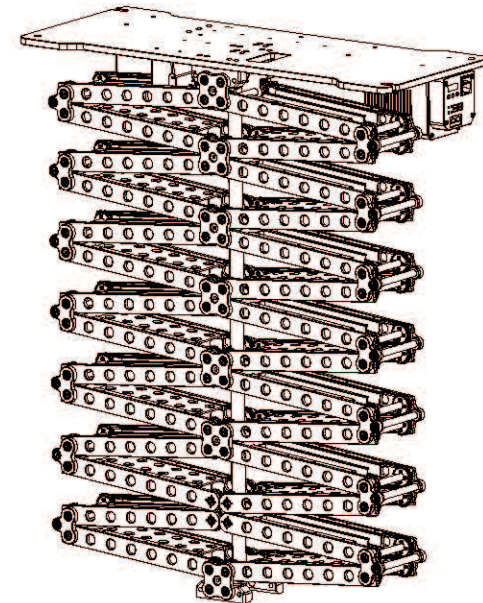


GSAT Series Type X Electric Iron Hand

Applicable Model

- GSAT-6506
- GSAT-6512
- GSAT-6517
- GSAT-6523
- GSAT-6529
- GSAT-6535
- GSAT-6541
- GSAT-6547
- GSAT-6553



Thank you for purchasing Grandview's product. Please ensure this iron hand is applicable for your projecting equipment before application, and details in this instruction.

Trouble Shooting

This Electric iron hand is designed for long-term service without malfunction. A lot of problems result from small issue. Please kindly first check the below easy fixing sheet for repair if any problem occur. If problem persistent, please contact your local authorized distributor for help.

	Cause	Solution
Iron hand is installed successfully, but not working normally	Battery of remote control was installed improperly or power low	Refer to this instruction to check if the battery are correctly installed, and if problem persists please change the battery
	AC cable is not connected correctly	Refer to this instruction to connect the AC cable tight and properly
Remote control no response	Signal weak/blocked	Reboot iron hand power
Iron hand synchronized	Signal Blocked	Total retract the iron hand and extend again
	Motor overheated	Wait until motor cools down

6. Connect the power cable and signal cable

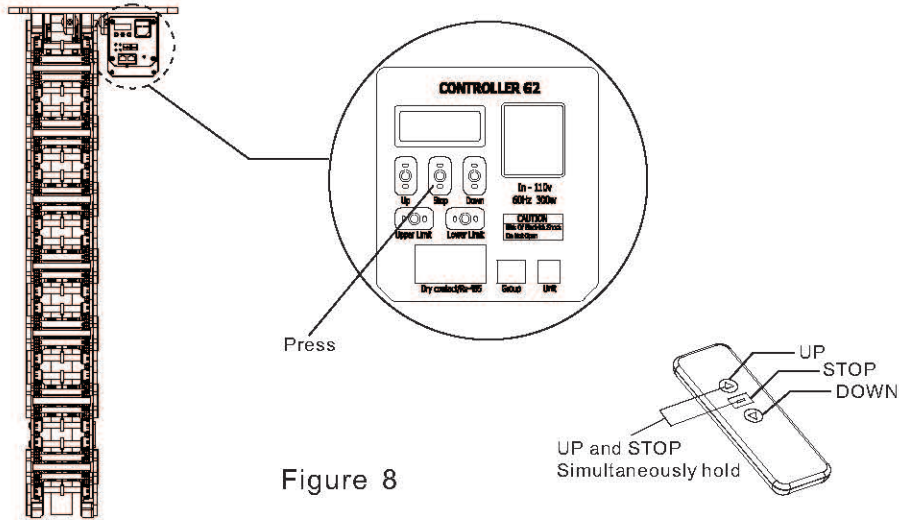


Figure 8

GSAT series remote control pairing instruction:

This product has iron hand pairing function. Usually before the 1st application of the iron hand, it needs to be paired with the remote control. This iron hand has already been paired with remote control EX factory.

- As in figure 8, under the loading condition of the iron hand, long press the stop button within 5 second after power on. Release the button until the iron hand move upward and downward.
- Then long press UP and DOWN button until the iron hand move upward and downward.
- Test whether the remote could control the iron hand normally, otherwise please pair again.

7. Test whether the remote control is paired successfully

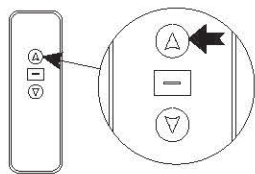


Figure 9

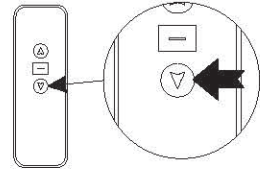


Figure 10

- As per figure 9 and 10, IF press the UP the iron hand retracts; press DOWN the iron hand extends, that proves successful pairing.
- If pairing fails and the iron hand could not be control, repeat the method in Part a.

* Please make sure after limitation setting by electronic system, the iron hand could extend to required height and totally retract with its bottom parallel to the ceiling.

Attention: This must be operated by professional personnel.

Important Safety Notice

Warning: In case of fire and leakage, please do not expose this product to rainy or damp environment

- Please read this instruction carefully before installation and application in case of damage.
- Keep this product away from heat source for example heater, stove or other equipment including amplifier.
- Only connect this product to plug with earth wire.
- Only use the accessory provide by supplier.
- Under thunderstorm weather or situation of long time off, please unplug the power cable.
- Installation and maintenance should be handled by professional personnel.
- Do not install this product in a damp place or condition that may possibly get wet.
- As long as the plug in, this product is attached to AC power supply.
- Please use the quality recognized AC cable (three-core power cord)/equipment joint/plug. If any question of the foresaid accessories, please contact professional personnel.
- An easy applied power outage device is required during the installation of this product, or connected to an electrical socket, which is close to the product and easy for application. If accident happens during operation, you could switch off the power outage device or unplug to cut- off the power. Installation position should have enough mechanical strength and the bearing capacity should be 4 times of the total weight of this iron hand and the loading equipment, otherwise there may be possibility of equipment drop off and causing accident.

Attention Please operate this product under this instruction.

Disassembly prohibited Please do not disassembly component of this product.

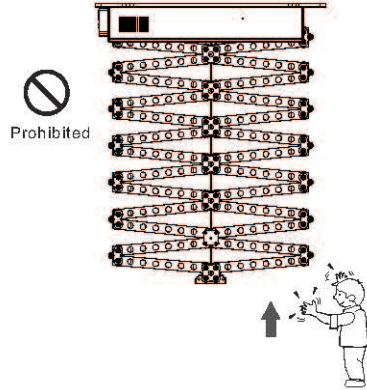
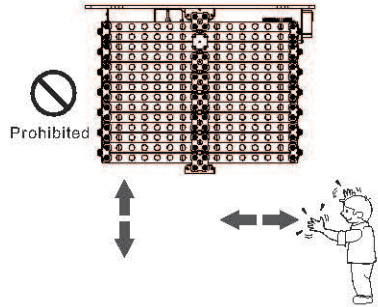
This Instruction is edited by distributor and installation technician. Please do not install by yourself and please let the professional personnel to handle the installation under this instruction.

Attention

Please refer to below instruction to operate this product during installation and application

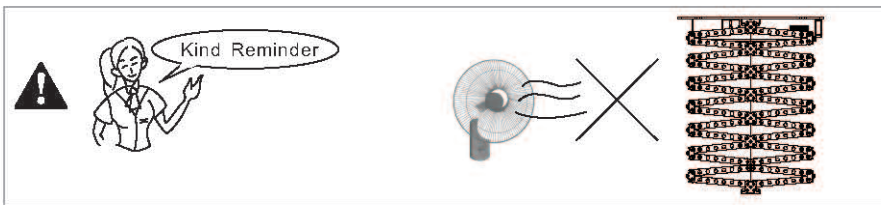
- Please do not sway this iron hand on all sides.

- Please do not hold up the iron hand by your hand.



Installation Condition Notice

- Please do not install in the place with direct sunshine, heavy dust, high temperature and moisture. Please avoid operation in heavy windy situation.
- Iron hand totally extended height should not be less than 1.8m to avoid contact by children.

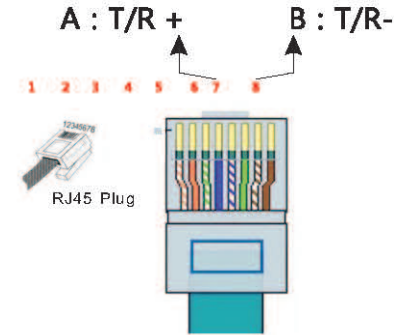


Maintenance Notice:

- Please do not disassemble this iron hand or loosen the screw of it. If any maintenance or calibration required, please contact us or your local distributor.



RS-485 :



1. Orange-white
2. Orange
3. Green-white
4. Blue
5. Blue-white
6. Green
7. Brown-White
8. Brown

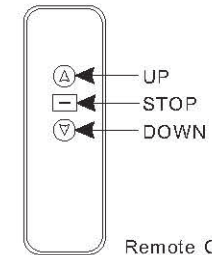
RS-485 connecting mode

Use 568B connecting mode to connect RS-485, brown white wire connected to T/R+ and brown wire to T/R-

5. Remote controller instruction

Remote controller key function

1. Press UP to retract the iron hand
2. Press STOP to pause the iron hand
3. Press DOWN to extend the iron hand



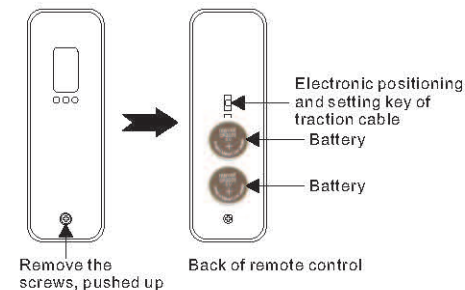
Remote Controller Front View

Remote Controller Notice

- a. Service temperature: -20° to $+70^{\circ}$
- b. Battery: Two RC2032 button cell
- c. Please exchange battery when controller signal is weak

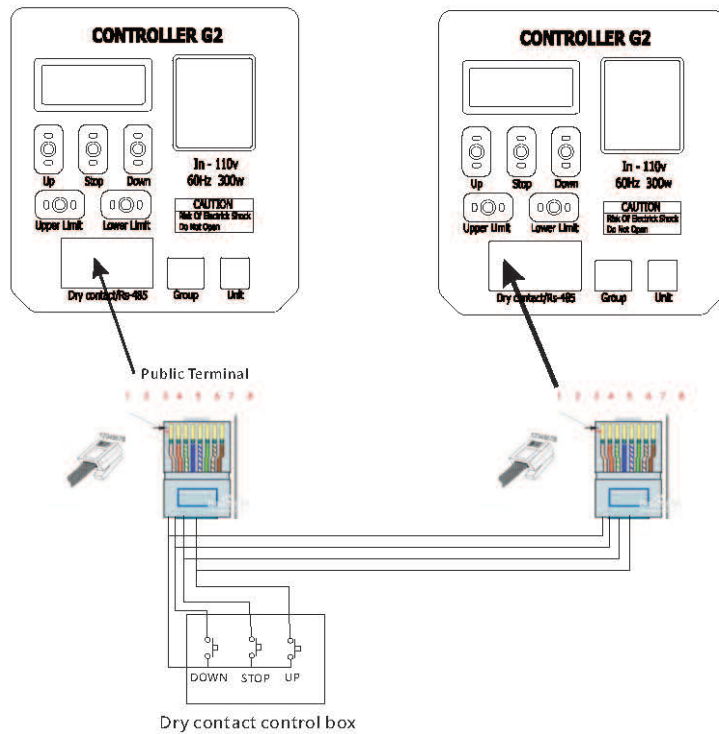
Remote Controller Battery Exchange Please exchange the button cell as below when controller signal is weak:

- a. Loosen the screw on the back the controller, and then push up the back cover as per the arrow;
- b. Load in the button cell as per positive and negative pole shown in the figure;
- c. Close the cover back and tighten the screw.

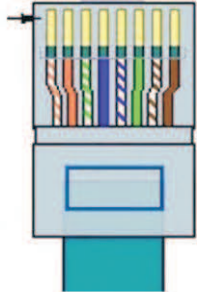


Dry contact linkage wiring diagram:

This figure connection requires professional installation or detailed customer service staff



Wiring instructions:



Manual RJ45 plug

- 1Port—GND
- 2Port—DOWN
- 3Port—STOP
- 4Port—UP

RS-485-RJ45

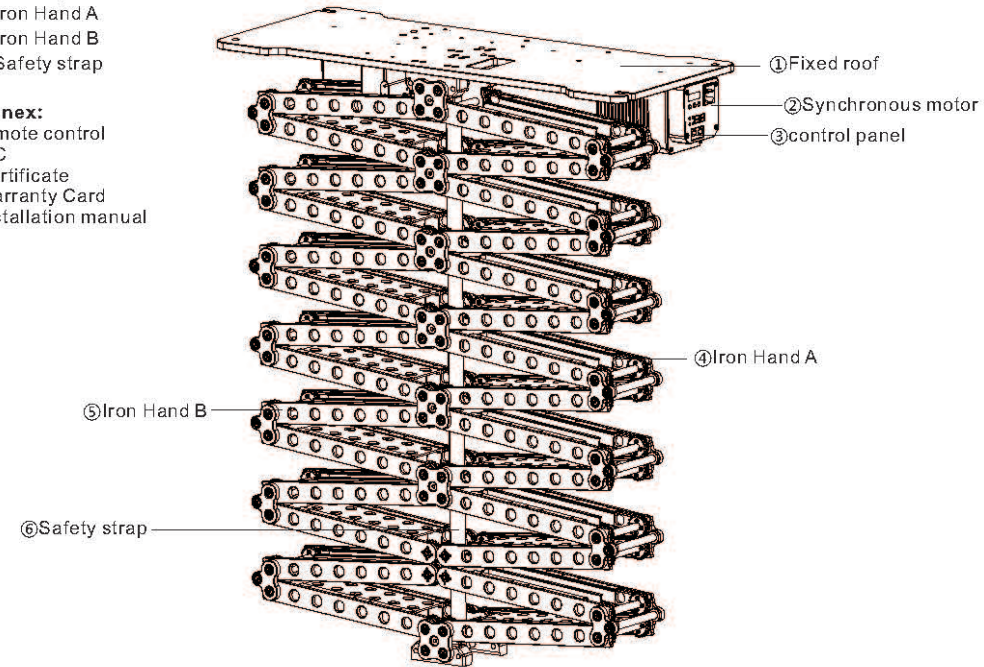
- 7Port—5A (485+)
- 8Port—3B (485-)

Component

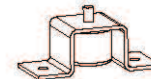
GSAT series X-type electric lifting Iron arm

- ①Fixed roof
- ②Synchronous motor
- ③control panel
- ④Iron Hand A
- ⑤Iron Hand B
- ⑥Safety strap

Annex:
remote control
PC
Certificate
Warranty Card
Installation manual

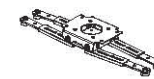


Optional accessories



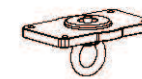
(1)

Shock absorber



(2)

Adapters



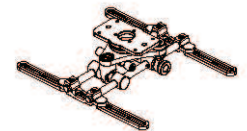
(3)

Hook



(4)

Extension rod



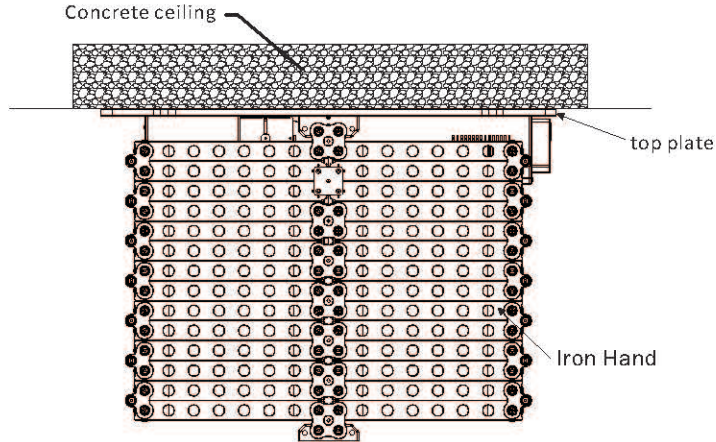
(5)

Adapters

Installation instructions:

This product is suitable for installation in various ceilings. This manual uses the installation method of grille ceiling as an example. Please install it according to different installation environment. This product should be installed in the best projection position. Proper installation will make the product more convenient and safer during use. Open the box, check that the parts are complete, and then take them out and place them in the appropriate place. Follow the instructions below.

- * For the safety and convenience of the hanger, please read the installation part of the manual completely, and choose the most suitable installation method according to your actual situation.



{Installation diagram}

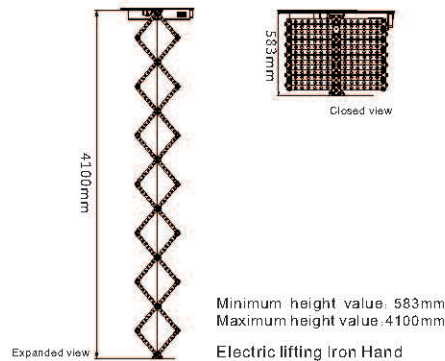
Warning: The top plate must be kept horizontal when installing, otherwise it will cause damage to the Iron Hand.

Specifications

- * Please consider the projector weight according to Table 2, and according to Figure 1. Figure 2 shows the electric hanger model.

Form-2

model	Height range	Load weight
GSAT-6506	163mm~600mm	40KG
GSAT-6512	233mm~1200mm	40KG
GSAT-6517	303mm~1700mm	40KG
GSAT-6523	373mm~2300mm	40KG
GSAT-6529	443mm~2900mm	40KG
GSAT-6535	513mm~3500mm	40KG
GSAT-6541	583mm~4100mm	40KG
GSAT-6447	653mm~4700mm	40KG
GSAT-6553	723mm~5300mm	40KG



Minimum height value: 583mm
Maximum height value: 4100mm
Electric lifting Iron Hand

Synchronous use of group code and bit code settings

Group code

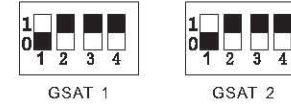


Figure6-1

Bit code

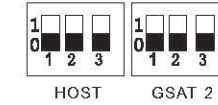


Figure6-2

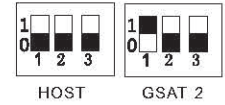


Figure6-3

How to distinguish between hosts:

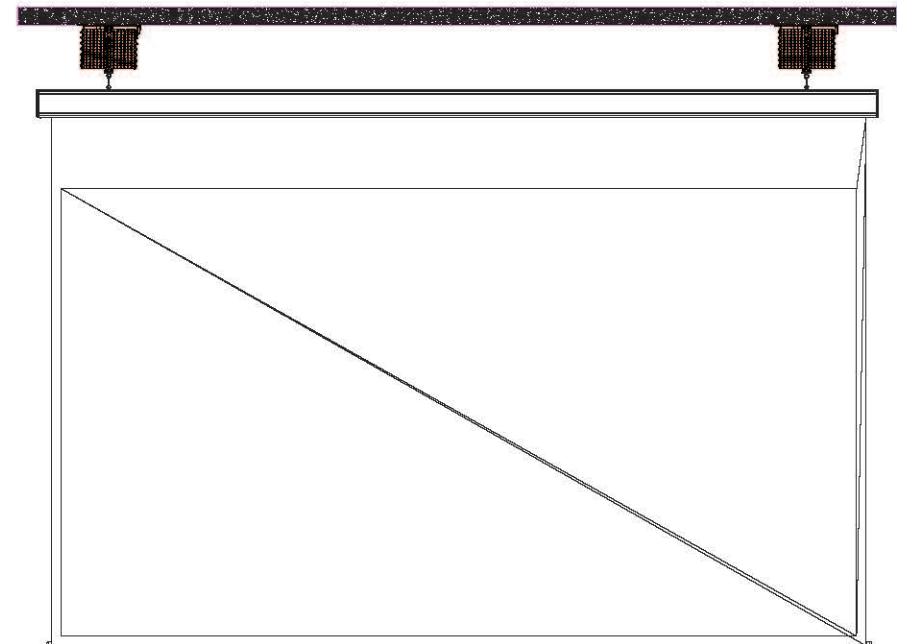
According to the bit code, as shown in Figure 6-3, the "1.2.3" keys on the bit code are all dialed to "0" for the host, which can be learned by remote control.

Group code setting:

The group code of the two Iron Hand must be the same, as shown in Figure 6-1, the "1" button is in the "0" position, and the other "2", "3" and "4" buttons are marked in the "1" position

it code setting:

Before setting the bit code, it must be reset to zero (as shown in Figure 6-2). Just put the "1" button in the "1" position (as shown in Figure 6-3), two Iron Hand can be used synchronously.



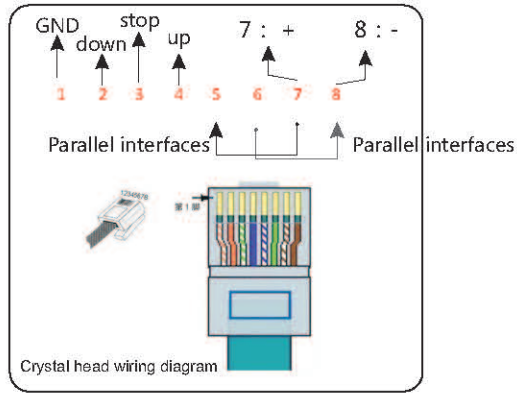
GSAT-6506 synchronous use of hanging screen schematic



The product group code and bit code have been set at the time of shipment, and we strongly recommend that customers do not adjust it themselves.
When installing, the lifting point installation site must be 4 times the weight of the load-bearing mechanical arm plus the hanging object; and the external ground wire should be connected.

RS 485 communication port:

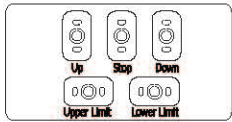
- ①. Connect to the computer central control, the two interfaces are parallel interfaces.
- ②. The two ports A and B are parallel interfaces, of which 5 feet are the same as 7 feet; 6 feet are the same as 8 feet.



Group code : When using Rs485 control ,the same group code is used for the lift of the same group control group

Bit code : Different lifts in the same group code are controlled by bit code

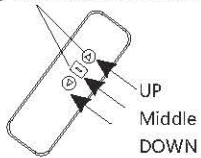
Device learning control:



Press and hold the up button for 5 seconds to enter the reset state. At this time, the device needs to touch the upper limit switch to stop.

Press and hold the stop button for 3 seconds, the transmitter enters the learning state, and the transmitter presses the middle button and the up button to learn; long press the middle button and the up button for 6 seconds to clear the transmitter.

Long press the two buttons to enter the learning state



This lift is fitted with 2 limits and can be set by the physical button. The limits automatically stop the lift in the fully UP (UP limit) and fully down (Down limit) positions. You can adjust the limit to set the travelling distance to the required positions.

UP limit Setting:

To Set the limit: Long press UP limit setting button, when the buzzer responds in two short blasts of sound, then UP Limit is set.

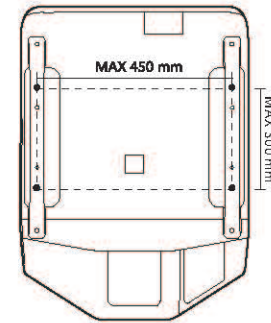
To Delete the limit: Long press UP limit setting button, when the buzzer responds in four short blasts of sound, then limit is deleted.

DOWN limit Setting :

To Set the limit: Long press DOWN limit setting button, when the buzzer responds in two short blasts of sound, then Limit is set.

To Delete the limit: Long press DOWN limit setting button, when the buzzer responds in four short blasts of sound, then limit is deleted.

Electronic positioning:



Screw hole distance diagram

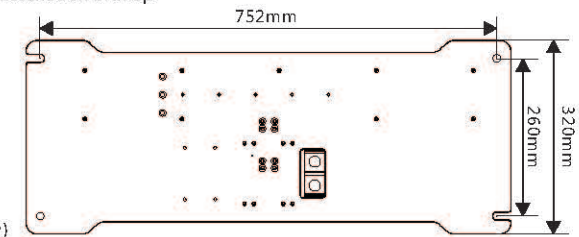
Plus MA090 hanger extended connecting rod, can hang the screw hole distance not more than 300x450, the weight does not exceed 120KG projector

(If you need a larger hole distance and heavier engineering machine, you can order it)

Add O-rings to hang the following items: large stage screen, trusses, etc.

Model specifications GSAT series X type Iron Hand:

- 1 Power supply parameter
- 2 Screw mounting size
- 3 Screw hanger size: see installation bitmap



(Series top view)

Installation steps

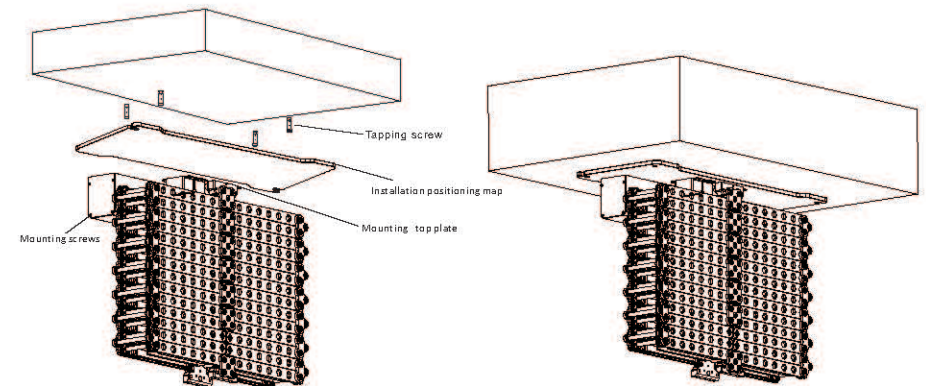
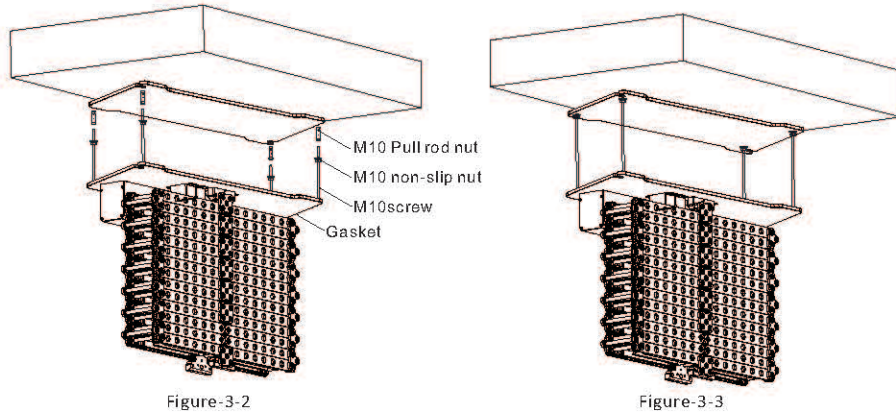


Figure-3

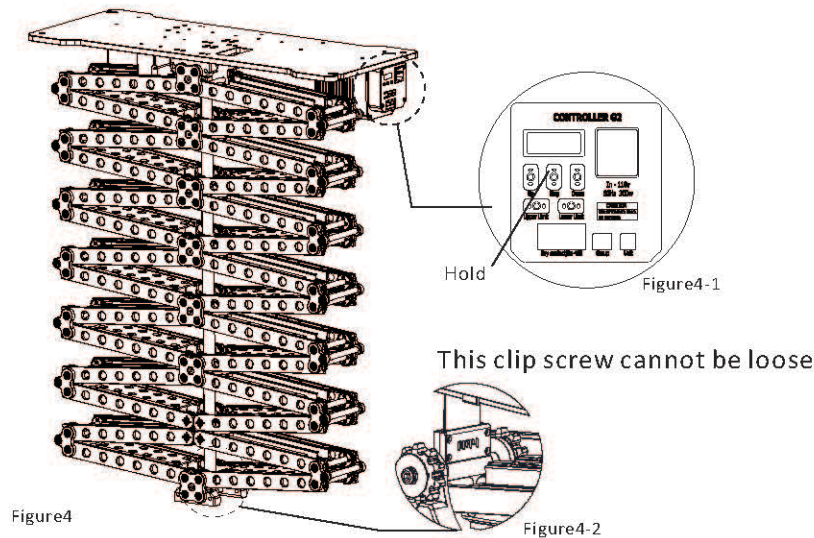
Figure-3-1

Purchase screw diagram



As shown in Figure 3, the Iron Hand is mounted. The installation positioning map is torn along the edge of the self-adhesive protective film, according to the positioning diagram indicating the correct direction, directly attached to the ceiling installation position, the mounting top plate hole on the Iron Hand hanger is aligned with the positioning hole, and fastened with screws. The installation is complete (Figure 3-1). If you add screws, tighten the screws with nuts and synchronize the rest of the installation steps. (Figure 3-2)

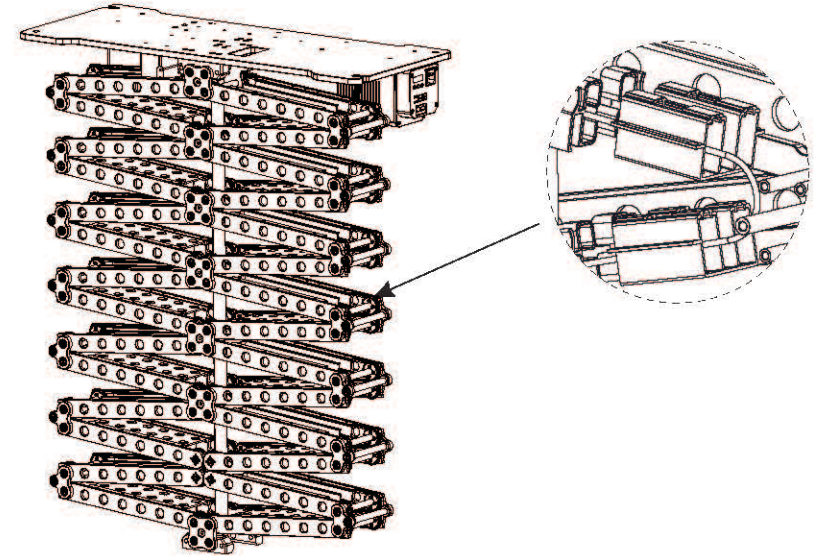
Control operation of the Iron Hand hanger



⚠ Please be sure to touch the upper limit switch to stop the projector hanger from rising!

If it is necessary to adjust the operation of the product machine due to the installation environment or the limitations of the site, it must be adjusted by a special technician. The nut can be adjusted by adjusting the tightness of the nut by adjusting the nut in the chain of the iron hand hanger. The upper and lower settings of the hanger are shown in Figure 4-1. In addition, the position of the strap shown in Figure 4-2 is clipped, please do not twist the screws. Otherwise, it is easy to cause the strap to be loose and dangerous.

Power line trend diagram



* Please note that the power cord must be worn through the cable trough. Do not insert the power cord into the arm connecting shaft to prevent the power cord from being damaged when the Iron hand is operated!
* The product has been adjusted to the best position for the recovery and unfolding height. We do not recommend the customer to adjust it to avoid damage caused by improper adjustment!

Electrical and product instructions

Control panel description (Figure 5, Figure 5-1)

Movement time: the running time of the current position of the hanger

- ▼ DOWN: the hanger is lowered
- STOP: the hanger stops
- ▲ UP: the hanger rises
- ⏏ Jog DOWN: The hanger moves down
- ⏏ Jog UP: the hanger moves up

Communication port: dry contact interface
RS485:RS485 interface

☐ FUCe : F6.3A 250V

Power input interface

- Lower limit setting
- Upper limit setting

Group code: When using RS485 control, the same group code is used for the hanger of the same group control group.

Bit code: non-stop hangers in the same group code are distinguished by bit code

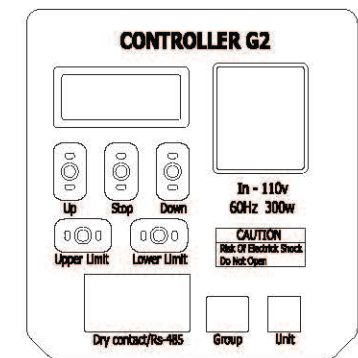


Figure 5