

SuperBOT Software Quick Start Guide

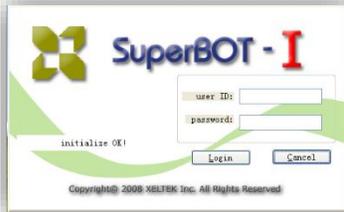
After the device is installed, follow the steps below for setting adjustments.

(1) Device start procedure

Main switch at lower back of device → System switch ON → Programmer switch ON

(2) Enter programming setting

Double click to execute system program.

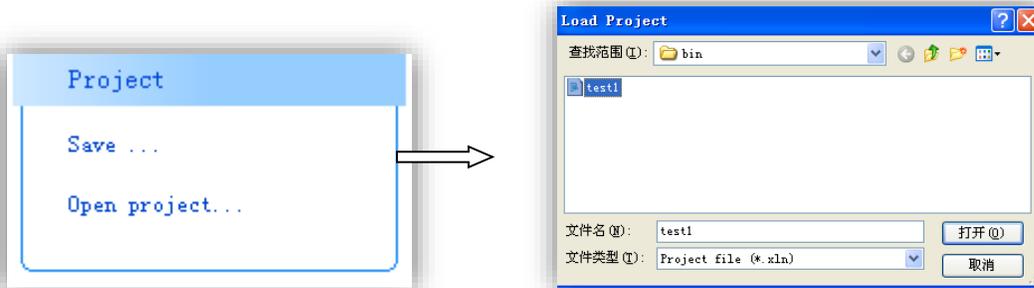


Display of initiation result of each part:

User login: Enter user name and password → Click Login

(3) Load project

This step can be skipped if there are no saved projects.

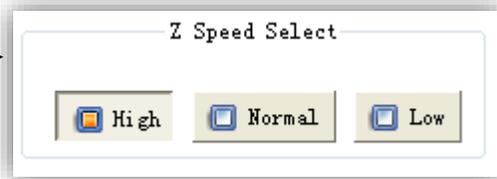
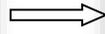


(4) Basic Setting

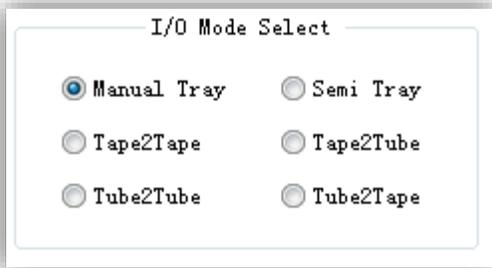
Click "Basic Setting" in the Control Panel window to activate the Basic Setting window.



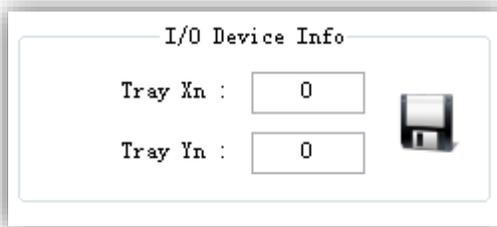
XY-axis speed selection.



Z-axis speed selection.



User selects I/O mode as per requirement.



Click  to save setting.

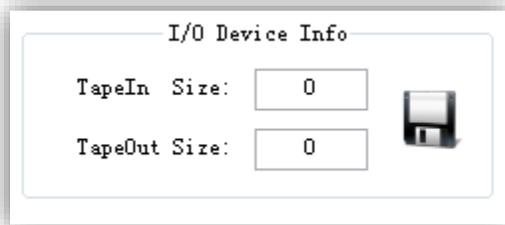
Detailed information setting of I/O device

a. Manual Tray mode

Tray Xn: Setting of row number of Tray

Tray Yn: Setting of line number of Tray

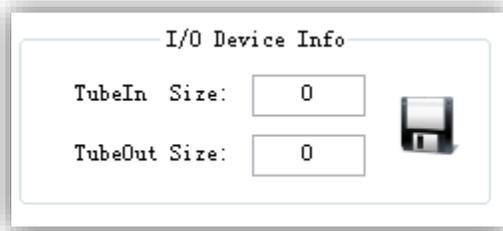
b. Semi Tray mode, the same as Manual Tray mode



c. Tape-2-Tape mode

TapeIn Size: Setting of number of Tape In

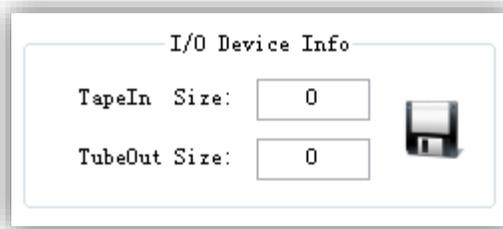
TapeOut Size: Setting of number of Tape Out



d. Tube2Tube mode

TubeIn Size: Tube In. Set the number of chips to be programmed.

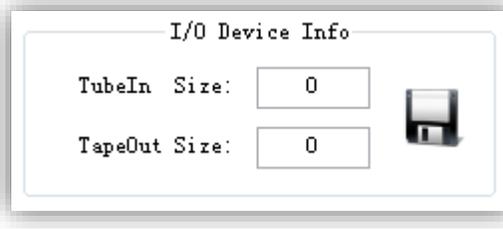
TubeOut Size: Tube Out. Set the size of single tube (i.e. maximum loaded chip number)



e. Tape2Tube mode

TapeIn Size: Tape In. Set the number of chips.

TubeOut Size: Tape Out. Set the size of single tube (i.e. maximum loaded chip number)



f. Tube2Tape mode

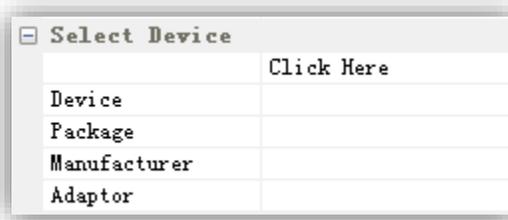
TubeIn Size: Tube In. Set the number of chips to be programmed.

TubeOut Size: Tape out. Set the number of loadable chips.

(5) Programmer Setting

Skip this step if all settings in the original project are the same as the current setting when the project is called.

Click “Programmer Setting” button in Control Panel window to activate Programmer Setting window.



Click “Click Here” to select device.

Select Data	
	Click Here
File name	
Checksum	

Click “Click Here” to select the document to be programmed.

Option	
Operation	Click
Config Word	Click
Buffer	Edit

Set “Option”, “Config Word” and “Buffer” as required by device programming.

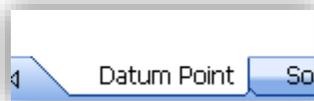
Edit Auto	
	Click Here
Code	
Sequence	

Click “Click Here” to edit Auto (i.e. programming procedure) as required by device programming.

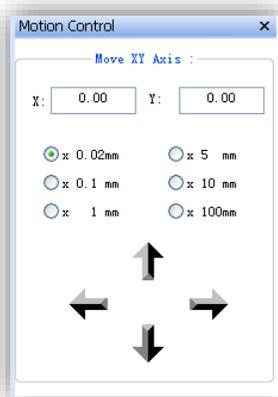
(6) Position Setting

Click “Position Setting” button in Control Panel window to activate Position Setting window.

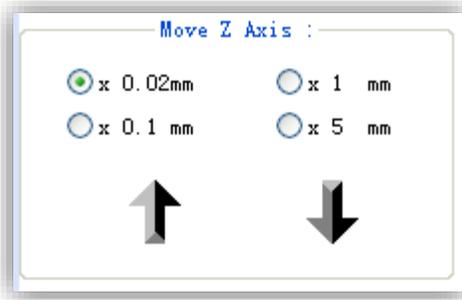
① Base point positioning



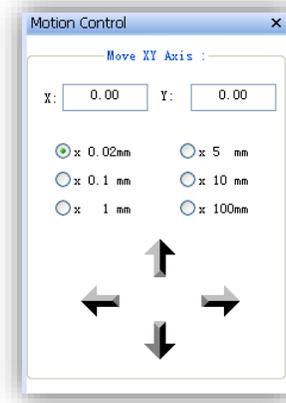
Select to position BasePoint Click “CCD To Check Point” to move camera over base point



Adjust camera location Click “Nozzle To Check Point” to align the image center.

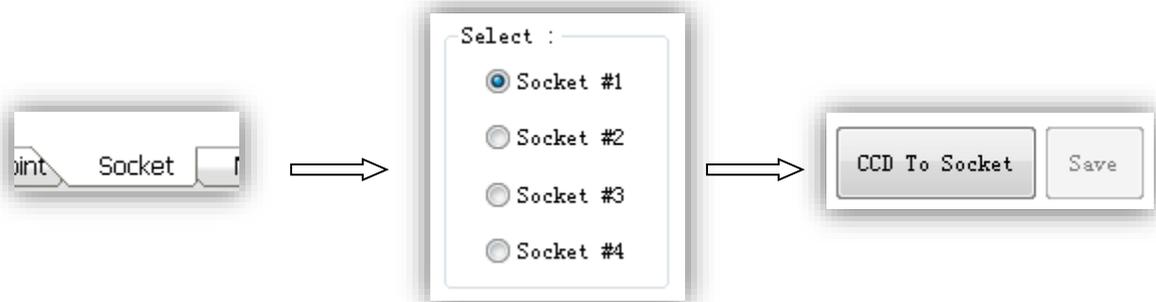


Adjust nozzle height for observation



Adjust nozzle location to align nozzle center with base point center. Click "Save".

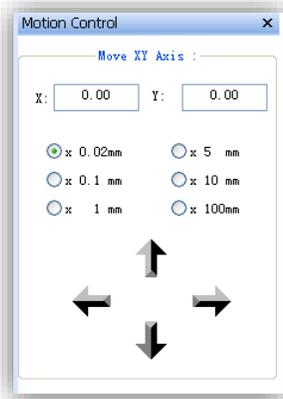
② **Socket positioning**



Select to position Socket

Select to position No.1 Socket

Click "CCD To Socket" to move camera over the Socket



Adjust camera location to the Socket image at center. Click "Save".



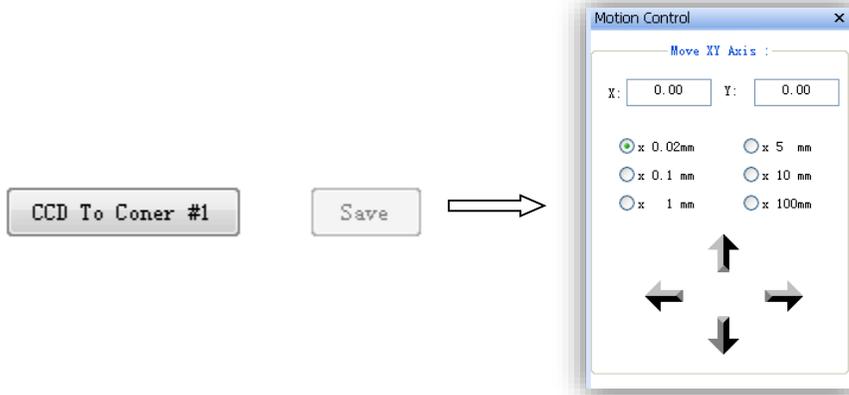
The Socket is located chip (please locate chip if there is no chip). After "Search Height" clicked, nozzle will automatically search height and save it.

Repeat the above actions. Position the used Socket one by one.

③ **I/O device positioning**

Select to position I/O device, which is divided into the following kinds as per the different I/O device used by user.

a. Tray positioning



Click “CCD to Coner #1” to move camera over No.1 point.

Adjust camera location to center the point image. Click “Save”.

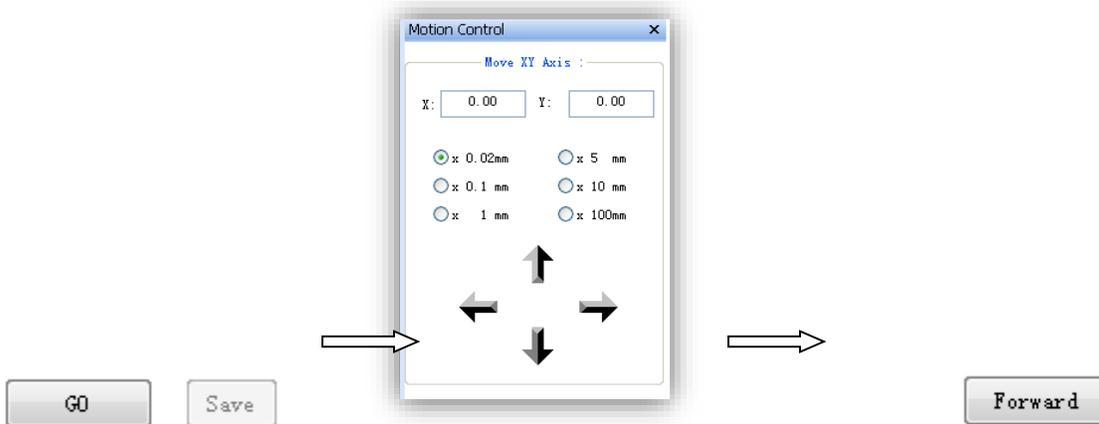
Use the same method to Position No.2 and No.3 points.



Click “Pitch” to automatically calculate Pitch value and save.

No.1 position of Tray is located chip (please locate chip if there is no chip). After “Search Height” clicked, nozzle will automatically search height and save it.

b. TapeIn positioning



Click “Go” to move camera over Tape

Adjust camera location to make the point image at center. Click “Save”.

Click “Forward” to advance one grate Once.

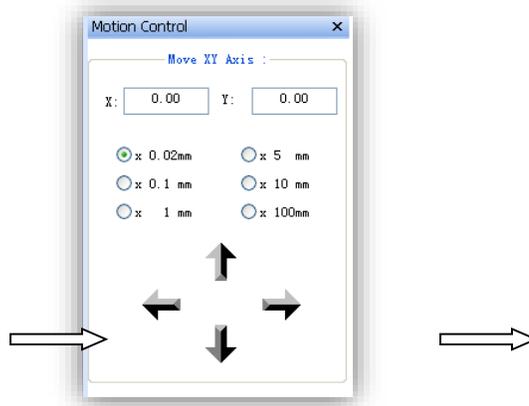


Stop clicking “Forward” when chip appears under camera.
After “Search Height” clicked, nozzle will automatically search height and save it.

c. TapeOut positioning



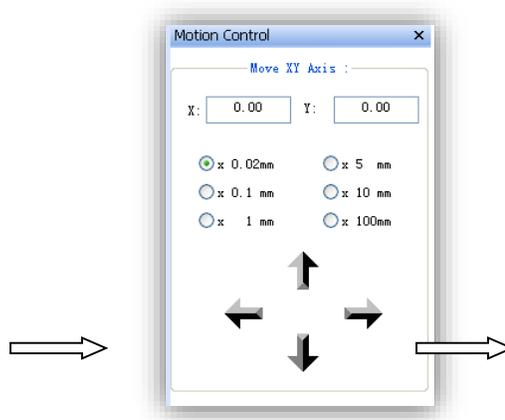
Click “CCD To TapeOut” to move camera over Tape.



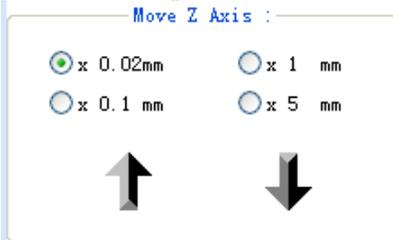
Adjust camera location to make the point image at center



Click “Nozzle To TapeOut” to move nozzle over Tape.



Adjust camera location to make the point image at center

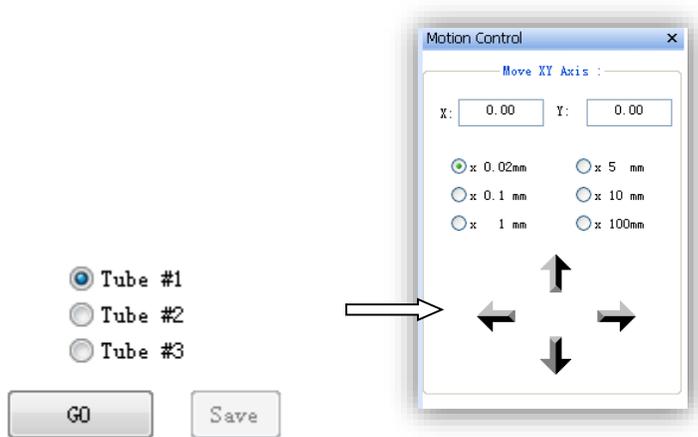


Click Up arrow and Down arrow to control nozzle to appropriate height of missing chip. Click “Height” to save.

d. TubeIn positioning

 1 2 3

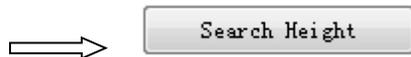
Three tubes can be placed in TubeIn at most. For the unused, please cancel at the front of the appropriate number.



Select to position No.1 Tube.
Click “Go” to move camera
over No.1 tube.

Adjust camera location to make the point image
at center. Click “Save”.

⇒ Repeat the above two steps to position other used Tube.

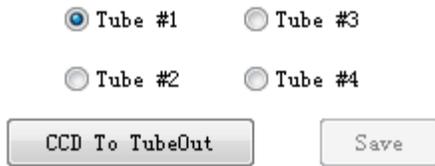


There is chip in the Tube with the current No.
After “Search Height” clicked, nozzle automatically search height and save it.

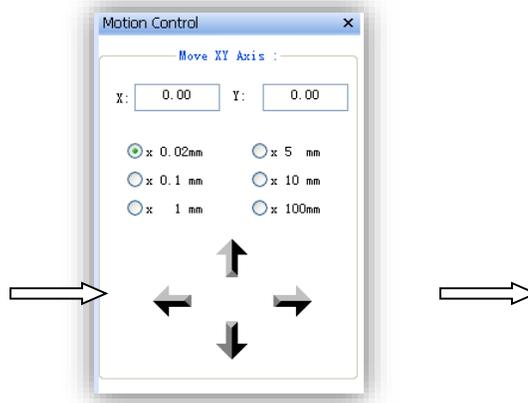
f. TubeOut positioning

 1 2 3 4

Four tubes can be placed in TubeOut at most. For the unused, the appropriate No. changes to grey color.
For the unused, please cancel at the front of the appropriate number.



Select to position No.1 Tube. Click “CCD To TubeOut” to move camera over No. 1 tube.

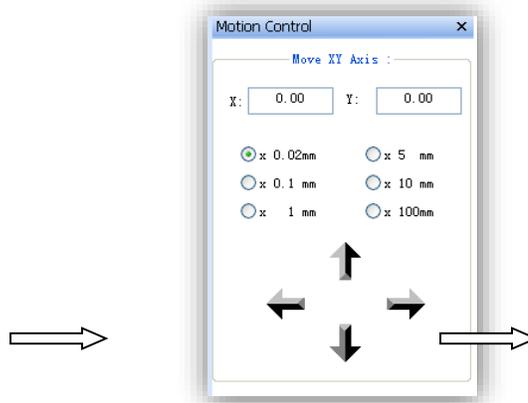


Adjust camera location to make the point image at center. Click “Save”.

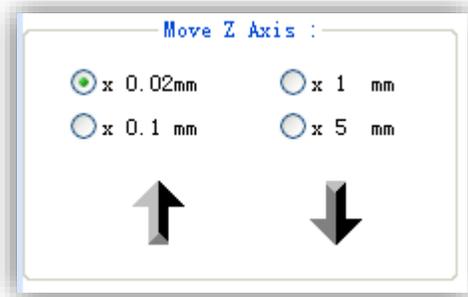
Repeat the above two steps to position other used Tube.



Click “Nozzle To TubeOut” to move nozzle over Tube.

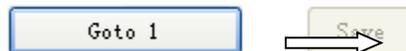


Adjust camera location to make the point image at center.



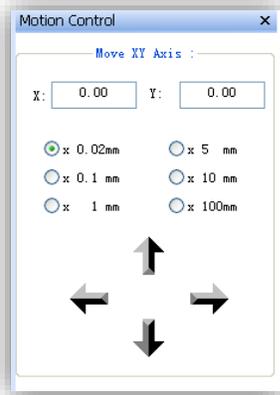
Click Up arrow and Down arrow to control nozzle to appropriate height of missing chip. Click “Height” to save.

④ Waste bin positioning



Select to position

Click “Goto 1” to move camera over No.1 point of NG Bin.

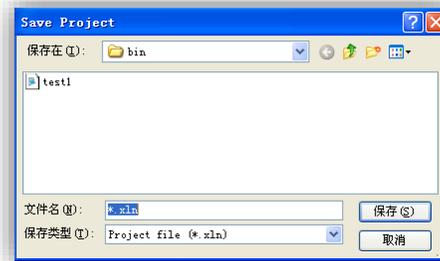
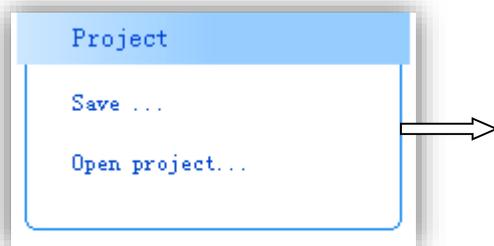


Adjust camera location to make image at No.1 point in NGBin. Click “Save”.

→ Position No.2 point with the same method

→ Position No.3 point

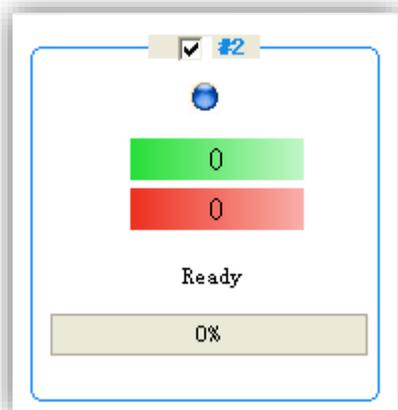
(7) Save project



Set to save project.

(8) Operation of programming process

- ① Click the left arrow  in Control Panel window to switch to working interface.
- ② Select programmer.

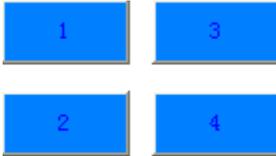


There are four programmers in SocketInfo window. For the unused, the appropriate No. changes to grey color. For the unused, please cancel at the front of the appropriate number.

③ Normal programming.



“Start” button to start motion. If there is chip in Socket when firstly clicked, then



Corresponding pick button of Socket changes to red color. After the No. button clicked, moving robot executes pick action from corresponding No. Socket.



“Stop” button to stop motion.



“Home” button to make moving robot back to mechanical zero point.



Switch to positioning interface.

(9) Device shutoff procedure

