

Lesson 1 uHand2.0 PC Software

Introduction

1. Device Connection

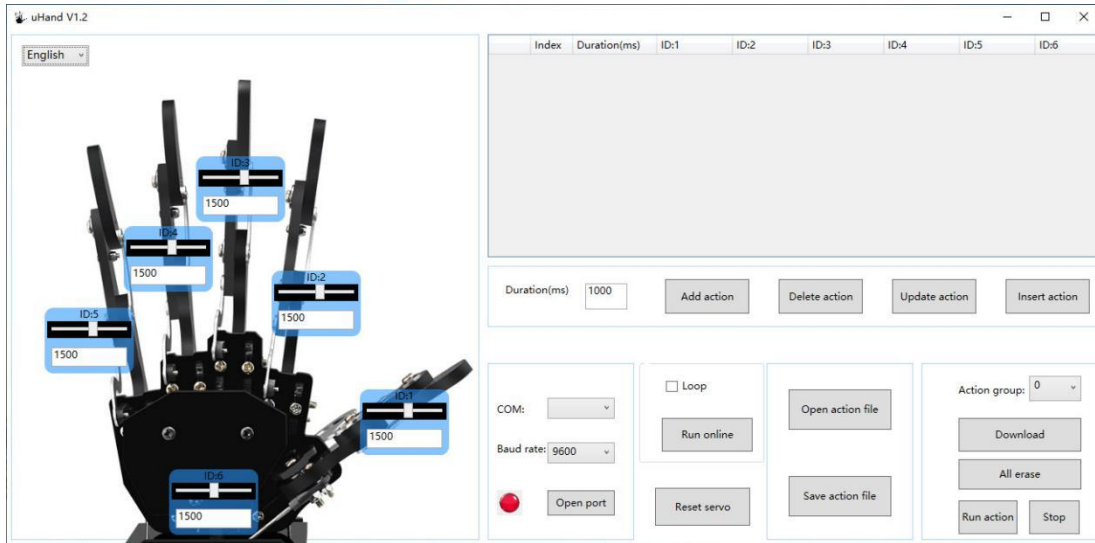
Step 1: Connect power and switch on the device.

Step 2: Use micro-USB cable to connect the USB serial port on the controller to USB port on computer as the figure shown below.

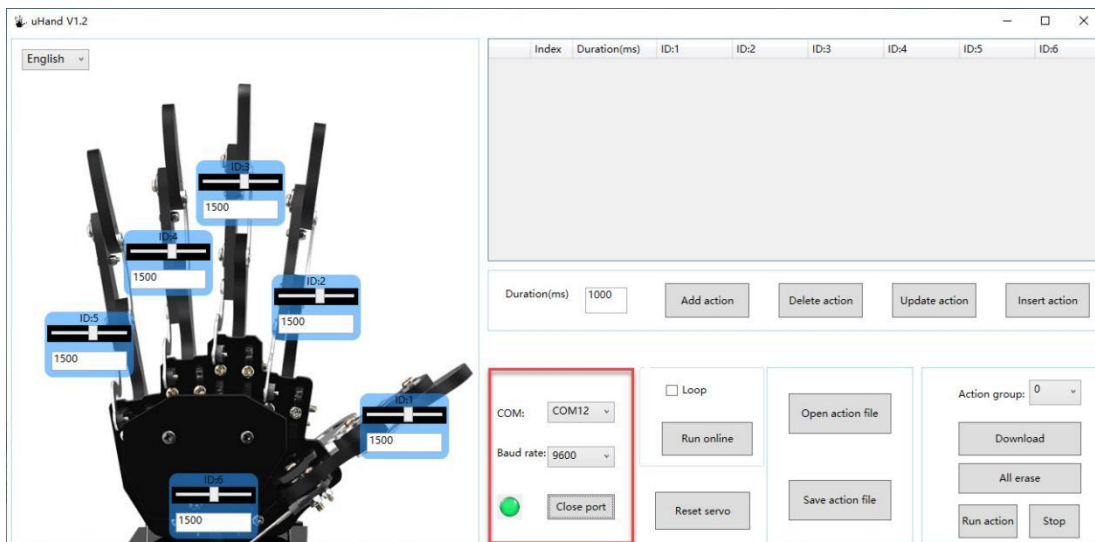


Step 3: Go to folder “uHand2.0 PC software” under the same directory of this section to open user terminal program. (select the software version according to your computer system)

Step 4: After opening PC software, the main interface is as shown in the figure below:



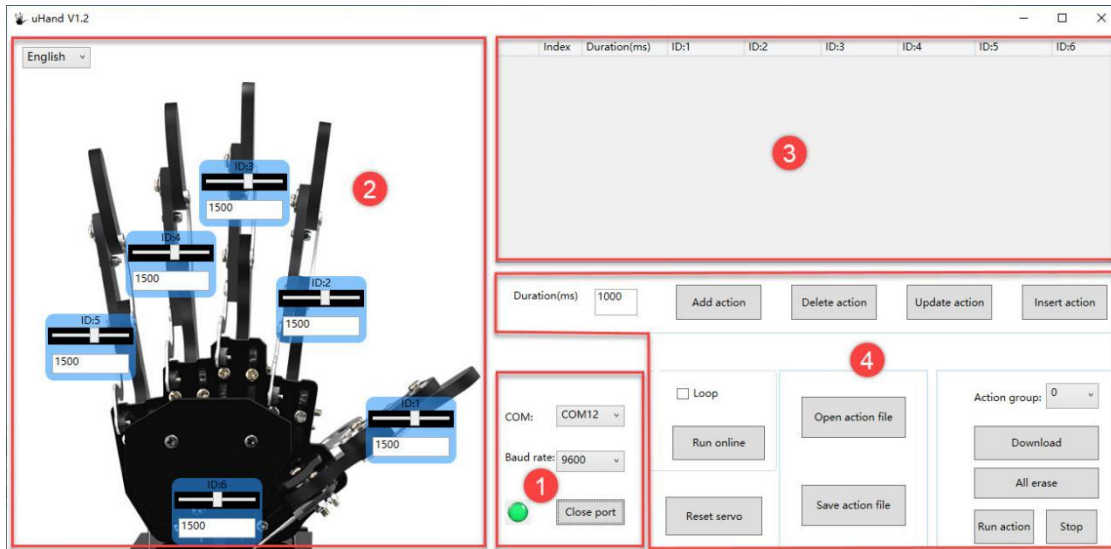
Step 5: Find the connected COM port in the following red box and keep the settings of baud rate 9600 unchanged. Then press “open serial port” to connect.



Reminder: If several COM ports appear, please go to “Device management” to check the terminal port number containing CH340/CH341tag and then connect again. In addition, if COM1 appears, it normally is system communication port and do not connect it.

2. Function Instruction

The main interface of uHand2.0 PC software is divided into 4 parts as the image shown below.





①: Device Connection Area

Icon	Function Instruction
	Select the device connection port.
	Select the device connection baud rate. It defaults 9600 and do not need to be changed.
	Press to open or close the serial port. Select “open serial port” and then the indicator on the left side will light green. Select “close serial port” and then the indicator will light red.

②: Servo Control Area

Servo control area displays the selected servo icons and you can drag the corresponding slider to adjust the servo position.


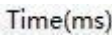




Icon	Function Instruction
	Indicate servo ID number. Take ID1 as an example
	Use to adjust the servo position. The value of ID1-ID5 servo ranges from 900 to 2000. The value of servo ID6 ranges from 500 to 2500.

③: Action Data List:

Action data list displays the execute time of each action in the current action group and the value of each servo in each action.

	Index	Time(ms)	ID:1	ID:2	ID:3	ID:4	ID:5	ID:6
▶	1	1000	500	500	268	953	783	500
	2	500	500	500	268	953	783	620
	3	1000	60	500	340	810	400	626

Icon	Function Instruction
	Action group number. An action group can save up to 255 actions so the maximum number is 255. If it exceeds 255 actions, online run only will be prompted and the action group cannot be downloaded.
	Action running time, that is, the required time for executing the action.
	It corresponds to the servo angle value. Double-click  to modify the value directly.

④: Action Group Setting Area

Icon	Function Instruction
<p>Action group: <input type="text" value="0"/></p>	<p>The selection button for action group number. Click to select the number between 0 and 230. Generally, No.0 group action is the middle action.</p>
<p>Download</p>	<p>Download the current action group into robot. After downloading, it will cover the origin action group.</p>
<p>All erase</p>	<p>(Caution) Click to delete all the data from No.0 to No.230 action group.</p>
<p>Run action</p>	<p>Execute the action (selected serial number) once.</p>
<p>Stop</p>	<p>Stop the running action group.</p>
<p>Add action</p>	<p>The servo values in servo control area as an action is added into the last line of the action data list.</p>
<p>Delete action</p>	<p>Click to delete the selected action in action data list.</p>
<p>Update action</p>	<p>Replace the selected angle value in action data list. (The angle value is replaced with the servo value in the left servo control area. The action running time is replaced to the time set in "action time(ms)" .)</p>

<div data-bbox="360 282 572 367">Insert action</div>	<p>Insert a line of actions in front of the selected action.</p>
<div data-bbox="360 490 577 575">Open action file</div>	<p>Click to select the action group that you want to open to load the action group data into action data list. (The provided action files is located in “7.Appendix -> Action Group File”)</p>
<div data-bbox="365 734 593 819">Save action file</div>	<p>The actions in action data list are saved into the specific location.</p>
<div data-bbox="400 943 489 969"><input type="checkbox"/> Loop</div> <div data-bbox="394 1021 584 1088">Run online</div>	<p>Click to execute the actions in action data list once. (If tick “Loop”, the robot will repeatedly execute the actions.)</p>
<div data-bbox="357 1196 541 1263">Reset servo</div>	<p>After clicking, all servos are back to the original position (1500).</p>