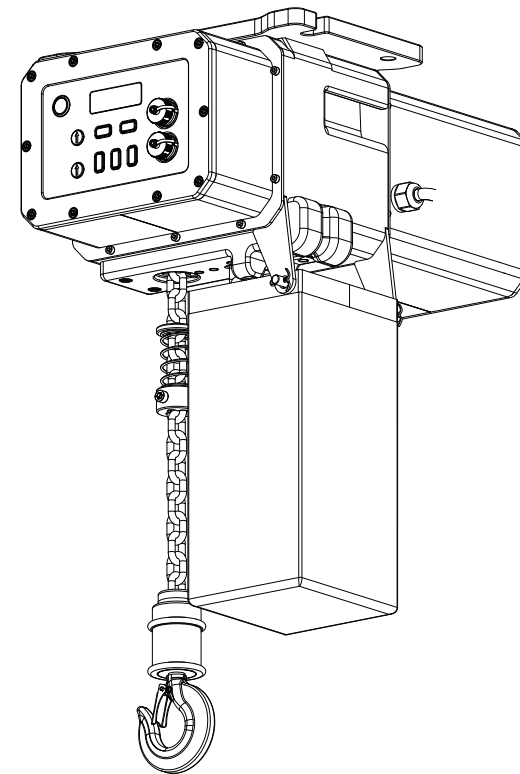


Grandview

Electrical Chain-type Constant Speed Commercial Rigging System Instruction Manual

Model: GCRT-5012

Grandview



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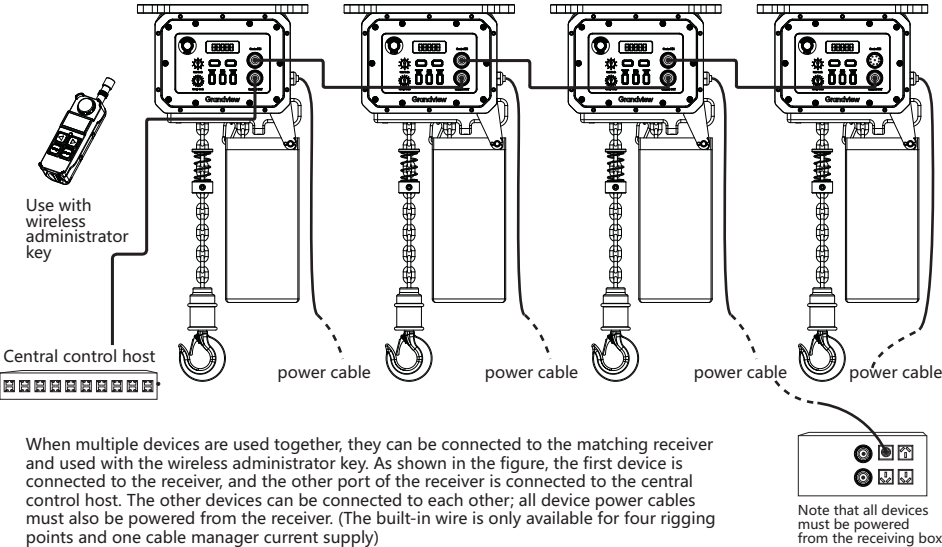


Troubleshooting detection

Code and meaning value	
Code	Meaning Value
5 6 9 7	Upper Limit Setting
5 6 9 8	Lower Limit Setting
6 6 6 6	Host Setting
Troubleshooting detection	
Defects	Solution
Temporarily stop and tip during multiple lifter applied	Reset
Temporarily stop during lifting, 485 transmitting interference	Restart power
Starting with delay or stop	Send 2 code in the same time
System Error	Restart power
Rigging system retract with chain stuck	Check if there is damage at the lining hole and polish it with file gently.
During the downward running of the equipment, if you find the stop situatio.	please check whether the chain is knotted. Ifso, please straighten out the chain.

Multiple device wiring

Multiple rigging points combined emergency braking and multiple control diagram



RS 485 Bit code dial value

Bit code			Code value
The first one	Second	The third	Hexadecimal
OFF	OFF	OFF	00
ON	OFF	OFF	01
OFF	ON	OFF	02
ON	ON	OFF	03
OFF	OFF	ON	04
ON	OFF	ON	05
OFF	ON	ON	06
ON	ON	ON	07

Example

Code table






Bit code	Group code	0000	0001	0010
000	UP	F6 00 00 07 FD	F6 01 00 07 FE	
	STOP	F6 00 00 09 FF	F6 01 00 09 00	
	DOWN	F6 00 00 08 FE	F6 01 00 08 FF	
001	UP	F6 00 01 07 FE	F6 01 01 07 FF	
	STOP	F6 00 01 09 00	F6 01 01 09 01	
	DOWN	F6 00 01 08 FF	F6 01 01 08 00	
010	UP	F6 00 02 07 FF	F6 01 02 07 00	
	STOP	F6 00 02 09 01	F6 01 02 09 02	
	DOWN	F6 00 02 08 00	F6 01 02 08 01	
011	UP	F6 00 03 07 00	F6 01 03 07 01	
	STOP	F6 00 03 09 02	F6 01 03 09 03	
	DOWN	F6 00 03 08 01	F6 01 03 08 02	

If the user still does not know the dialing method, you can download the encoding software on the official website or contact the sales agent to obtain the encoding software.

Precautions

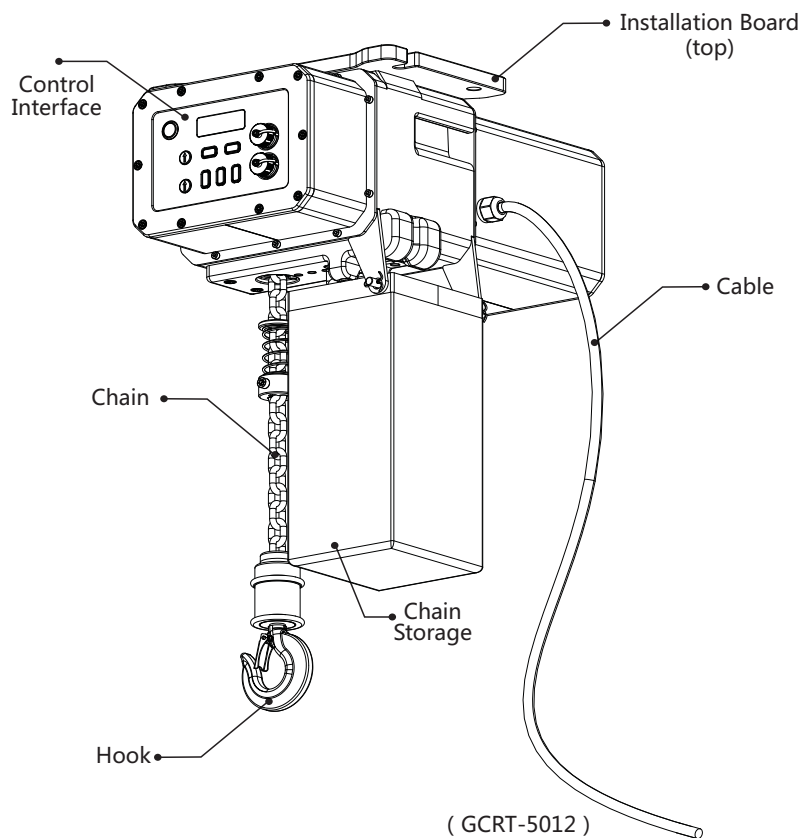
1. The installation position should have sufficient mechanical strength. The load-bearing requirement is 4 times the weight of the lifting point and the weight of the stage equipment to prevent the equipment from falling off.
2. When installing the device, make sure that each screw is tightened to prevent the device from loosening and affecting the safety of use.
3. Please pay attention to the protection and maintenance of the lifting points, check regularly:
 - ①. If there are stains, please wipe with a soft cloth
 - ②. When removing dust, wipe it gently with a soft brush
 - ③. Regularly check the screws for signs of looseness
 - ④. Chains are worn out goodsNeed regular and appropriate maintenance with anti-rust oil
4. In order to avoid unnecessary injury, it is recommended that the management and installation of the equipment be operated and maintained by professionals.
5. Do not pull the device by hand during use to avoid damage to the device.
6. Do not install the product in a location that is wet or likely to splash
7. Only connect the power plug with the grounding wire. If the accessory is damaged, please contact the supplier or the after-sales personnel.
8. Please use the approved power cord (3-core power cord) / device interface / plug, the grounding plug should be It complies with the applicable safety regulations of the country.
9. When installing the rigging point, configure an easy-to-use power-off device in the fixed wiring, or connect the power plug to an electrical outlet that must be close to the device and easy to use. If a malfunction occurs while operating the device, you can turn off the power to the power-off device to disconnect the device or disconnect the power plug.
10. Keep away from heat or moisture.
11. As long as the plug of the rigging point is also connected to the power supply, the unit is not disconnected from the AC power supply.
12. Unplug the power cord when you are experiencing lightning or thunderstorms or when not in use for a long time.

It is forbidden to stand under the equipment during the lifting process, beware of accidents. If the screw is found to be loose, please contact the after-sales personnel or the user to replace the screw. If the user ignores the warning, the user should solve the problem. This instruction manual is subject to change without prior notice. Please contact your sales representative.

 Caution	The user must periodically check if the device screws are loose.	 Force	When using, you must have professional personnel to operate on site. Beware of emergency stoppage when equipment is faulty.
 Pay attention to children's touch	After the rigging point is completely lowered, the bottom of the rigging point should be no less than 1.8 meters from the ground to prevent children from touching.	 Disassemble Prohibited	Do not disassemble the rigging points or loosen the rigging point screws. If repairing or correcting, please contact our company or sales agent.
 Warning	When two devices or more are used at the same time, the sum of the weights of the two devices must not exceed		

Note: Users are not allowed to disassemble and replace parts at will. If there is any fault, Must contact the after-sales service department for repair; the functional structure is subject to change without prior notice. Subject to the product!

Diagram



Standard Accessories

- 6 Inches Cushion x1 ■ nine pin Socket x2 ■ Chain(with Mounting Rod) x1 ■ Chain recovery bag x1
- Qualified Certificate x1 ■ Cotter pin x1
- Manual x1

Optional Accessories

- Wall Switch
- Wireless Administrator Controller
- Receiver (Match with Wireless Administrator Controller)

Group Code & Bit Code

Group Code & Bit Code

When connect via RS485, Group code and bit code must be nonzero.

Group Code Range(1-15); Bit Code range(1-9).

When the other equipment connect to same Rigging hoist, make it into same Group, but must have a different Bit Code.

When the other equipment install in the same room, please try to make it into same Group.

Rs485 Protocol
Serial Port—Baud Rate(9600),8 Bits Data,
1 Stop, No Parity Checking.
Protocol Format: Hexadecimal
Packet Header(F6),Group Code, Bit Code,
Command Code, Parity Checking
(Single Byte)
Parity Checking=Packet Header + Group
Code +Bit Code+ Command Code

Common command Code	07	Hoist Up
	08	Hoist Down
	09	Hoist Stop

RS485Group Code(Dial Code setup)

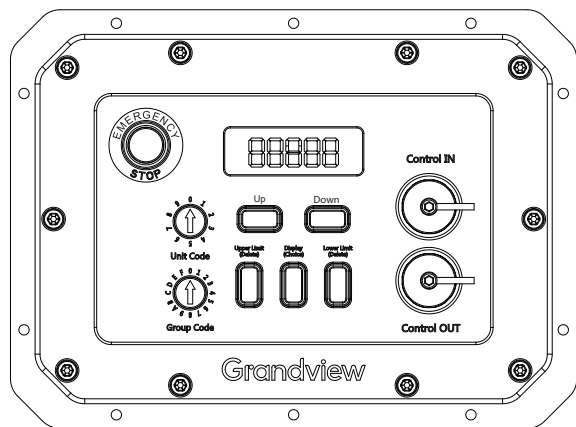
Group Code				Dial Code
1ST Group	2nd Group	3rd Group	4th Group	Hexadecimal
OFF	OFF	OFF	OFF	00
ON	OFF	OFF	OFF	01
OFF	ON	OFF	OFF	02
ON	ON	OFF	OFF	03
OFF	OFF	ON	OFF	04
ON	OFF	ON	OFF	05
OFF	ON	ON	OFF	06
ON	ON	ON	OFF	07
OFF	OFF	OFF	ON	08
ON	OFF	OFF	ON	09
OFF	ON	OFF	ON	0a
ON	ON	OFF	ON	0b
OFF	OFF	ON	ON	0c
ON	OFF	ON	ON	0d
OFF	ON	ON	ON	0e
ON	ON	ON	ON	0f

When Group code and bit code done, please setup command code with above encode table.

Baud Rate(9600),Hexadecimal Dial Code.

Key Group Control Code(0000 000), so the Rigging Hoist Group Code and Bit code must be out of this range.

Control Interface



(GCRT-5012)



Emergency Stop Button
Button down - the equipment is in debugging and normal use
Button Release - the device is in a prohibited state



Unit Code Button



Group Code Button



Upper limit setting Button:
Long press 3 second, you will hear 3 ticking from the hoist, then start setup upper limit. Press up and down button to setup the height you want. When in the height of target, press 4 -5 second, you will hear 4 ticking from the hoist, then upper limit done.



Reset Button
Long press to reset.
Press in turn(Display Distance, Speed, Current Values, Frequency)



Lower limit setting Button:
Long press 3 second, you will hear 3 ticking from the hoist, then start setup lower limit. Press up and down button to setup the height you want. When in the height of target, press 4 -5 second, you will hear 4 ticking from the hoist, then lower limit done.



Up, Down Long Press
Down

Control IN



1- 3B(CAN)
2- 5A(CAN)
3- 12V
4- 12V
5- 3B(485)
6- 5A(485)
7- GND
8- UP
9- DOWN

Parallel Connection

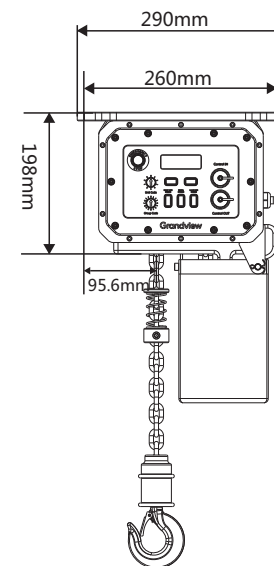


port 5: Negative
port 6: Positive

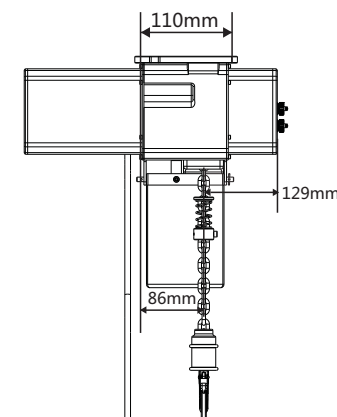
port 6: Positive port 5: Negative

Specification

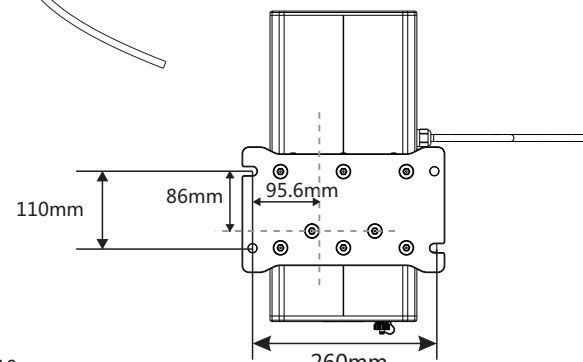
GCRT - 5012 :



Front View



Side View



Top View

GCRT-5012 :

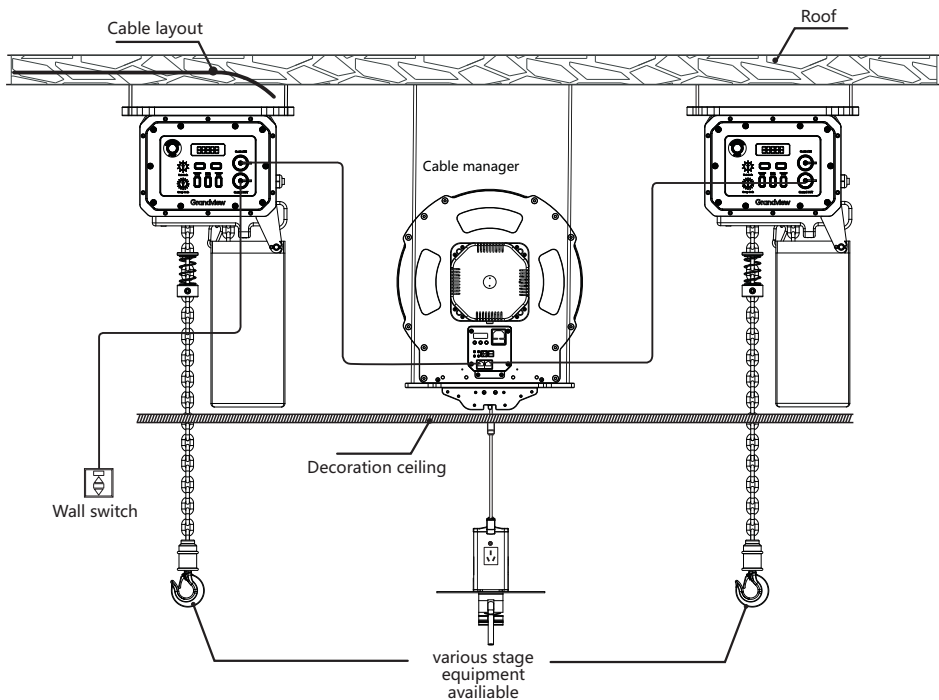
Item: Commercial Rigging System
(Constant Speed Control)
Code: GCRT – 5012
Size: W444 x D290 x H198mm
Installation Bolt Hole Size: 260mm x 110mm
Ceiling open size: φ205mm
Loading capacity: 500 Kgs
Max dropping distance: 12 Meter
Input Voltage: 220V/50Hz
Power rating: 500W
Lifting Speed: 3.5Meter/ Minute
Control: RS-485/Dry Contact/ Wireless Control/ Wall Switch

Installation instruction

Installation instruction

This product should be installed in the best projection position, it would be more convenient and more safe when the product being installed correctly, firstly, open the package and check if there is any missing parts, then take out all the parts and start the installation as per the instructions below, to make sure the product operates more safe and more convenient, pls read through the whole instruction carefully and choose the appropriate installation way based on the actual installation environment:

*Power for rigging system is 400W, for cable manager is 80W, pls notice this when connecting the cables.
 *Installation can be arranged in the end of decoration, the decorative light circle of the bag can well cover the hole of smallpox, keep the appearance clean, and do not need a second decoration after installation.
 *After use, loosen the adjustable mechanical upper limit block screw to the minimum before recycling the chain.

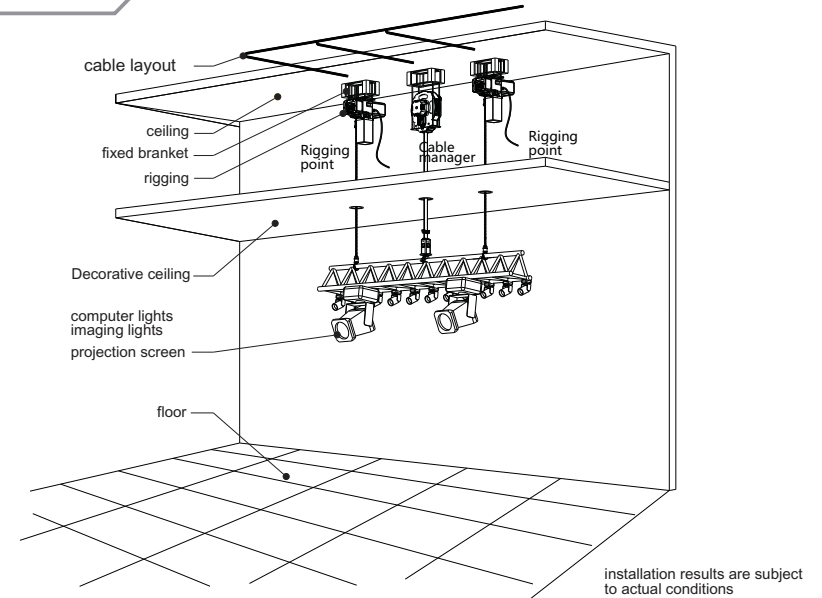


Recessed ceiling motorized lifts installation Diagram, pls notice that GSPC 12 is not a bearing products;

Notice:

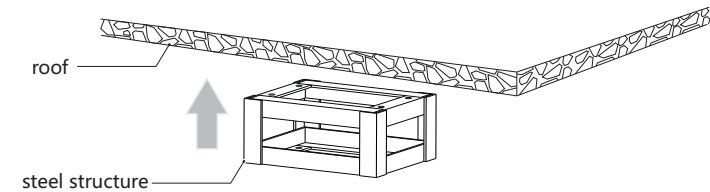
- 1、End user can choose any port to connect the wall switch or central control;
- 2、hangers must keep straight;
- 3、When returning the chain, pls make sure all the stage equipments have been disassembled to avoid it hit the ceiling;

Installation effect

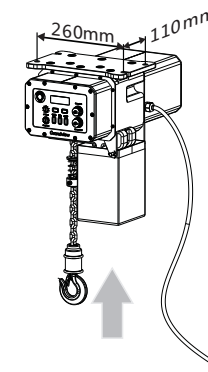


Installation instruction

- 1、Confirm the product installation position, install the steel structure into the concrete base, use screws to stabilize the steel structure;



- 2、Use screws or rods to match the holes on the steel structure and tight it on the product;



- 3、Opening hole on the ceiling, hole dimensions: 205mm;

