

Tip:

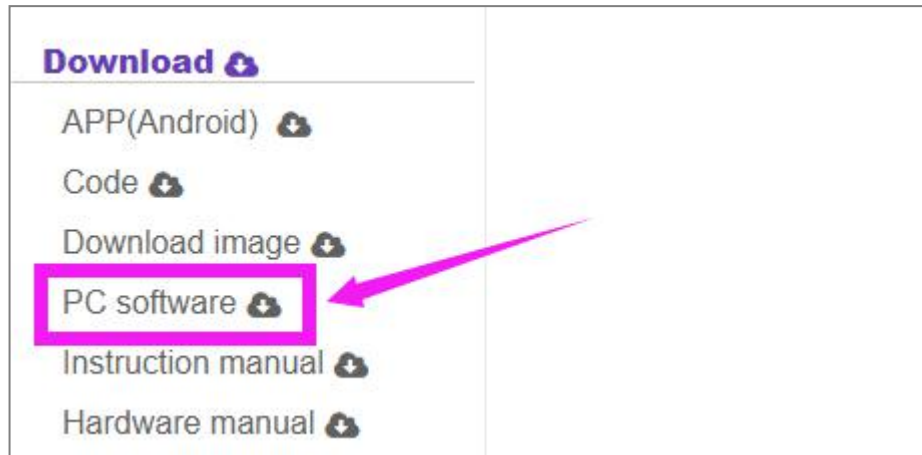
PC software remote control and APP remote control use the same program.

The image provided by us has enabled the process by default.

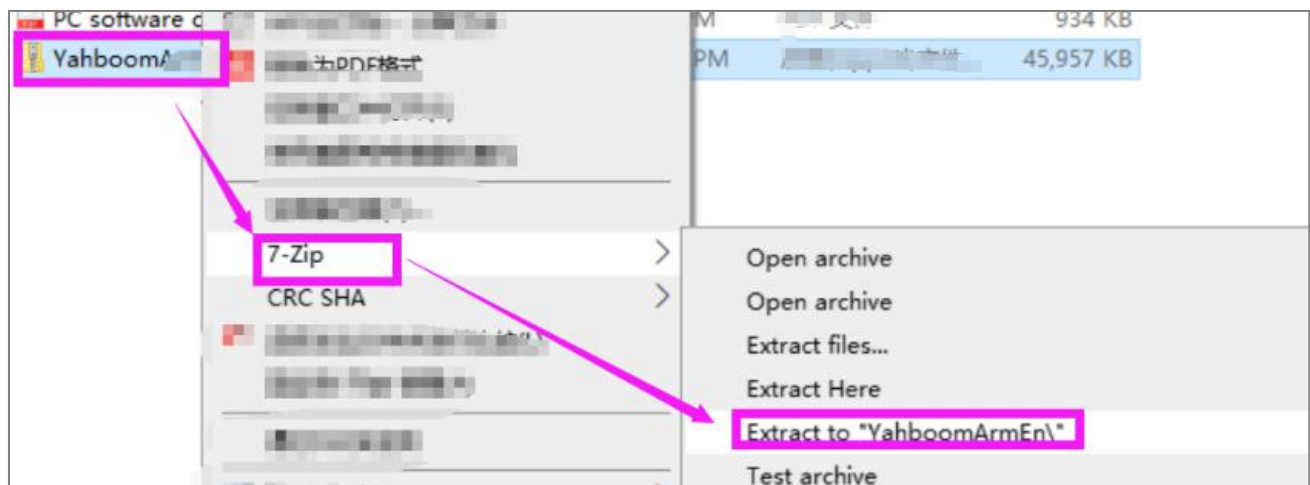
Username: **jetson** Password: **yahboom**

1. Install PC software

1.1 Download PC software from our website.



1.2 Extract ZIP file by 7z software or you can use others software.



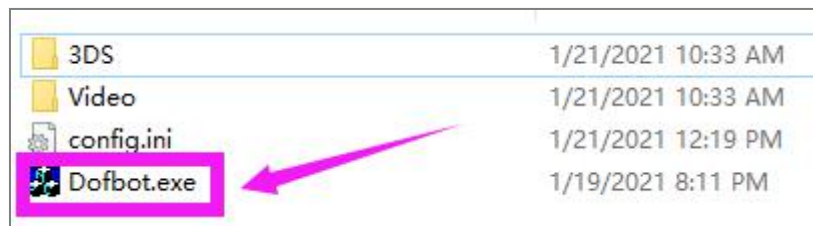
1.3 You will get a folder as shown below.

**2. Start up DOFBOT and connect PC software**

2.1 After turning on the power switch, wait patiently. When the robotic arm buzzes three times, it means that the system has been started.

2.2 Ensure your computer and robotic arm are under the same LAN.

2.3 Double-click the exe file to open the software.



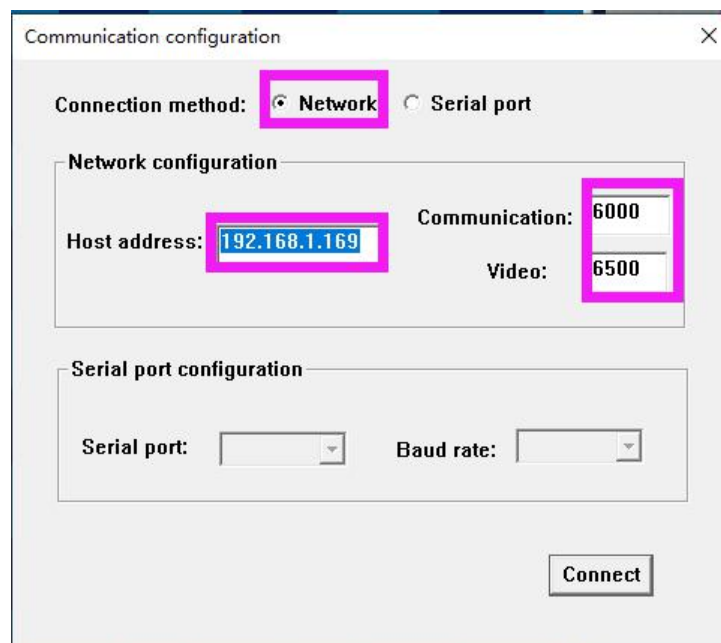
3. Control DOFBOT by PC software

3.1 Click [Connect] to connect robotic arm.

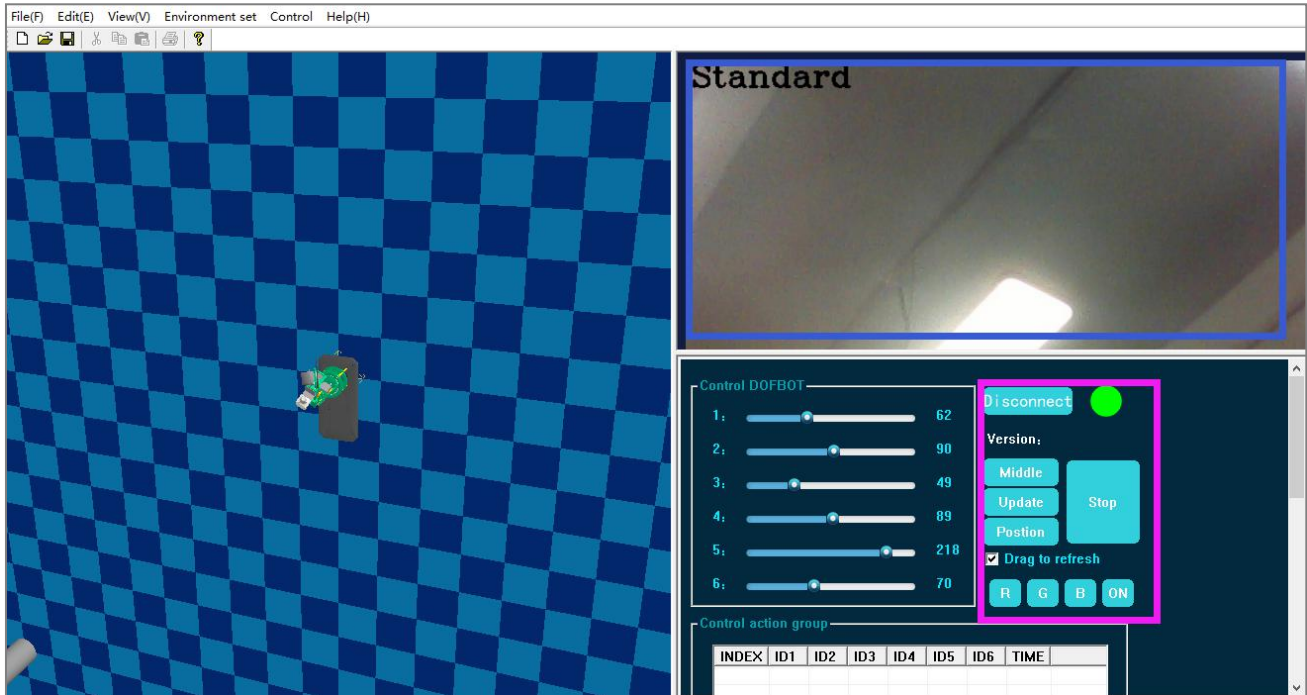


3.2 Select the network connection method.

Input the IP address, communication port, and video port of the robotic arm. Then click [Connect].



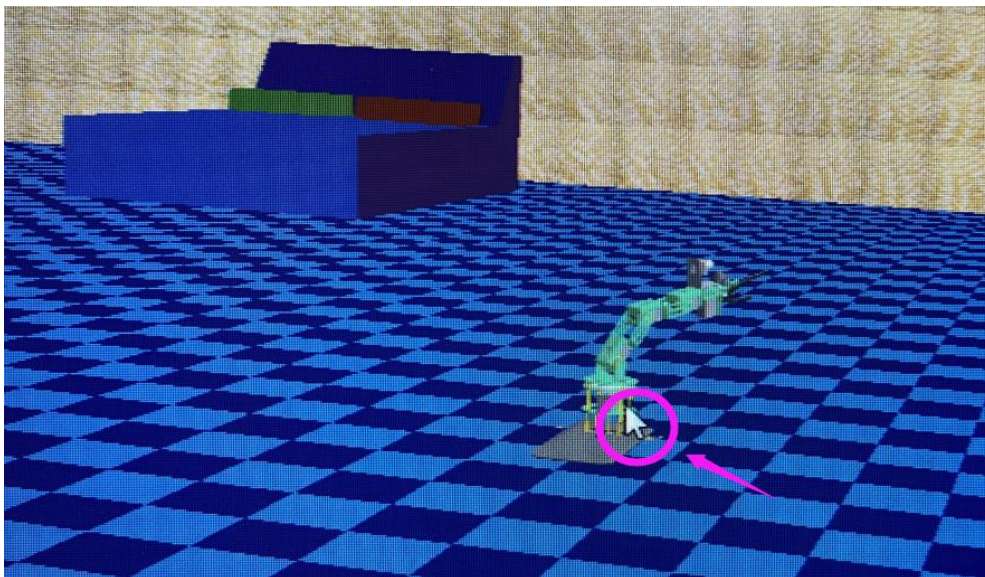
3.3 If the connection is successful, the status indicator on the interface will become green, as shown below. The video screen will also be loaded.



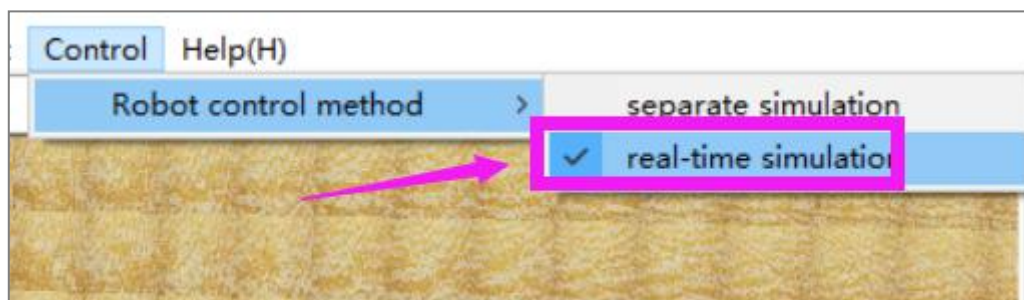
4. PC Function

- Real-time simulation

1) Click the 3D simulation of the robotic arm on the left side on PC software.



2) Choose [Control]--[Robot control method]--[real-time simulation].



3) You can control robotic arm by button on key board. As shown below.

Note: During control, the mouse needs to be kept on the 3D simulation.



Press W,A,S,D key on keyboard at the same time.

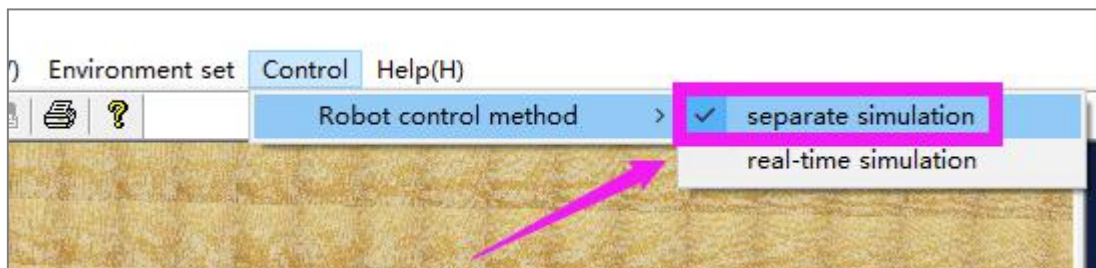
Press T,F,G,H key on keyboard at the same time.

Press I,J,K,L key on keyboard at the same time.

Can control robotic arm.

● Separate simulation

1) Choose [Control]--[Robot control method]--[separate simulation simulation].



2) Control DOFBOT

You can control 6 servo of robot arm by drag slider.



3) Control cation group

Step:

① Drag slider on Control DOFBOT area.

② Click [Add] on Control action group, which means add a set of actions to robot arm. And you can

see a set of action group data on the table. As shown below.

Control DOFBOT

1: 54
2: 107
3: 20
4: 81
5: 180
6: 49

Disconnect ☐

Version:

Middle Update Postion Stop

☒ Drag to refresh

R G B ON

Control action group

INDEX	ID1	ID2	ID3	ID4	ID5	ID6	TIME
0	54	107	20	81	180	49	1000

Action group interval time: 1000 ms

Add Delete Clear Single Loop

We can add more action groups in the same way.

Control DOFBOT

1: 117
2: 65
3: 14
4: 130
5: 153
6: 99

Disconnect ☐

Version:

Middle Update Postion Stop

☒ Drag to refresh

R G B ON

Control action group

INDEX	ID1	ID2	ID3	ID4	ID5	ID6	TIME
0	54	107	20	81	180	49	1000
1	117	65	14	130	153	99	1000

Action group interval time: 1000 ms

Add Delete Clear Single Loop

③ Click [Single] or [Loop] to run this action.

Control action group

INDEX	ID1	ID2	ID3	ID4	ID5	ID6	TIME
0	54	107	20	81	180	49	1000
1	90	90	90	90	90	180	1000
2	55	46	119	52	125	119	1000

Action group interval time: ms

④ Click Loop off] to stop action is running, and robotic arm will back to center position.

Control action group

INDEX	ID1	ID2	ID3	ID4	ID5	ID6	TIME
0	54	107	20	81	180	49	1000
1	90	90	90	90	90	180	1000
2	55	46	119	52	125	119	1000

Action group interval time: ms

⑤ [Delete] and [Clear] be used to delete or clear actions.

4) Custom action group

Choose ActionX, robot arm will automatically completed this action, and the robot arm will automatically stop after the action is completed.

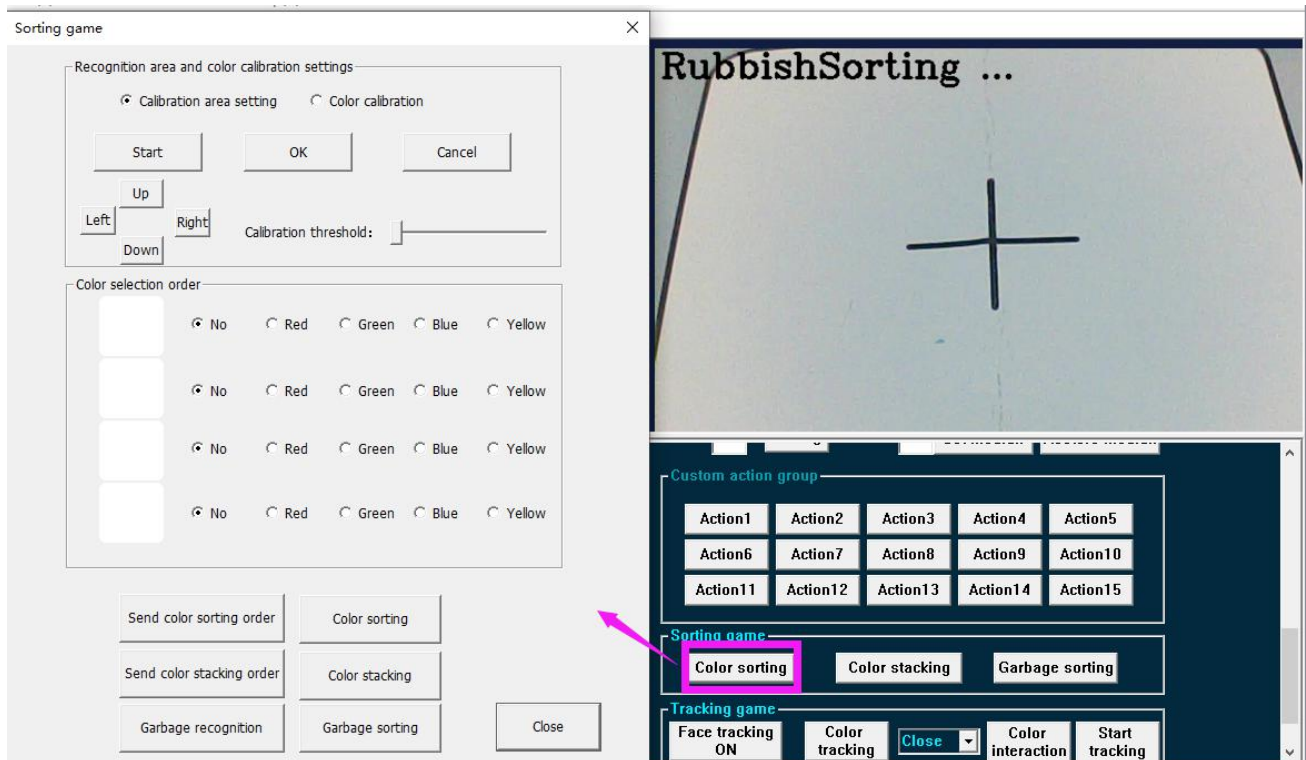
Custom action group

Action1	Action2	Action3	Action4	Action5
Action6	Action7	Action8	Action9	Action10
Action11	Action12	Action13	Action14	Action15

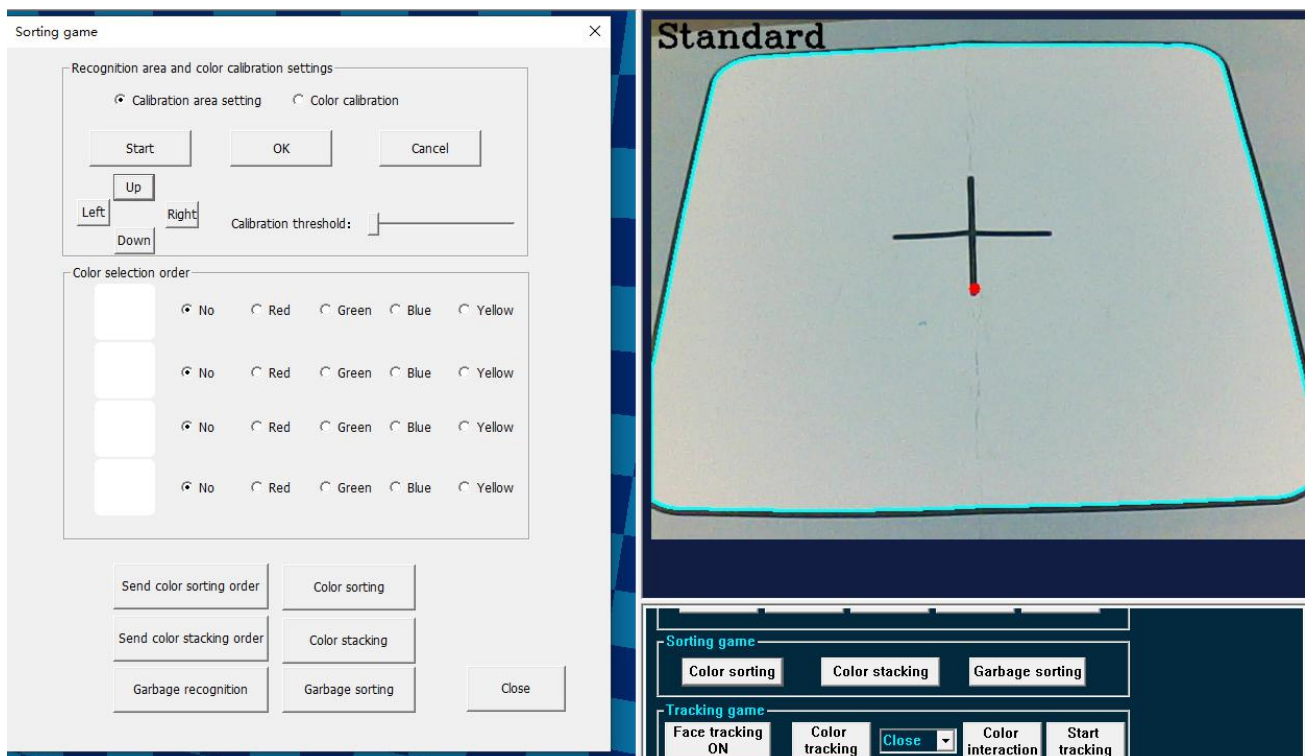
5) Sorting game

Sorting game

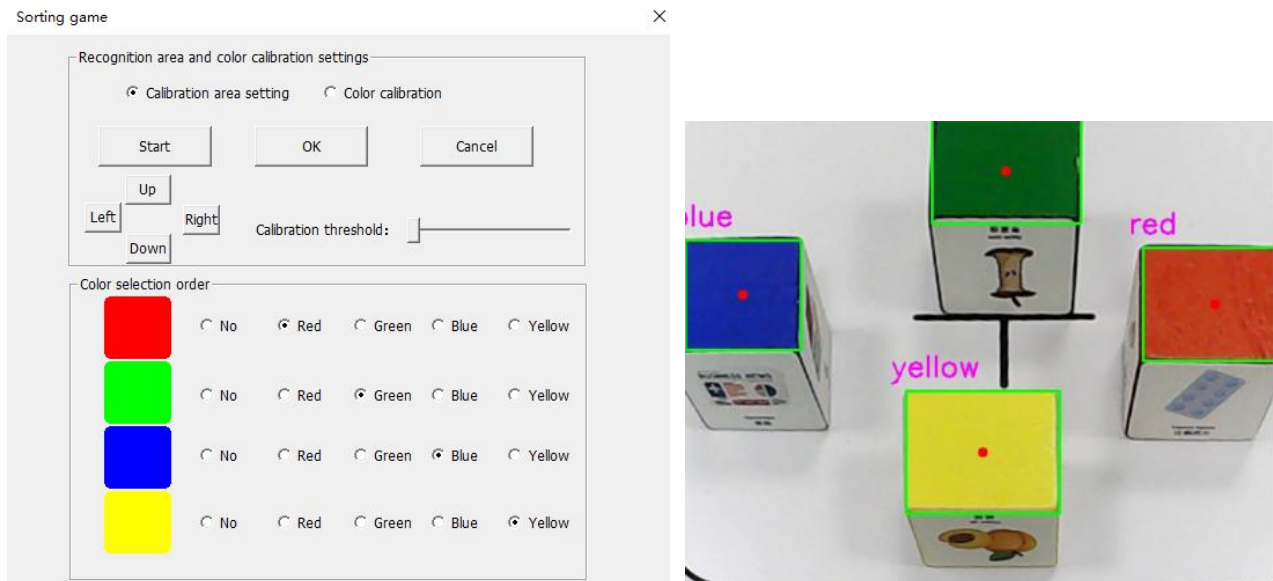
① Place map and click a game, for example-Color sorting.



② We need to set the calibration area, enter the calibration area. Click to up, down, left and right button to ensure camera can fully see the identification frame. We can slide the calibration threshold setting so that the cyan box can circle the identification frame in the map, and click **[OK]** to complete the calibration.



③ Select the color block, then send the sorting or stacking order, wait for the camera to recognize it, and then click sorting or stacking.



6) Tracking game

Face tracking: Click [Face tracking ON], when the robotic arm detects the face in the video screen, the robotic arm will move slowly with the face.

Color tracking: Select the color to be tracked. Then, click [Color tracking], place the corresponding color block in front of the robotic arm camera. When we move the color block, the robotic arm will move with the color block.

Color interaction: Click to [Color interaction], place the block in the green recognition box on the screen, wait for the value in the green box to stabilize. Then, click [Start tracking], the robotic arm will move with the color block.

