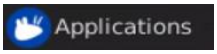
Lesson 1 PC Software Introduction

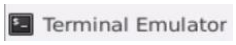
1. Start PC Software

1.1 Start with Desktop Icon

Double-click the PC_software icon  on desktop.

1.2 Start with Command Line

1) Click 

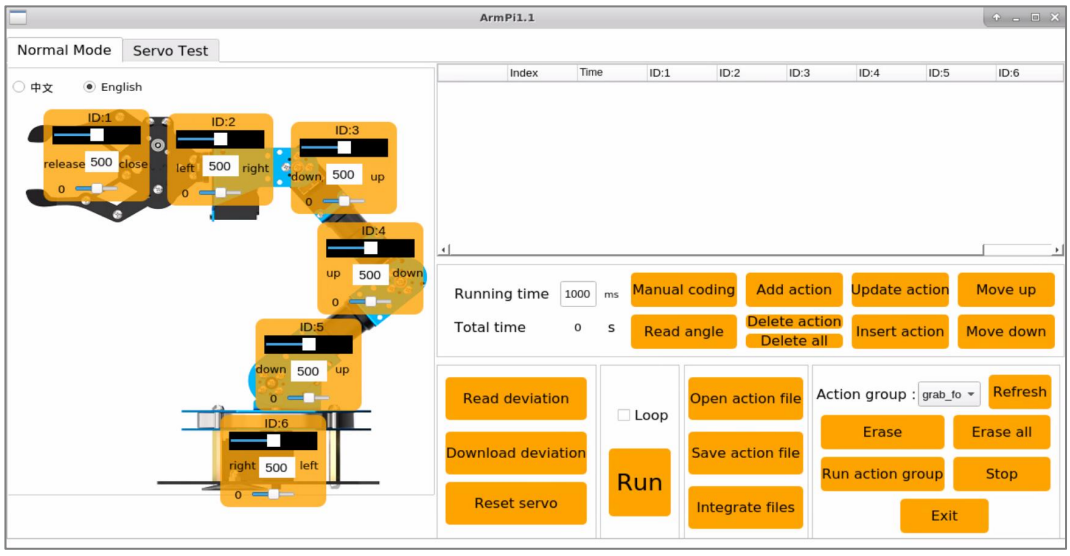
in the lower left corner, and then select 

to open terminal.

2) Then enter command "**sudo ArmPi_PC_Software/ArmPi.py**" to open PC software.

2. Software Interface Distribution

The PC software interface is as follow:



The “Normal Mode” interface is divided into several areas, as the figure shown below:

①：Servo Control Area

The Servo Control Area displays the corresponding servo icons of robotic arm. You can control the servos by dragging slider bar.

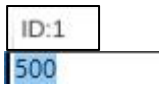
Icon	Instruction
	The ID number of servo. Here is ID1.
	Adjust servo position. The minimum value is 0 and the maximum value is 1000.
	Adjust servo deviation. The minimum value is -125 and the maximum value is 125.

②：Action Data List

The Action Data List displays the running time and servo value of each action

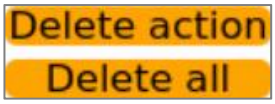
of current action group.

	Index	Time	ID:1	ID:2	ID:3	ID:4	ID:5	ID:6
▸	1	800	500	500	300	900	700	500

Icon	Instruction
	Action group number.
	The running time of action.
	Modify the value corresponding to the ID number. Double-click  to modify directly.

③：Action Setting Area

Icon	Instruction
	The time for running single action. Click  to modify.
	The total time for running the action group.
	Click this button to loose robot's joint and then the joint can be twisted.
	Read the angle information after twisting the robotic arm. (This button need to use with "Motor power off".)
	Add the current servo values in servo control area to the last line of action data list.

	Delete action: delete the selected action in action data list. Delete all: delete all the actions in action data list
	Replace the selected action in action data list. (The selected action will be replaced by the current servo value in servo control area and the running time will be replaced by the time set in “Action Time”.)
	Insert a action before the selected action.
	Exchange the selected action with the previous one.
	Exchange the selected action with the next one.
	Click to run action group in action data list once. (If click “loop”, robot will run the action group repeatedly)
	Click to open the selected action group and then display in action data list. The path to action group file: “ArmPi_PC_Software->ActionGroups”
	Save the current action in action action list to the specific location. （ArmPi_PC_Software->ActionGroups）

Integrate files	After opening an action group, click this button and then open another action group file to integrate two action groups into a new one.
Action group : grab_fo	Display the saved action group in PC software.
Refresh	Click to refresh.
Erase	Delete the current action group file
Erase all	(Caution) Delete all action group files.
Run action group	Perform the selected action group once.
Stop	Stop the running action group.
Exit	Exit the current PC software interface.

④：Deviation Settings Area (For reference only)

Icon	Instruction
Read deviation	Click to read the saved deviation automatically.
Download deviation	Click to download the deviation that has been adjusted by PC software to robot.

Reset servo	Click to restore all servos in servo control area to the position corresponding to the value of 500.