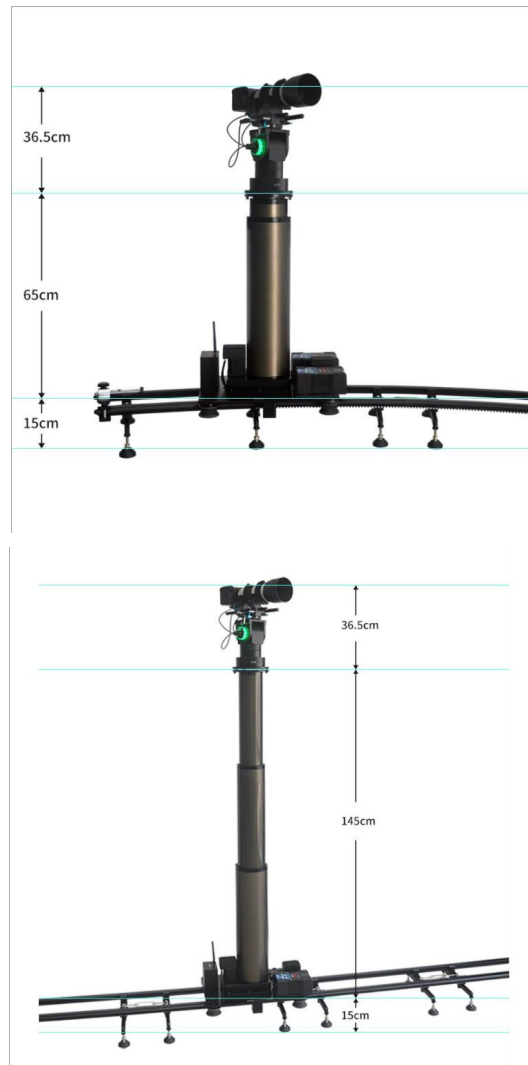


Installation steps for rail vehicles



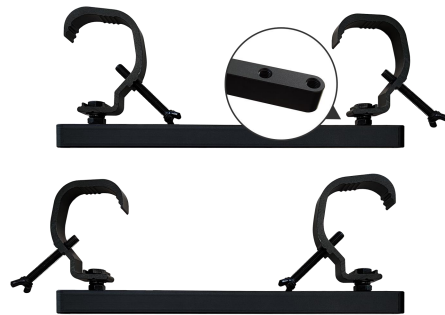
①	②	③	④	⑤	⑥
4	4	1	26	2	52
⑦	⑧	⑨	⑩	⑪	⑫
8	2	2	10	10	1
⑬	⑭	⑮	⑯	⑰	⑱
10	2	52	4	2	1

一、 The accessories required for ceiling installation are shown in the following figure

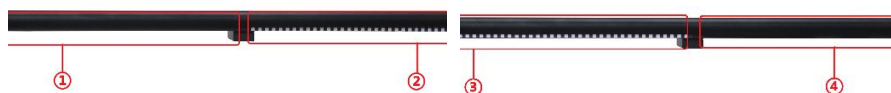


1. Install the suspension rods. Here, the position of the suspension rods must be precise and the height calculation of the suspension rods must be accurate;
2. Install the support brackets onto the tracks. Install three sets of support brackets on each track, as shown in ①;
3. Install it to the corresponding position according to the track installation number and connect it to the hoisting frame

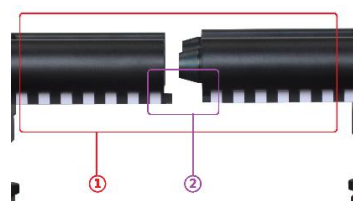
through the hoisting hook. Lock the two adjacent tracks with a puller and adjust the level of the tracks by regulating the hoisting hooks; (The hoisting hook is installed at the inner part of the support bracket, as shown in the following figure)



The induction stickers need to be fully black on the first and second halves of the two tracks at the beginning and end as shown in the following figure



The track shown in the above picture is the first section. ① is the all-black section with the sensor sticker, and ② is black and white alternating. The last section of the track is the opposite, with the all-black sensor sticker at the very back, as shown in Figures ③ and ④

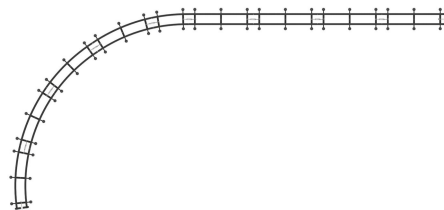


When pasting the sensor stickers, special attention should be paid. At the connection point ① of every two tracks, the sensor stickers must be black and white, and the distance error between black and white must not exceed 2mm.

As shown in the following figure, the effect drawing of the sensor sticker after the two tracks are connected:



The effect drawing after completion



4. Tighten the locking screws on the hoisting hook.

Please note: When installing the track, please install accessory No. ⑧ on the support bracket in advance, and install one at regular intervals. As shown in the following figure:



二、 Cable system installation



1、 As shown in the above picture, it is a cable system accessory
Connect with accessories numbered ②, ③, ④, ⑤, ⑨, ⑦ and ⑧

(1) First, connect the accessories No. ② and No. ③

(2) Use accessory No. ⑤ to connect accessory No. ② and No. ③ as shown in the figure (please pay attention to the installation position)



(3) Install accessory No. ④ on the opposite side of accessory No. ⑤ and insert it along the slot

(4) Slide accessory No. ⑨ into the installed silent slide rail. After all are installed, use accessory No. ⑦ to install

at both ends of the silent slide rail, as shown in the figure



(5) Install the installed silent slide rail into accessory No. ⑧ as shown in the figure



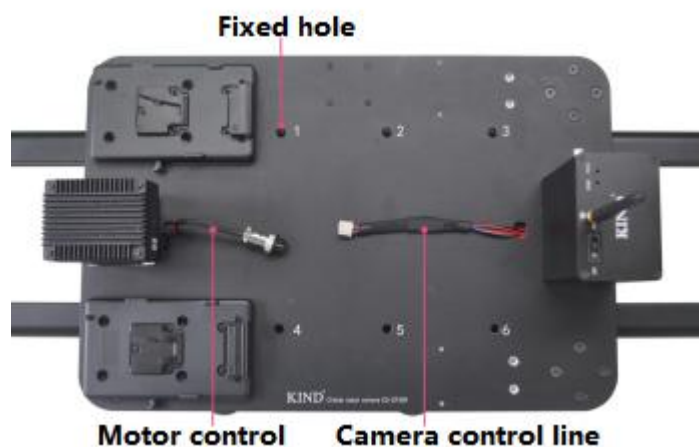
(6) Connect the cables using accessories No. ⑥ or ⑨ (Pay attention to the distance between the cables and the pulleys. After the track car starts moving, there should be a certain space distance left between the cables.)

三、Installation steps for the lifting cylinder and the vehicle body

As shown in the figure, it is the vehicle body fixing device. Install the fixing device at the bottom of the vehicle body (to prevent the vehicle body from accidentally falling, pay attention to the direction of the device, and in case of accidental drop, you can hook onto the track with this device).



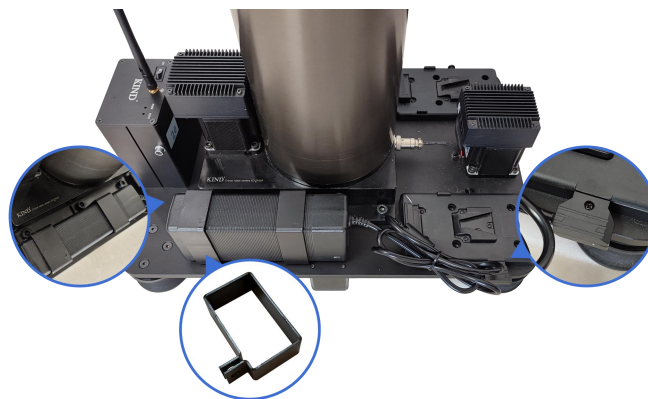
Gently place the lifting pole on the pulley wheel, align the six fixed holes with the corresponding holes on the vehicle, and tighten the six fixed screws.



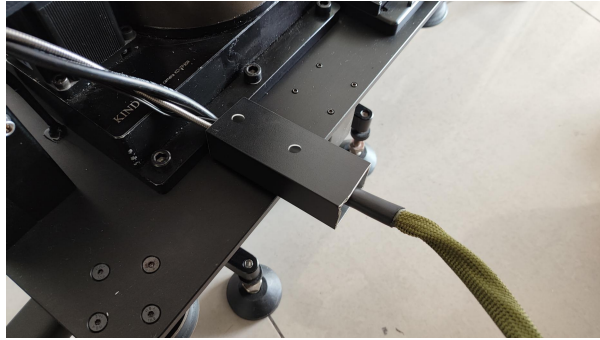
Plug IN the camera control line (the six-pin round port at the tail of the lifting pole), plug in the motor control line (the IN port of the lifting pole motor), and the installation is complete.



Fix the power adapter with a fixed bracket as shown in the following figure



Thread the video, control and power cord into the cable management box, and fix the cable management box to the rail vehicle body as shown in the following figure



四、 Installation steps for the lifting cylinder and the pan-tilt



The bottom contacts of the pan-tilt need to be connected to the contacts of the rail vehicle. Do not rub the contacts to avoid damaging the stylus. Use hand-tightened screws to fix the pan-tilt to the vehicle body.

五、The connection between the pan-tilt and the camera



①ON/OFF: Power switch

②RS232/RS485: Control interface, controlling the tilt, pitch and pitch of the pan-tilt

③ADDR: Control the camera address (0 is 1, 1 is 2, and so on)

④+12V Power supply: 12V power interface, supporting both forward and reverse power supply

⑤SDI: SDI Output signal interface

⑥HD4K: HD4K Output signal interface;

⑦Side view+12V: Be responsible for powering the camera (depending on the model);

⑧Side view HD4K: HD4K Signal input;

⑨Side view SDI: SDI Signal input;

⑩LANC:Control the camera Zoom;

⑪TALLY: TALLY light

Pan-tilt connection steps

1、The SDI output port of the camera is connected to the pan-tilt

⑦SDI input interface/the HD4K output interface of the

camera is connected to the pan-tilt ⑧HD4K input interface;

2、The LANC interface of the camera is connected to the LANC interface of the pan-tilt unit ⑩;

3、The +12V power interface of the pan-tilt ⑦ is connected to the DC power interface of the camera;

4、The 485 interface of the pan-tilt ② is connected to the 485 interface of the control equipment;

5、Connect the external power supply to the 12V power interface ④;

6、The SDI⑤ output interface is connected to an external display/the HD4K ⑥ output interface is connected to an external display;

六、Vehicle body installation steps

The vehicle body slides into the track from the starting point. Pay attention to the direction of the vehicle body (the sensors of the vehicle body and the sensor stickers are on the same side). The vehicle body traction motor is in front (towards the end point), and the controller is behind (towards the starting point)



The connection between the camera and the bracket

Attached video

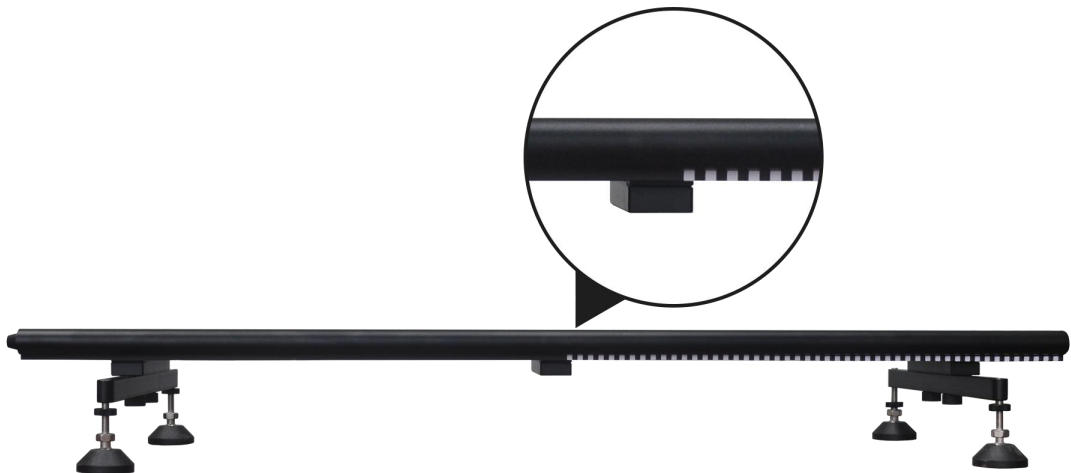
Installation of the focus following device

Attached video

七、 Connect the camera using the quick-release plate above the pan-tilt (as shown in the following figure)

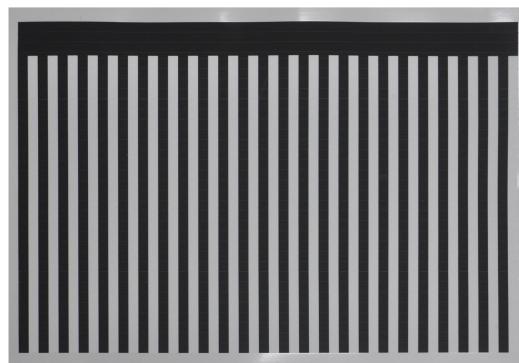
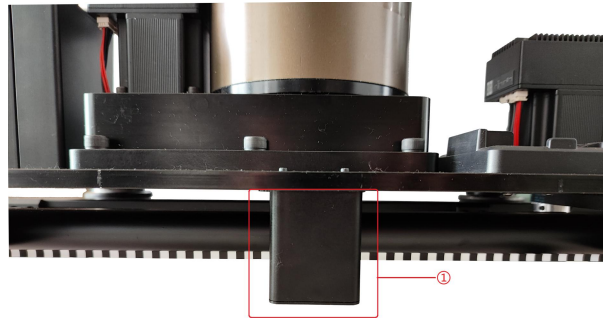


八、 Installation and use of flange plates :



Note: Stick the horizontal position sensor sticker (facing the shooting site). Pay attention to the direction and the interface. The first half of the first track is pasted with pure black stickers, while the rest are pasted with black and

white stickers. After the hoisting is completed, no one is allowed to stay on the ground of the rail vehicle to prevent the vehicle body from falling and injuring people due to other problems.



The picture above shows the sensor sticker. The sticker is pasted on the track on the side with the sensor, as shown in the following picture. The pattern of the sensor sticker at the junction of each track cannot be the same and needs to be black and white.