before installation to avoid the damage of the product which causing by inappropriate installation or operation.
2. Please keep the GPCK-ME away from the hot sources, such as radiator, heating machine, fireplace and other devices which contain the loudspeaker.
3. This apparatus must be earthed.
4. Only the accessories that provided by the authorized suppliers should be used.
5. Unplug the power cord from the wall outlet during stormy weather or if the apparatus is not used for several days.
6. Servicing should be done by qualified service personnel.
7. Please do not install this apparatus in the humid area.
8. The apparatus is not disconnected from the AC power source as long as it is connected to the wall outlet, even if the apparatus itself has been turned off.
9. Use the approved Power Cord (3-core mains lead) / Appliance Connector / Plug with earthing-contacts that conforms to the safety regulations of each country if applicable.
10. Use the Power Cord (3-core mains lead) / Appliance Connector / Plug conforming to the proper ratings (Voltage, Ampere). If you have questions on the use of the above Power Cord / Appliance Connector / Plug, please consult a qualified service personnel.
11. During the installation, incorporate a readily accessible disconnect device in the fixed wiring, or connect the power plug to an easily accessible socket-outlet near the apparatus. If a fault occurs during operation of the unit, operate the disconnect device to switch the power supply off, or disconnect the power plug.
12. The ceiling or wall used for installation must be secure enough; load-bearing capacity must be more than 4 times of the total weight of this apparatus and the projector in order to prevent the apparatus from falling.



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



Please operate according to the instruction manual

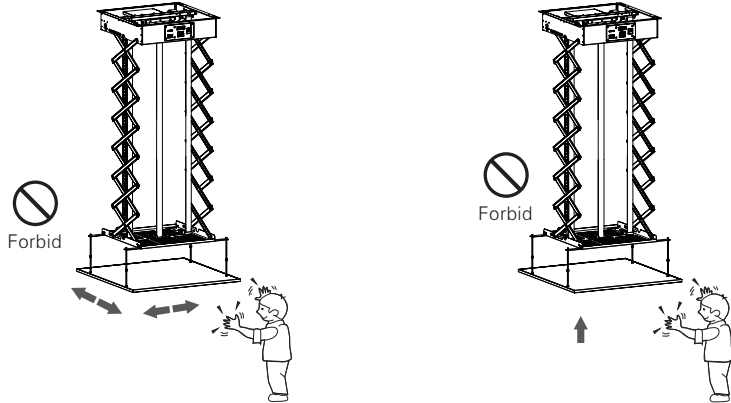
Cleaning

Please clean the projector and projector lift at the same time.

Cautions

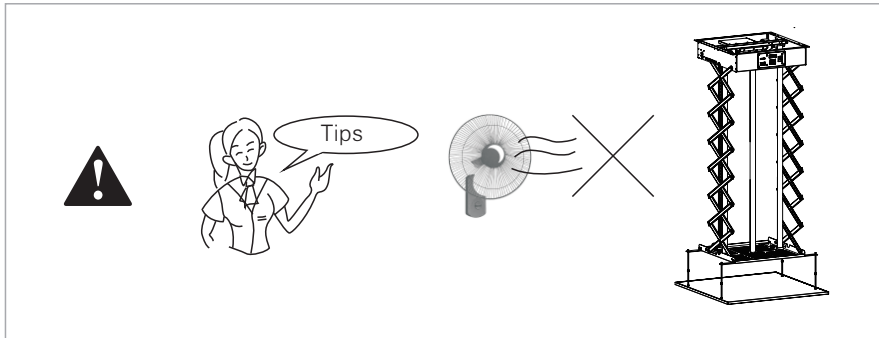
Please comply the following contents for installation and use

- Please do not shake the projector lift
- Please do not lift up the projector lift



Cautions for Location

- Please keep away from hot resources, dirty, high temperature and high humidity. Do not use the projector off the large wind.



Cautions for Repairing

- Please do not take apart the screws of the projector lift; if this product needs to be repaired, please contact our company or dealers.



Do not take apart

RS-485 control protocol

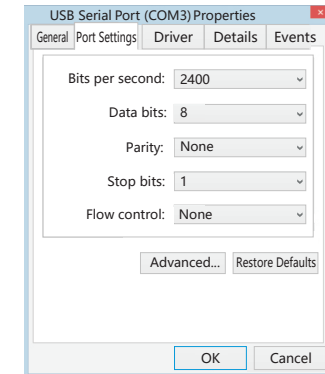
Rs485 Port Setting:
 Bit Rate: 2400;
 Data bit: 8 bit;
 Odd check: N/A;
 Stopping position: 1

Hexadecimal control code:
 UP:FFFFFFFFEEDD
 STOP:FFFFFFFFECC
 DOWN:FFFFFFFFEEEE

Learn address code instruction:
 if -- -- -- AA, Can be any character or number, If input FF111111AA, It is FF111111DD actually, Other codes do the same.

Notice:

1. When connecting via RS485, if any control fails, please switch two controlling cable.
2. Connecting Loop Resistance Tester should not be over 20Ω
3. Prohibit parallel line with strong interference source



Control panel function

Control panel description

up: projector lift up

stop: projector lift stop

down: projector lift down

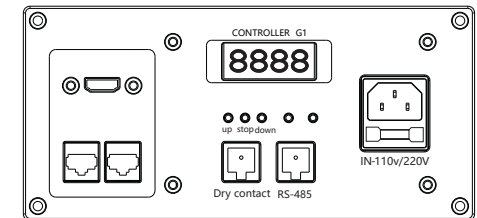
Dry contact: dry contact interface

RS-485: RS485 interface

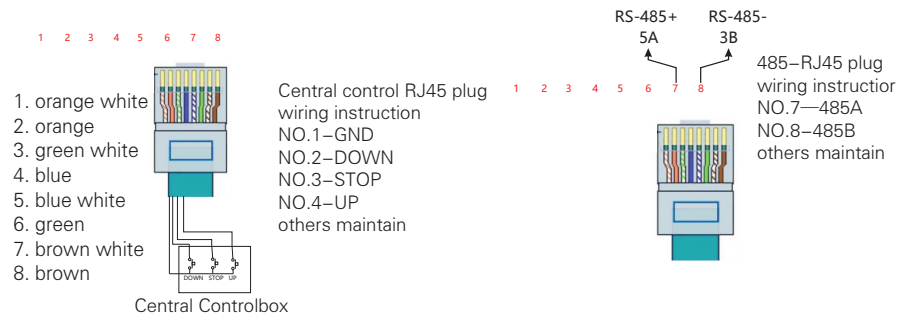
IN-110v/220v: power input interface

Fuse: F10A 250v

Reset: long press the UP button, the lift is reset



Control connection:



Installation

12. Please adjust motorized lift to keep balance in need, if there is unbalanced changes occur in controlling up and down several times after power on.
13. Adjust the height of decorative ceiling plate depended on the actual ceiling height, and twist setscrew nut on the 200mm long screws assembled in the four corners of decorative ceiling plate. The max height is about 200mm(Figure 19). Please tightening screws to avoid looseness.

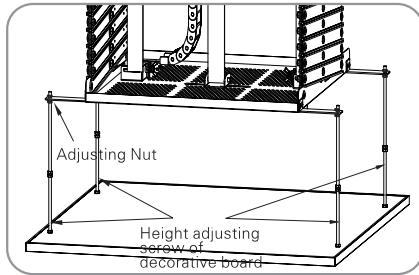


Figure 18

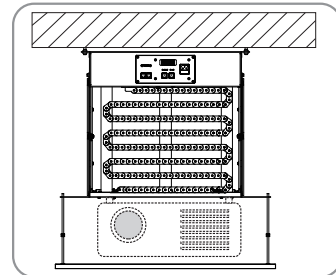


Figure 19

- 14.(Figure 24)Trim the ceiling plate to the appropriate size and assemble it back into the ceiling grid. The suggested distance of ceiling plate to the lift's decorative ceiling plate is about 5mm. Please use the same way to adjust the ceiling plate in case the height of decorative plate is not the same as the ceiling plate around.

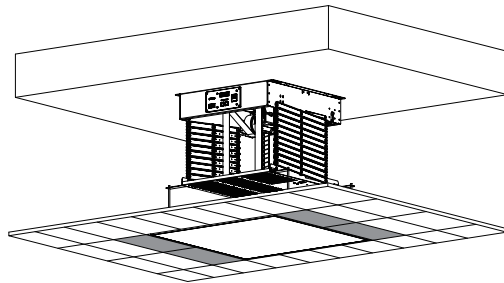


Figure 20

Notes: Ensure the supply voltage is matching the normal working voltage of this product, and the recommended power is 2 times more than the sum of lift's power and projector's power. It will be dangerous and will lead to damage of product in case using mismatching power supply.

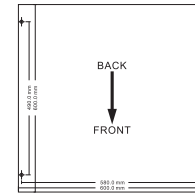
Caution: The electrical work should only be installed by a qualified electrician or it may cause product damage even personal casualty.

Accessories

- M5、M4、M3x20mm Screw(each 4pcs)
- Rubber Washer $\Phi 16 \times \Phi 5.2 \times 10 \text{mm}$ (4pcs)



- Ceiling punching positioning paperboard



- Long ribbon (3 pcs)

- 6P-4 power wire clip (1 pcs)

- Product certificate (1 pcs)

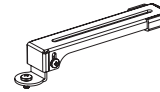
- User's manual (1 pcs)

- Screw M6x255mm (4 pcs)

- M6 nut (8 pcs)

Optional accessories

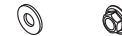
- Installation Bar(4pcs)



- M10x500 Threaded Rod(4pcs)



- M10 Nut、Washer(16pcs/each)



- Hanger(4pcs)



- Cables



RCA coaxial video cable



VGA extended cable

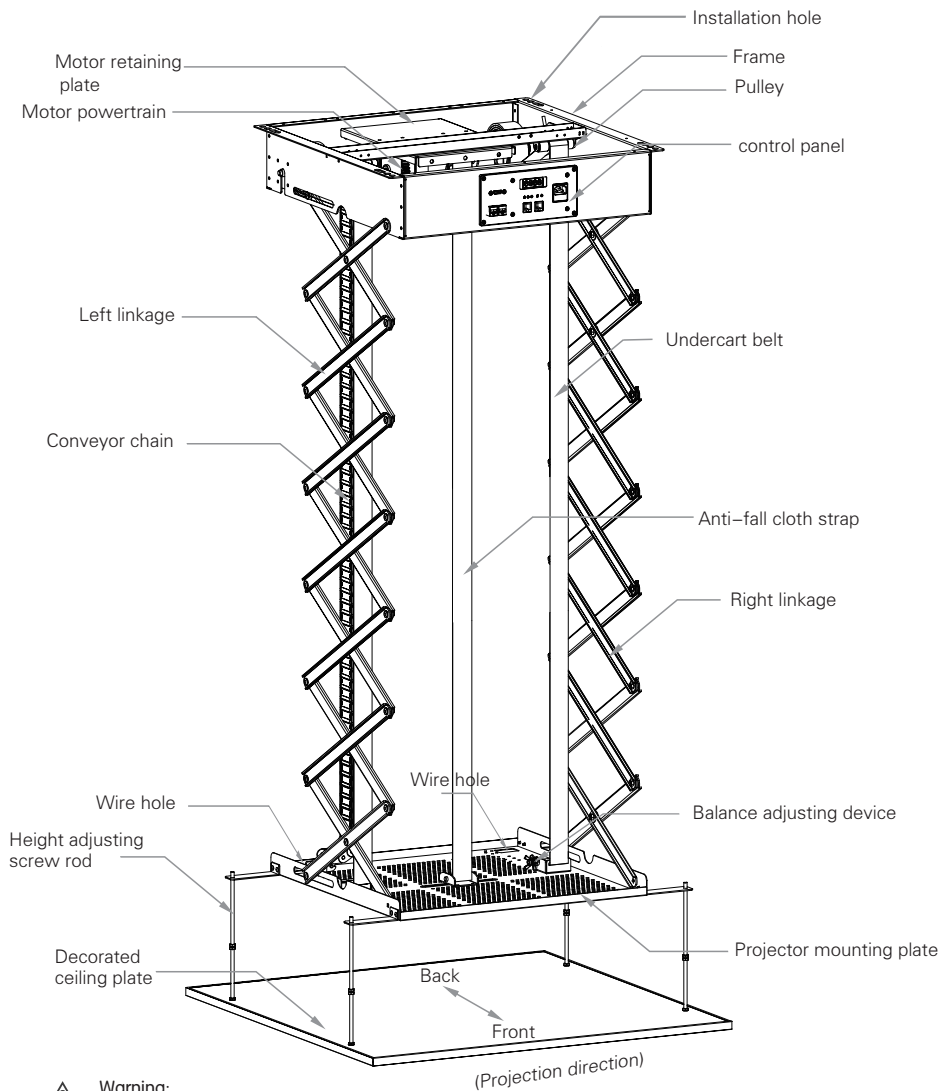


HDMI High definition extended cable



Alternating current extended cable

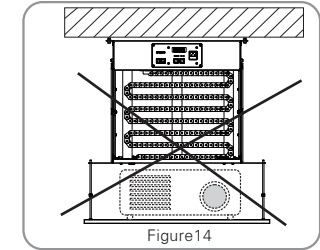
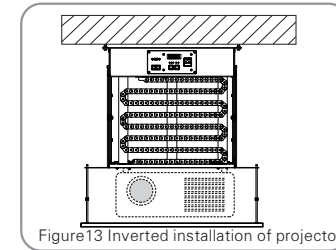
Construction for Projector Lift



⚠ Warning:
Decorated ceiling is only
for decoration use.

Installation

8. projector installation



Caution: Decorative ceiling plate can not bear any weights and must be fixed onto the multiorifice plate by screws, or it may cause product damage even personal casualty.

Please choose front or inverted installation of projector accordingly. For front installation, it is applicable to low ceiling location and requires more than 20mm gap between the projector and lift which ensures function well of projector lift.

9. Fasten screws to fix the projector onto the multiorifice plate as projector's slip device.

* This multiorifice plate is universally applicable for most kinds of projectors. Please use multifunctional arms in case of not corresponding mounting holes between projector and the multiorifice plate. There are 4 units of multifunctional arms in one package and will provide you a flexible adjustment installation.

10. Find the signal and power cables in the back of projector then contact the cables through the square opening at the back bottom of multiorifice plate.

11. The installation board may be unbalanced since the difference of woven belt's tightness or the not centric barycenter of projector. To keep the installation board balance please adjust the length of woven belt. (Figure 15)

- Left height adjustment (Figure 16), firstly unscrew the left adjusted nut from middle to left, then you can release or tighten belt by turning left screw. Turning clockwise to release belt and would lower height of left side. Inversely, turning counterclockwise to tighten belt and upper height of left side.
- Right height adjustment (Figure 17), firstly unscrew the right adjusted nut from middle to left, then you can release or tighten belt by turning right screw. Turning clockwise to release belt and would lower height of right side. Inversely, turning counterclockwise to tighten belt and upper height of right side.
- Please make sure the adjusted nut after adjustment.

* The woven belt can be adjusted within 20mm, keep lateral balance by adjusting both sides woven belt.

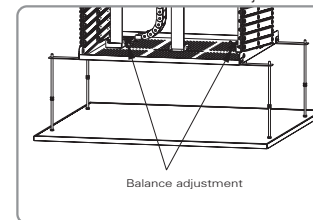


Figure15

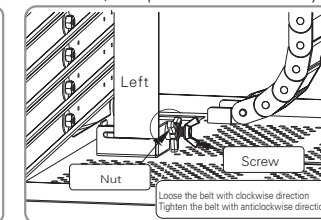


Figure16

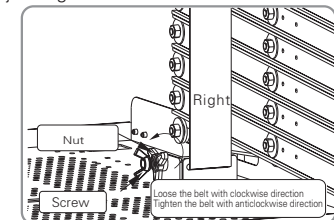


Figure17

Installation

5. Figure 8, Add the M8 Screw to fasten the mount bracket.

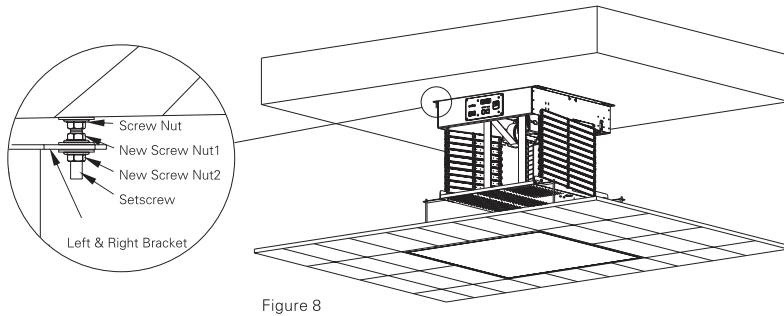


Figure 8

6. Check about the balance of projector lift with Levelling rod. If not in balance, please make a micro adjustment of screw, then remember fasten the screw when it's done.
[Attention] Do check the balance before installation, in case it may affect further use. Also may cause product damage.

7. Open the cover plate, then put the power cord and Signal wire into the storage. Do make sure the cover plate is fixed. (Figure 9 to 10)

*Don't thread power cord and Signal Wire through moving parts (Tube or connection rod), and please fix that on mount bracket of frame. If the wire touches motor or connecting rod, it may cause product damage.

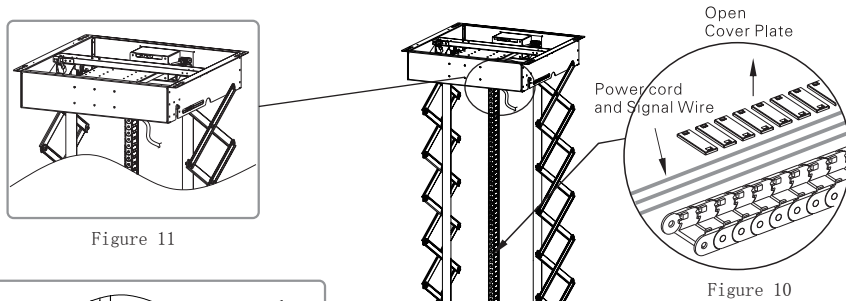


Figure 11

Figure 10

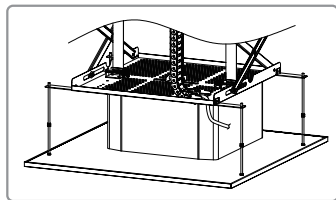


Figure 11

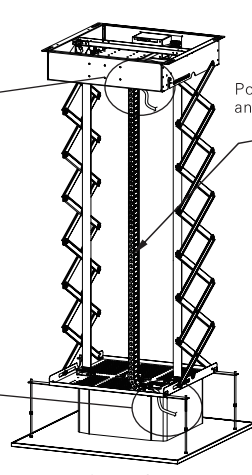
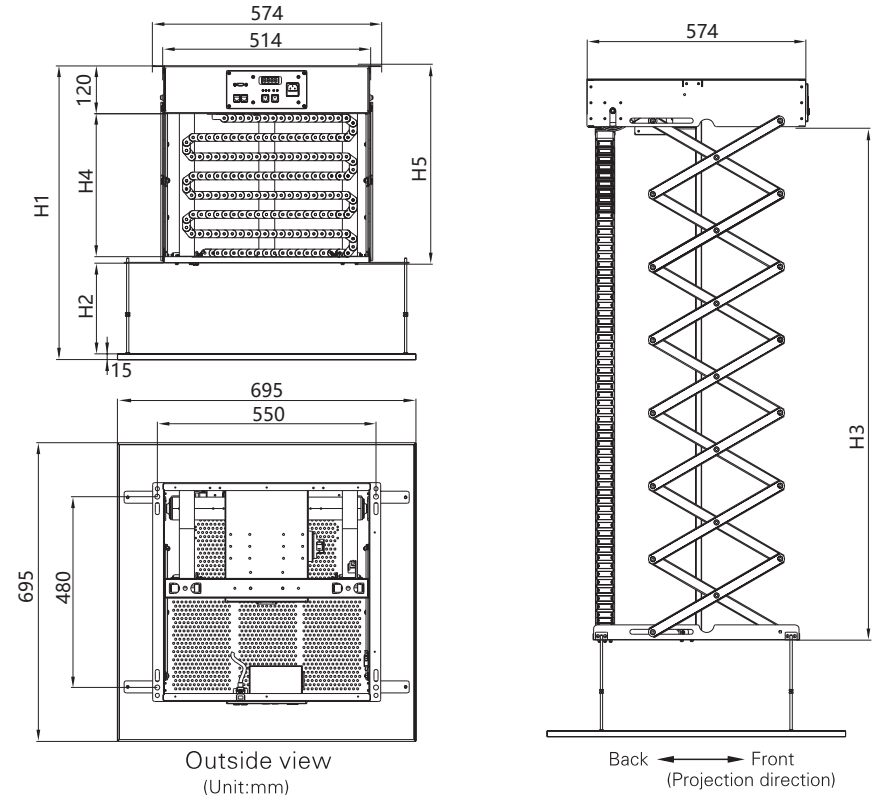


Figure 9

Specification



Specifications (Unit:mm)

Model	Retraction Height (H3)	Overall Height (H1)	Frame Height (H5)	Suitable projector size (H4)	Maximum weight (KG)	Suitable projector sizes
GPCK-ME1000E	0-1000	250	235	110	40KG	W600xD600xH240
GPCK-ME2000E	0-2000	360	345	220	40KG	
GPCK-ME3000E	0-3000	470	455	330	40KG	
GPCK-ME4000E	0-4000	580	565	440	40KG	

Attention

- Overall Height (H1) means the distance from decorated ceiling plate to projector mounting plate (H2=0mm)
- Can adjust the H2 from Minimum 0mm to Maximum 300mm
- If projector inverted and its height over 200mm, can replace with 4 pieces M6 screw for higher H2 requirement. The suggested opening ceiling dimension is 700*700mm or 705*705mm. Electric parameter: Voltage: AC110-120V/60Hz or AC220-230V/50Hz, Currents: 0.27A/0.54A, Power: 60W

Instruction

This projector lift needs to be recessed into the ceiling, and this instruction shows us the grille–ceiling as example. Please install the projector lift according to different application. The projector lift needs to be recessed at the best viewing angle in order to improve the image. Take out all the parts from the packaging and follow the accessories guideline to ensure you have all parts.

Please kindly read the instruction manual before installation for safety consideration, and choose the best installation method according to your site situation.

Below use grille–ceiling as example for instruction steps

1. Choose a position according to the required space, and then take apart the ceiling (figure 1). Please measure the distance H between roof and ceiling surface correctly (figure 2)

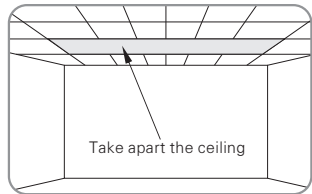


Figure 1

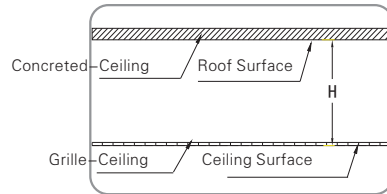


Figure 2

2. Pls choose the corresponding installation method according to the product height H1 and the distance between Roof Surface to Ceiling Surface H.

A. If $H < H1$ (Supposed it's Maximum H2), can install project lift on the Concreted–Ceiling directly Check Figure 3.

B. If $H > H1$ (Supposed it's Maximum H2), need lengthening bar (Optional accessories) to install Check Figure 4.

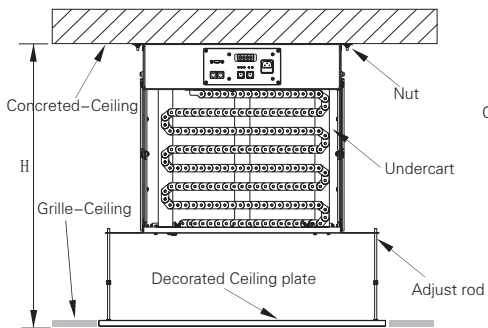


Figure3 Standard ceiling installation

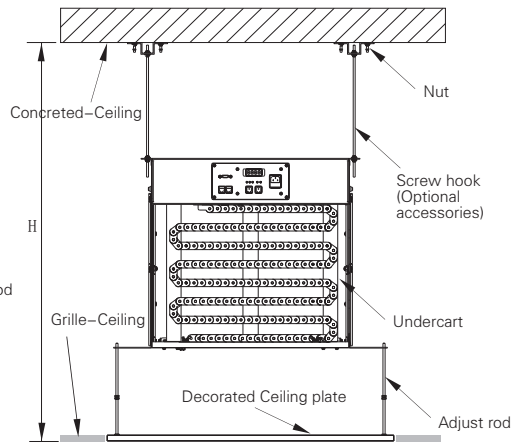


Figure 4 High Ceiling

Installation

3. Please stick the locating cardboard on the ceiling, then drill the ceiling by the guide hole of the cardboard. Then mount the lift and fasten by included M8X80 anchor screws, make sure the lift is fixed.

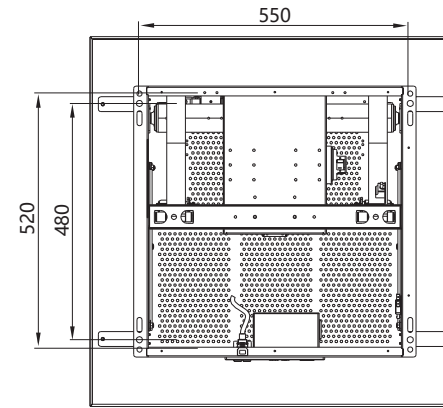


Figure 5 Distance of Installation Hole

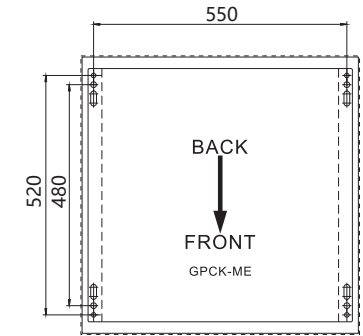


Figure 6 Locating Cardboard (For Drilling hole only)

4. Install the projector lift and fasten. (Figure 7)

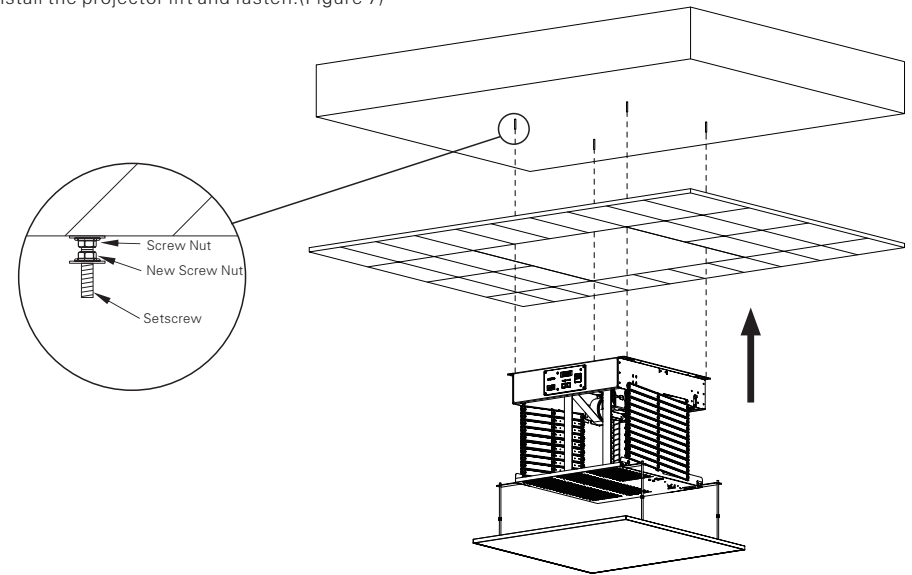


Figure 7