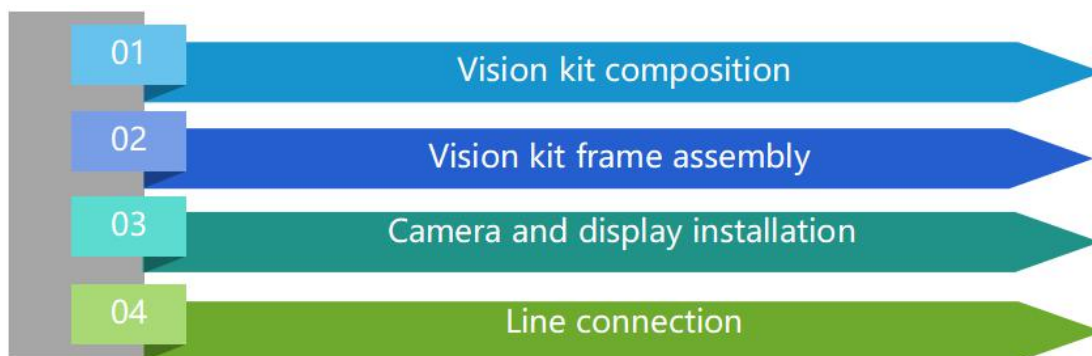


## Vision Set assembly instructions



### 1. Vision set composition

No.	Part Name	Qty
1	Vision Board	1
2	Column Connector	1
3	Column	1
4	Support Beam	1
5	Thumb Screw M6*10 (Shank diameter:25)	1
6	Socket head cap screws M4*8	5
7	Socket head cap screws M5*12	1
8	Black cable tie 3*80mm	4
9	Socket head cap screws M5*10	1
10	Socket head cap screws M4*10	8
11	Camera	1
12	LCD	1
13	Screen cable	1
14	USB	1
15	Camera serial line	1
16	Black cable tie 8*250mm	2





## 2. Installation steps

### STEP 1: Installing the column connector

(1) Take out the vision base plate and let the circular groove face up;

(2) Use hexagon socket screws M4\*8 to fix the column connector on the vision base plate

(NOTE: The direction of the screw holes on the side of the column connector)



### STEP2: Installing the column

(1) Insert the column into the column connector and fix it with M4\*8 hexagon socket screws

(NOTE: A section of the column with a side hole is facing down, and the direction is the same as that of the column connector)



### STEP3: Mounting bracket beam

(1) Fix the support beam on the column and adjust the appropriate height and angle (NOTE: The support beam has a groove surface facing the bottom plate and parallel to the center line of the bottom plate)

(2) Use thumbscrew M6\*10 to fix the bracket beam on the column



### STEP4: Installing Lcd and camera

- (1) Fix the camera on the bracket beam with hexagon socket screws M5\*12
- (2) Fix the LCD on the support beam with M5\*10 hexagon socket screws
- (3) Connect the camera and LCD with LCD cable



#### **STEP5: Installing the Mirobot**

Using the hexagon socket screw M4 \* 10 to install the Mirobot (Note: installation direction of the Mirobot)





## STEP6: Line Connection

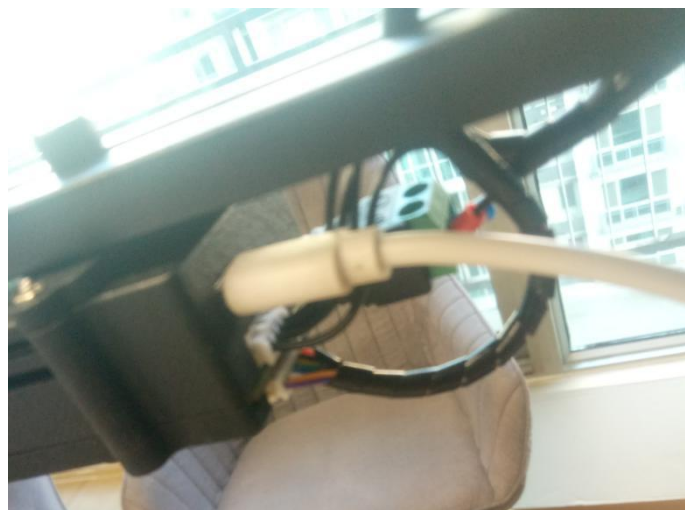
(1) Connecting the camera light source power cord



(2) Connecting the serial interface cable

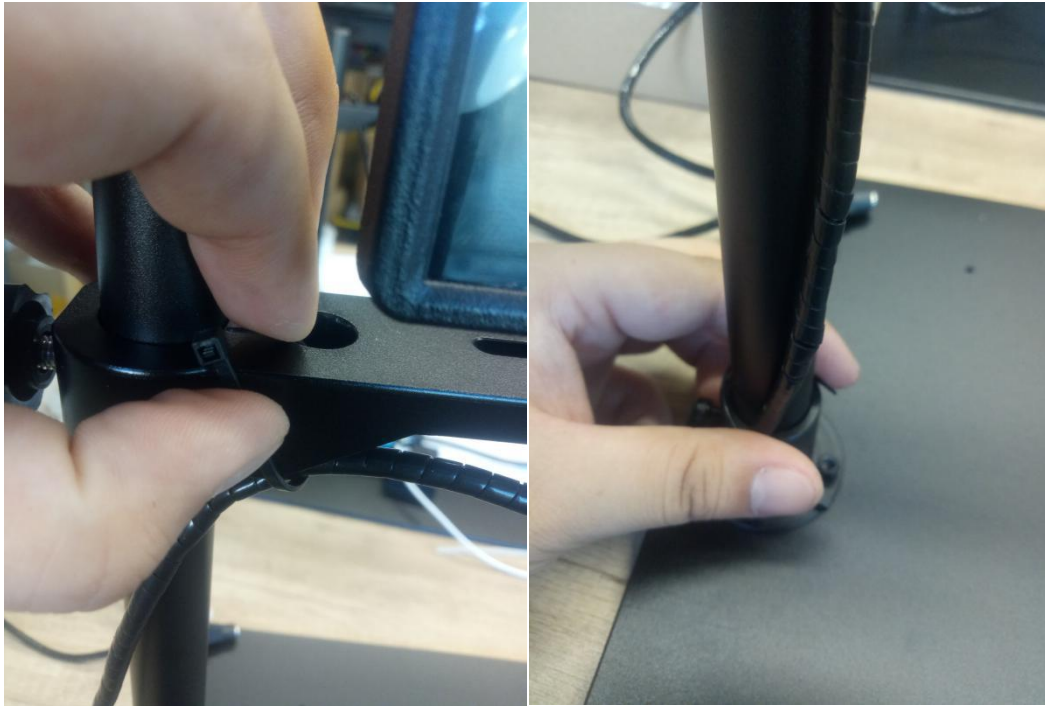


(3) Connecting the camera USB cable



(4) Fixed line

- 1) Using black cable tie (3\*80mm) to fix the camera serial cable to the bracket beam
- 2) Using black cable tie (8\*250mm) to fix the camera serial cable to the column



#### **STEP7: Connection with robotic arm**

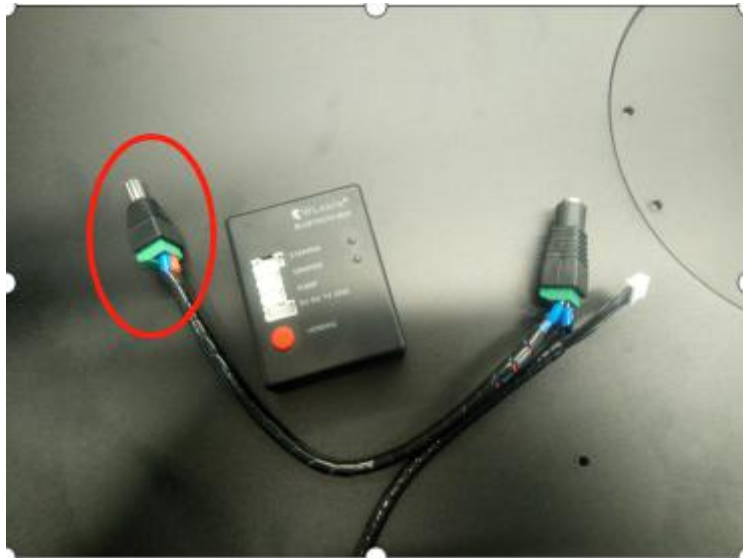
- (1) Using IDC cable to connect the Mirobot to the extension module marked "EXTENDER BOX"



- (2) Connecting the camera serial cable to the interface marked "5V RT TX GND" on the expansion module marked "EXTENDER BOX"



(3) Connecting the power interface at the other end of the camera serial cable to the robotic arm



(4) Connecting the power supply to the camera serial cable

