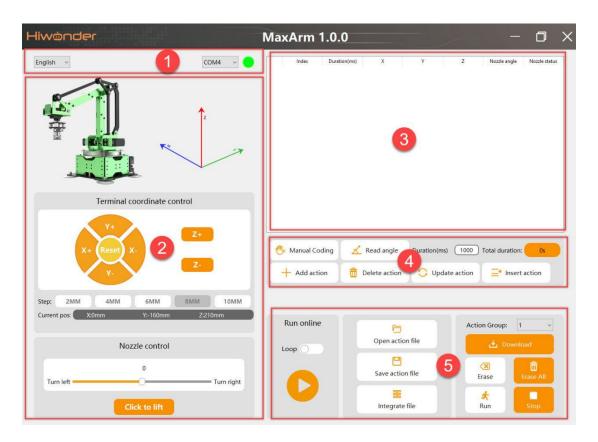
# Lesson 1 PC Software Interface Introduction

The PC software can control the rotation of individual servo, display the current coordinate, customize the action, etc.

Through PC software, we can control individual servo, control the rotation of robotic arm and edit action group to generate a action group file.

The interface of PC software consists of five parts: status bar, robotic arm control area, action data list, action editing area, action setting area.



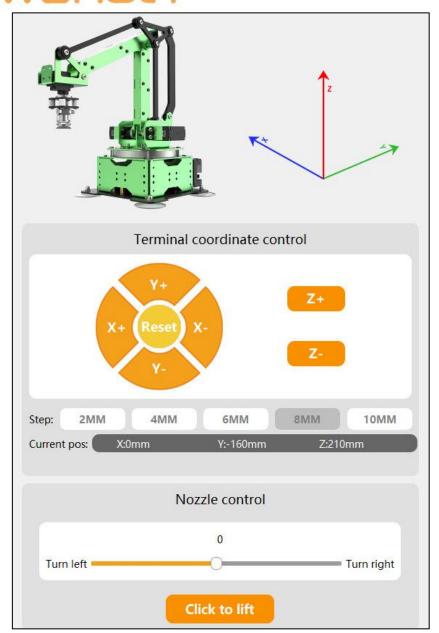
1 Status Bar

Icon Function

简体 Canal State of the Canal Sta	Language selection box Select interface language in drop-down list
COM4 V	Terminal status bar  Select device terminal.  When the indicator icon is green, it means device is connected.

#### (2) Robotic Arm Control Area

In this area, control the movement of robotic arm and the status of nozzle suction by setting the values in x, y, and z axes.



The function of each button is shown in the following list:

Icon	Function
Reset	Control the robotic arm to return to initial posture

X+	Increase the value of x-axis  MaxArm will rotate  horizontally to the left
X-	Decrease the value of x-axis  MaxArm will rotate horizontally to the left
Y-	Decrease the value of y-axis  MaxArm will rotate forward
Y+	Increase the value of y-axis  MaxArm will rotate  backward
Z+	Increase the value of z-axis  MaxArm will be lifted
Z-	Decrease the value of z-axis  MaxArm will be lowered
步长: 2MM 4MM 6MM 8MM 10MM	Select the increasing or decreasing value in x, y and z axes.



Current pos:	X:0mm	Y:-160mm	Z:210mm	Display the real-time coordinate of MaxArm
Turn left		0	Turn r	Drag slider to control the left and right rotation of suction nozzle. The rotation range is between -90 and 90.
	Click t	o lift		Control the air pump

#### (3) Action Data List

The servo value and running time of each action can be viewed in action data list, as shown in the image below:

	Index	Duration(ms)	X	Υ	Z	Nozzle angle	Nozzle status
	1	800	0	-163	212	0	0
•	2	1000	8	-171	100	0	0

The parameter instruction is shown in the following list:

Icon	Function
Index	Action number
Duration(ms)	Running time of each action (ms)
X	The current x-axis value of suction cup

Y	The current y-axis value of suction cup
Z	The current z-axis value of suction cup
Nozzle angle	The current rotation angle of suction cup (-90° ~90°)
Nozzle status	The current status of suction cup (1 for sucking, 0 for releasing)

#### 4 Action Editing Area

In this area, the edited action can be modified.



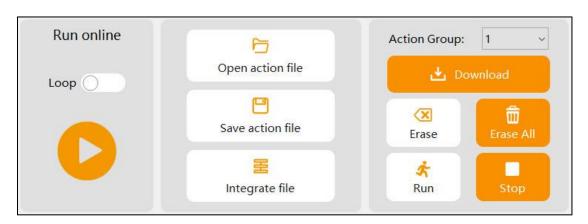
The function of each button in action editing area is shown in the following list:

Icon	Function
Manual Coding	Loose robot' joints so you can manually deign action.
∠ Read angle	Read the angle information of the edited action (use with "Manual Coding" button)

Duration(ms) 1000	The running time of single action. You can click to modify.
Total duration: 2.000s	The total running time of action group
+ Add action	Add the current servo value in servo operation area as the last action in action data list
Delete action	Delete the selected action in action data list
C Update action	Replace the selected value in action data list.  (The selected servo values are replaced with the current servo values om servo operation area.)
Insert action	Insert an action in front of the selected action

#### 5 Action Setting Area

The action group setting area allows you to set the edited action group to run, save, and integrate.





The function of each button in action group setting area is shown in the following list:

Icon	Function
Run online Loop	Click on this button to run all actions in action data list once.  If click "Loop", MaxArm will run actions repeatedly.
Open action file	Click it to select action group and load it to action data list.
Save action file	Save actions displayed in action data list into the specified path.
Integrate file	After opening an action group, click "Integrate action file" to open another action file to integrate them into a new action group
动作组 1 ~	Action group selection box. Display the action group downloaded to MaxArm in PC software
<b>Ů</b> Download	Download action group to MaxArm
Erase	Delete the action group file in current action selection box.



Erase All	(Caution) Delete all the action group files	
Run	Execute the selected action group once	
Stop	Stop running action group	