



GA-PT20E/GA-PT30E/GA-PT40E/GA-PT50E

Electric Constant Force Precision Positioning Hinge

Ver:A

USER MANUAL

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Thank you for choosing SWIT products ,please read the instructions before using and keep it for future reference.

Technical Specifications

Model	GA-PT20E	GA-PT30E	GA-PT40E	GA-PT50E
Input Power	AC 220V/50Hz 3-pin power plug (one input, one output)			
Operating Mode	DMX512 signal control			
Stretching Speed	10cm/s			
Stretching Length	0.5m~2m	0.6m~3m	0.7m~4m	0.8m~5m
Motor Power	Lifting motor power 60W			
Motor Drive Voltage	DC 24V			
Service Life	10000 Lifts			
Load Range	2~30kg			
Hinge Weight	7.5KG	8.5KG	10KG	12KG
Dimensions (mm)	320 x 150 x 495	320 x 150 x 585	320 x 150 x 675	320 x 150 x 765

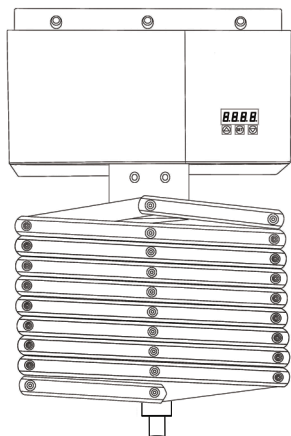


Diagram 1 Front view

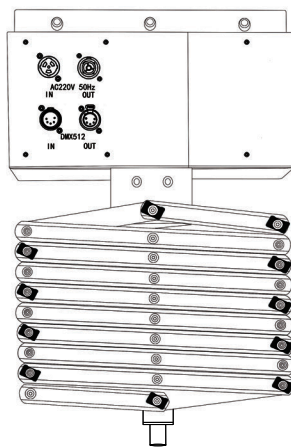


Diagram 2 Back view

Important Notes

1. Do not disassemble this product casually to avoid damage;
2. Do not use this product outdoors in rainy or snowy weather or place it in a damp environment;
3. During installation, ensure that the hinge is completely tightened. After confirming that all screws or accessories on the hinge are secure, install the lamp correctly at the lower end of the hinge;
4. When using DMX control for the hinge, there must be a load at the lower end of the hinge to prevent damage to the motor.

Appearance

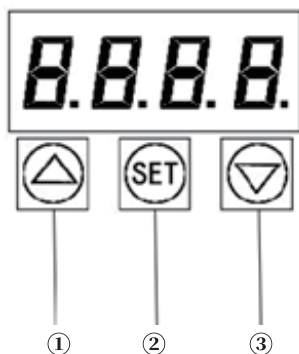


Diagram 3 Front view

- ① Up button
- ② Function button
- ③ Down button
- ④ Power Input

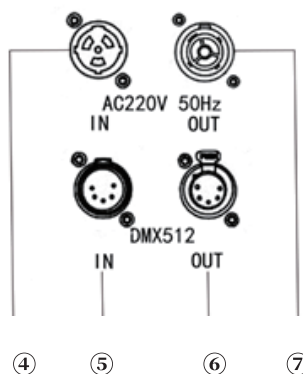


Diagram 4 Back view

- ⑤ DMX Signal Input
- ⑥ DMX Signal Output
- ⑦ Power output

Installation Steps

1. Secure the Electric Hinge (Installation Method — Hanging with Lamp Hook)

Connect the thread mouth at the top of the electric hinge with the lamp hook (the top connection can be disassembled to connect the lamp hook). Fix the lamp hook and lamp grille to secure the top of the electric constant force hinge extender outside the track to complete the suspension.

Note: Keep the hinge naturally vertical during installation



Diagram 5 Hook installation

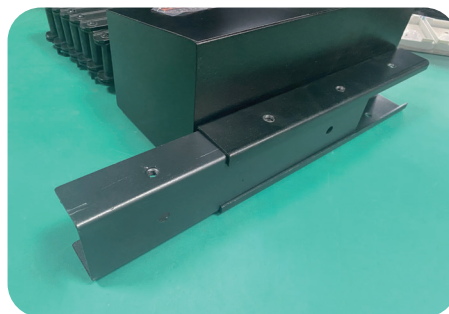


Diagram 6 Connection point

2. Connect the Electric Hinge to the Luminaire

Install the luminaire correctly at the lower end of the hinge, and the lower end of the electric hinge is equipped with a tube-type interface.

- 1) If the luminaire is mounted with a U-shaped bracket, fix one end of the lamp handle screw with a nut on the luminaire's U-shaped bracket. Use a connecting screw to secure the other end to the tube-type interface;
- 2) If the luminaire is mounted with a rod-controlled lamp bow, directly use a connecting screw to fix the top to the tube-type interface.



Diagram 7 U-shaped Bracket Connection



Diagram 8 Rod-controlled Lamp Bow Connection

3.Cable fixing

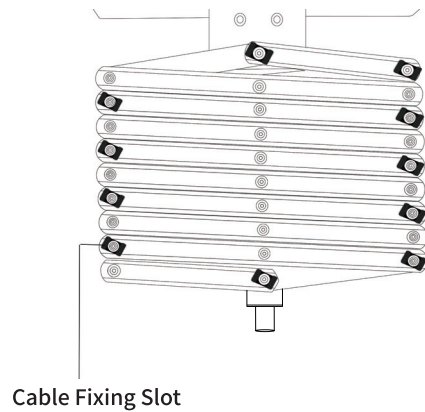


Diagram 9 Cable fixing slot

Secure the luminaire power cord correctly in the cable fixing groove behind the hinge and fasten it with zip ties.

4. Connect the power supply and DMX signal line of the hinge to control the height adjustment of the luminaire

Instructions for using:

The front panel of the electric hinge is equipped with DMX address code settings:

1. Press the "SET" button for 3 seconds to enter the address code setting. Use the increase/decrease keys to adjust the address, then press the "SET" button to save;
 2. Press the "SET" button for 6 seconds to enter the protection limit setting interface. Press the "SET" button to switch, sequentially entering: 1H lifting motor descent value, 1U lifting motor ascent value. Use the increase/decrease keys to adjust and press the "SET" button to save.
- Users can set the address code as needed. After setting, the hinge can be controlled for up and down stretching through the DMX512 lighting console, achieving precise positioning of the luminaire.

Packing List

No.	Packing Details	Quantity
1	Electric Hinge Extender	x 1
2	AC Power Plugs(pair)	x 1
3	DMX Plugs(pair)	x 1
4	Screws	x 1
5	Lamp Handle	x 1
6	Plugs	x 1
7	Zip Ties	Several