

## Lesson 2 Mobile APP Control

### 1. App Installation

Android user: Please transfer the installation package to your smart phone to install.

iOS user: Please search “Wonderbot Robot” in App Store.

### 2. Device Connection


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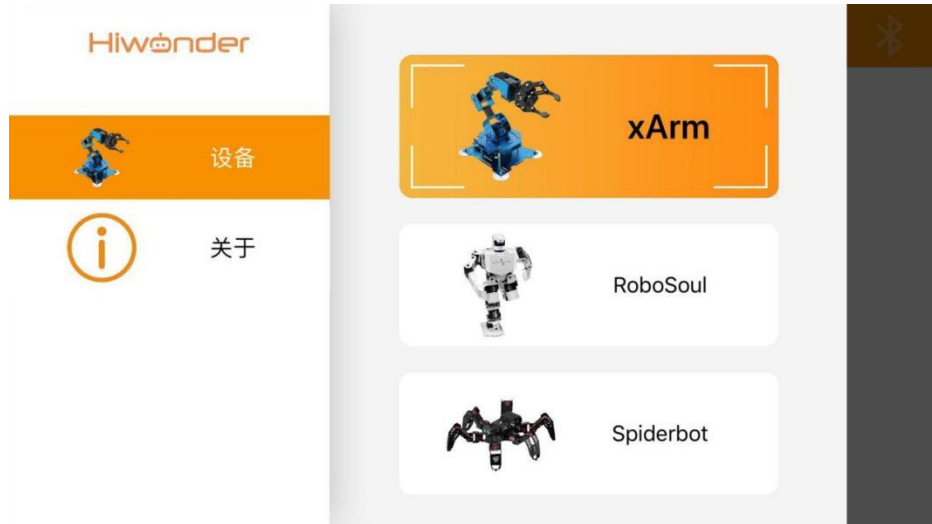
**Note:**

- 1) Please enable the Bluetooth and GPS service before opening the APP.
  - 2) Please use the Bluetooth button in the APP to pair and connect with the device. Do not pair with the key in the phone settings.
  - 3) Android user note that please ensure all permissions for APP in the phone settings, otherwise it may affect the normal function! For specific instructions, please refer to "Mobile APP Installation Package -> Hiwonder APP Android Version Pre-use Instructions" in the directory of this section.
  - 4) This lesson takes the iOS version APP as an example. The system version requirements: Android 7.0 or above, iOS 9.0 or above.
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1) Turn on the robotic arm and open “Wonderbot” on your phone. The home interface is as follow:



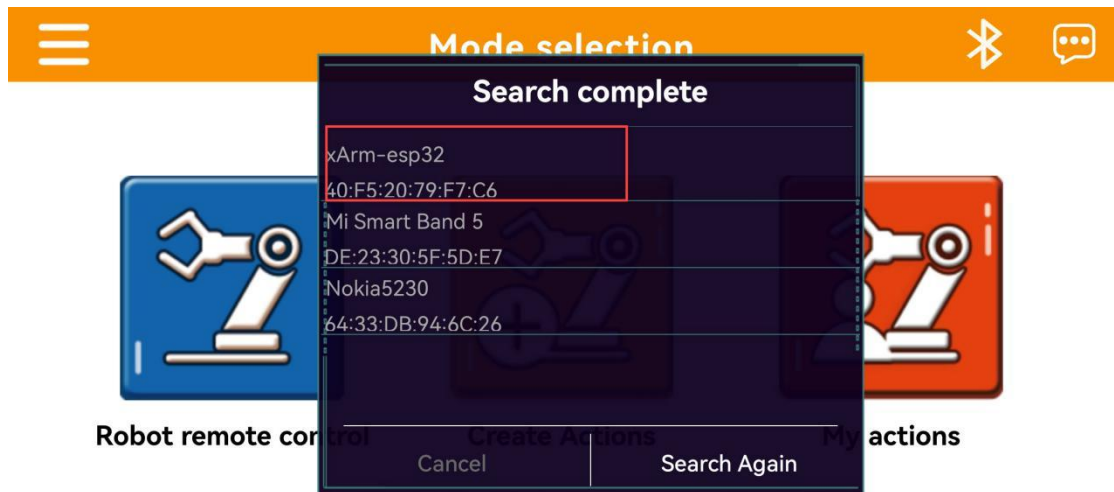
2) If the interface above does not appear, please click  icon, and then click “Robots” to choose “xArm”.



Step 3: Click the flashing Bluetooth icon on the interface to enter device search status.



Step 4: Wait for a while, select “xArm-esp32”.



Step 5: when the Bluetooth icon stops flashing and keeps on, and the “Bluetooth is connected” is prompted on the interface, it means the connection is successful.



**Robot remote control**



Bluetooth is connected

**Create Actions**



**My actions**

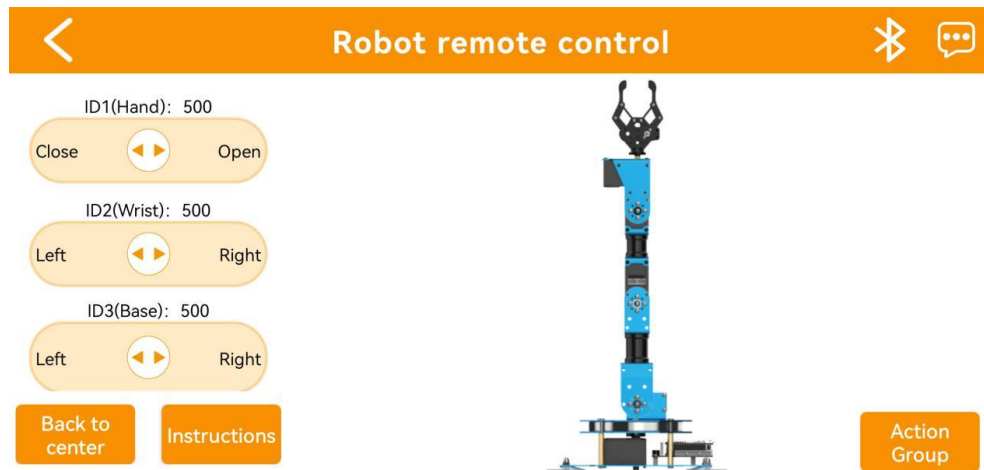
### 3. Mode Instruction

The following table is the function instruction of each mode:

Mode	Function Instruction
<b>Robot Remote control</b>	control the movement of the robotic arm quickly.
<b>Create actions</b>	program actions, debug and record the data of robotic arm. (The specific operation method please refer to "4.Advanced lesson/4.Mobile APP Programming")
<b>My actions</b>	Use with "create actions". It can store, display and delete the custom actions. (The specific operation method please refer to "Advanced lesson/4.Mobile App Programming".)

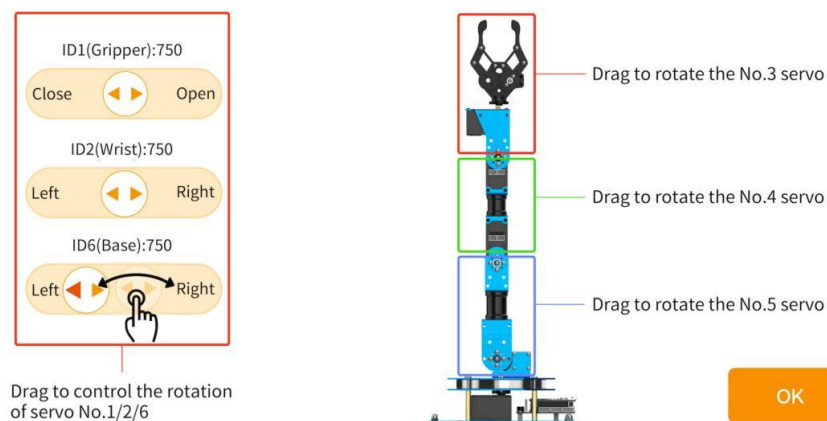
## 4. Button Operation Instruction

This section takes mode 1 remote control as an example to explain the interface and buttons:



The interface is divided into two parts, left side and right side. The right side is the 2D animation of xArm ESP32. It can not only drag to control the robotic arm, but also check the real-time stance in the interface after rotation. Buttons on the left side can control the rotation of gripper, wrist and bottom.

- 1) Click **“Action group”** on the lower left corner to call the action groups downloaded into the robotic arm. (Please go to folder “xArm ESP32 PC Software and Action Programming-> Lesson 3 APP Custom” to view detailed tutorial)
- 2) Click “Operation instruction” to view the operated method:



- 3) Click “Back to Start” to call all the servos back to middle position.

