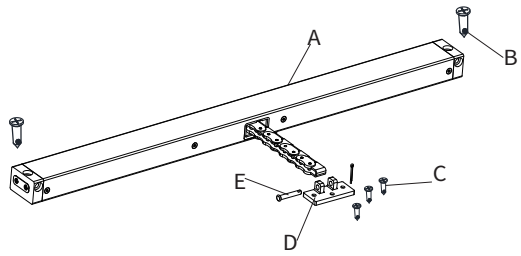
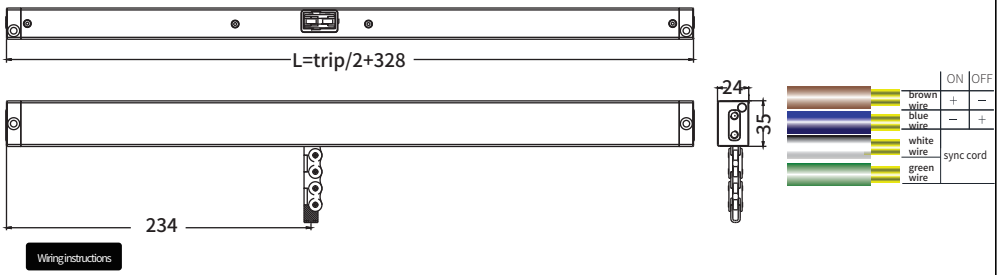
1. Packing list and assembly drawing

Packing materials		
ITEM	**NAME**	**QTY**
A	Electric chain window opener	1
B	Cross-head round screw	2
C	Cross-head countersunk	3
D	drill self-tapping drill tail Chain fixing plate	1
E	The pin shaft is equipped with a latch	1

Assembly drawing



2. The appearance and connection of window opener



Wiring instructions

1.When installing and debugging, do not connect the synchronous wire at first. After the motor is installed, close the window once to test that the window opening and closing are normal before connecting the synchronous wire. After resetting, you need to close the window once to remember the starting point of the journey. The synchronous motor can be connected to a maximum of 8 synchronous units. After pairing, if you need to use it as a single machine, you need to reset it. The reset method is as follows: After powering on for 5 seconds, press the start and stop button three times repeatedly (with an interval of 1 second each time). Press the "Off" button twice again (with a 1-second interval between each time), and finally press the "Off" button. Wait for 5 seconds.

2.The motor will automatically stop when it shakes once and reset successfully. If the window opening is still running and the reset is not successful, it needs to be reset again.

3.When installing this product, after two or more units are connected to the synchronous cable, they will automatically pair. Once paired, they cannot operate independently.

3. Specifications, Models and Parameters

Specification parameters	Unit	**Technical Data**
		C24HD- DC24V
Thrust/Pull	N	300
Maximum operating current	A	1.0
Travel distance	mm	100~700
Boost speed	mm/sec	~10
Working voltage	V	DC24V±10%
Ambient temperature	℃	-20~+75
Protection grade	IP	32

1.It is used for various window types such as skylights;
2. Built-in installation, hidden within the window frame, with an attractive appearance;
3. The stroke, push-pull force and surface color can be customized according to the customer's requirements.
4. The window opener is equipped with an internal electronic device, which is controlled by a microcomputer chip (MCU) and has the function of overload protection when encountering obstacles.

4. Installation steps

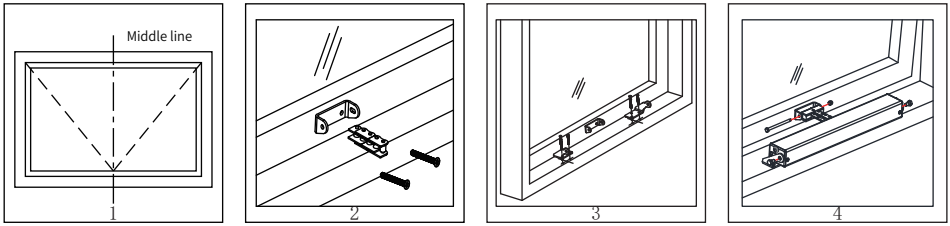
Determine the center line of the window sash, as shown in Figure 1;

First, align the center line of the window opening sash with that of the chain fixing frame, and keep the direction of the long hole of the chain fixing frame consistent with the inner side of the chain.

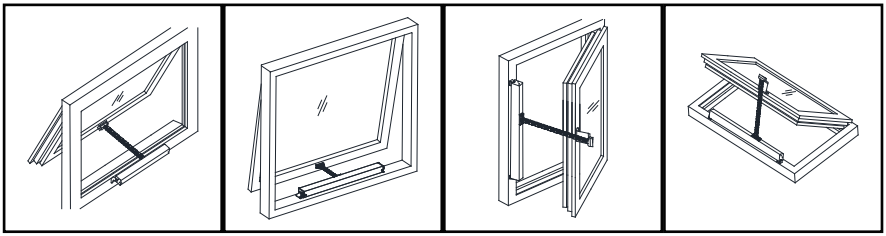
Also, take into account the closed state of the window when the chain is retracted into the window opener. Then, fix it with two ϕ5*25mm round head self-tapping screws, as shown in Figure 2.

Determine the position of the installation bracket based on the position of the chain fixing frame. The chain and the window opener should be kept vertical. Each installation bracket should be fixed with three ϕ5*25mm round head self-tapping screws respectively, as shown in Figure 3.

Place the window opener between the two installation brackets and fix each end with a hexagonal screw. Then place the front end fixing block of the chain into the middle of the chain fixing frame, insert the pin of the chain fixing frame, and then lock the nuts at both ends, as shown in Figure 4.



5. Installation form



6. Installation Precautions

Before installing the window opener, it can be powered on and run for one round trip to check if the window opener is in good condition before installation
Before installation, check whether the opening stroke of the window is greater than that of the window opener and whether the window opening is normal.
When installing the chain fixing frame, the direction of the long hole should be consistent with the inner side of the chain.
The chain must not come into contact with the window frame and should maintain a distance of more than 3mm.
Before the window opener starts working, the power supply of the controller should be disconnected to prevent the risk of electric shock.
When the window opener is in operation, do not place your hand between the window frame and the window sash to prevent the risk of hand pinching.
The installation of the window opener must be carried out and the wiring connected by professionally trained personnel, who must be familiar with the technical parameter standards and safety standards of the intelligent window control system.

7. Precautions for use and maintenance

When installing this product, installers must operate in accordance with national safety regulations to ensure operational safety.
This product must not be directly installed outdoors where it can be exposed to rain.
This product is not equipped with an anti-pinch function. Please pay attention to safety during installation or use.
The DC window opener requires a 24V DC power supply (if it is directly connected to a 220V AC power supply, the window opener will be damaged).
Customers who have purchased our company's products are requested to contact us in a timely manner for registration to obtain warranty service and after-sales repair service.
During the process of loading and unloading the window opener, make sure the window is safe to avoid accidents.
If the window opener is installed on a window at a height of more than 2.5 meters, a platform or bracket should be provided for the installers.
If the window opener fails or is damaged, please contact the after-sales service technical support. Do not use the window opener until it is repaired.
It is necessary to regularly check every year whether the wires are damaged and the fixation condition of fasteners such as installation brackets.