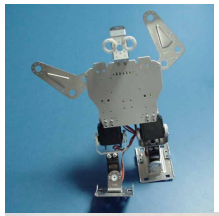
MiniS-Robot Software

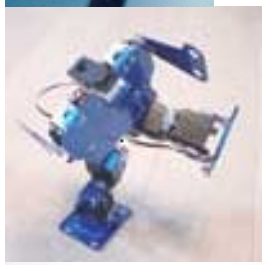
ENTRANCE GUIDE

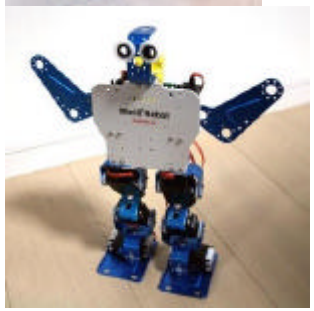
MiniStudio Inc.
Jan. 12, 2008

MiniStudio

MIniS-Robot's feature



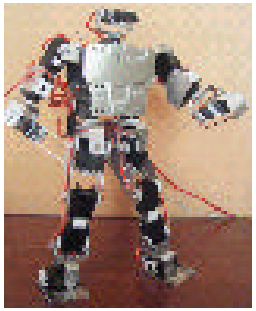




(1)Easy to start, for robotics learning step by step.

(2)Various robots stem from your limitless imagination.

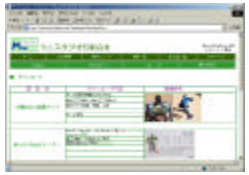
(3)Experience the enjoyment while making human robot at low price



Work flow of your Robot

Buy

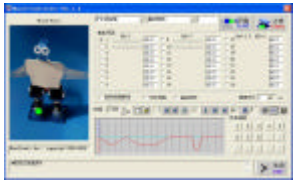
Download software



Assembly

Connect to PC

Motion data

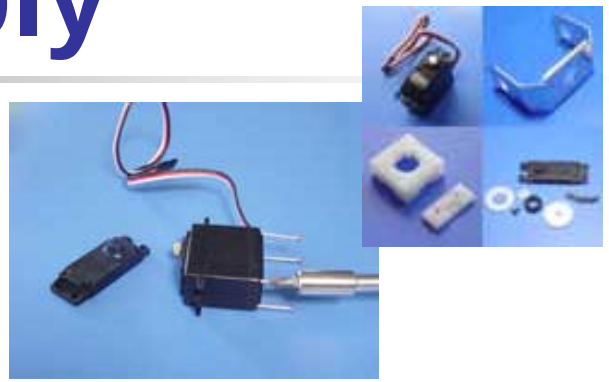


Edit Data

Robot action

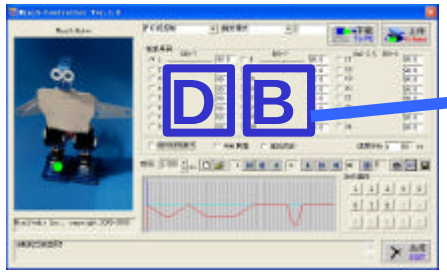
Studio Mini

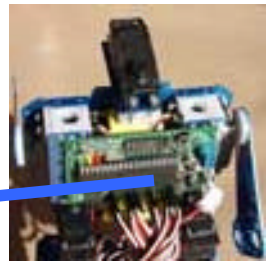
Hint of Assembly



- make double Axis Servo
- Notice the assembly sequence

- distinguish various type of the screw.





- Let number of the channel correspond to the servo position according to the software.

Studio Mini

How to Start Motion

(1) Start Controller program

(2) Check on the synch

(3)Make initial and guard data

(4) Use Relative function

(5) Adjustment of Pose

(6) Capture the Pose

(7) Save the motion CSV data

(8) Read CSV File

(9) Run the Motion

(10) Write data to PIC Chip

(1) Start Controller program

(1) Confirm program in the Directory

c:¥MiniStudio

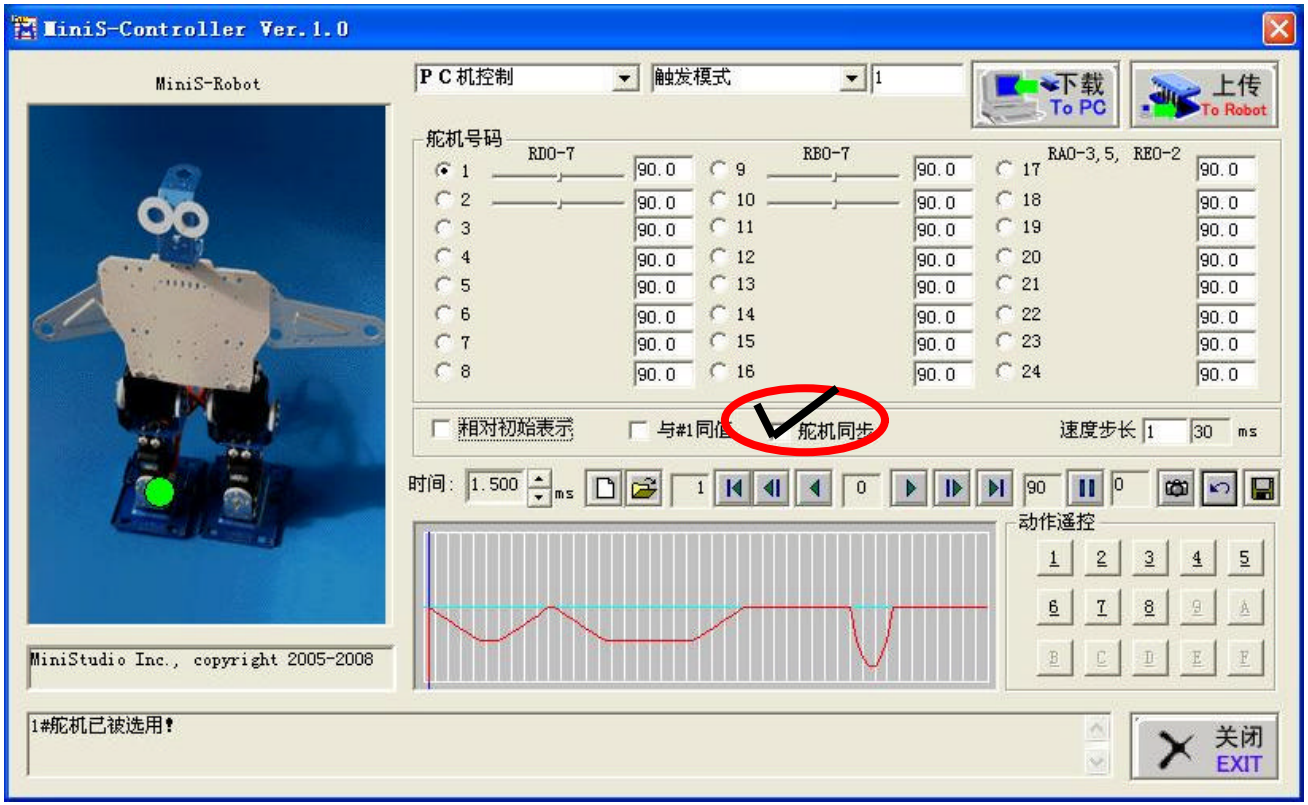
(2) It's convenient to make a shortcut in Desktop

(3) Link the serial port, if no COM port on PC

Use Z-TEK USBto232 converter

(4) Confirm the port number you are using

(2) Check on the synch



Synch can make servo work simultaneously corresponding to software Slider, spin box or Edit box setting.

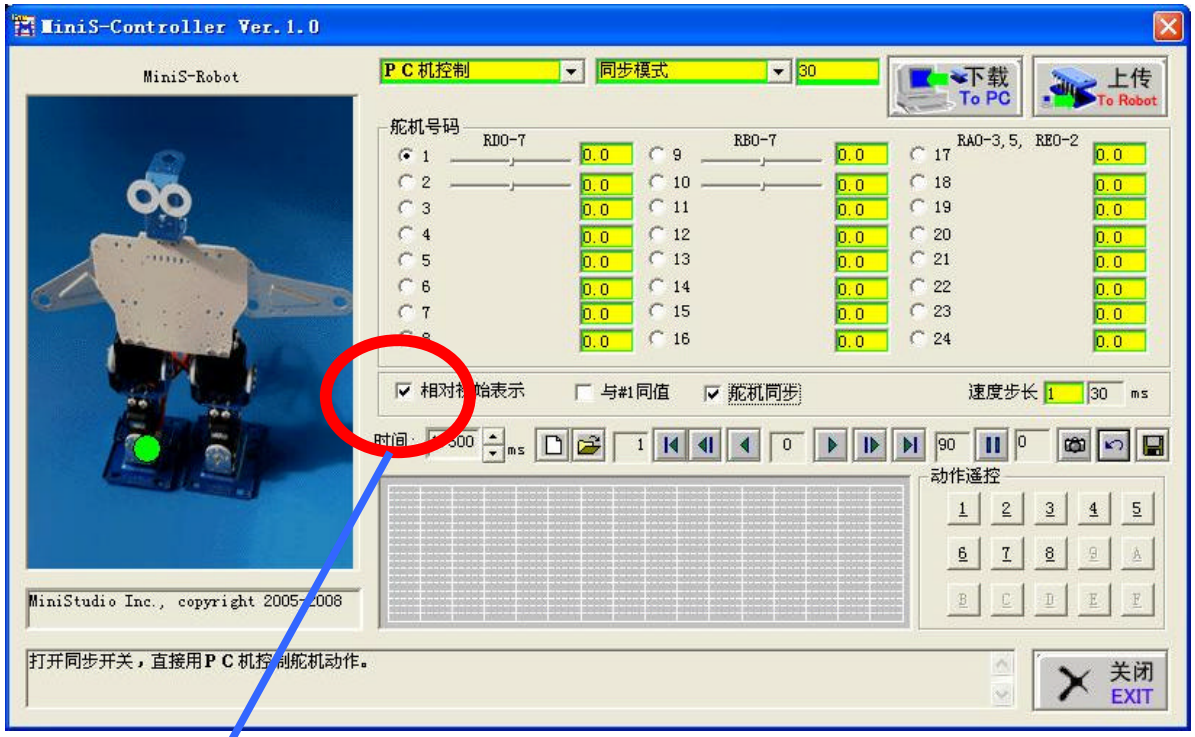
(3)Make initial and guard data

Press ”to Robot” button after you satisfy your data

Note:do not use “relative” at this time

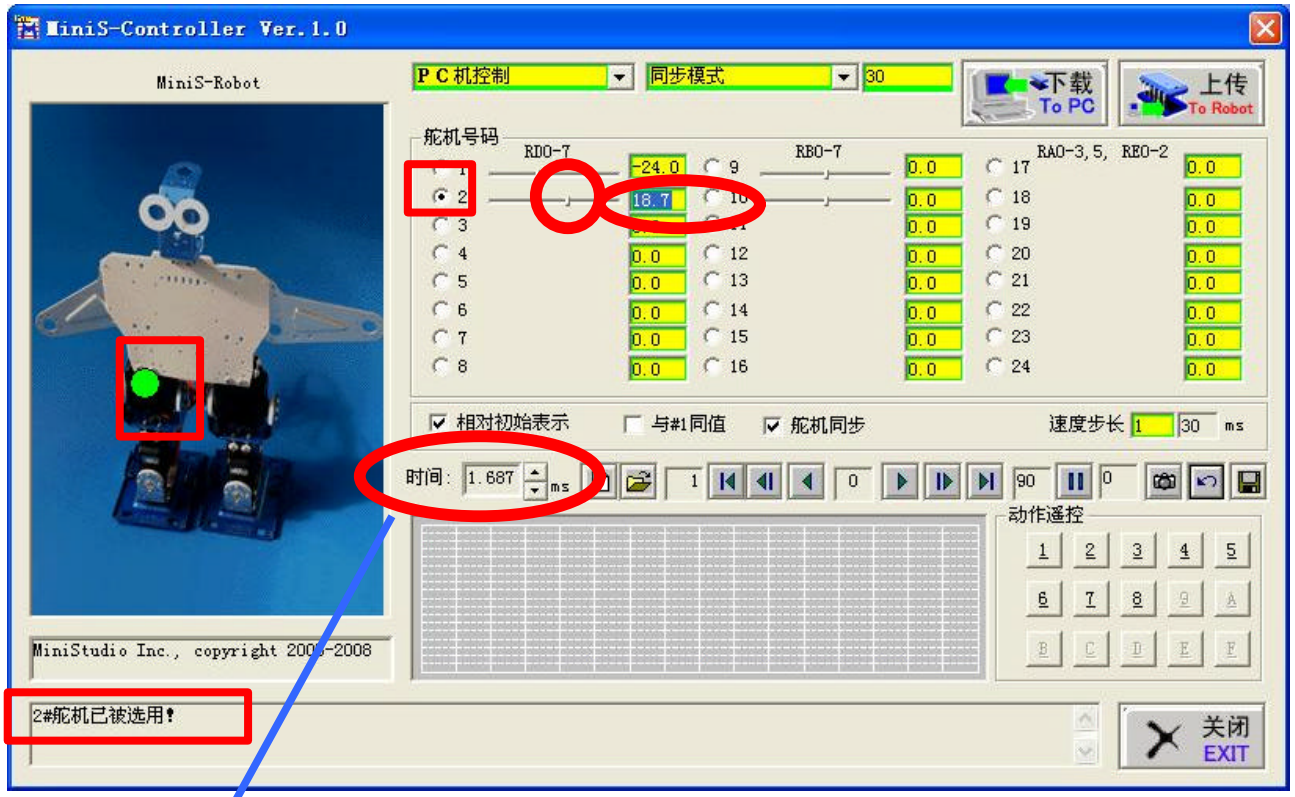
You should make a initial (home) data after you assembly your robot. Please set home, max, and min data and connect servo one by one.

(4) Use Relative function



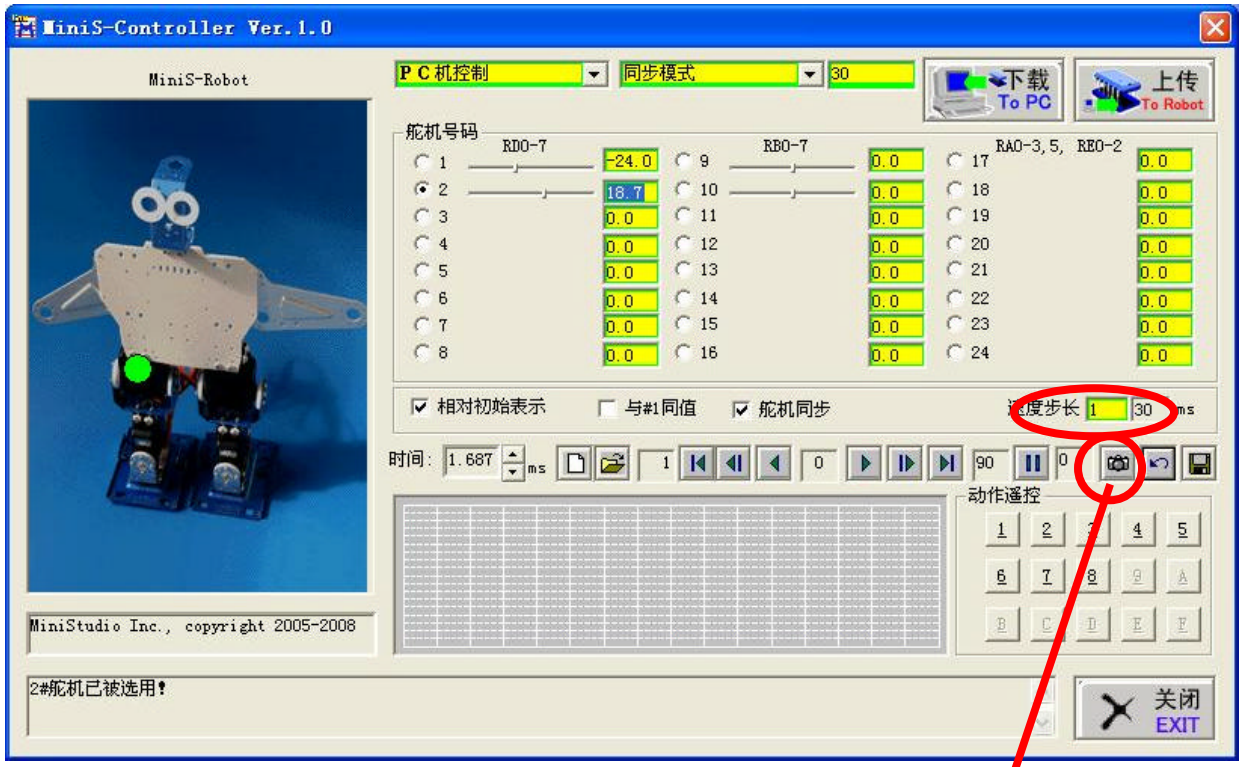
It is convenient to use this function to input data, at this state you may find the data is symmetric.

(5) Adjustment of Pose



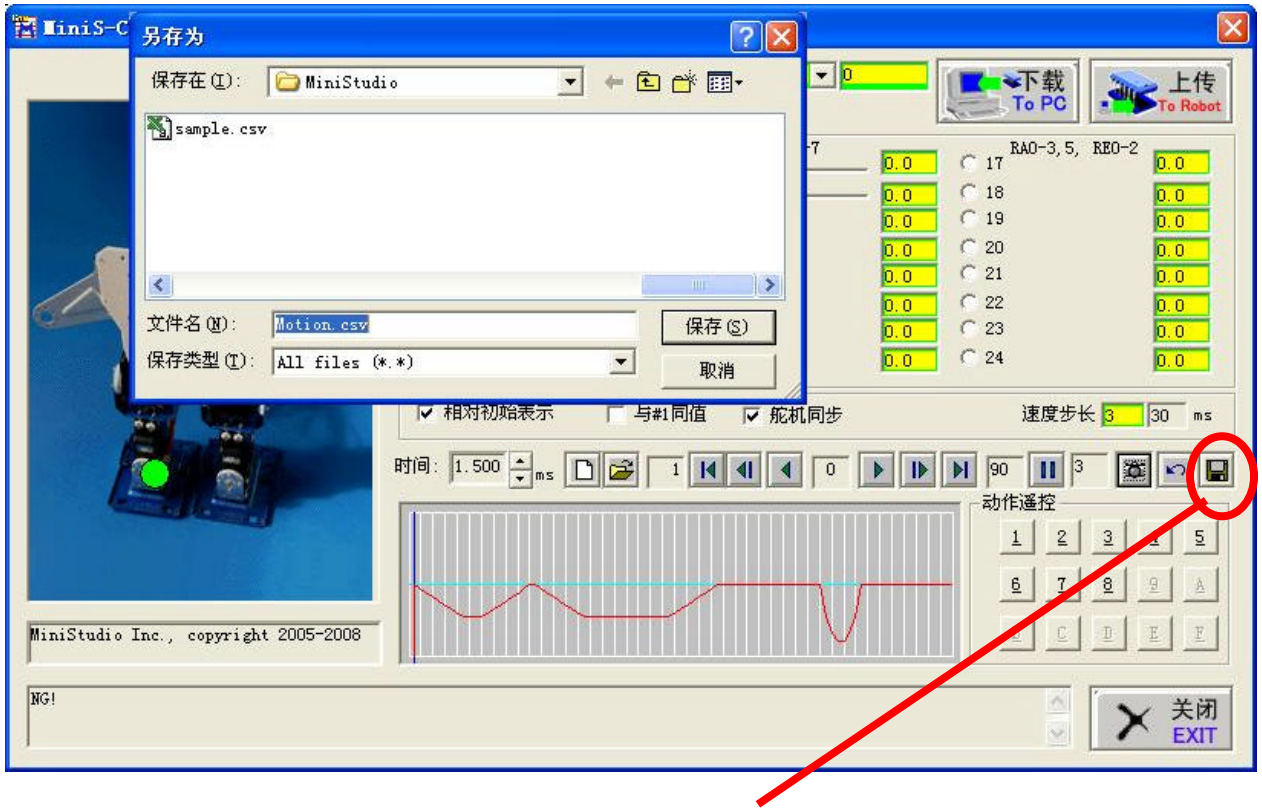
Click the picture you may find Servo position and use software Slider, spin box or Edit box setting to adjust servo angle.

(6) Capture the Pose



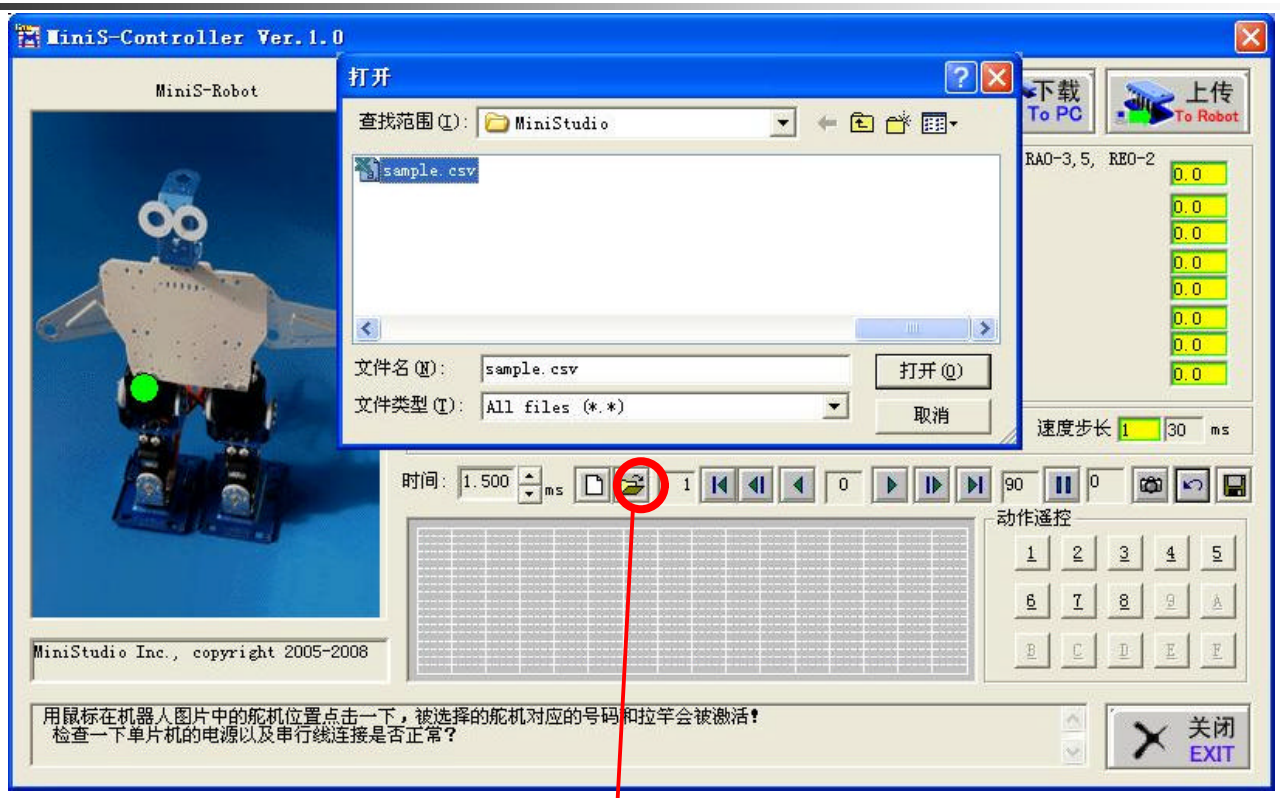
Make sure the Speed Step and use Capture button to freeze the data.

(7) Save the motion CSV data



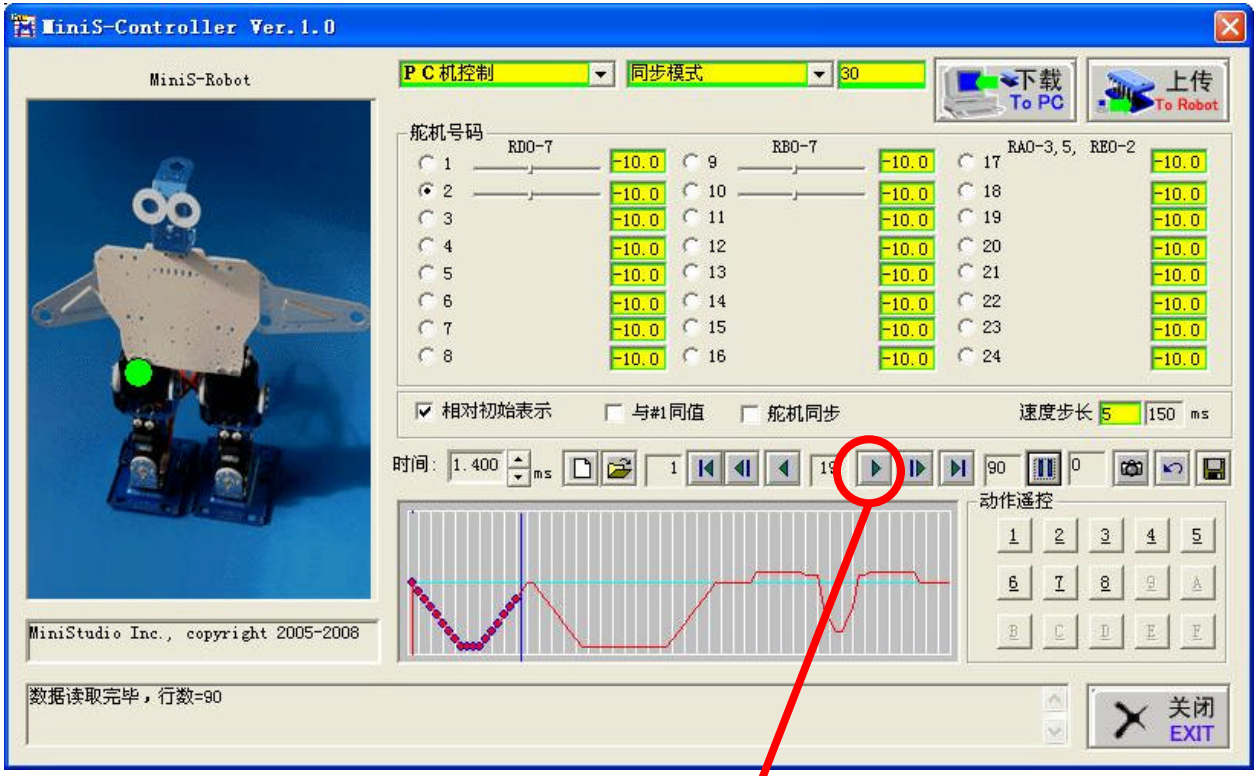
A set of pose data constitute the motion. Use save button to record to PC hard disk

(8) Read CSV File



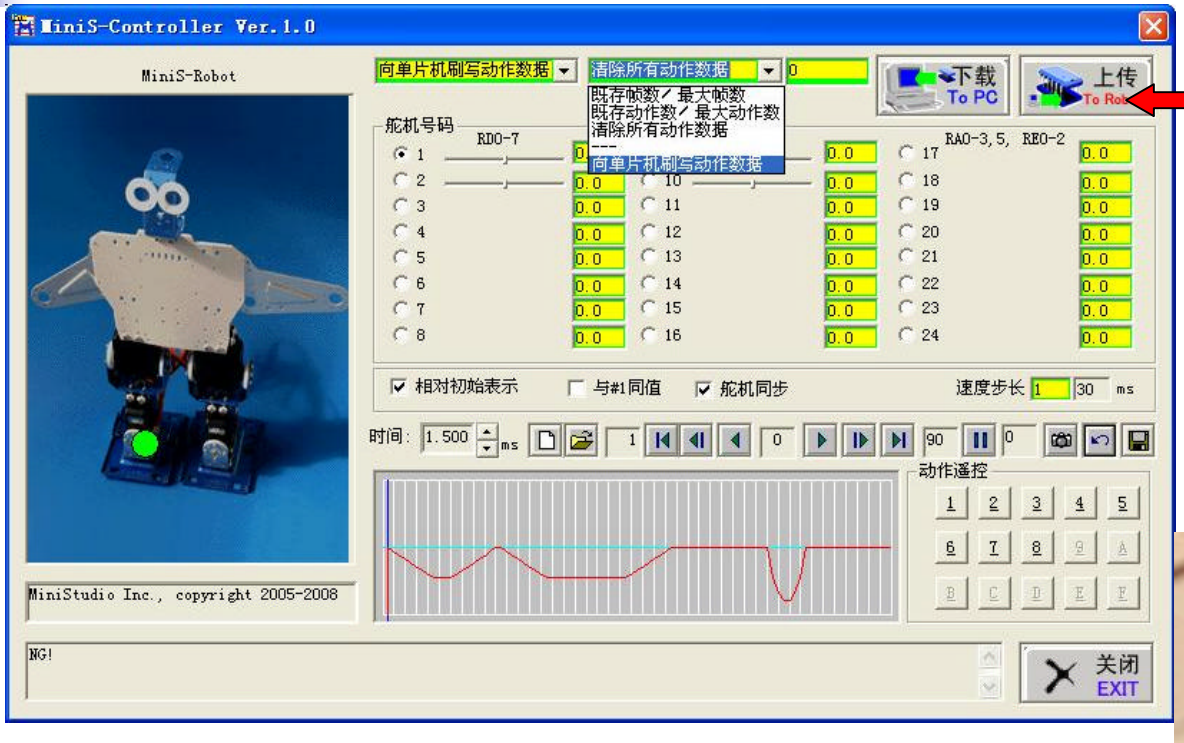
Use open button to read the data from PC

(9) Run the Motion

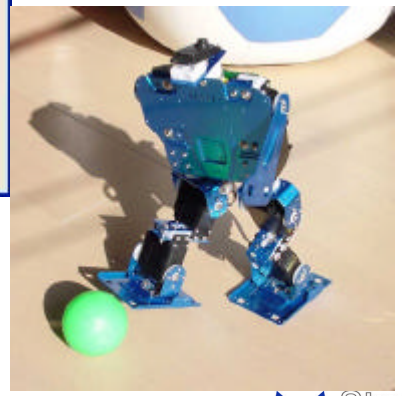


Use play button to run the motion, you may edit the CSV file by using MS Excel.

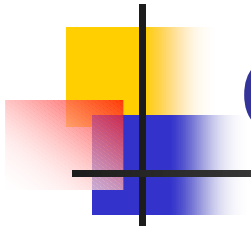
(10) Write data to PIC Chip



Press ”to Robot” button after you satisfy your data



Without PC you may also let Robot show your data



Conclusion

Thank you for your using Minis-Robot!