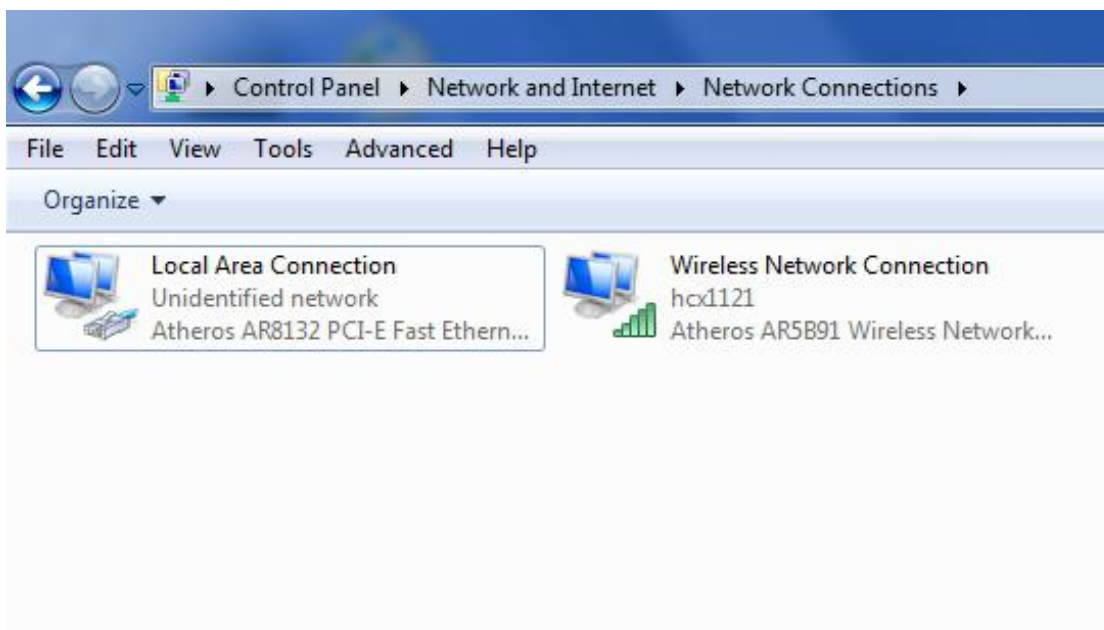
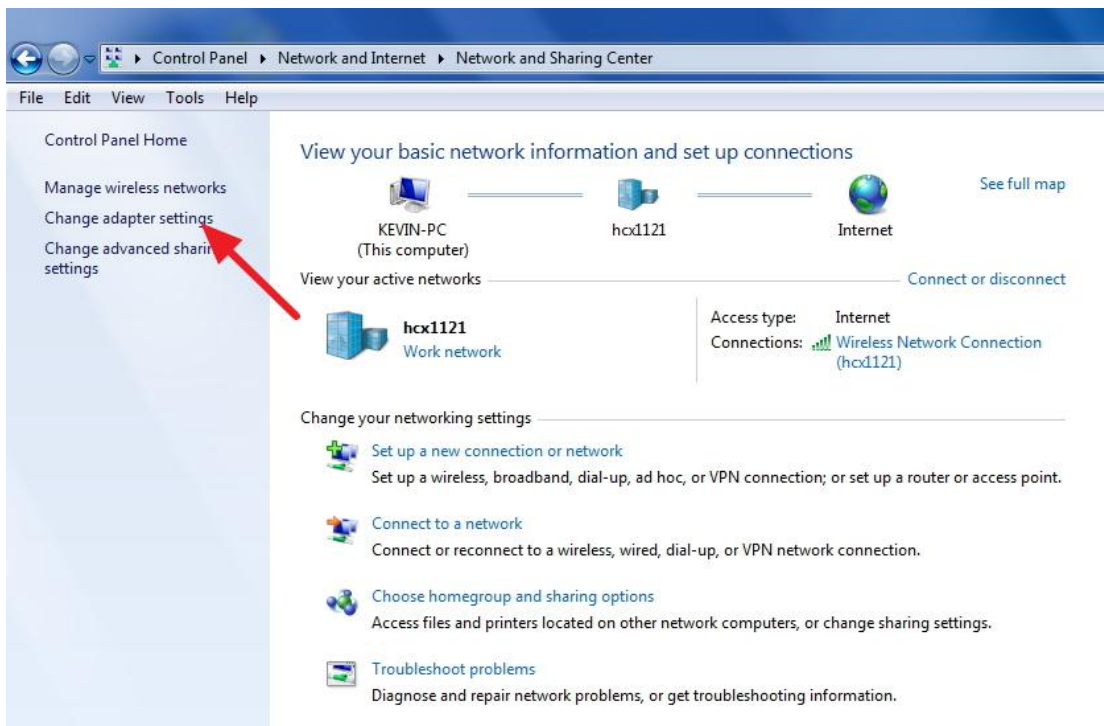


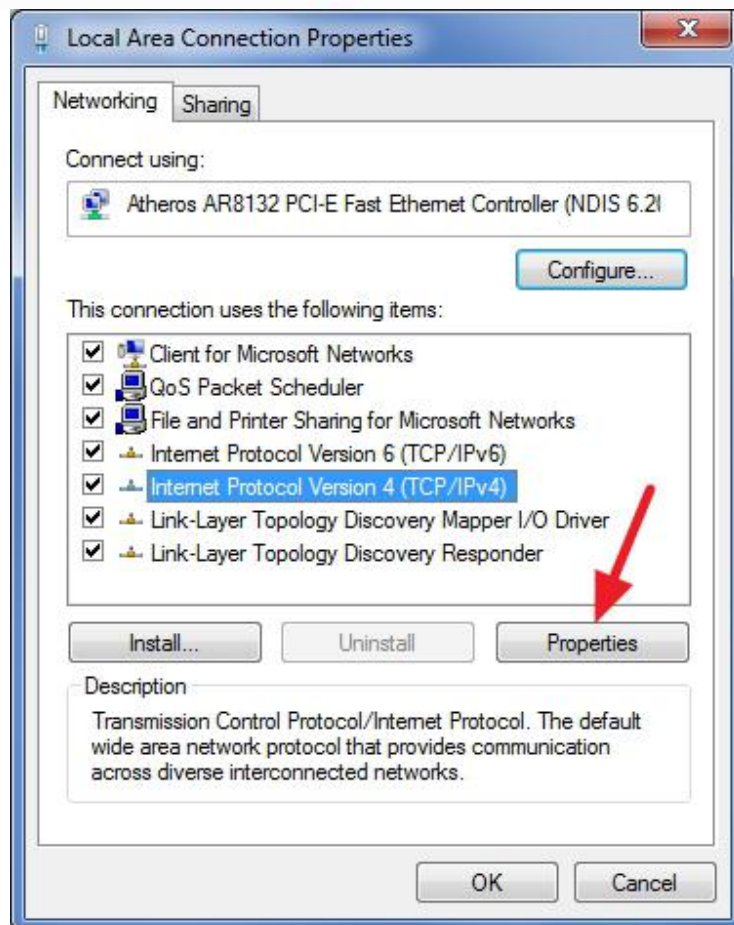
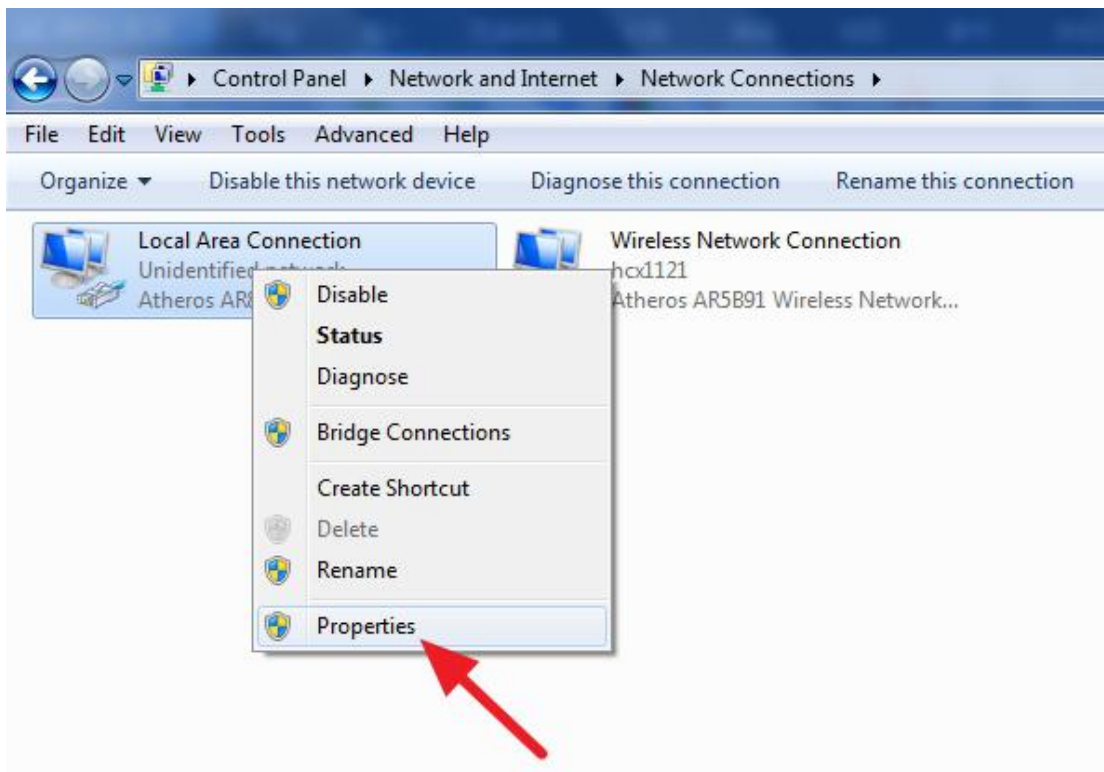
## H802RA Manual

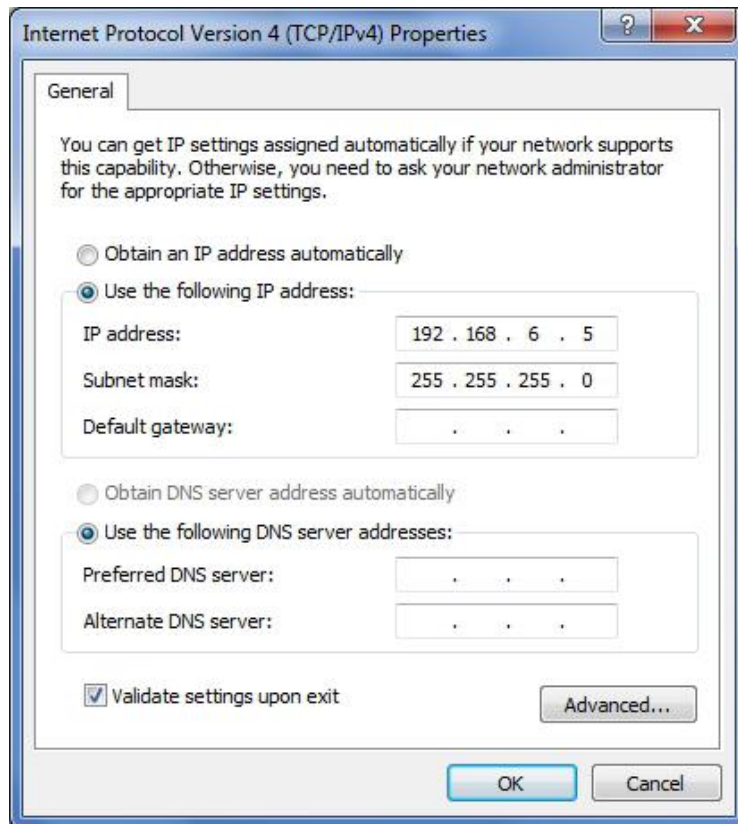
Connect H802RA to computer with crossover network cable and power on H802RA.



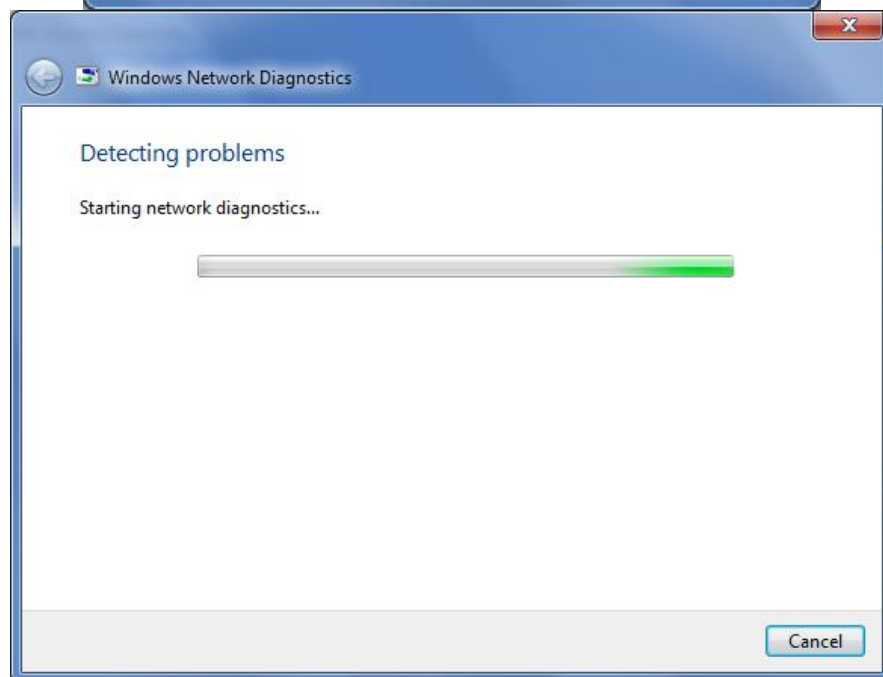
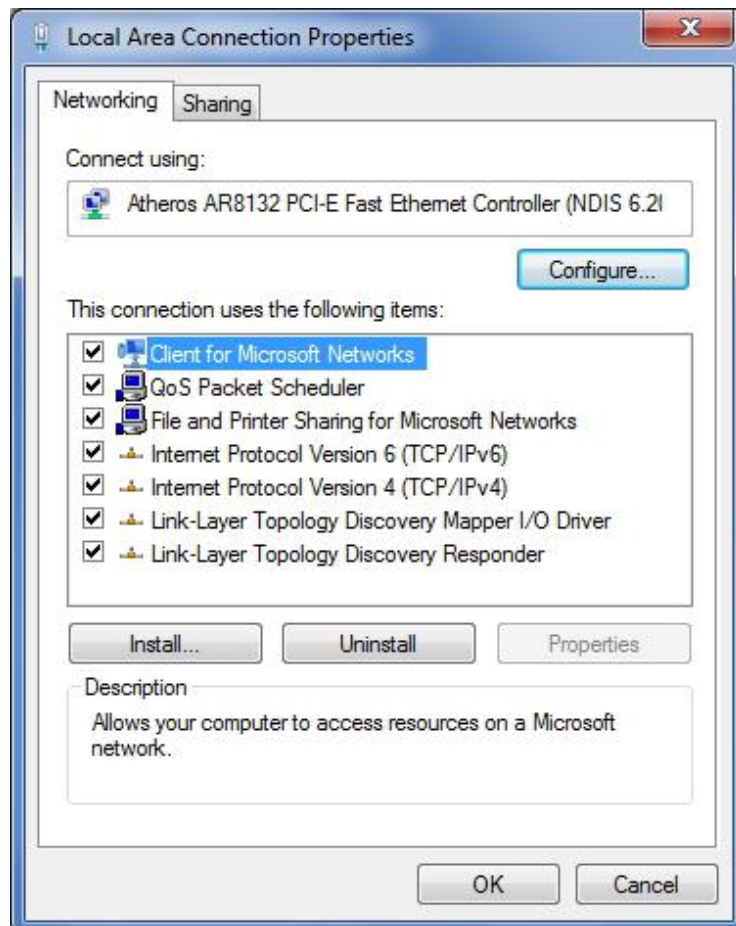
Network and Internet Setting





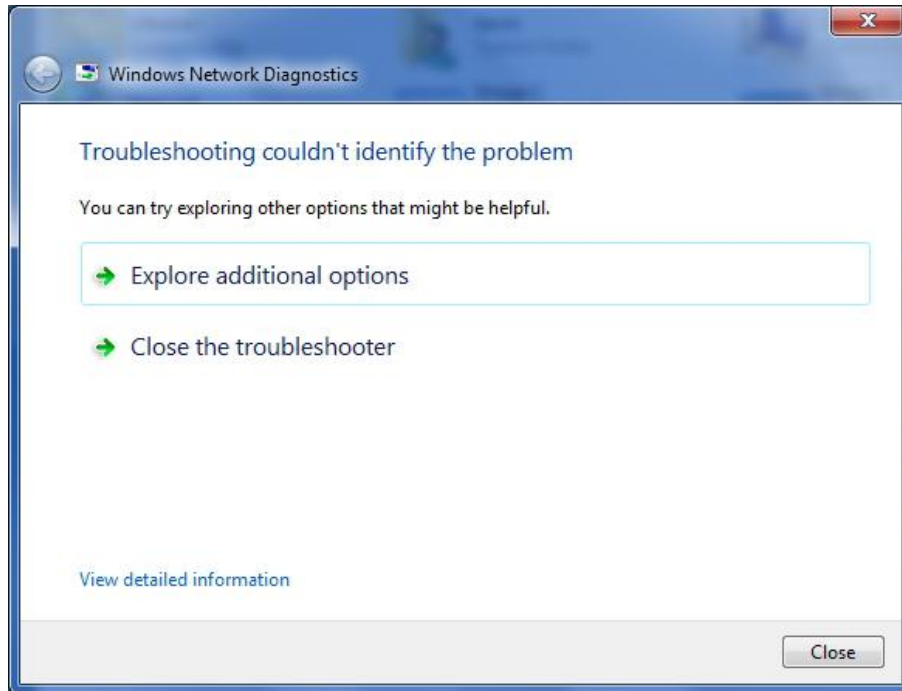


Click "OK".

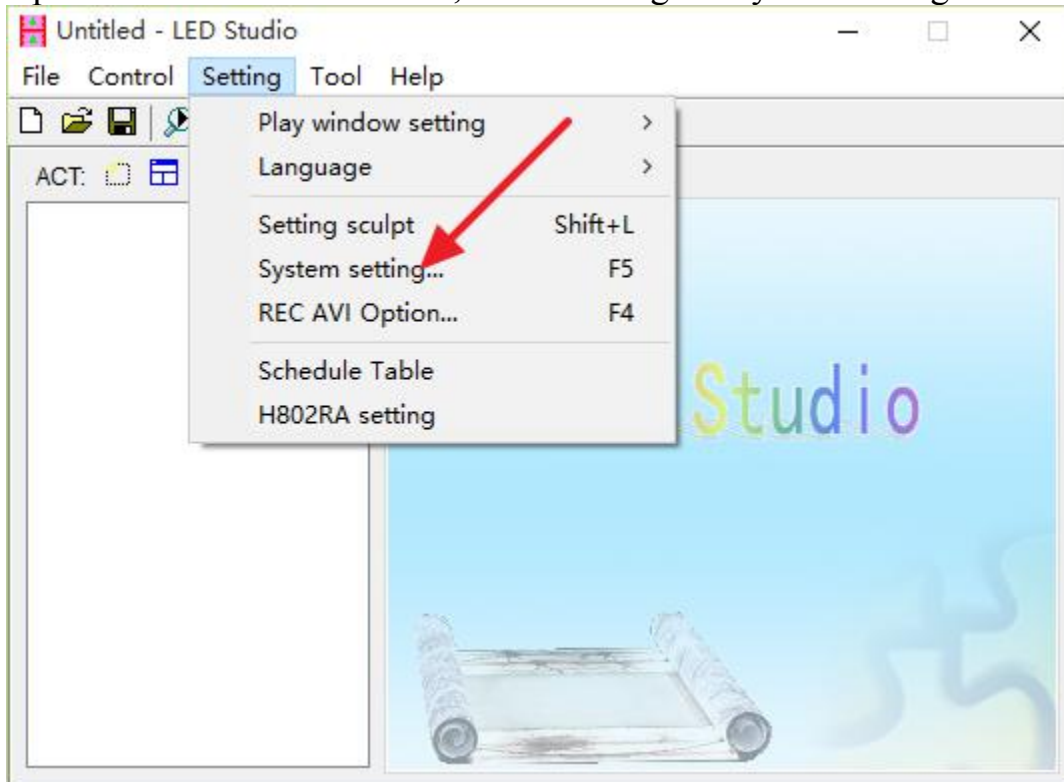


Click “close”.

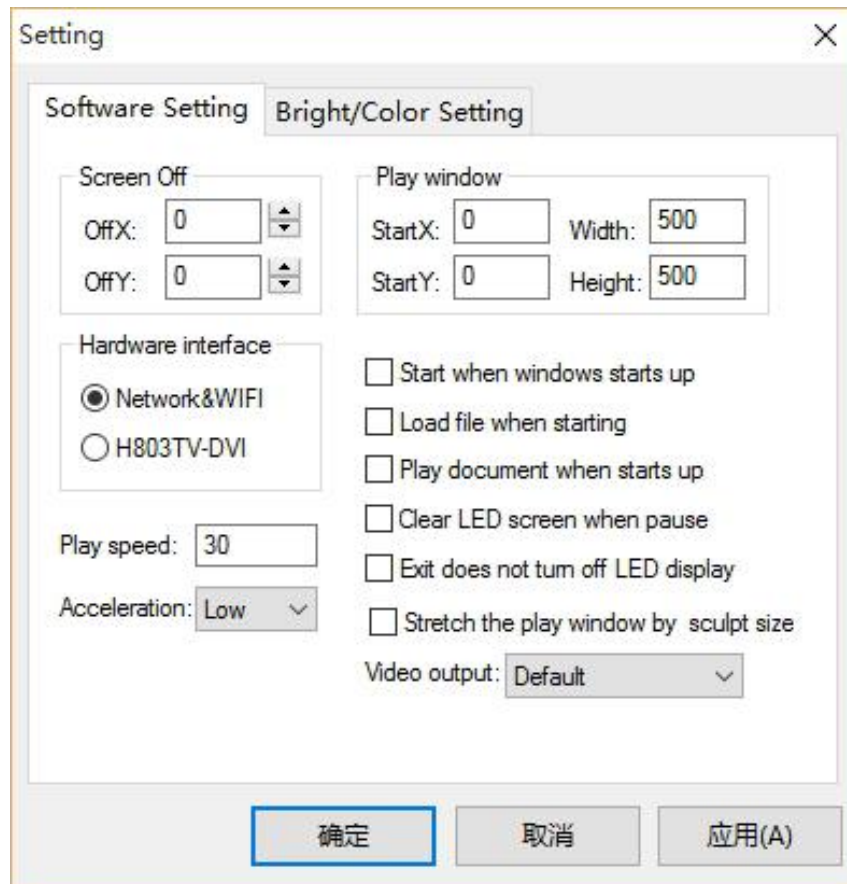




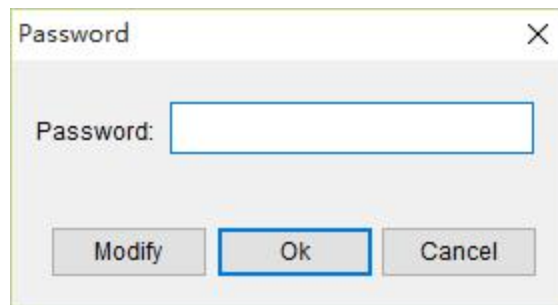
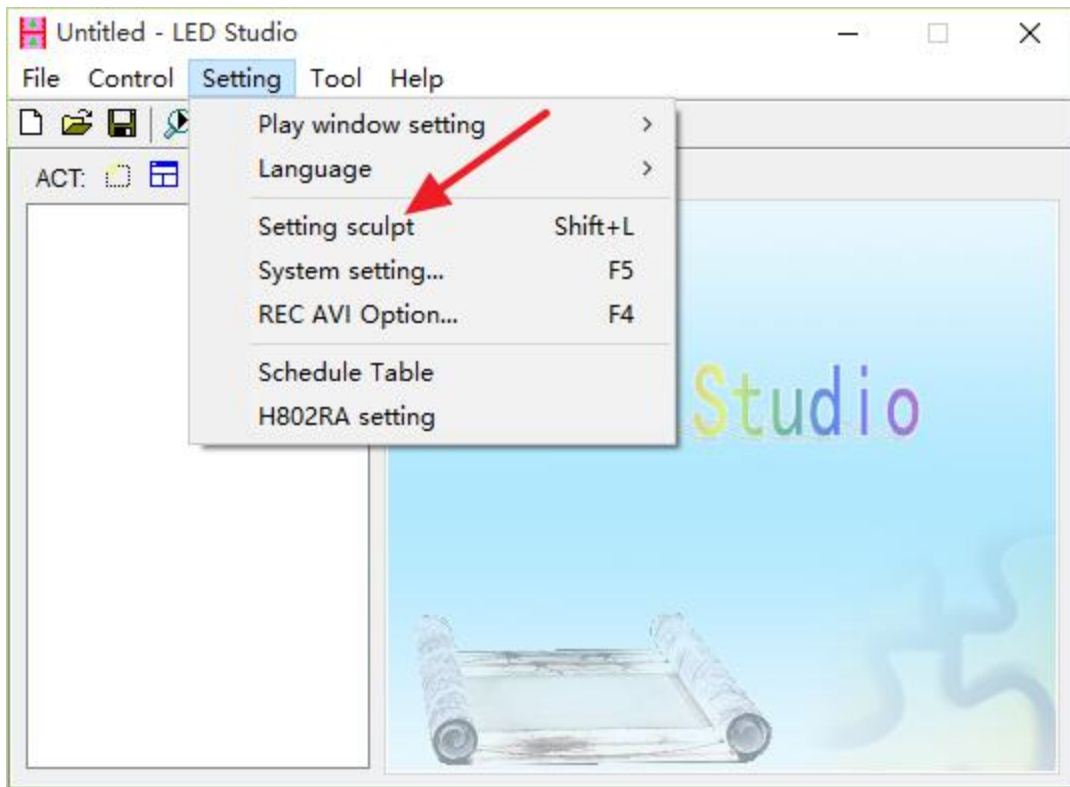
Open “LED Studio Software”, click “setting”-- “system setting”.



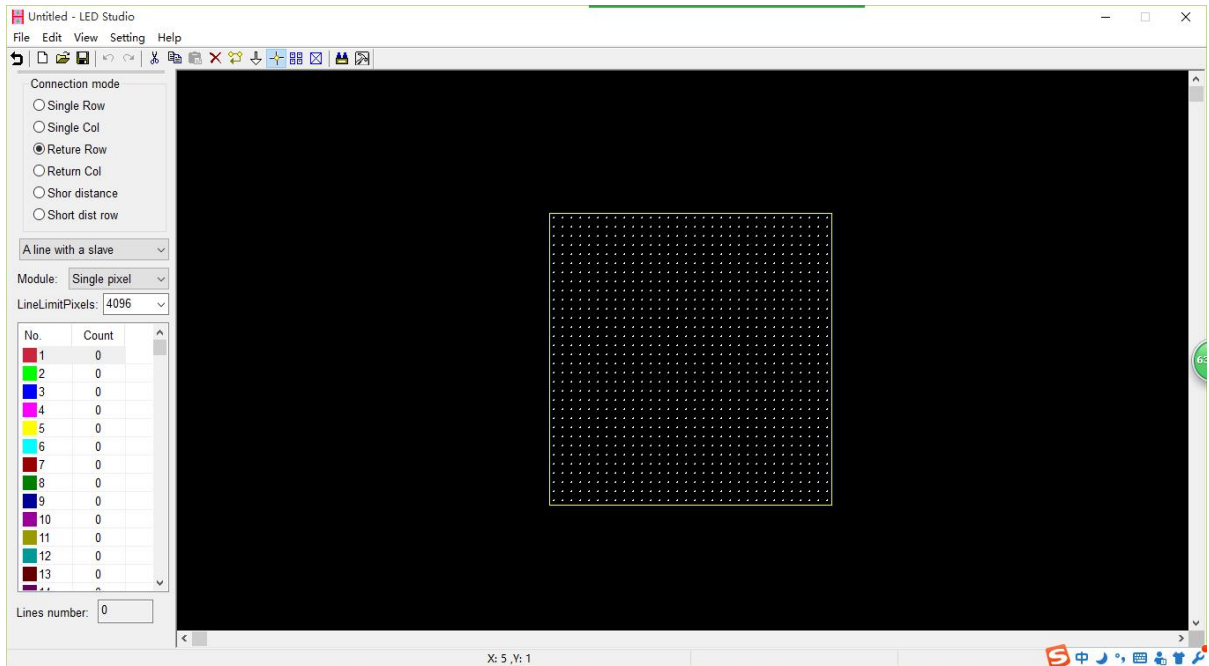
For H802RA, Hardware interface must be “Network&WIFI”, if it’s not, choose “Network&WIFI”, click “Apply”-- “OK”, then restart software.



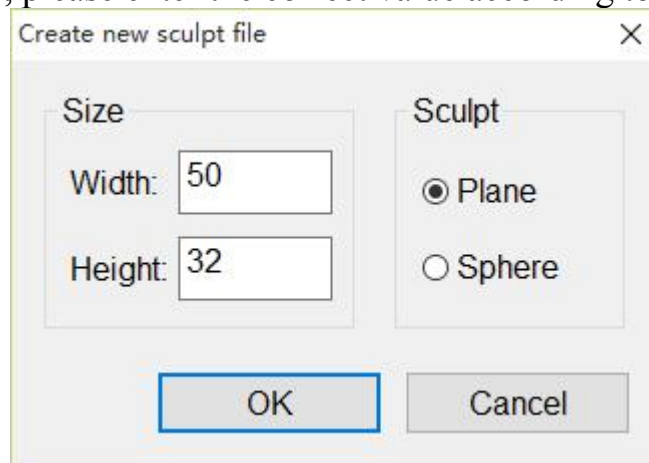
Then click “setting”-- “setting sculpt”, click “OK” to enter sculpt setting window.

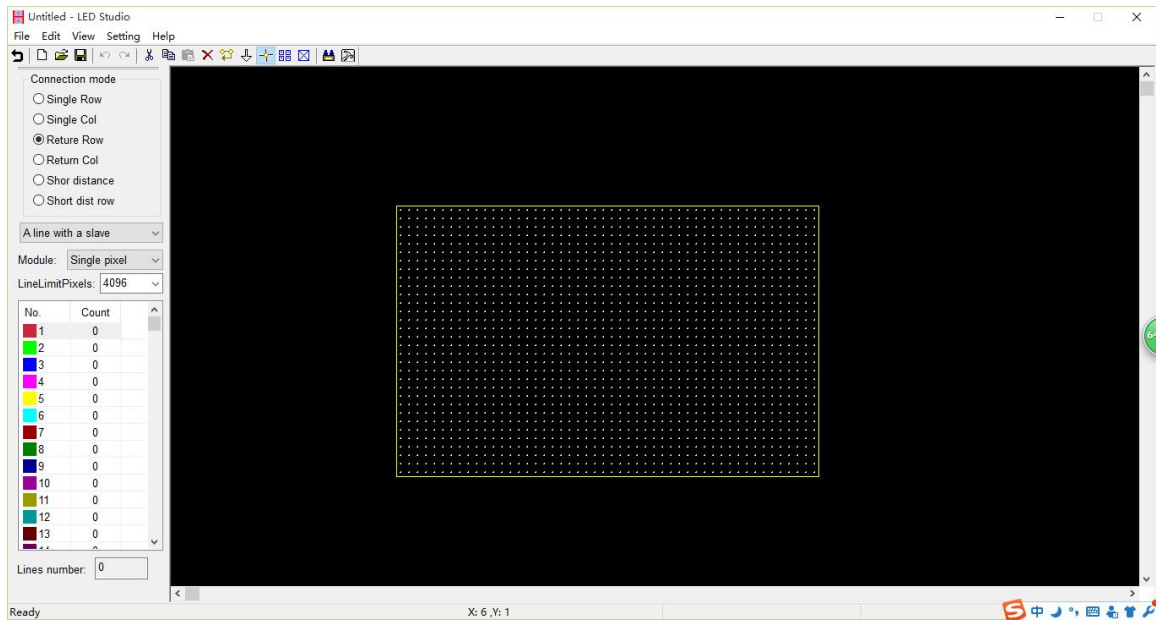




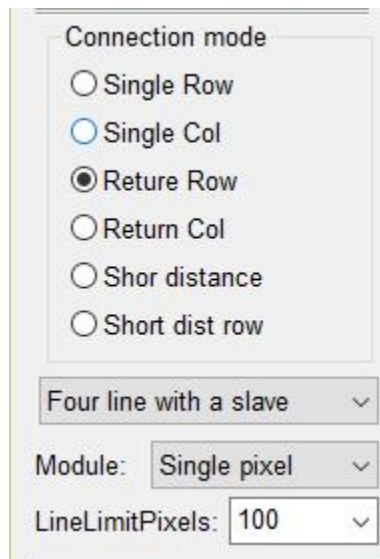


Click “File”-- “New” to create a new sculpt. (The following configuration is just for example, please enter the correct value according to actual project).





Connection Mode:

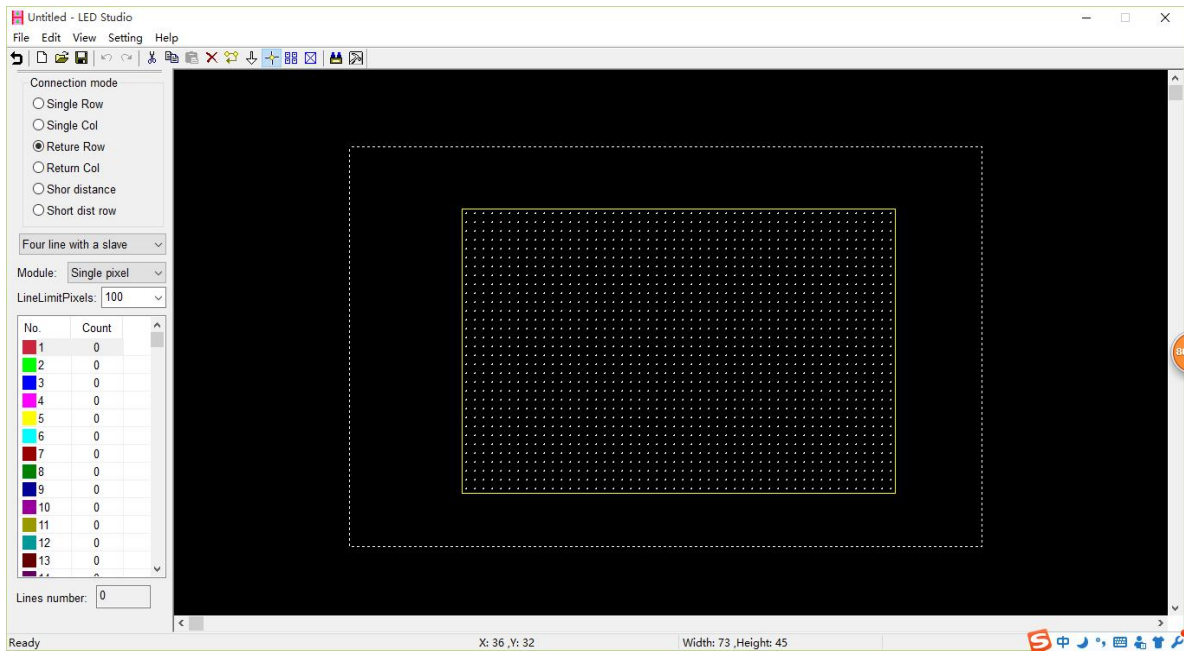


For H802RA, choose “one line with a slave”(use only 1 port of each H802RA) or “four line with a slave”(use 4 ports of each H802RA).

Module: Single pixel.

Line Limit Pixels: to limit number of pixels connected to each port.

Then rectangular select the mapping from left top corner to right bottom corner.



Pixels are added to the sculpt(notice the left):

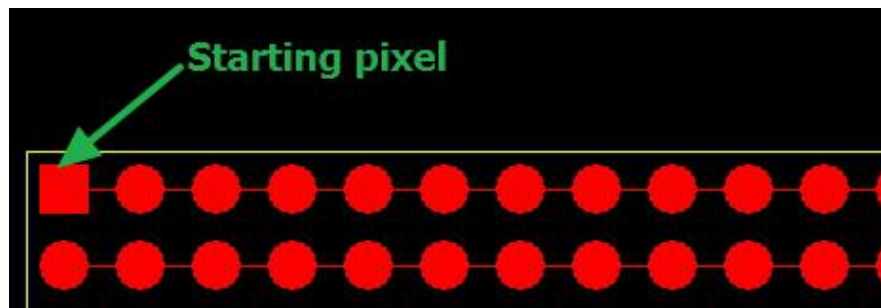


No.	Count
1	100
2	100
3	100
4	100
5	100
6	100
7	100
8	100
9	100
10	100
11	100
12	100
13	100
14	100

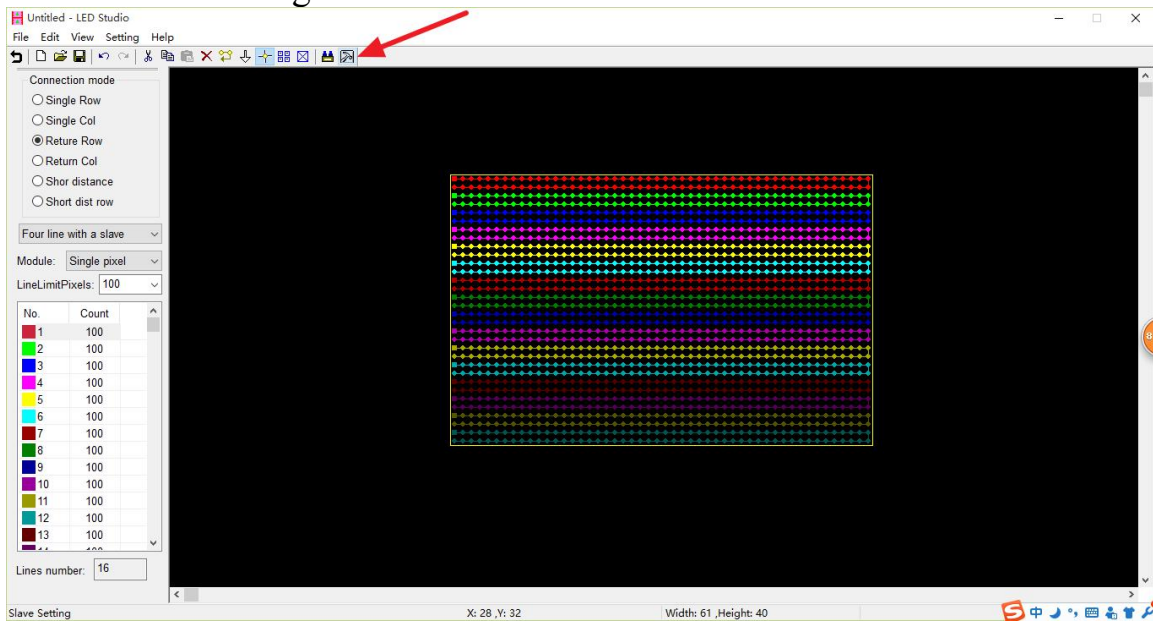
Lines number: 16

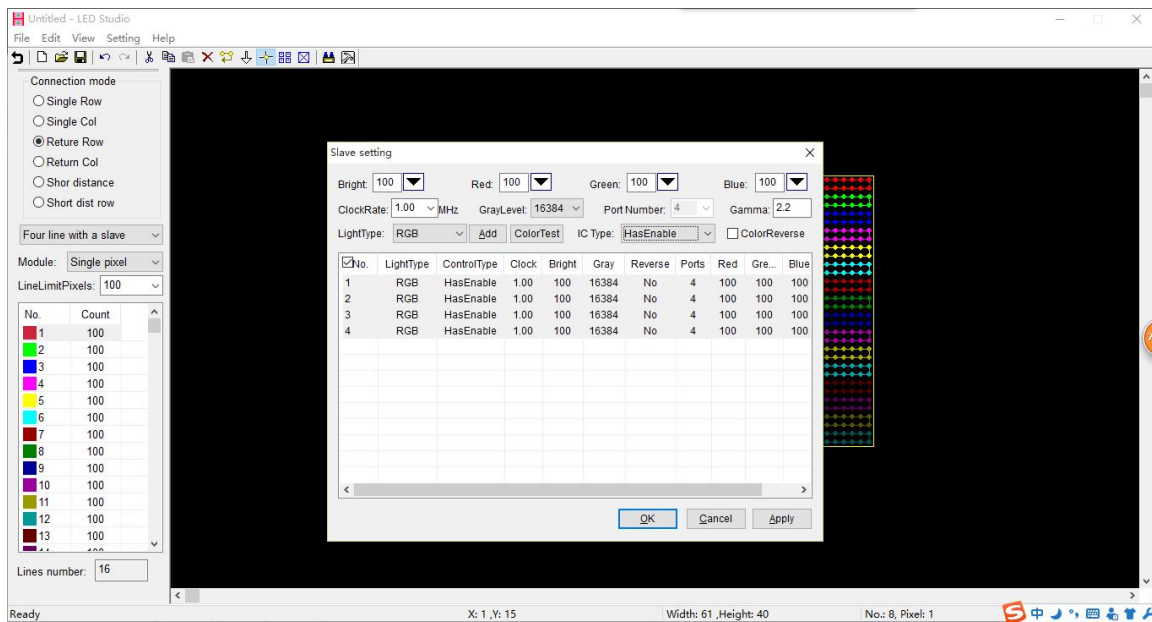
Pixels number of first port

the first port

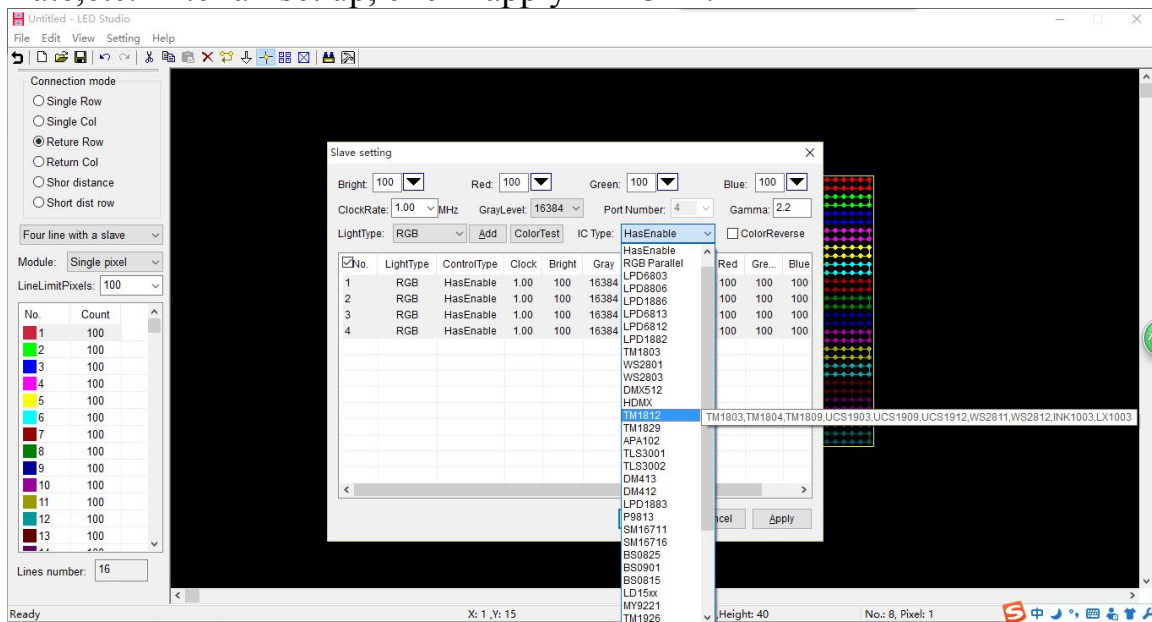


Click “Slave Setting”:

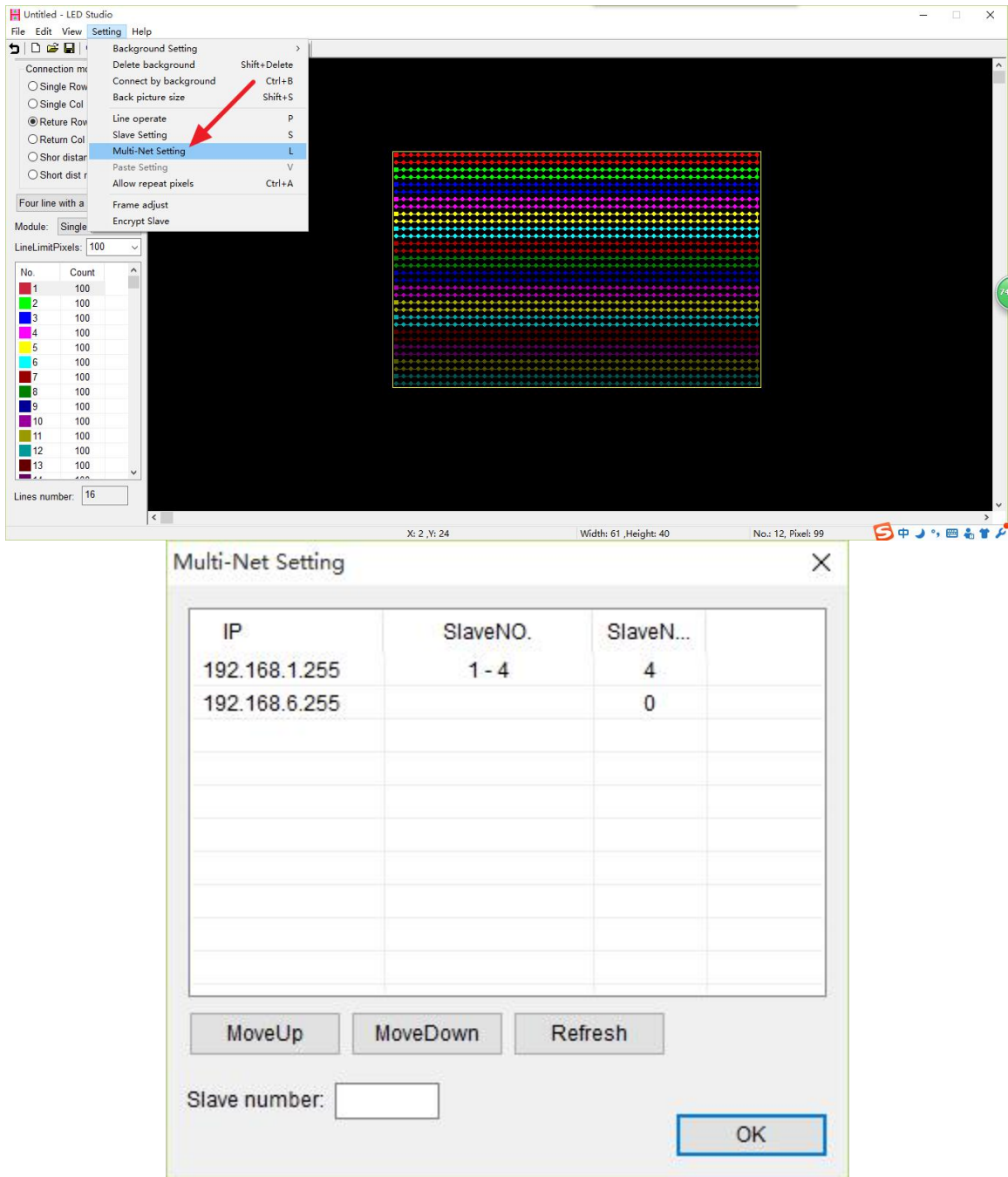




Choose IC Type (many chips share the same option), Light Type, and Clock Rate,etc. After all set up, click “apply”-- “OK”.



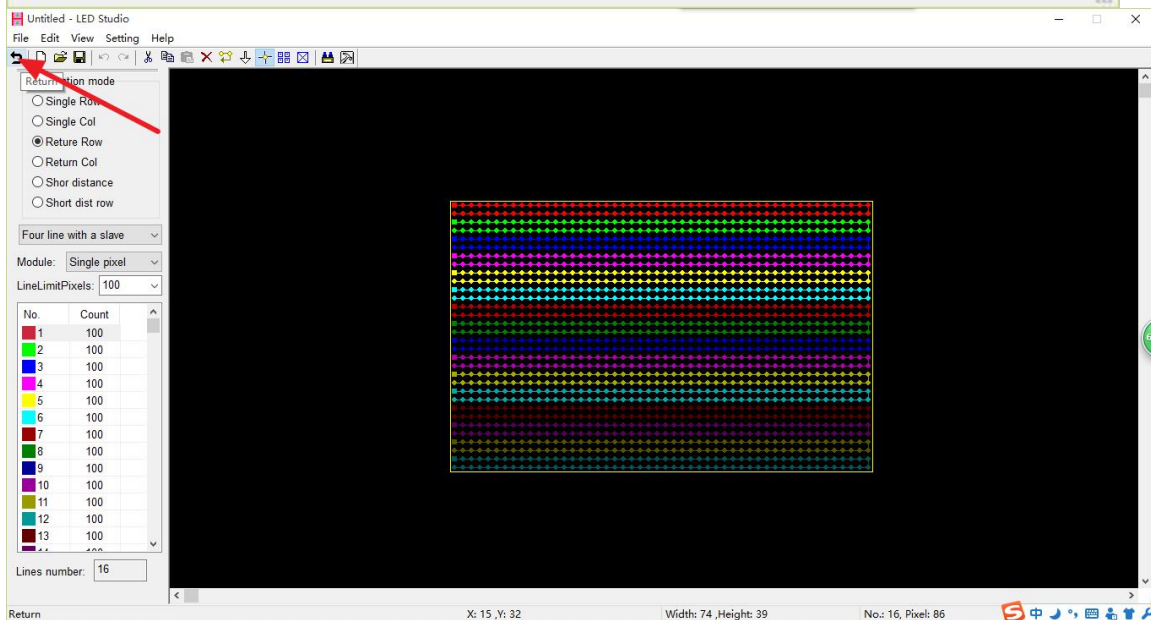
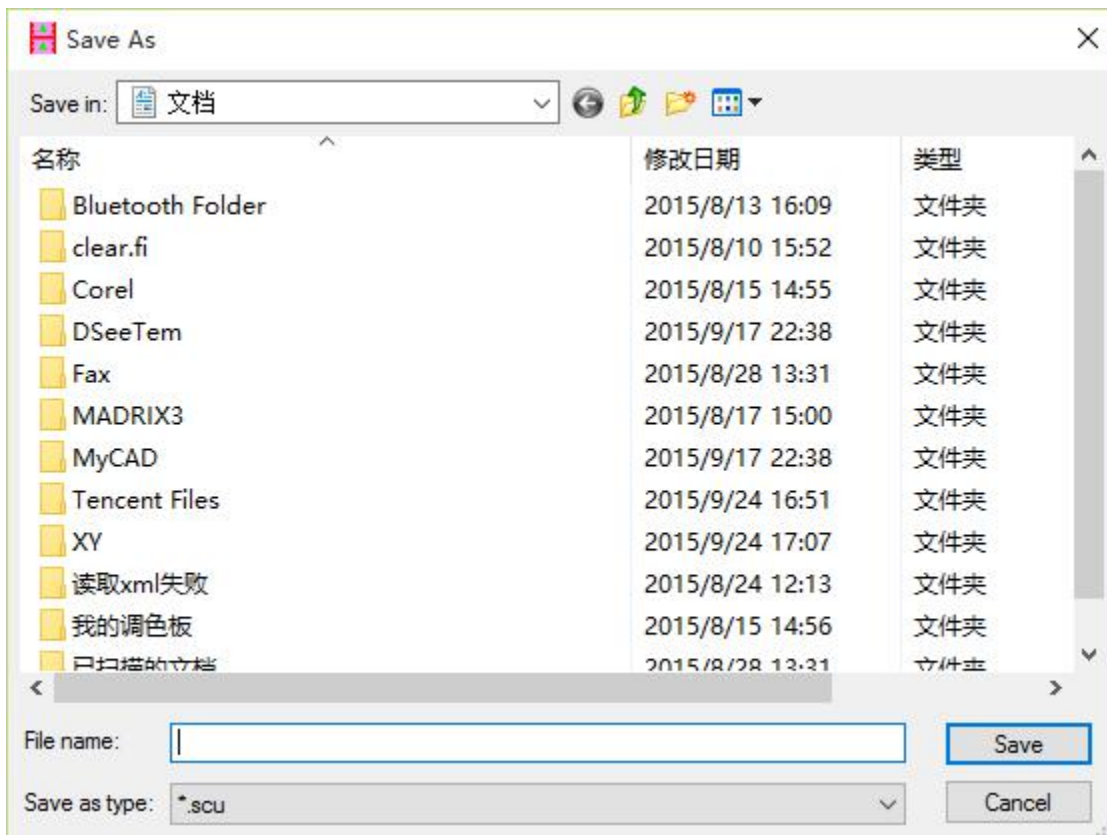
Click “Setting”-- “Multi-Net Setting”

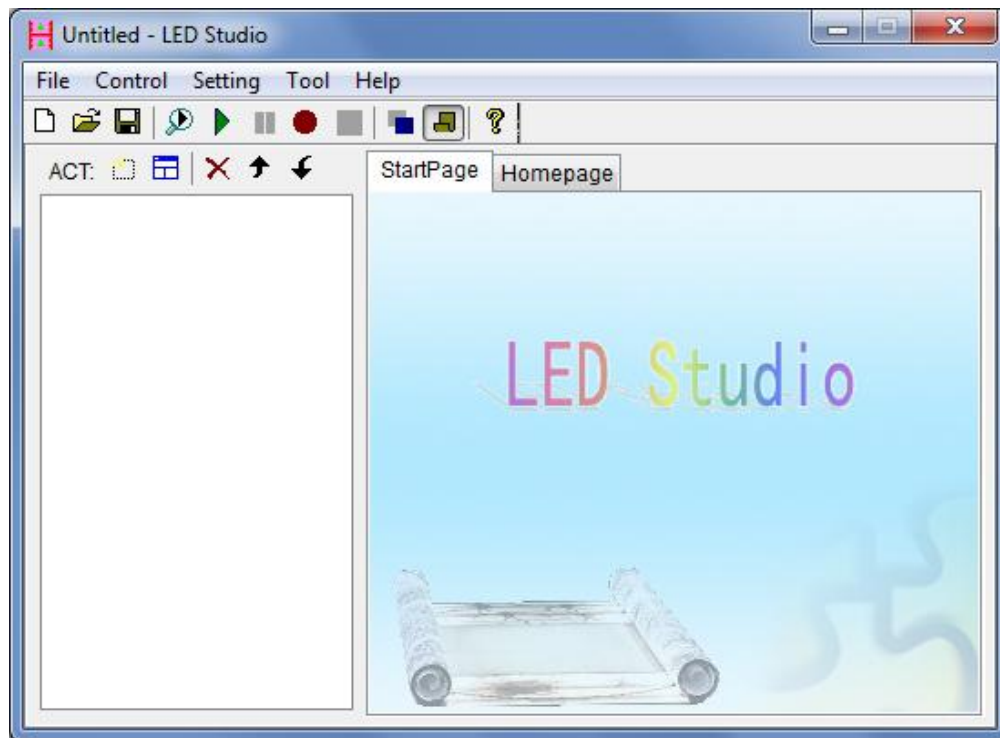


Distribute controllers for the specified IP address, then click “OK”:

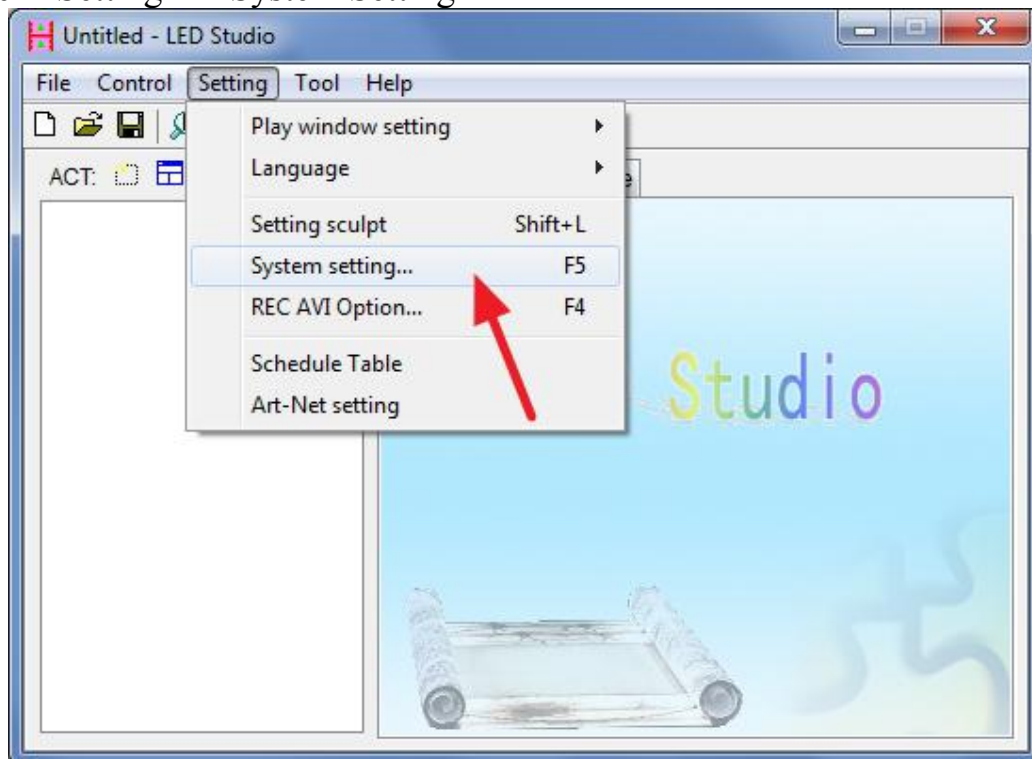


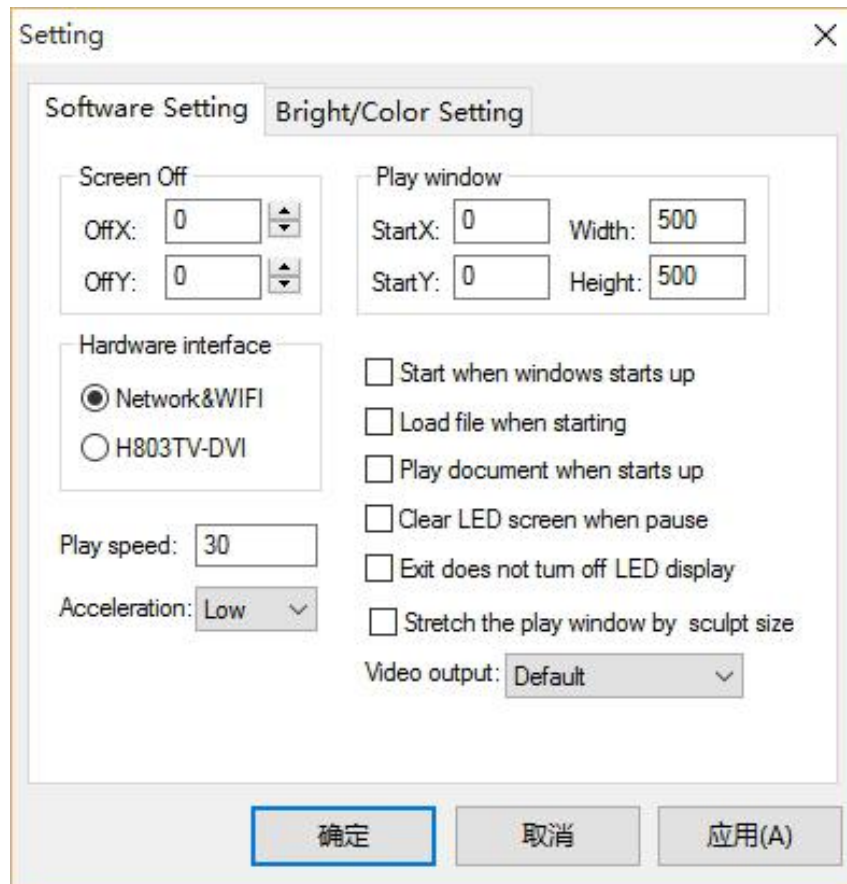




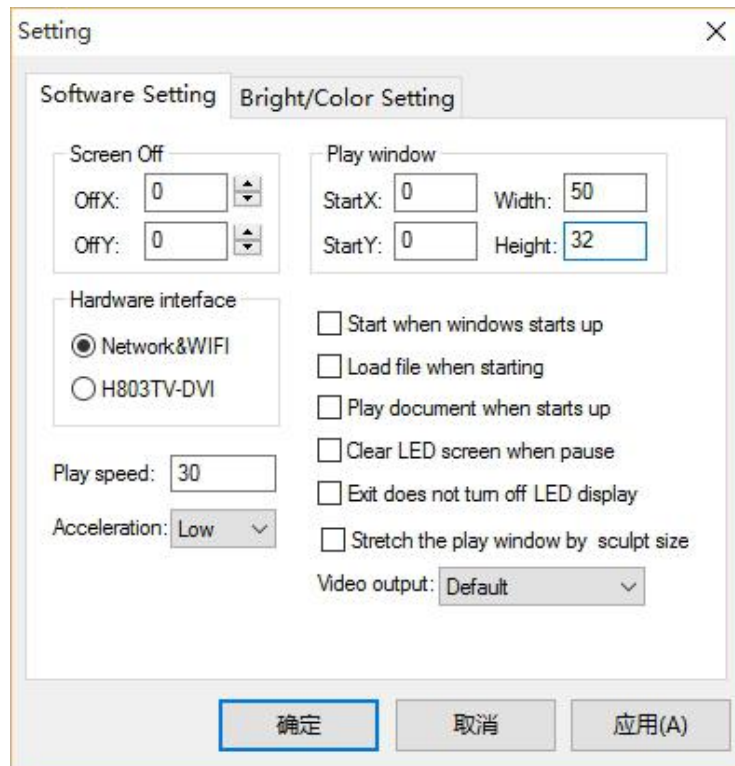


Click "Setting"-- "System Setting"

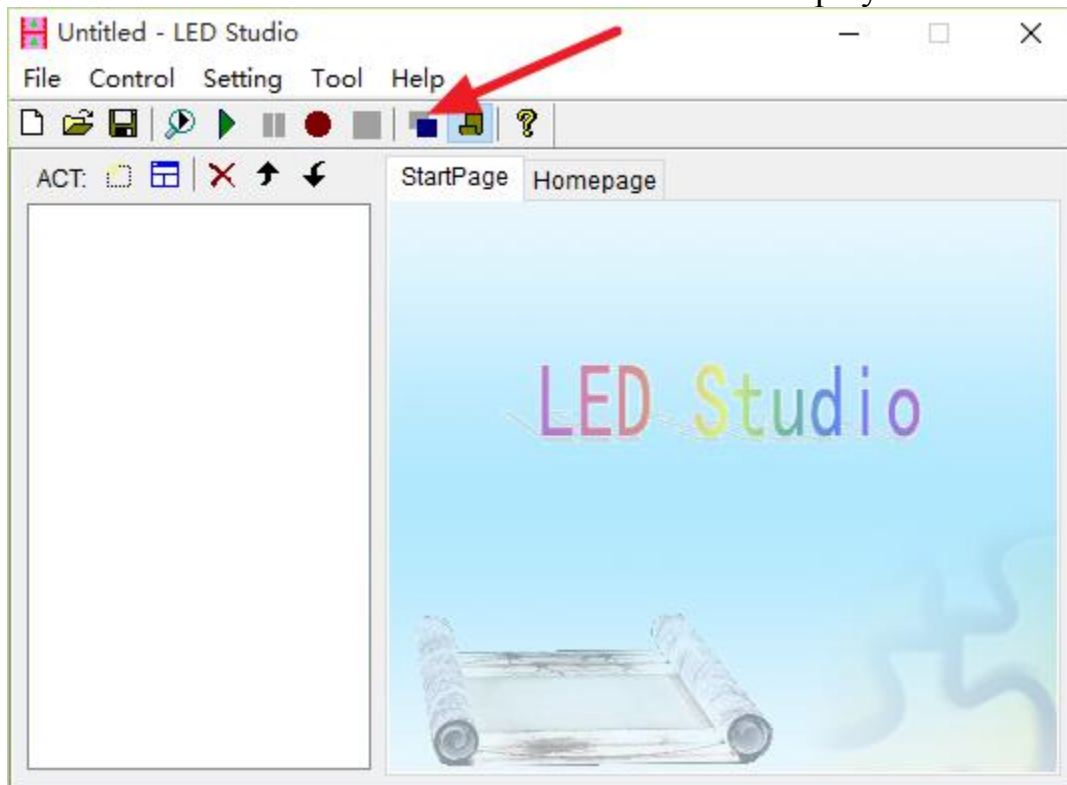


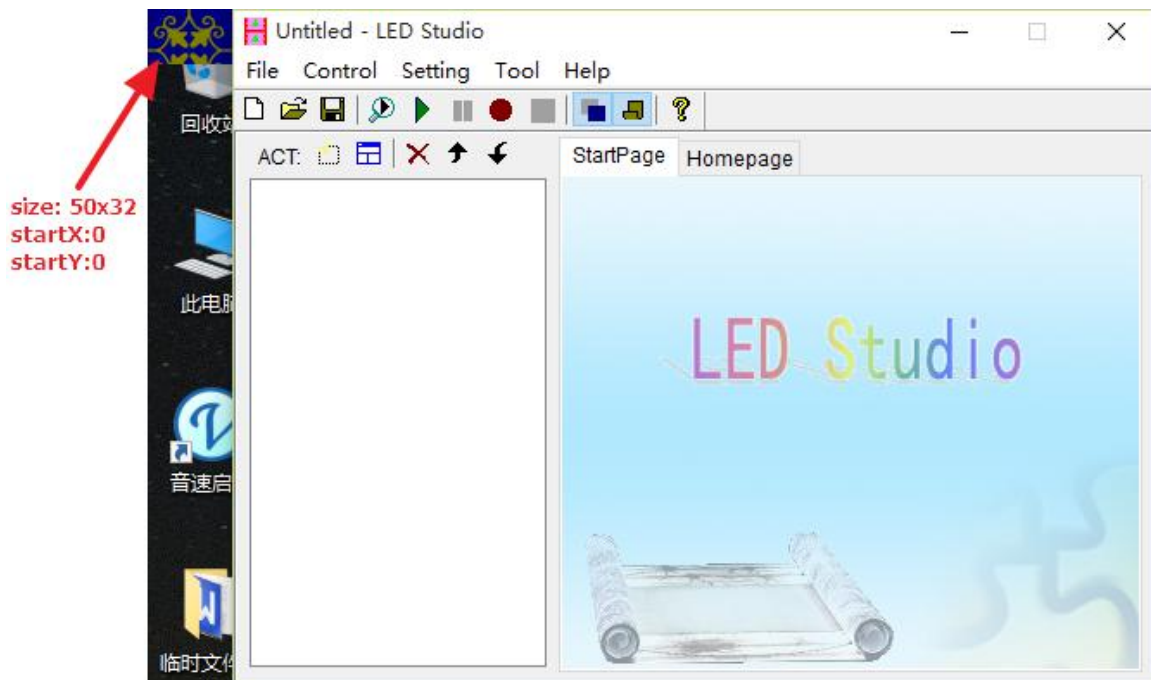


We can set the StartX, StartY of play window to 0,0. The Width and Height is the same or bigger than the size of sculpt. Here we set them to 50, 32. Then click “Apply”-- “OK”.

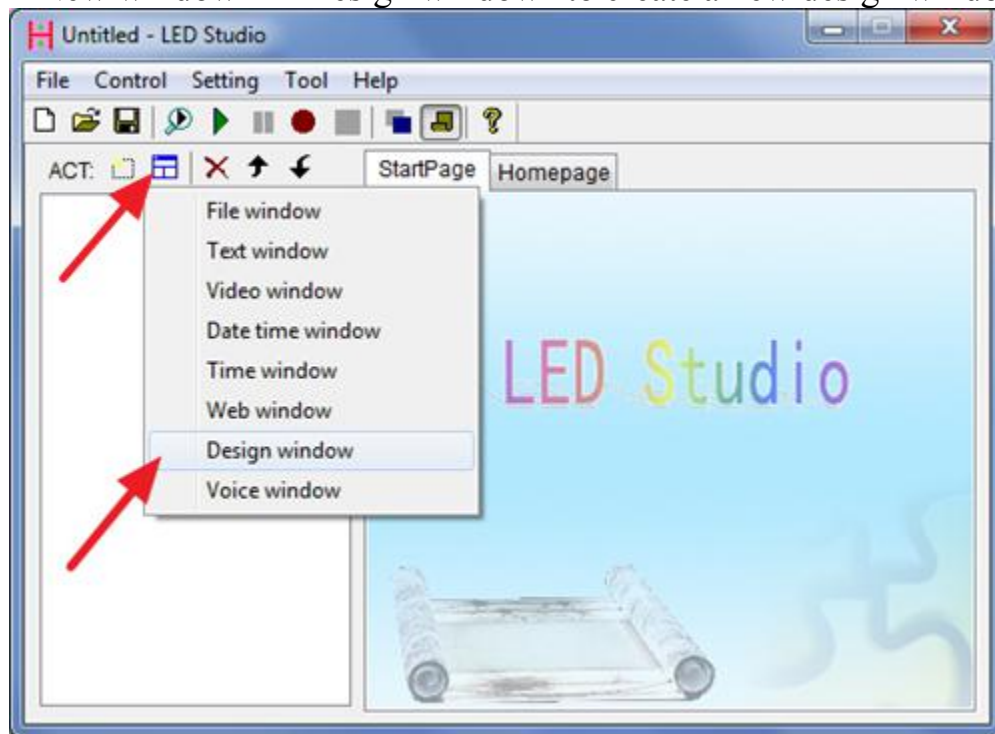


You can click “show or hide screen” to show or hide the play window.

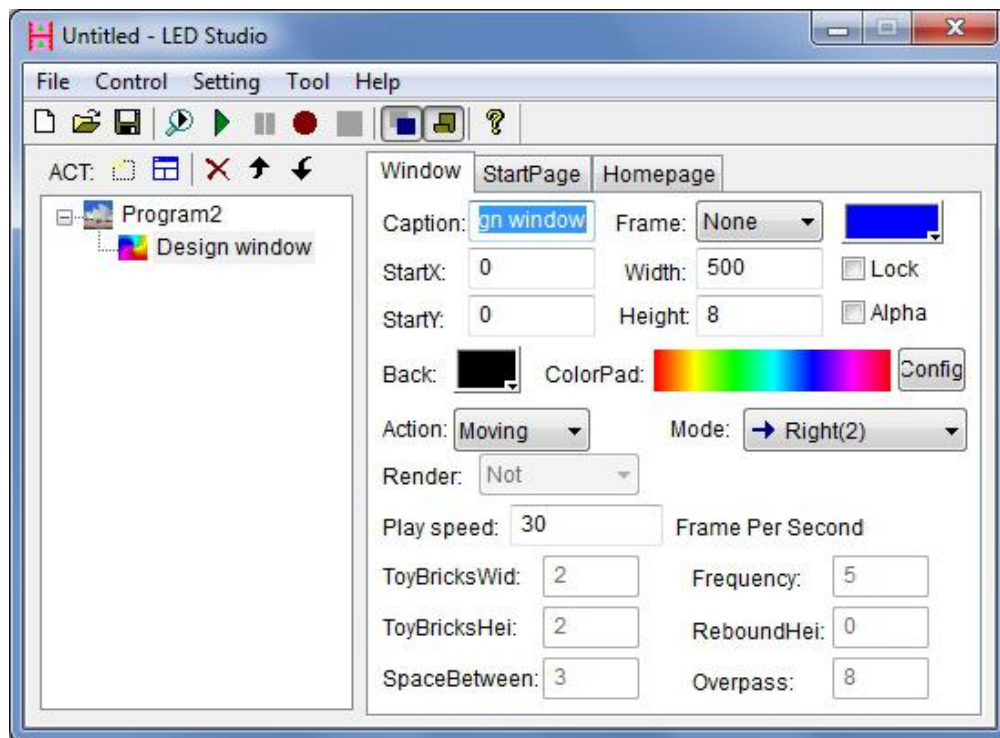




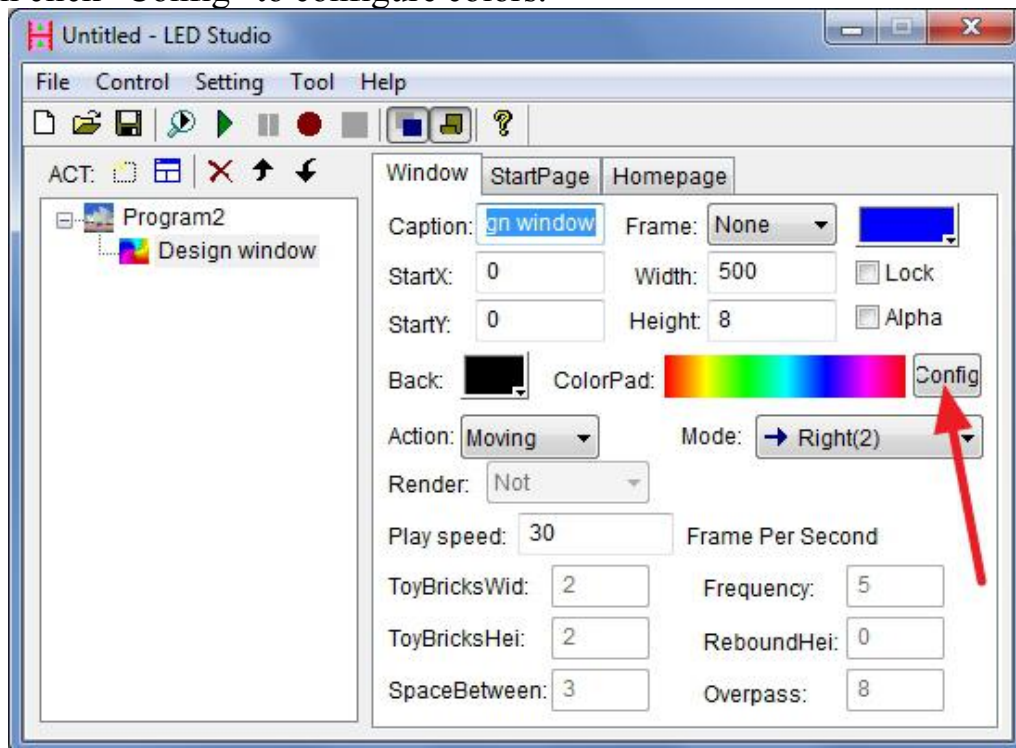
Click “New window”-- “Design window” to create a new design window.

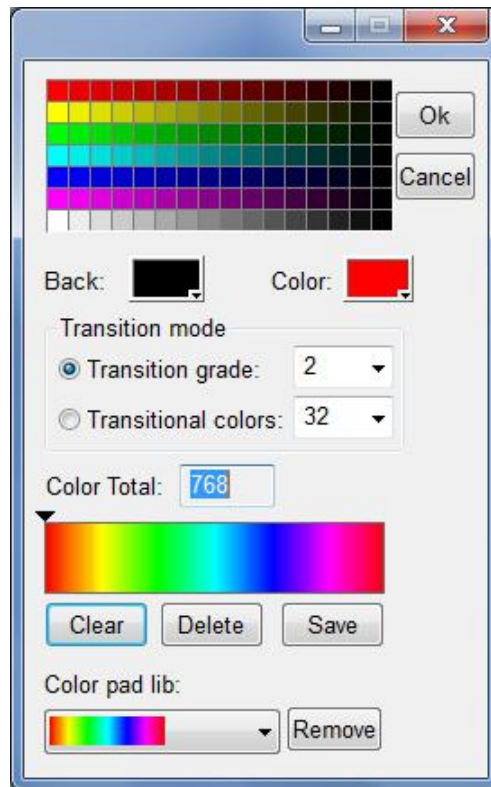




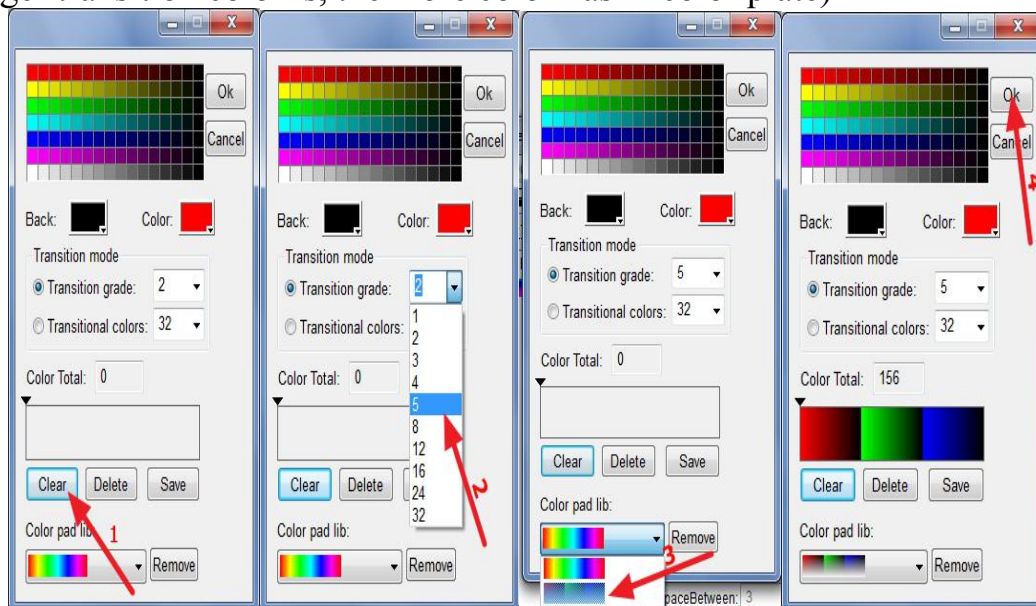


Then click “Config” to configure colors.

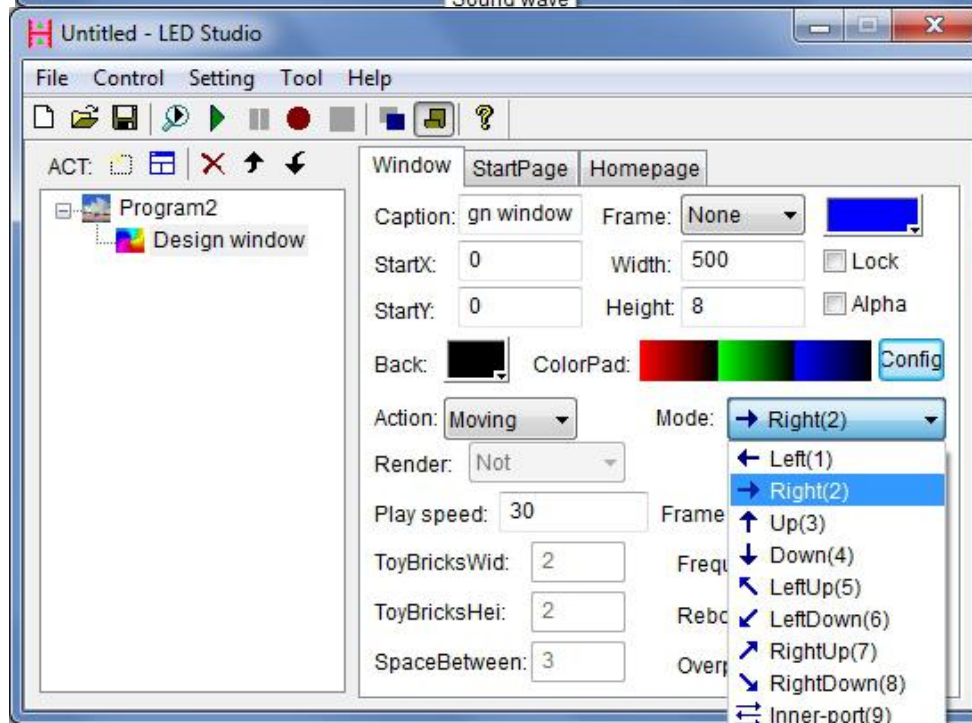
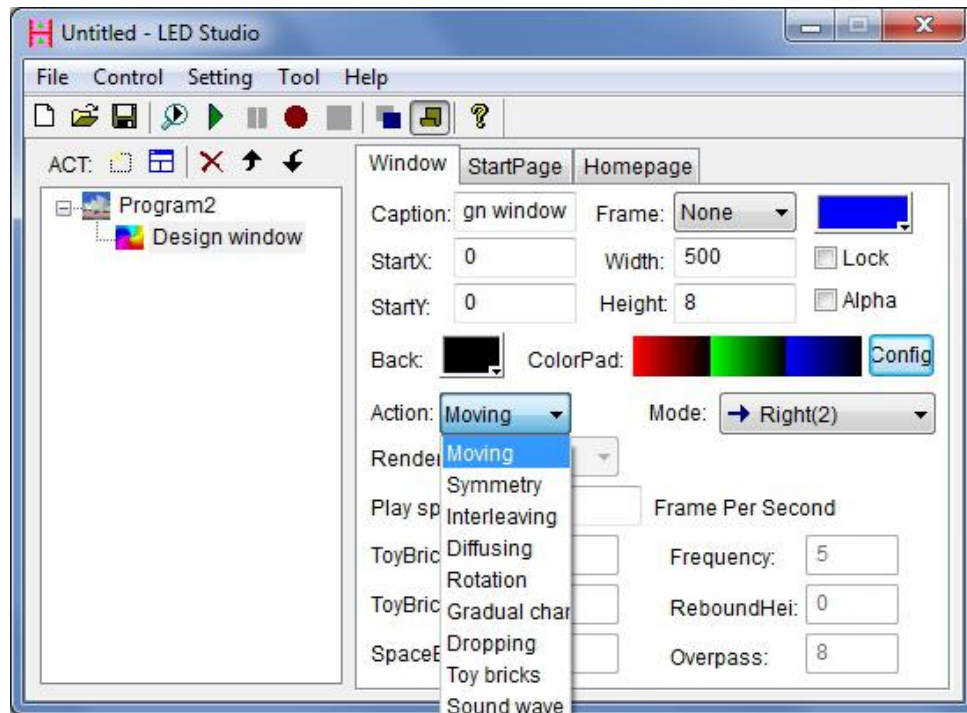


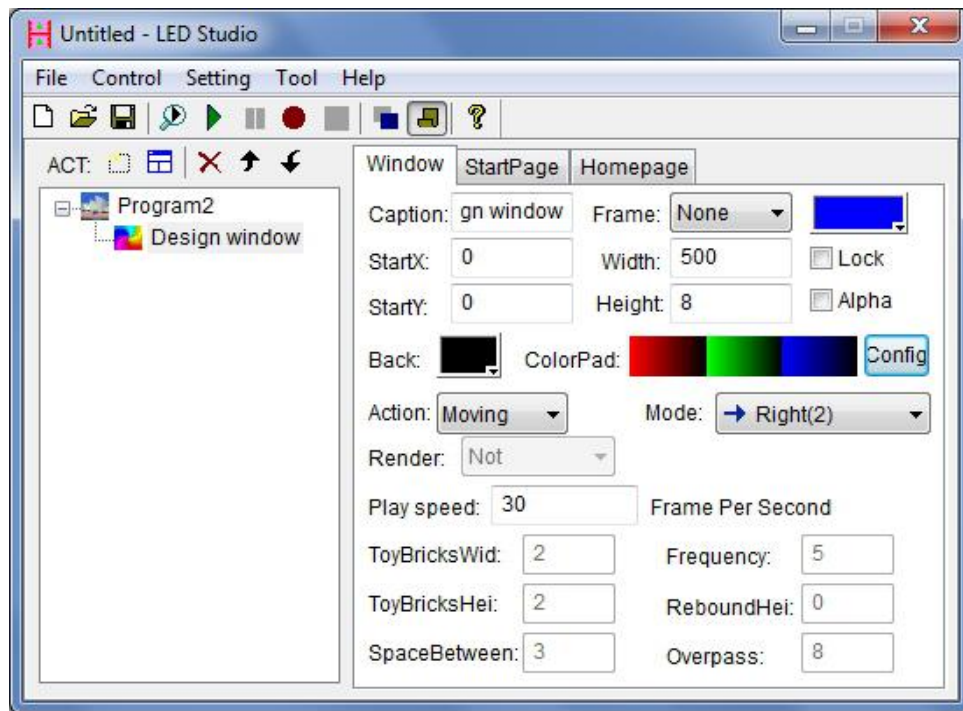



Normally, i clear the color in color plate, set transition grade to 5, and choose the second color in color pad library for test. Then click “OK” to exit.(The bigger transition grade is, the less color has in color plate. The bigger transition color is, the more color has in color plate)

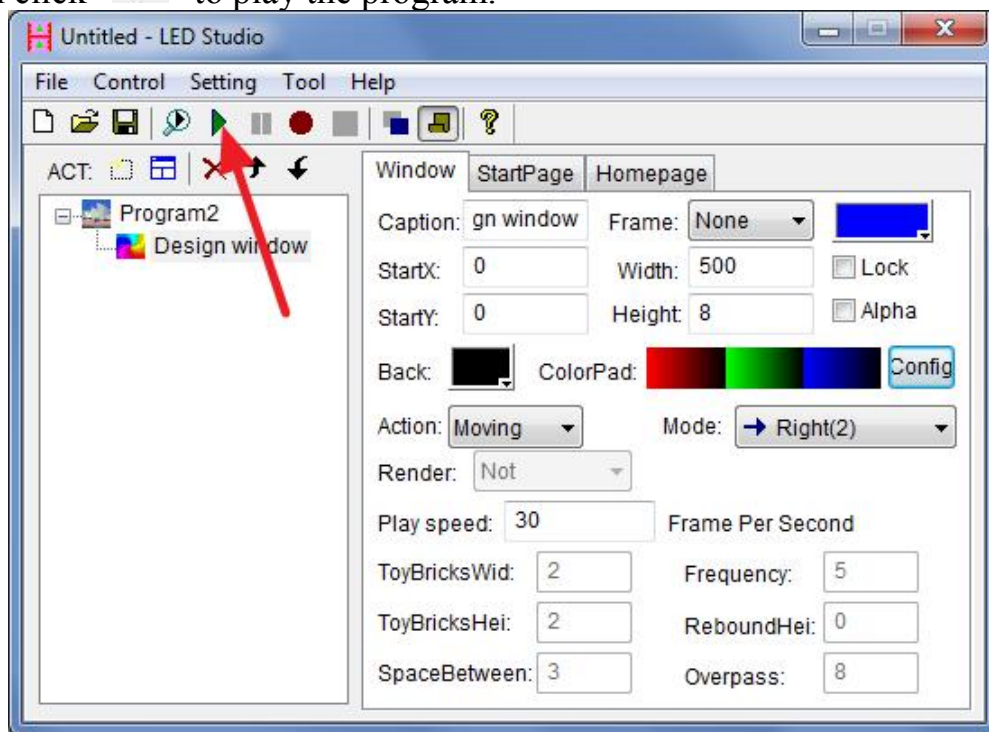


You can choose among many actions and modes. Here, i choose “Moving” and “Right”.

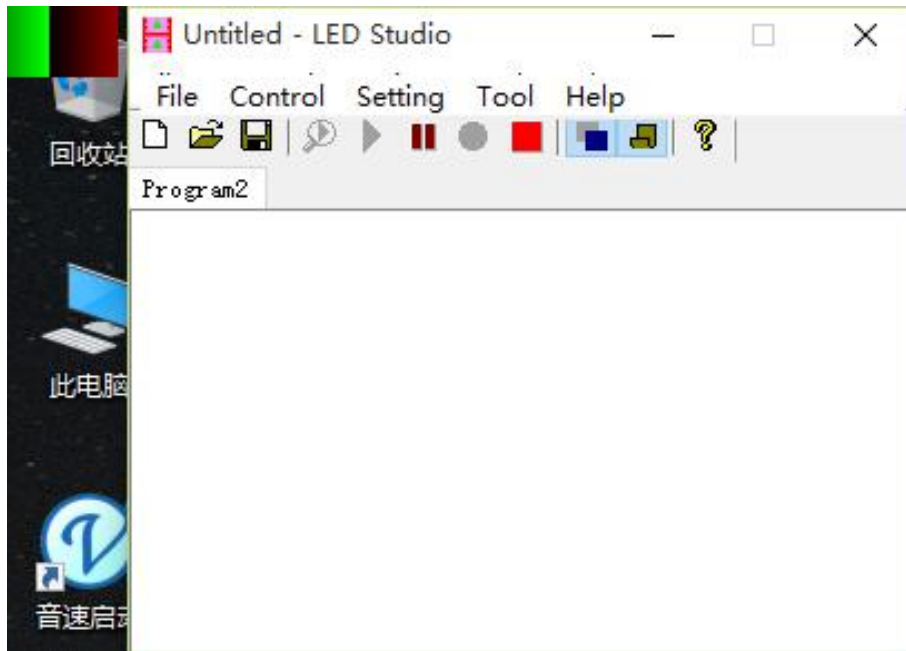




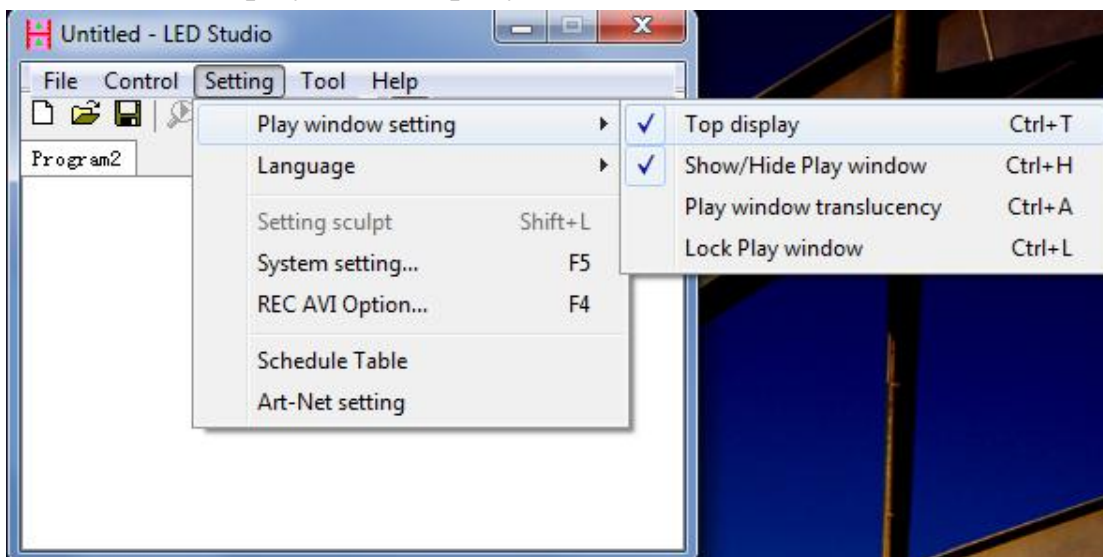
Then click “” to play the program.







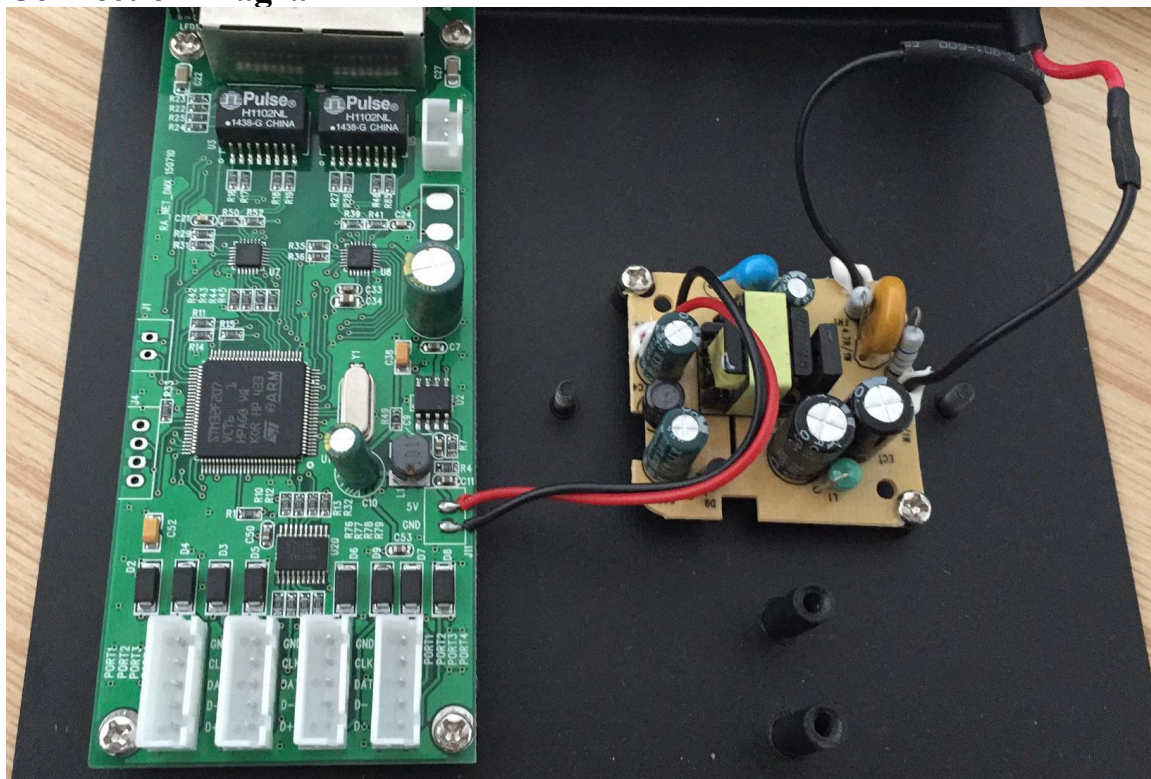
You can click “setting” -- “play window setting” -- “Top display” , play window will display on the top layer of the screen.



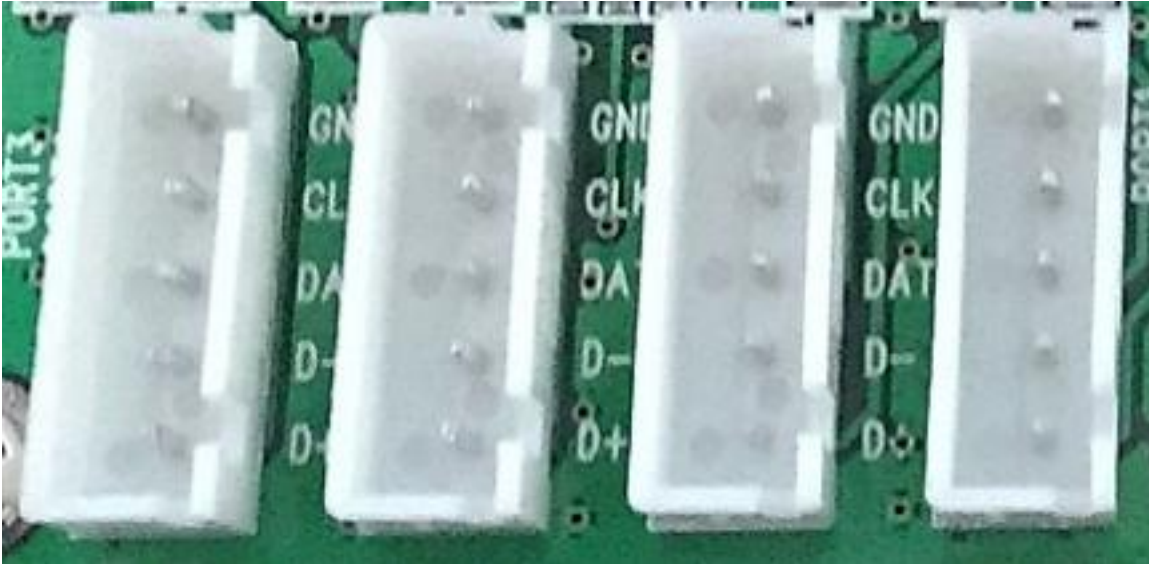
Both green and red light of H802RA are blinking.



Connection Diagram







GND CLK DAT D- D+

For double-line chips(LPD6803), connect GND, CLK, DAT

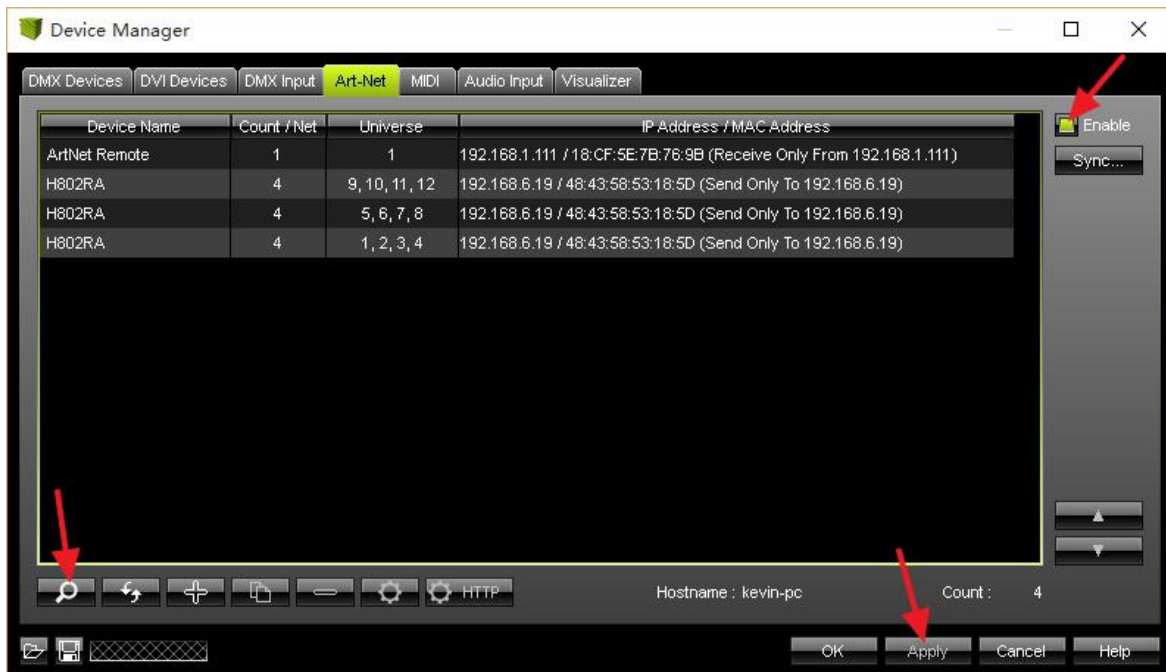
For single-line chips(WS2812), connect GND, DAT

For DMX512, connect GND, D-, D+, addressing line to CLK

For TM1926, TM1913, TM1914, TM1814, connect GND, D+

### **Madrix Configuration**

- (1). Connect H802RA to computer, distribute an IP address for it.
- (2). Open LED Studio. Click “Setting” -- “H802RA setting”, choose “Art-Net Number of controllers” and enter a number, for example 3, then click “OK”.
- (3). Open Madrix, press “F4”, pops up “Device Manager” window, choose the “Art-Net” label, click “Find Auto” to find Art-Net device, check the “Enable” option, then click “Apply”.



Click “DMX Devices” label, choose all universes of H802RA, check the “Enable” option on the right side and click “Apply” to enable DMX output.

