Grandview®

Grandview®

Instruction Manual

X – Arm Projector Lift

Models
GPSC-5006
GPSC-5010
GPSC-5015
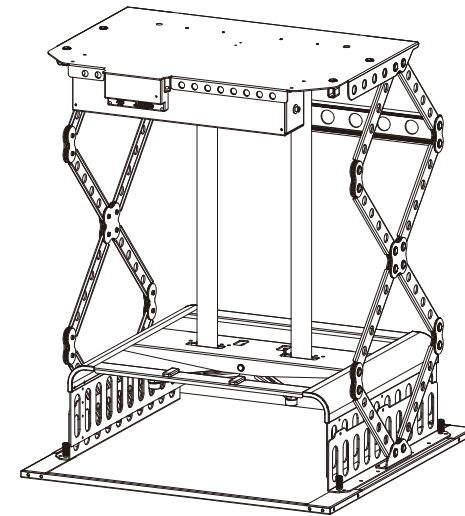
ISO9001:2015
International Certification

intertek UKAS

Grandview®

Thank you for purchasing this product. Before use, please ensure that the mounting bracket is suitable for your projector equipment and read this manual carefully.

Important safety instructions

WARNING: To reduce the risk of fire or electric shock, do not expose product to rain or moisture.

■ Please read this manual before installation and use to avoid damage to the product due to improper installation and use.

■ Keep away from heat sources such as radiators, heaters, stoves and other equipment (including amplifiers).

■ Only connect power plugs with grounded conductors.

■ Only use accessories provided by the supplier.

■ If you encounter lightning storms or if the product is not used for a long time, please unplug the power cord.

■ Please leave it to professional service personnel for installation and maintenance.

■ Never install the product in a humid or location where water may be splashed.

■ This unit is not disconnected from AC power as long as the product plug is connected to the power source.

■ Please use a power cord (3-core wire/device/connector/plug) that meets specific voltage and current ratings. If you have any questions about its use, consult professional maintenance personnel.

■ Please use an approved power cord (3-core power cord)/device interface/plug, and its grounding plug should comply with applicable national safety regulations.

■ When installing this equipment, provide an easily accessible disconnect device in the fixed wiring, or connect the mains plug to an electrical outlet that is close to the equipment and easily accessible. If a malfunction occurs while operating the device, the device can be disconnected by cutting power to the de-energized device power supply, or disconnect the power plug.

■ The installation location must have sufficient mechanical strength, and the load-bearing requirement is 4 times the weight of the projector lift. Otherwise, an accident may occur or the lift may fall off.

■ The ceiling cutting height must be greater than the product height; otherwise, it cannot be installed properly. Please ensure the ceiling installation height exceeds the product height by at least 100mm.

⚠ **Note:**   Objects other than projectors cannot be mounted.

🚫 **Disassembly prohibited:**   Do not disassemble or dismantle the components of the mounting bracket!

This installation and operation manual is written for dealers and installation technicians. Customers are advised not to install it by themselves. They must hire qualified professional technicians to install and follow the installation instructions.
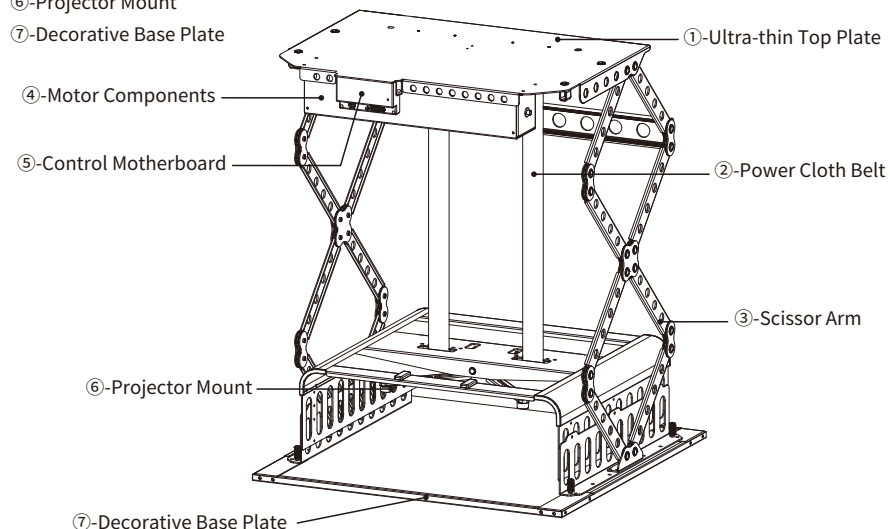
Troubleshooting

The projector lift is designed for years of trouble-free use, with most problems stemming from simple issues. If you find an issue, check out the list of simple fixes below.

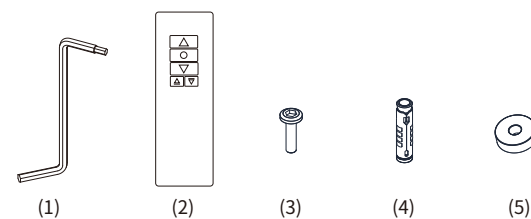|	Reasons	Solutions
Lift stand fully installed but not functioning properly	The positive and negative poles of the transmitter battery are reversed or the battery power is insufficient.	Refer to the instruction manual to check whether the battery is installed backwards. If the fault is not eliminated, replace the battery.
	The power cord is not connected properly	Refer to the instruction manual to connect the power cord and plug it in tightly.
Remote control does not respond	Poor reception/blocked signal	Restart the lift power
Restart the lift power	The rear signal line is blocked	Deal with the wire direction/adjust the lift position

Parts

GPSC-5006 Ultra-Thin Motorized Projector Lift

①-Ultra-thin Top Plate
②-Power Cloth Belt
③-Scissor Arm
④-Motor Components
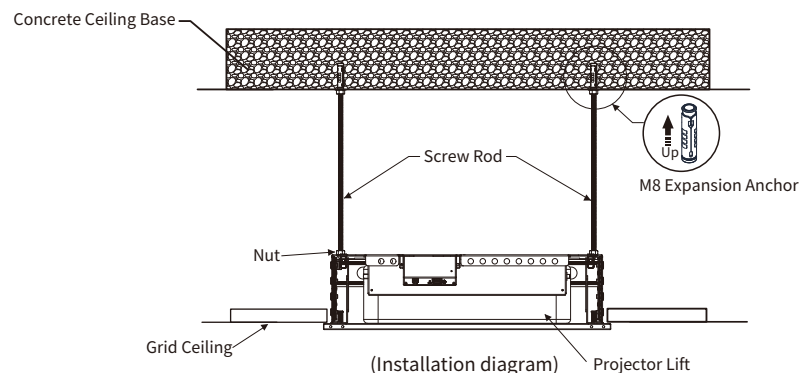⑤-Control Motherboard
⑥-Projector Mount
⑦-Decorative Base Plate

①-Ultra-thin Top Plate

④-Motor Components

⑤-Control Motherboard

②-Power Cloth Belt

③-Scissor Arm

⑥-Projector Mount

⑦-Decorative Base Plate

Accessories

(1)   (2)   (3)   (4)   (5)

(1) Allen Key 1pc
(2)Remote Control 1pc
(3-1) M5x30 Socket Screw 4pcs
(3-2) M4x30 Socket Screw 4pcs
(3-3) M5x20 Socket Screw 4pcs
(3-4) M4x20 Socket Screw 4pcs

(4)M8 Expansion Anchor   4pcs
(5)Mounting Spacer   4pcs
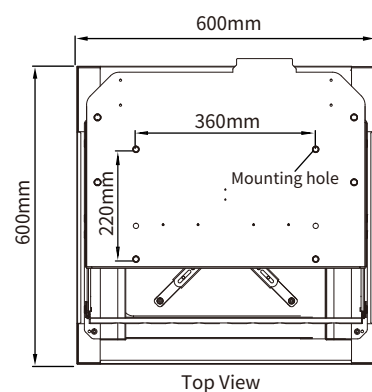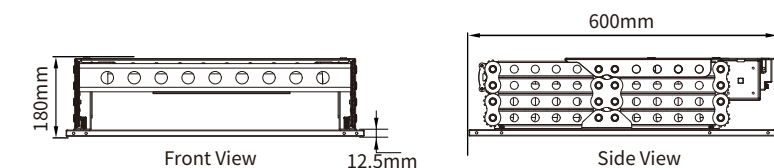 Instruction Manual   1pc

Installation

Installation instructions

This product is suitable for installation in various suspended ceilings. This manual takes the installation method of the grille ceiling as an example. Please adapt the installation method to suit different environments.This product should be installed in the best proiection position. Correct installation will make the product more convenient and safer during use. Open the packaging box, check whether the spare parts are complete, then take them out and put them in a suitable place for installation according to the following operation methods.

* For the safety and convenience of the lift, please read the entire installation section of the instruction manual and choose the most suitable installation method according to your actual site conditions!

Concrete Ceiling Base

Screw Rod

M8 Expansion Anchor

Up

Nut

Grid Ceiling

(Installation diagram)　　Projector Lift

Parameters

180mm

Front View　　12.5mm

600mm

Side View

600mm

360mm

Mounting hole

220mm

600mm

Top View

Product Parameters:

Model: GPSC-5006

Product Dimensions:W600 x D600 x H180mm

Max Projector Size (with plug and lens):W480 x D470 x H160 mm

Ceiling Opening Dimensions:W590 x D590 mm

Installation hole distance:W360 x D220 mm
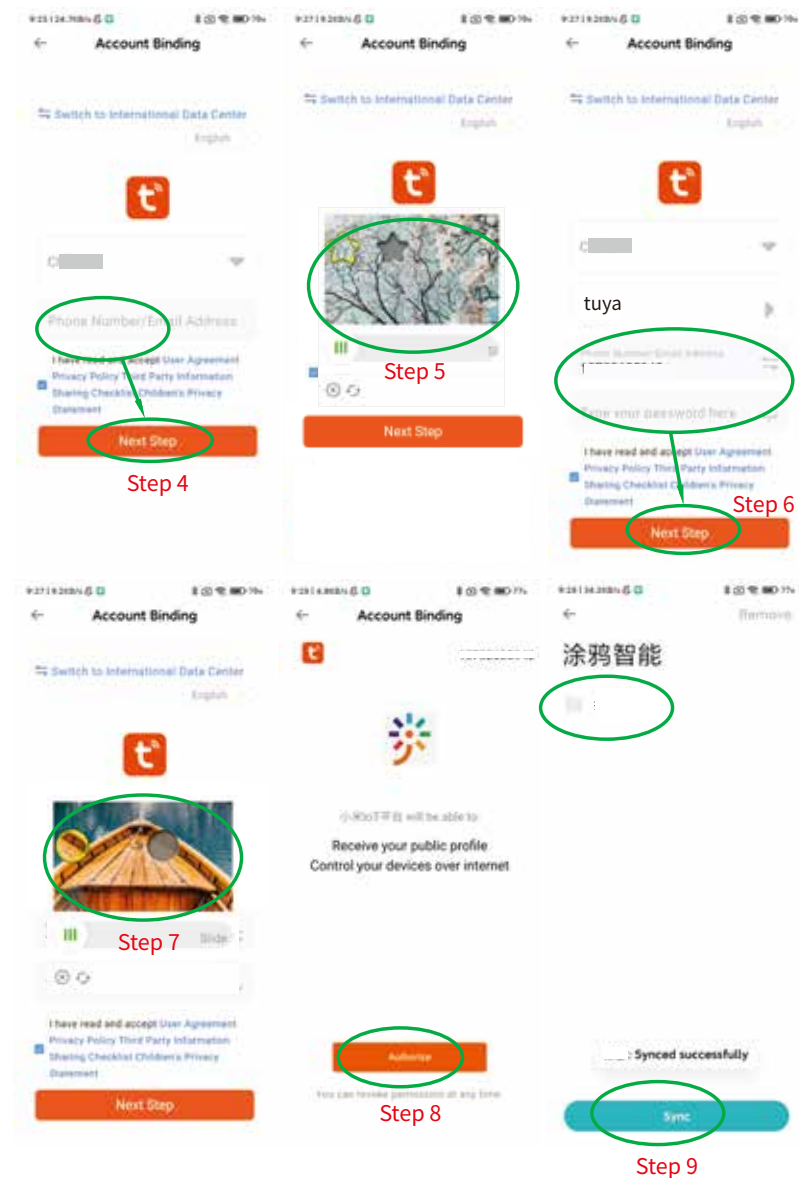
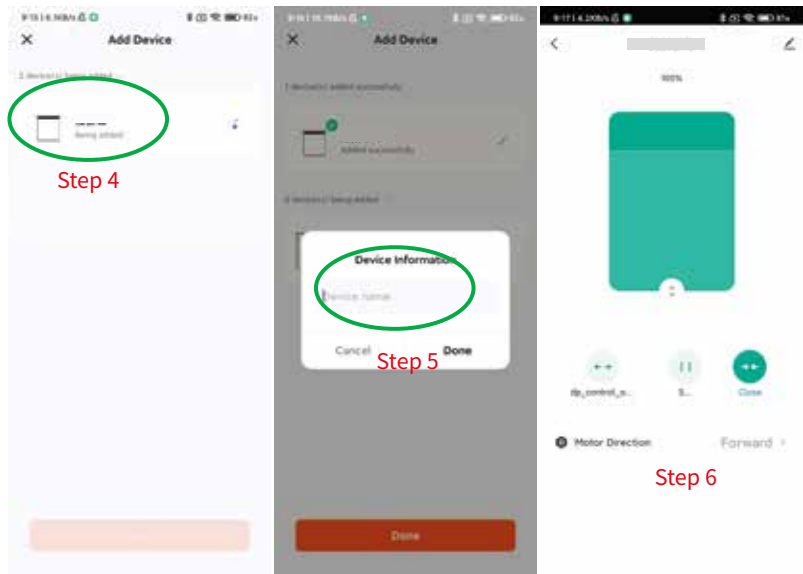Decorative Base Plate:W600 x D600 mm

Rated power:145W

Max Travel:600 mm

Weight capacity:15Kg

Rated voltage：AC110~120V / 60Hz or AC220V~240V / 50Hz

(Actual voltage shall be subject to the electrical label shown on the product)

AI Speaker Connection Method

Account Binding

Switch to International Data Center
English

Phone Number/Email Address

I have read and accept User Agreement Privacy Policy Third Party Information Sharing Checklist Children's Privacy Statement

Next Step

Step 4

Account Binding

Switch to International Data Center
English

Step 5

Next Step

Account Binding

Switch to International Data Center
English

tuya

I have read and accept User Agreement Privacy Policy Third Party Information Sharing Checklist Children's Privacy Statement

Step 6

Next Step

Account Binding

Switch to International Data Center
English

Step 7

I have read and accept User Agreement Privacy Policy Third Party Information Sharing Checklist Children's Privacy Statement

Next Step

Account Binding

小度IoT平台 will be able to

Receive your public profile
Control your devices over internet

Authorize

Step 8

涂鸦智能

: Synced successfully

Sync

Step 9

Step 4

Step 5

Step 6

AI Speaker Connection Method

Supports AI speakers like Xiaomi XiaoAI, Xiaodu, Tmall Genie, etc. Using Xiaomi XiaoAI speaker as an example:

1. Open the Mi Home APP and click 'Profile' in the bottom right corner.
2. Click 'Connect to other platforms' and add 'Tuya Smart'.
3. Bind your account: - Enter your phone number (Tuya account) and proceed. - Verify your account. - Enter your Tuya account password and proceed. - Authorize the connection.
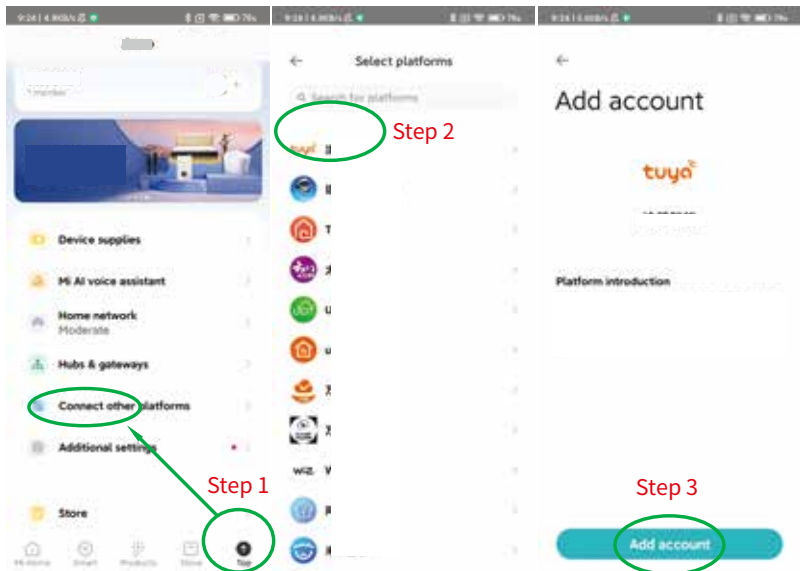4. Sync devices. Binding is now complete.

Step 2

Step 1

Step 3
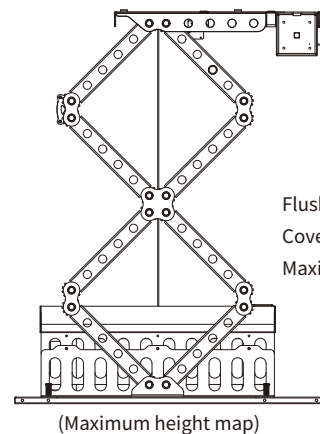
Table 1   Unit：mm

Model	Name	Travel height range	Maximum load bearing capacity(KG)
GPSC-5006	Single X node	500	15
GPSC-5010	Double X node	1000	12
GPSC-5015	Triple X node	1500	10

Flush Installation: The projector's decorative base plate is flush with the ceiling

Cover Installation: The decorative base plate of the projector just covers the ceiling

Maximum projector installation size:W480xD470xH160mm

(Maximum height map)   (Minimum height map)
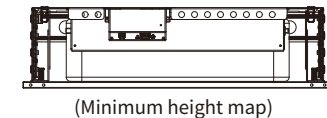
Refer to the figure and table for the model-specific dimensions needed to determine the ceiling opening size for your projector lift.f the ceiling is higher than the minimum height, please secure it with screws. lf the ceiling is lower than the minimum height, it is recommended that the ceiling opening size be larger than the reference value.

Finally, the user chooses the installation method based on the actual situation. (Refer to the lifting frame model：Table-1. Note that the ceiling opening must ensure that the projector lift is not blocked.)

Ceiling opening size

For cover installation: 590 mm x 590 mm

For flush installation: 610 mm x 610 mm

Installation Steps

Projector ceiling mount installation

1. Select the installation location, (we recommend installing on the ceiling cement base) use an impact drill to drill holes for positioning, screw the M8 Expansion Anchor into the ceiling base, and then follow the order in Figure 1, sequentially put on the M8 screw, and tighten the installation. Note that the installation location here must ensure that it can bear the weight of the electric hoist and the projector to prevent the hoist from falling off and causing accidents.
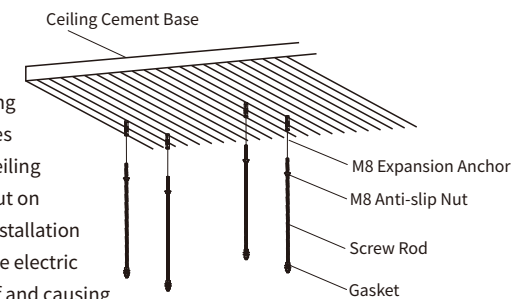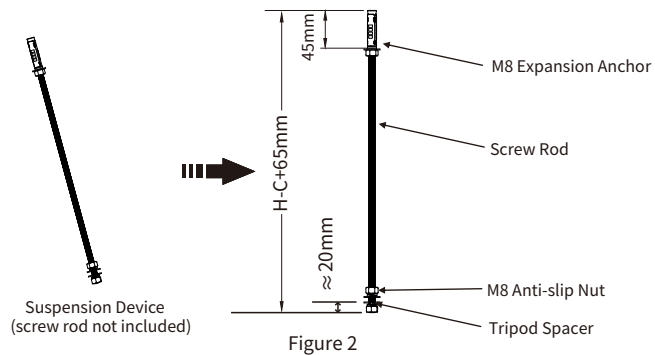
Ceiling Cement Base

M8 Expansion Anchor

M8 Anti-slip Nut

Screw Rod

Gasket

Figure 1

Figure 2

Labels in Figure 2:
- 45mm
- H-C+65mm
- ≈ 20mm
- M8 Expansion Anchor
- Screw Rod
- M8 Anti-slip Nut
- Tripod Spacer
- Suspension Device (screw rod not included)

2. Assemble the suspension device using the parts in figure 2 Cut the rod (M8) to a length of: H-C+65mm / H-C+52.5mm, where H is the distance from the bottom surface of the concrete roof measured in the previous step to the bottom surface of the ceiling, and C represents the frame height. (For example: If H is 1000mm, and the suspension height is 180mm based on the installation method chosen, if choosing cover installation method, the screw length should be H-C+65mm=925mm. If choosing flush installation, the screw length should be H-C+52.5mm=912.5mm), determine the installation distance of the frame.

Labels in Figure 3:
- Concrete Ceiling Base
- Projector Lift
- Grid Ceiling
- Upper limit switch gasket
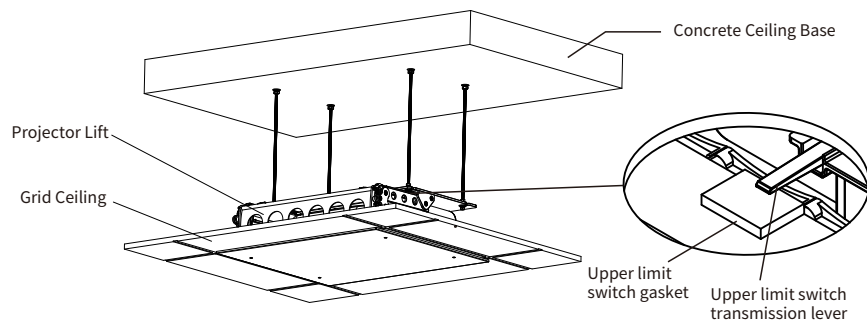- Upper limit switch transmission lever

Figure 3 (overall diagram)

3. During installation, making sure to align the holes accurately, then lock it in place with nuts, ensuring the bottom frame of the lift just covers the ceiling frame, completely concealing any gaps left after installing the projector lift, as shown in Figure 3.
Note: The upper limit switch transmission lever is located below the top plate of the lift. When the lift is closed and the decorative panel touches the ceiling, the upper limit switch must make contact as shown in the figure. Otherwise, it may damage the lift. (For ease of installation, you can first remove the decorative panel, install and secure the projector, and then reattach the decorative panel.)

# Wi-Fi Network Control

Tuya Smart APP Wi-Fi Configuration

If the product has already been connected to a network but needs to connect to a new network or new phone, it must first be cleared.

a. Clearing Network Using the Bracket Remote Controller:
1. Press the button on the back of the remote control. The light will turn on, and the bracket's mainboard will beep once and vibrate to enter setup mode.
2. Then, press the 'Stop' button on the remote control for 5 seconds. The bracket will vibrate, and the mainboard will beep twice ('beep beep'). Clearing is complete.

b. Connecting to the Network:
1. Ensure your phone is connected to a 2.4G Wi-Fi network and Bluetooth is enabled.
2. Open the Tuya Smart APP, click the '+' icon to add a device, and select the discovered device to add.
3. Enter the 2.4G Wi-Fi password, modify the device name (optional), and complete the addition.
4. A control interface will pop up, and setup is complete.
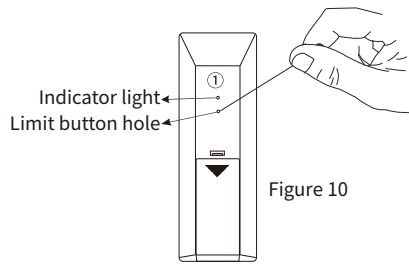

Step 1
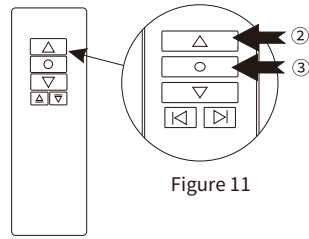Step 2
Step 3
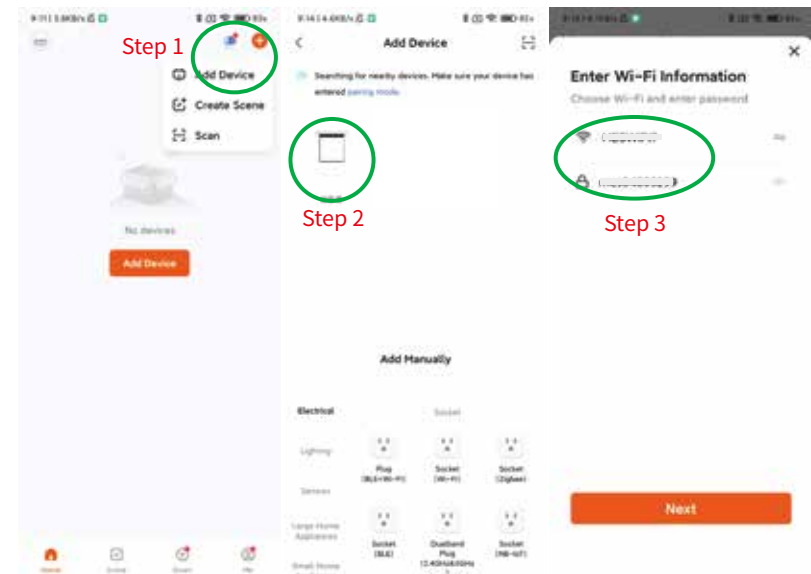
Figure 10

Figure 11

c. 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 12), 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 13), and then press the electronic positioning setting button ofthe 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.
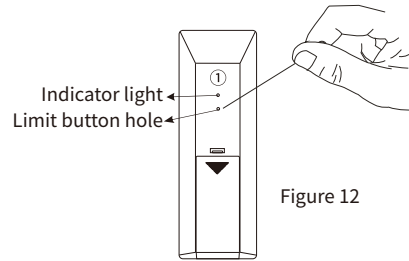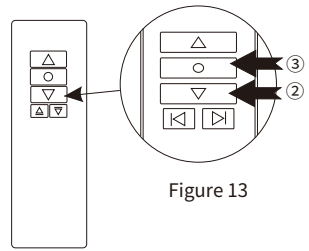

Figure 12

Figure 13

RS-485 Protocol

1.RS-485 port settings

a.Baud rate:2400

b.Data length:8

c. Parity check:N

d.Start bi: 1

e.Stop bit:1

2.Control code

a.Rise command：FF EE EE EE DD

b.Stop command：FF EE EE EE CC

c.Descending command:FF EE EE EE EE

Learn address code instruction:
if FF-- -- -- AA, Can be any character
or number, If input FF 11 11 11 AA,
It is FF 11 11 11 DD actually, Other
codes do the same.
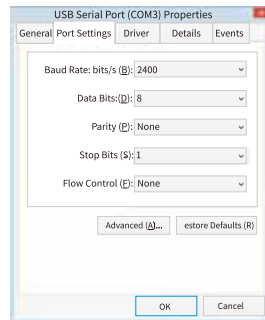
Notice:

1.When connecting via RS485, if any control fails, please switch two controlling cables.

2.The resistance measured by a Loop Resistance Tester should not exceed 20Ω.

3.Prohibit parallel line with strong interference source.
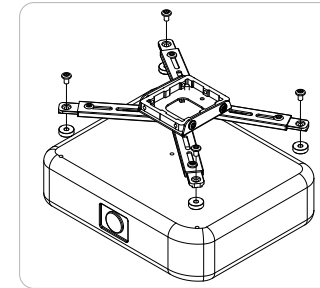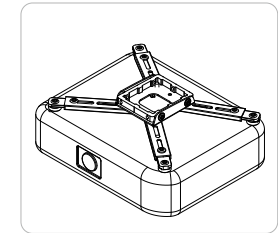
Projector installation (Figure 4)

Figure 4

Remove the angle adjuster and mounting bracket assembly from the projector lift, align the mounting bracket hole in the assembly with the projector hole, and tighten it to the projector with screws. The installation is complete, as shown in Figure 4.

Projector angle adjustment (Figure 5)

These two screws adjust the left and right angles by 15°
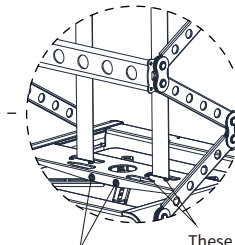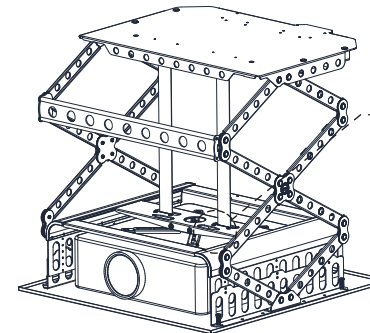
Two screws on the front adjust the left and right angle to 15°

Figure 5

1. As shown in Figure 5, detect the level of the proiector lift in the front and rear and left and right directions. If it is tilted, you can adjust the level of the projector by adjusting the up and down positions of the nuts in the picture. The center of gravity of the projector cannot be tilted too far forward.
Note: Make sure that the projector lift is smooth and unobstructed when moving up and down.

2. When adjusting the vertical angle, you need to loosen the front positioning screw, insert the screwdriver into the vertical adjustment hole and turn the screw.
Use a screwdriver to fine-tune the required angle, and then tighten the screws. (Vertical tilt angle: 15°)

3. When adjusting the horizontal angle, you need to loosen the positioning screw in front of the cloth belt, insert the screwdriver into the horizontal adjustment hole and turn
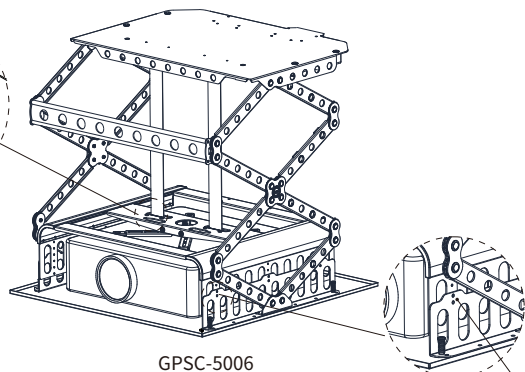Use a screwdriver to fine-tune the required angle, and then tighten the screws. (Horizontal tilt angle: 15°)

Power cloth belt fixing piece

Belt pull position

Figure 6-1

GPSC-5006

Adjust the screw here

Figure 6-2

4. As shown in Figure 6-1, you can loosen the screws in the cloth strap fixing piece to pull the cloth strap to reduce the height of the projector (0mm-600mm). In addition, when encountering a larger projector, you can loosen the originally fixed screws and adjust them to the screw holes suitable for the height of the projector as shown in Figure 6-2.

Electrical and Installation Instructions

Connect the power cable and signal cable, as shown in Figure 7

Indicator Light
Learning Key
Power Input
RS485/Dry Contact
Antenna Interface
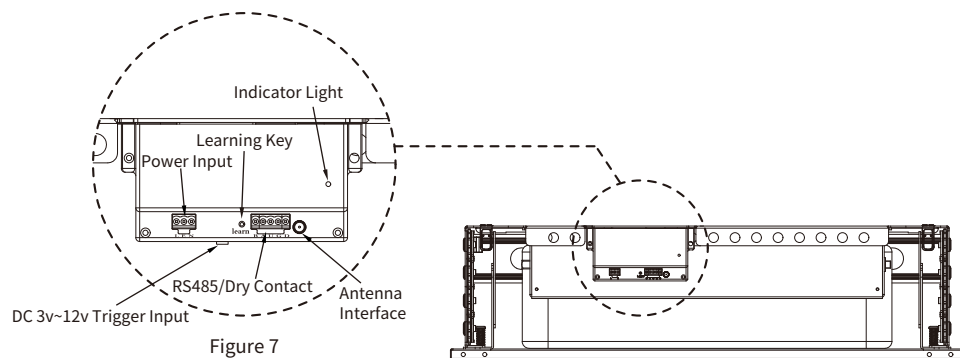DC 3v~12v Trigger Input

Figure 7

L: Live wire, E: Ground wire, N: Neutral wire

φ2.5 interface: DC 3v~12v trigger input

B: RS-485-, A: RS-485+

U: Up, G: public, D: Down

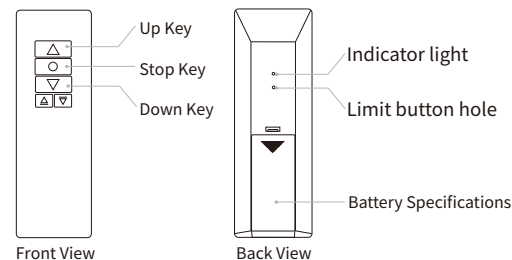When the 'G' (ground) and 'U' (up) wires are connected, the lift will rise.

Touch G and D once and the lift will descend.

Remote Functions Guide

Remote Functions

1. Press the up button and the projector lift will rise.
2. Press the stop button to stop the projector lift.
3. Press the button to lower the projector lift.

Up Key
Stop Key
Down Key
Indicator light
Limit button hole
Battery Specifications
Front View
Back View

Precautions when using remote control

1. Working temperature: -20℃ to ±70℃.
2. Transmitter battery: Two AAA 1.5V batteries.
3. When the signal from the remote control is weak, pleasereplace the battery.

Remote control battery replacement and installation When the signal from the remote control is weak, please replace the battery as follows:

1. Push the back cover of the remote control downward to remove it.
2. Install new batteries, ensuring correct polarity (+/-).
3. Replace the back cover. Battery replacement is complete.

Remote Controller Pairing and Clearing Methods

Remote Controller Pairing Method:

(Factory-paired, no need for re-pairing)

Method 1:

1. Turn off the power of the electric bracket and then turn it back on.
2. Within 10 seconds, press the 'Up' and 'Stop' buttons on the remote control simultaneously. 3. The electric bracket will slightly move up and down, indicating successful pairing.

Method 2:

1. With the electric bracket powered on, press the 'Learn' button on the mainboard with a pin.
2. The bracket enters pairing mode. Press the 'Up' and 'Stop' buttons on the remote control simultaneously.
3. The bracket will move slightly up and down, indicating successful pairing.

Remote Controller Clearing Method:

To clear the pairing, perform the pairing procedure again with the already paired remote controller.
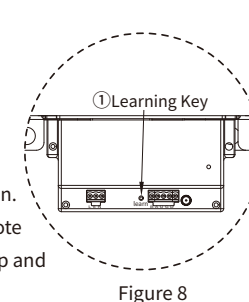

②Press both buttons simultaneously
①Learning Key
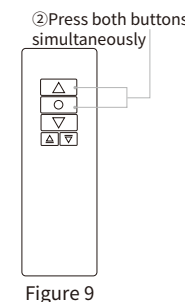Figure 8   Figure 9

Remote control electronic positioning

a. When the lift is under load, you can use the remote control to set the upper and 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 ofthe elevator on the back of the remote control (as shown in figure 10), press the electronic positioning setting button ofthe elevator, the red and blue LEDs will light up, and then press the elevator Rack up button, at this time, after the lift rises to a suitable position, press the stop button of the remote control (as shown in Figure 11), and then press the up button electronic positioning setting button, the red and blue light-emitting diodes are off, and the lift moves up and down.Once, the electronic upper limit setting of the lifting frame is completed.