H801RC CONTROLLER MANUAL

LEDEditTM

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Working Mode:

Mode 1: Connect to the master controller (offline mode)

Master controller includes H801TC, H802TB, H803TC, H805TC, and H803TV.

In offline mode, H801RC is controlled by the master controller.

You can refer to the manuals of those master controllers.

Mode 2: Connected to the PC (online mode)

Software: LED Studio

Actually, LED Studio and LED Build(offline software) have lots of features in common. After reading the following manual, you can go to master controller page, download the manual below, there is a tutorial video of LED Build inside.
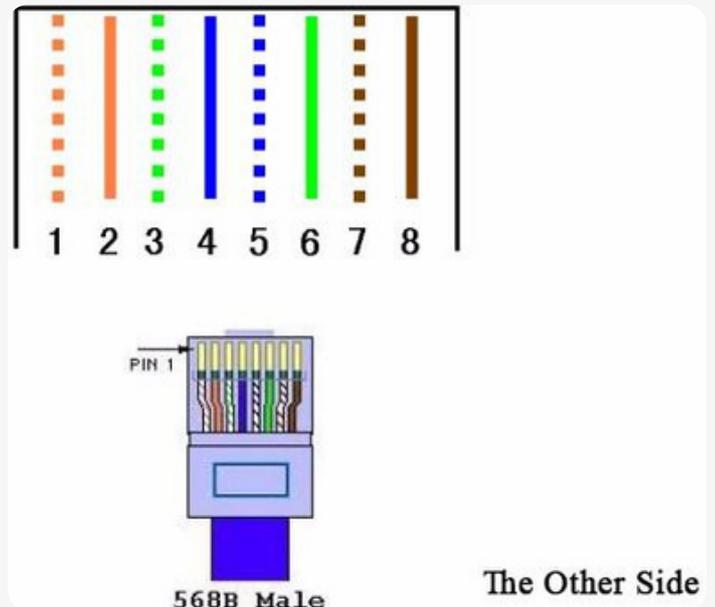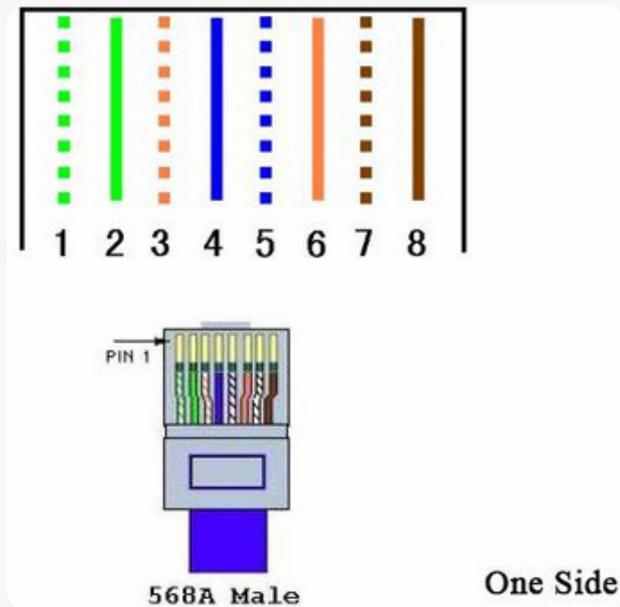
Connect H801RC to PC with crossover network cable
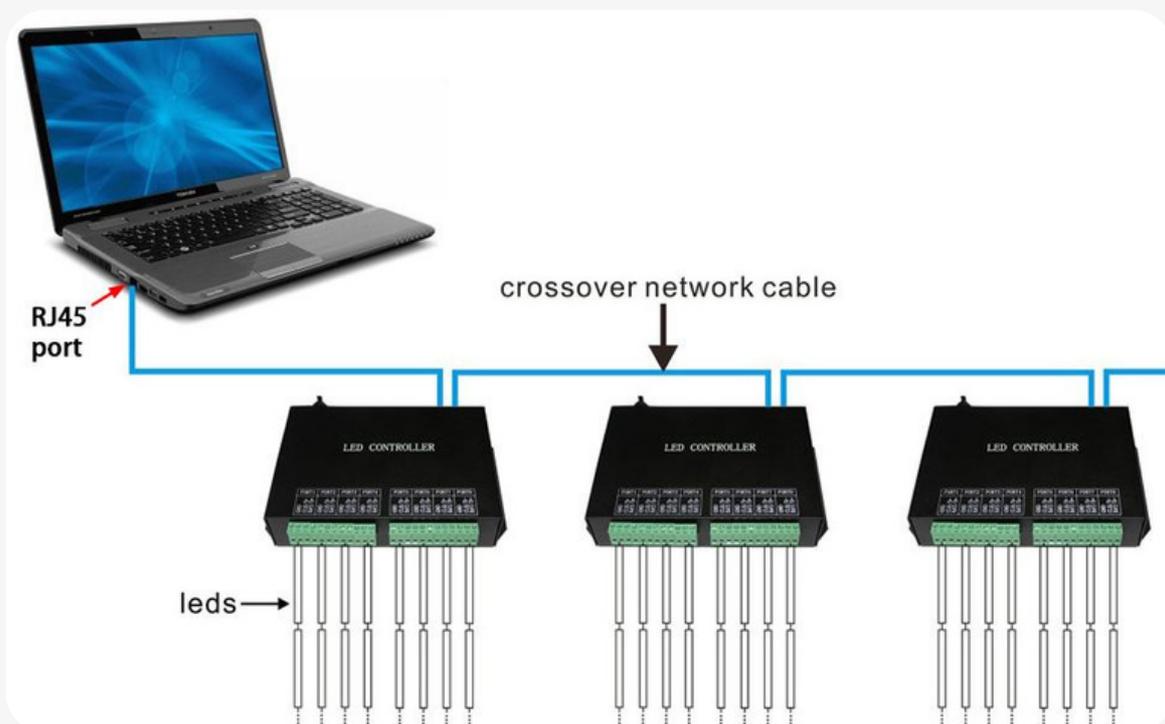
NET1: input * NET2: output
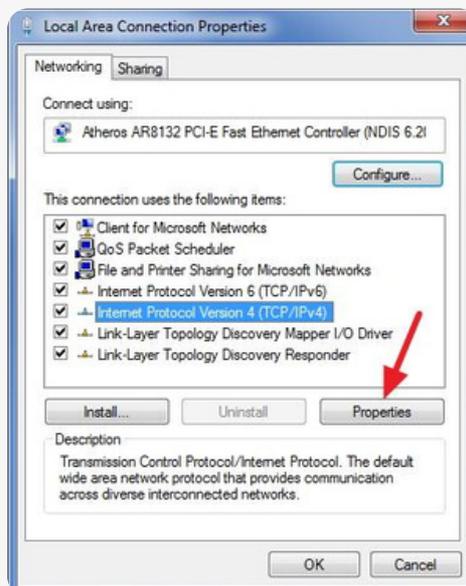
Crossover Network Cable:

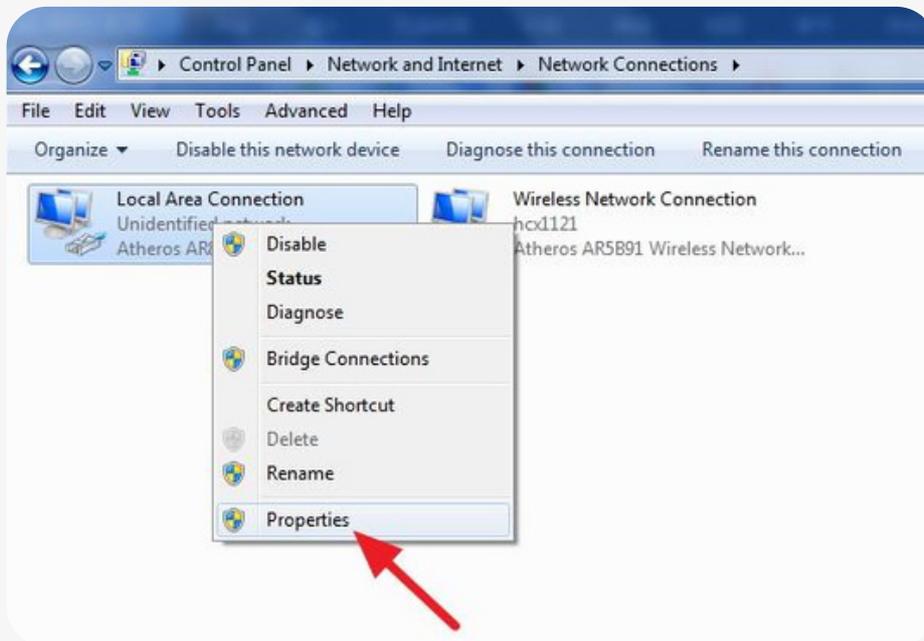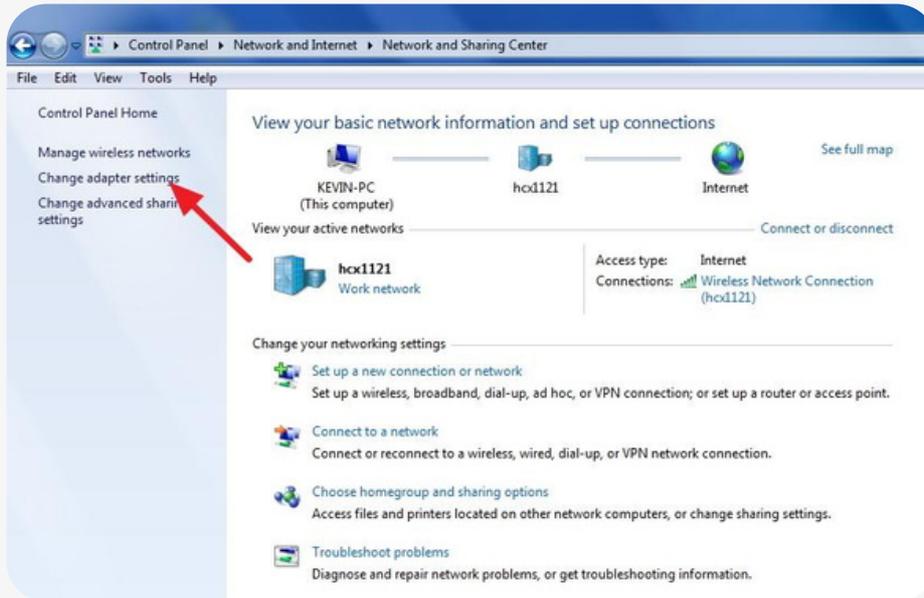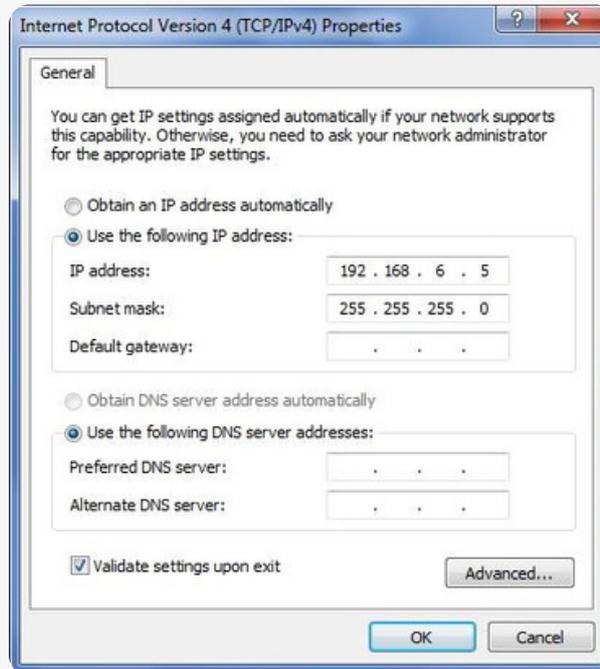568A Male — One Side

568B Male — The Other Side

- **Power on H801RC; the green light is on.**

- **Connect NET1 to the computer network interface with RJ45.**

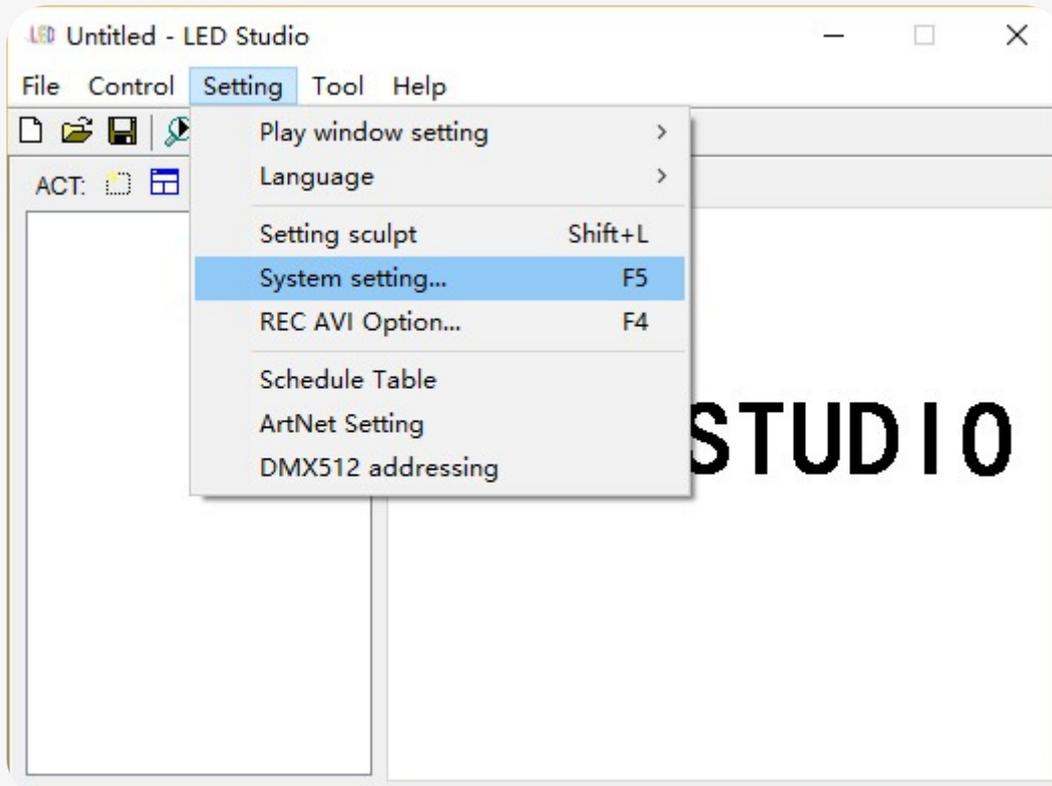- **Cable (crossover). A green light is flashing.**

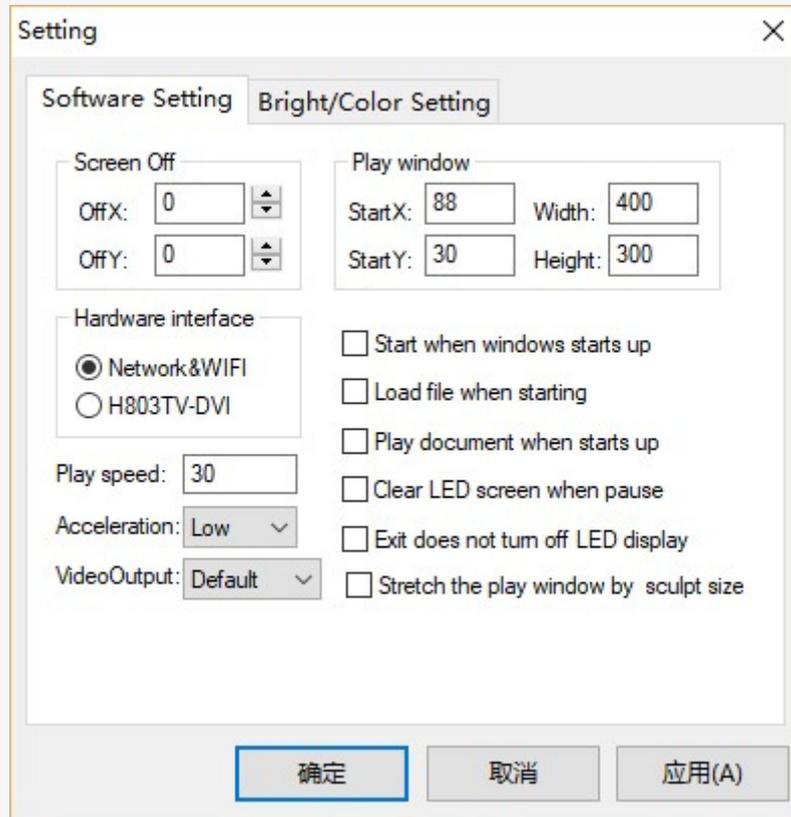- **Network and Internet Settings**

- **Check the option and enter the number exactly as the following image displays, then click "OK."**
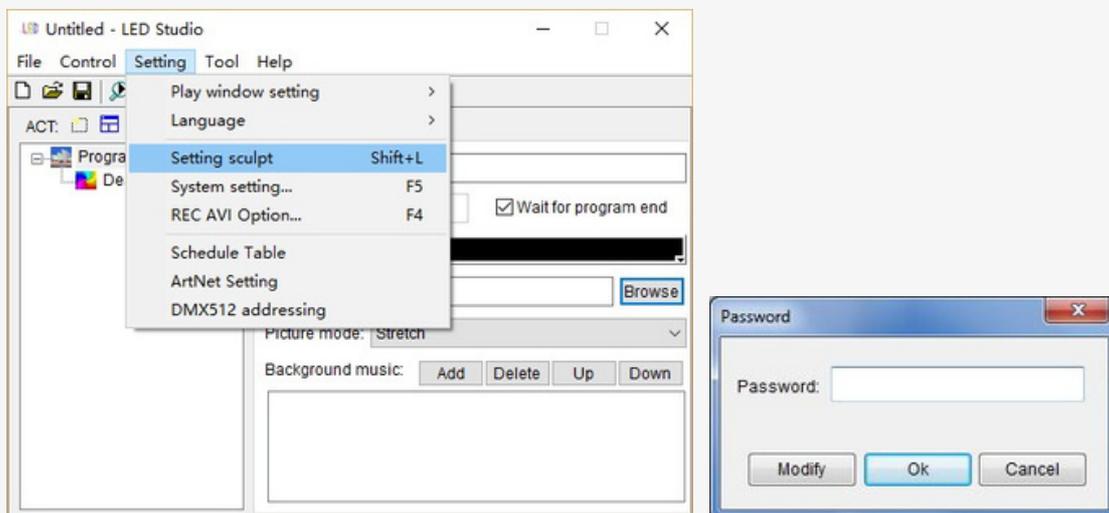

- **Open "LED Studio Software" and click "setting"—"system setting."**
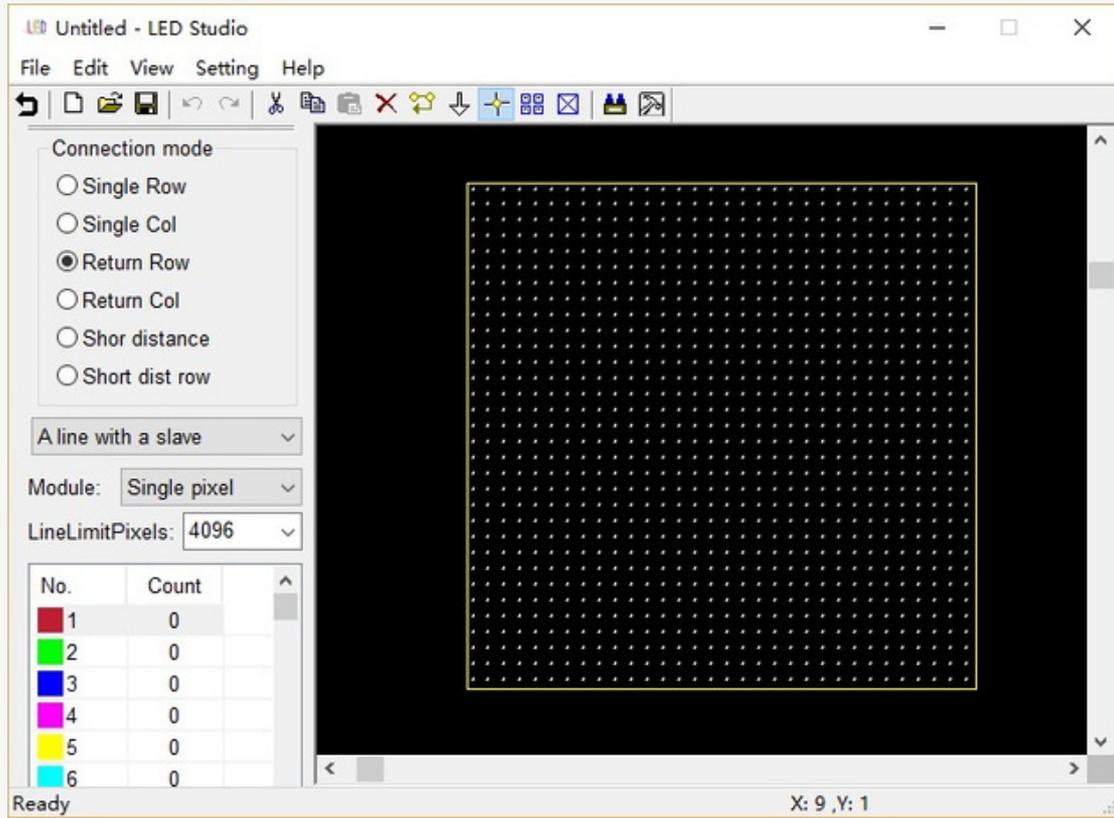
- **For H801RC, the hardware interface must be "Network&WIFI." If it's not, choose "Network&WIFI" and click "Apply or "OK."**
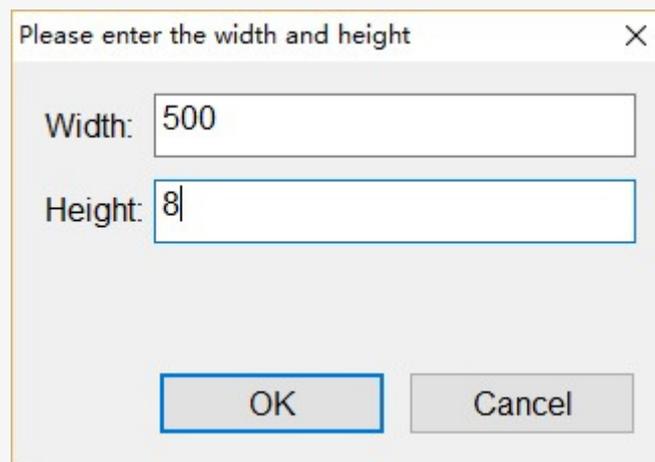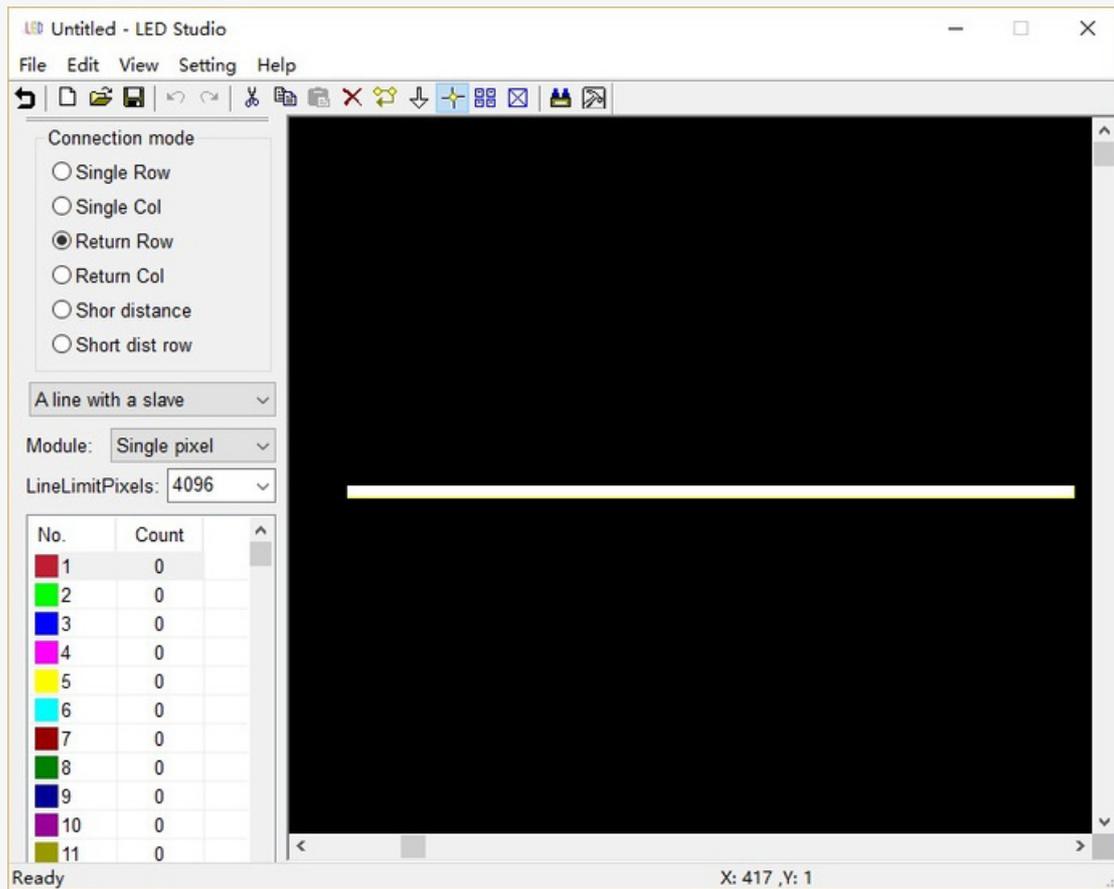

- **Then click "setting"—"setting"sculpt." If the password is empty, click "OK" to enter the sculpt setting window.**

- **Click "File"—"New" to create a new sculpt. A unit is a pixel. In this example, one H801RC is connected to a PC, and each port controls 500 pixels.**
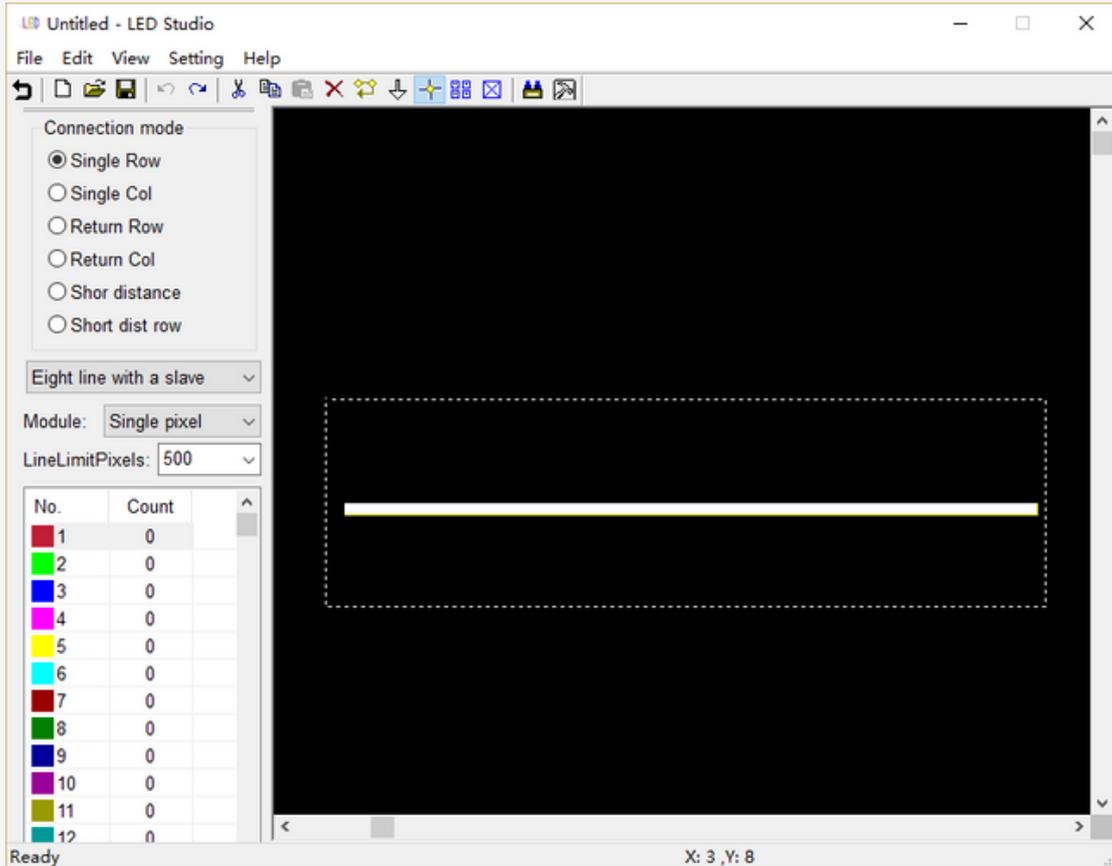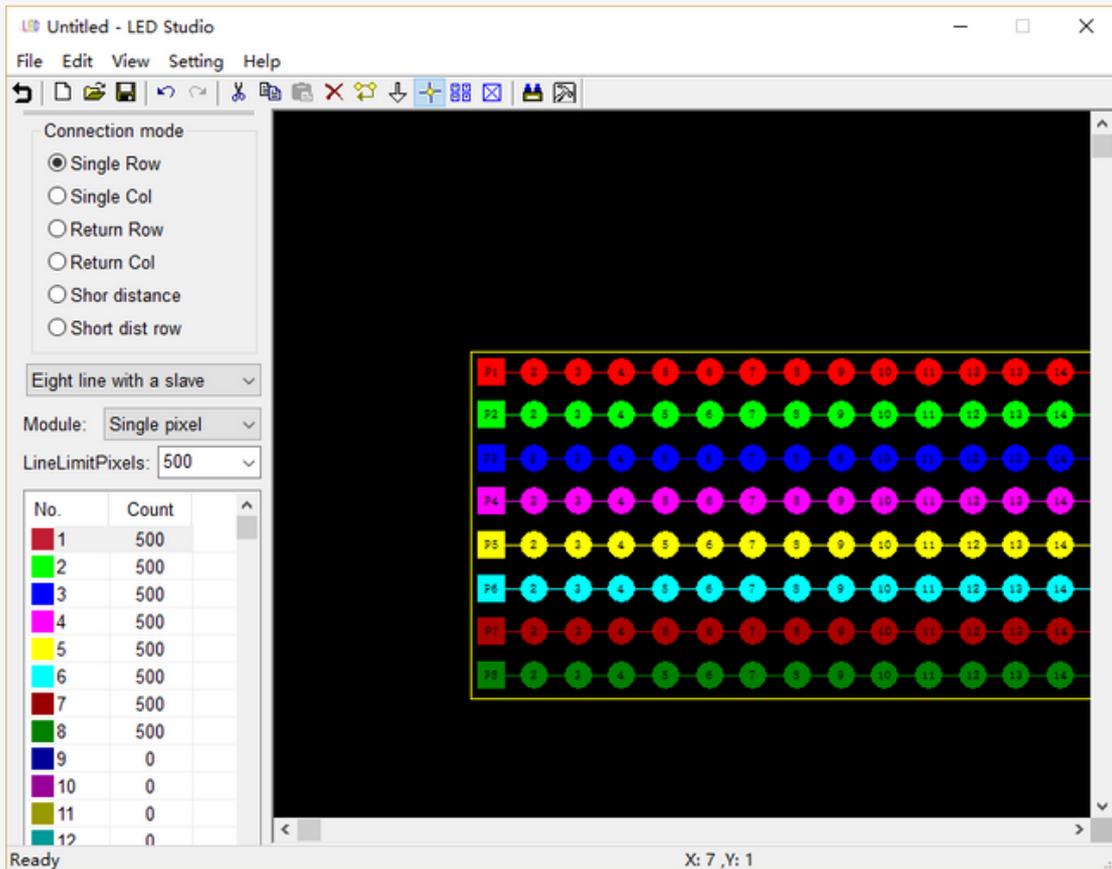
- **Settings:**

- **Then rectangularly select the sculpture from the left top corner to the right bottom corner.**
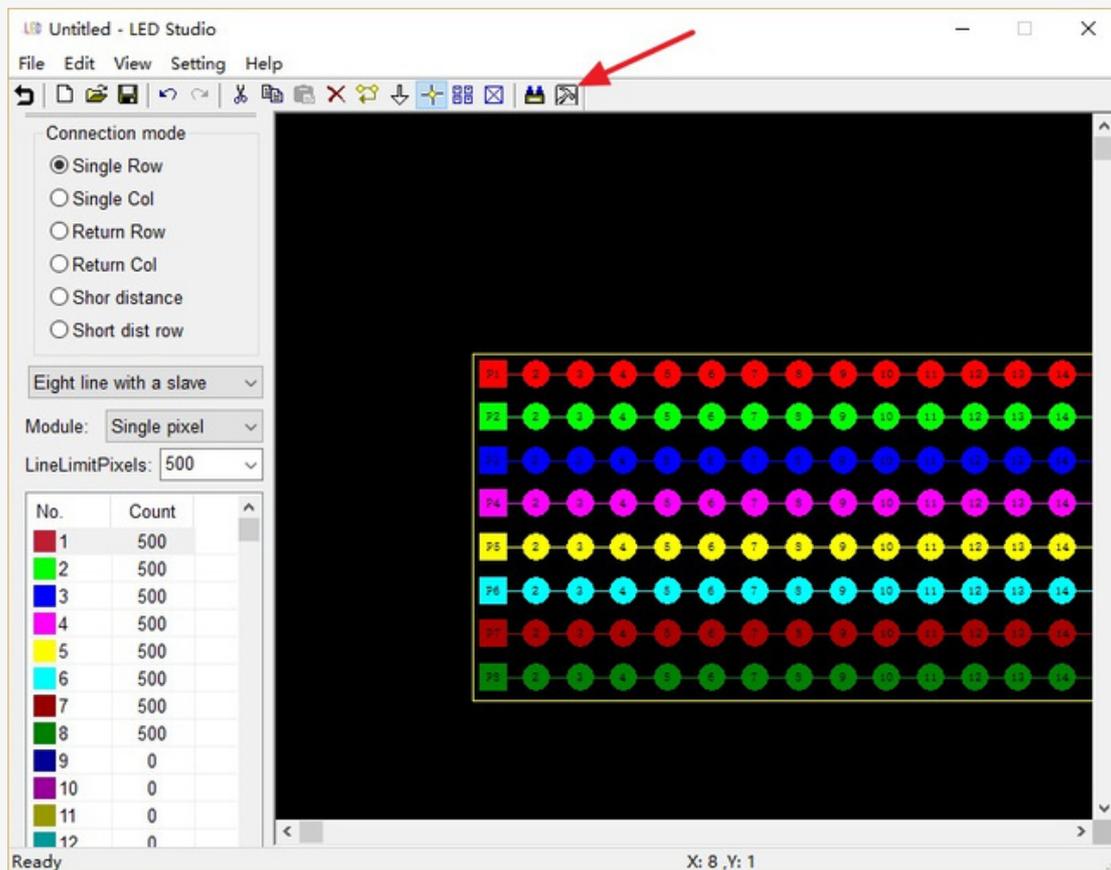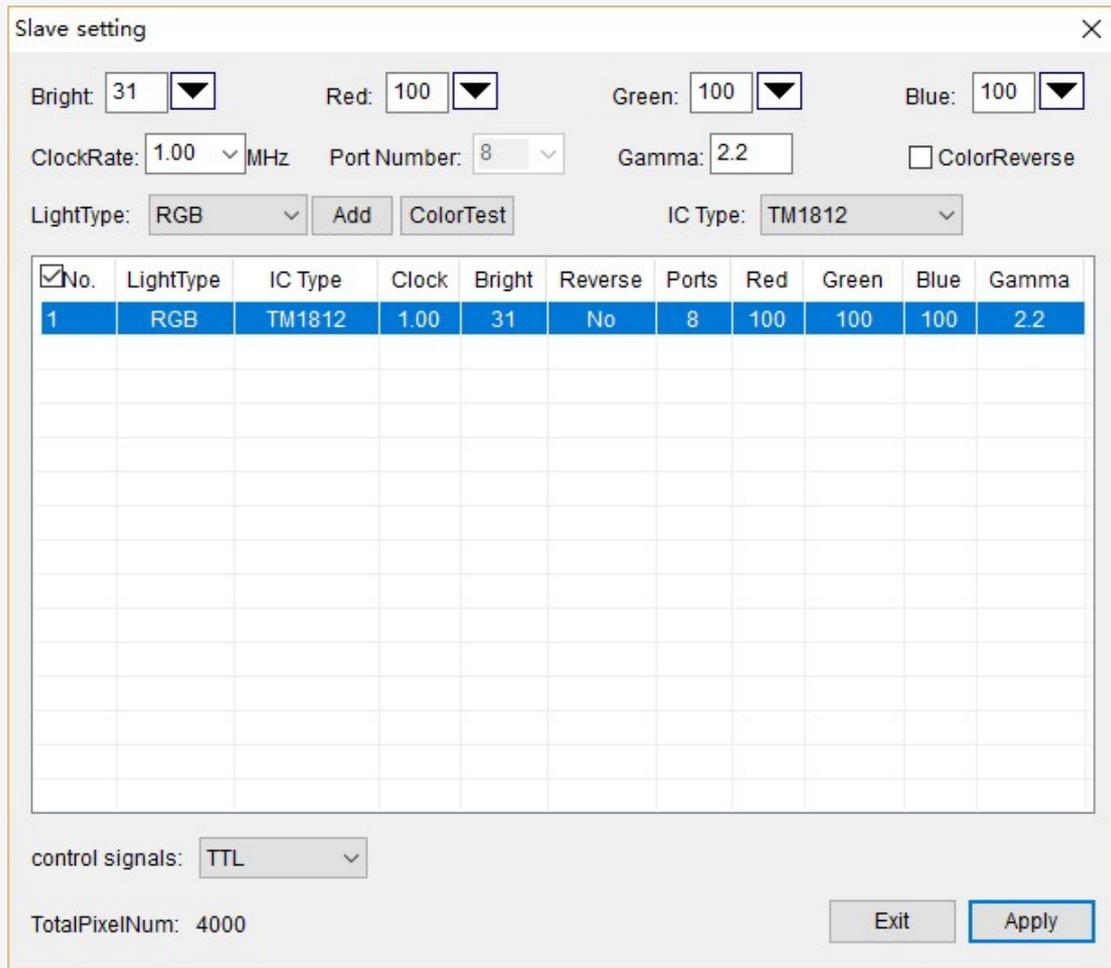
- **There are pixels added to the sculpt.**

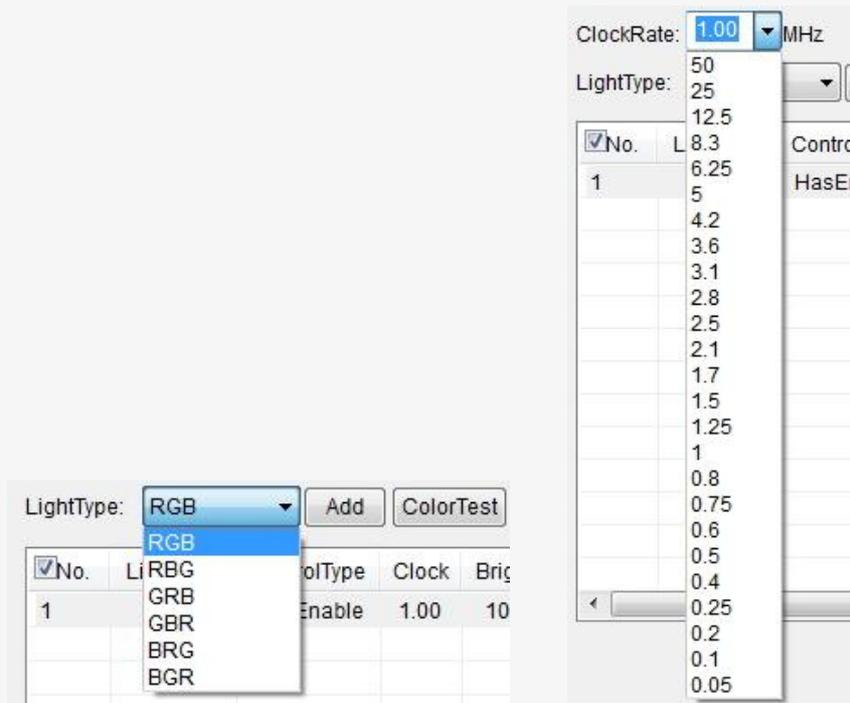- **This is the pixel number of each line (port) of the controller.**
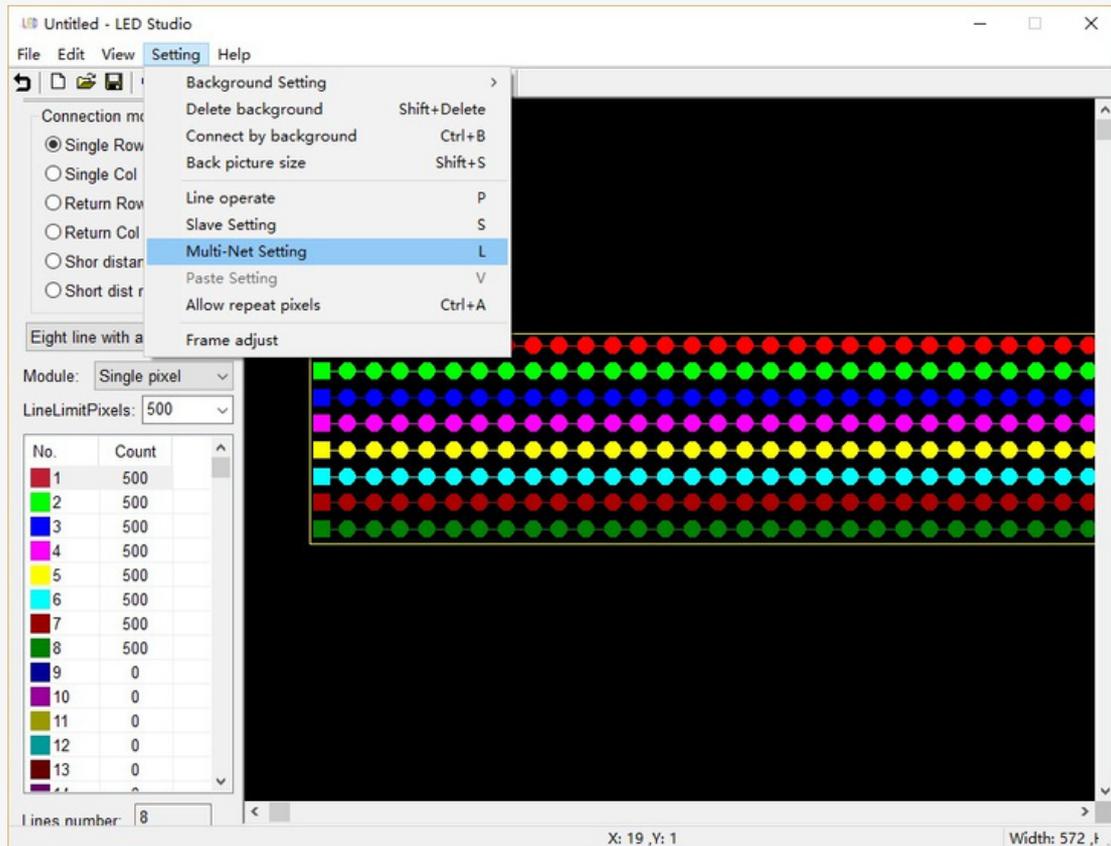
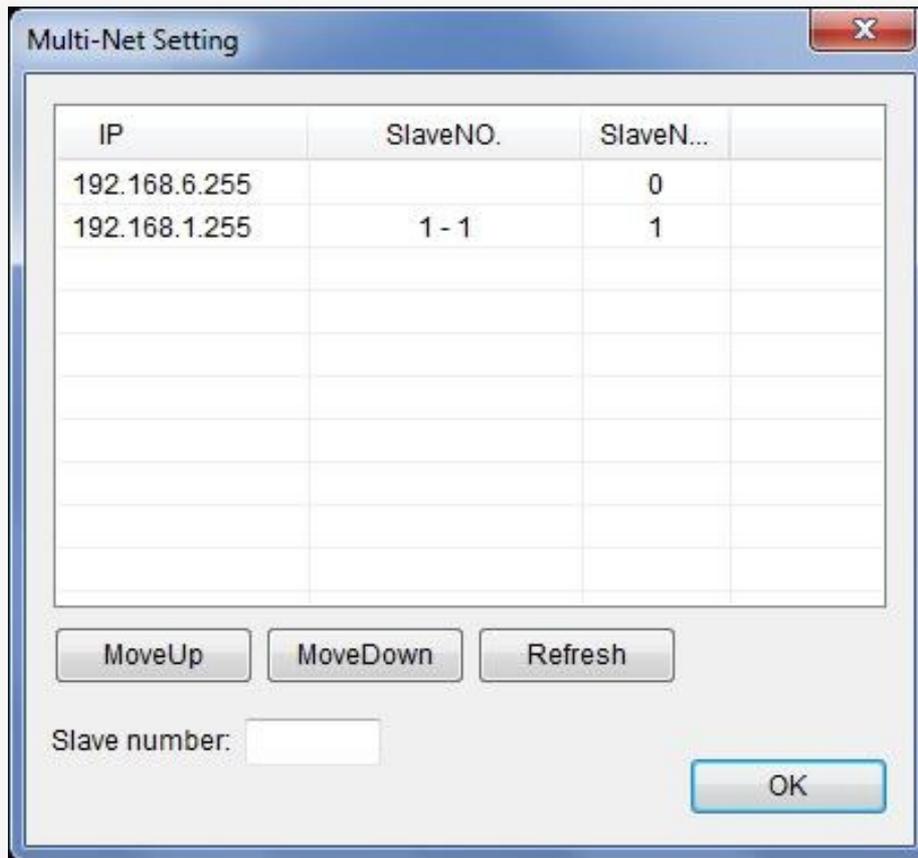

- **Click "Slave Setting":**

- **Select IC Type (many ICs share the same option), Light Type, and Clock Rate. Normally, you don't need to set others up.**
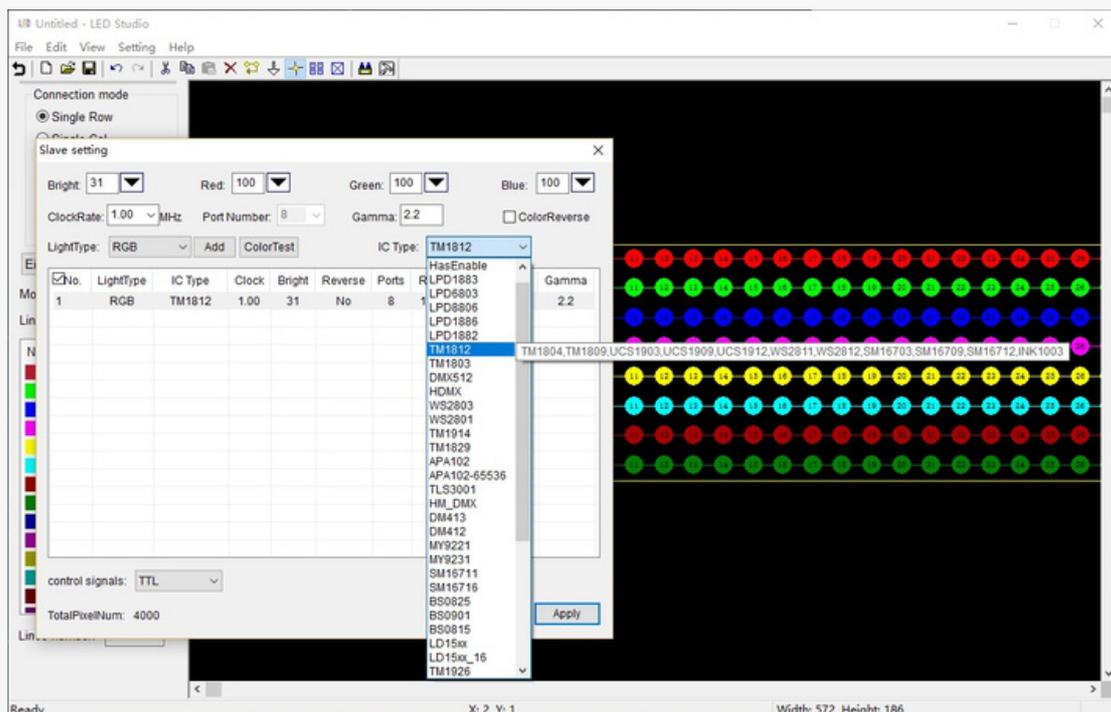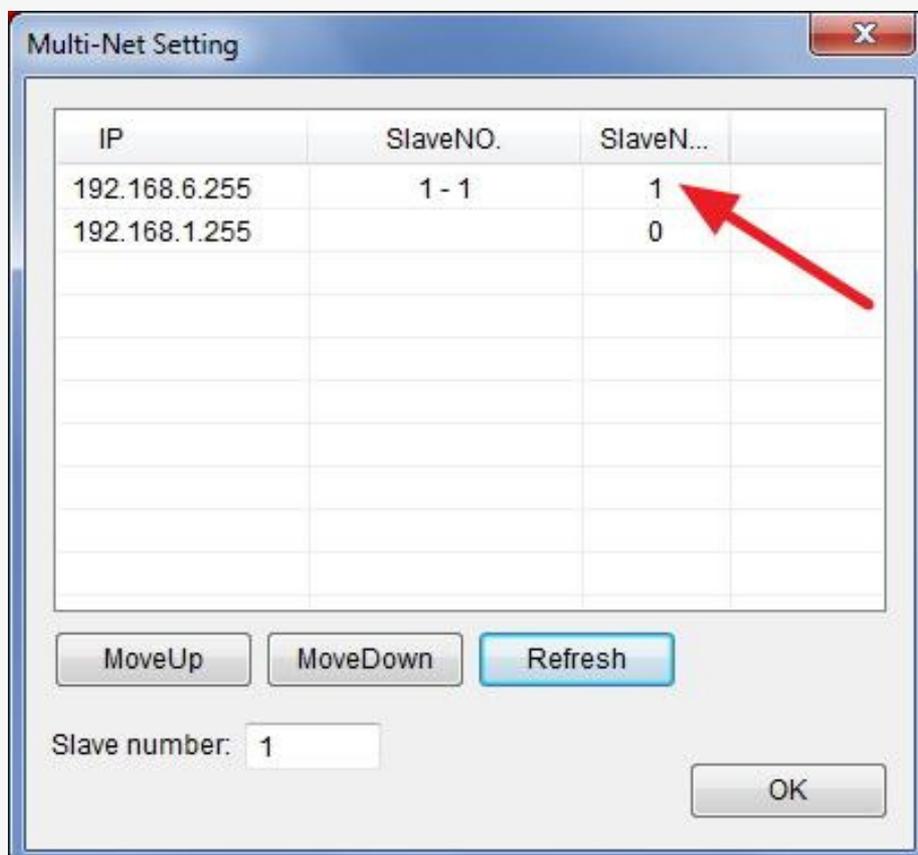
- **After setting them all, click "Apply or "Exit" to exit the slave setting. Click "Setting"—"Multi"—Net Setting.""**
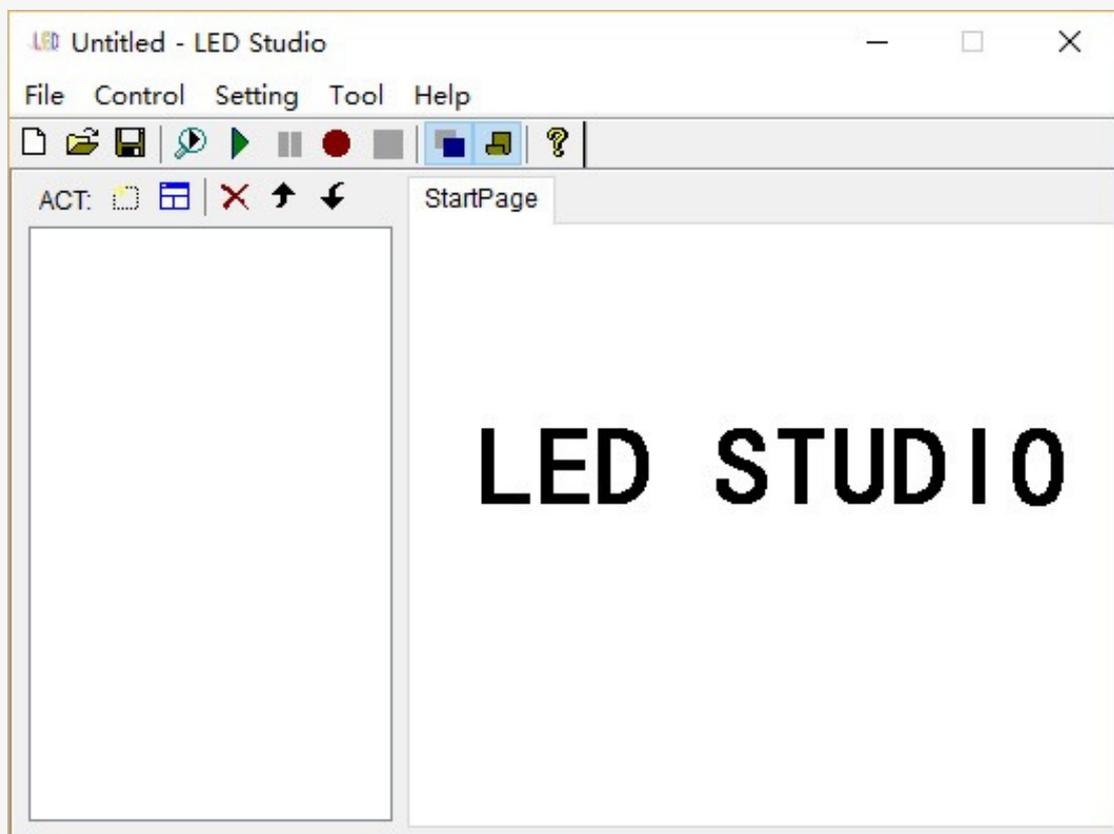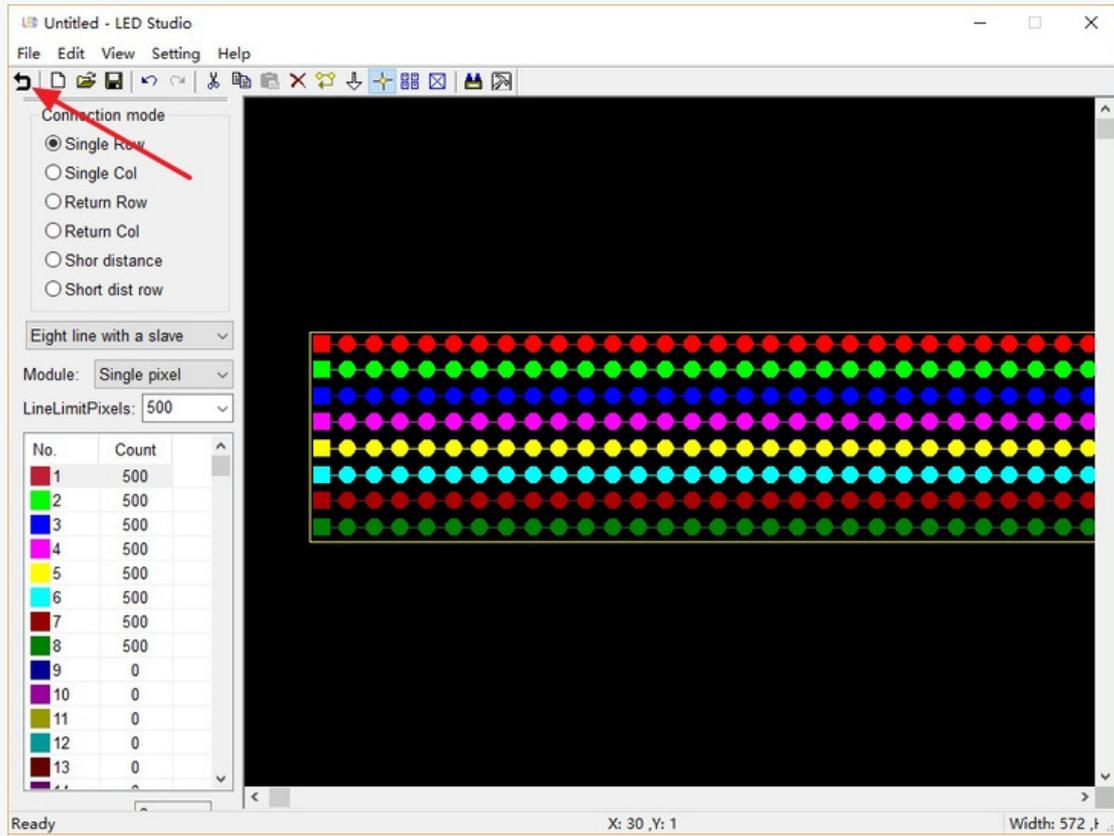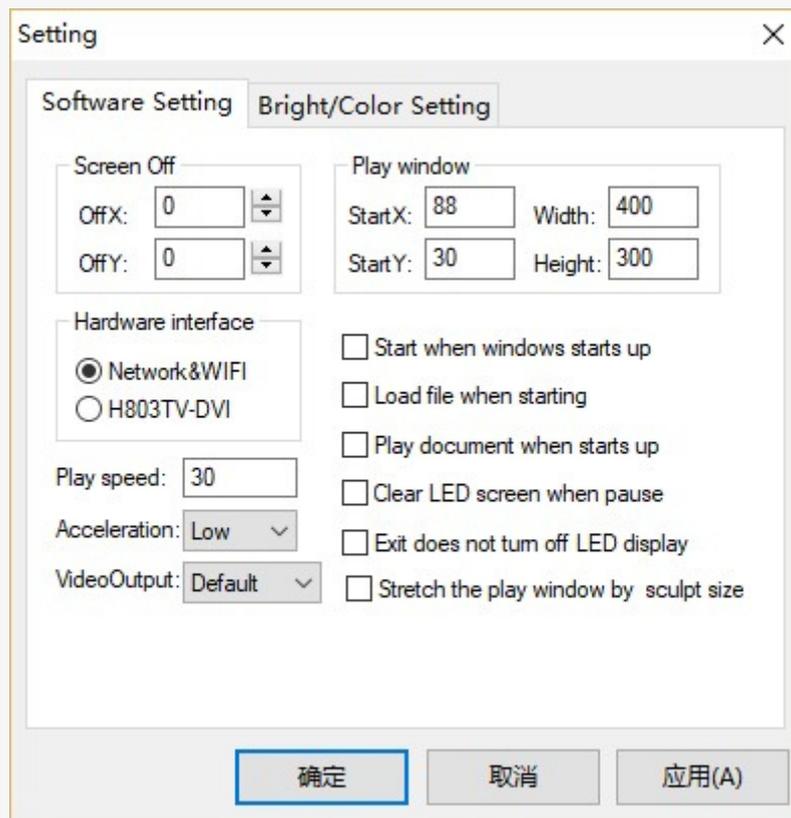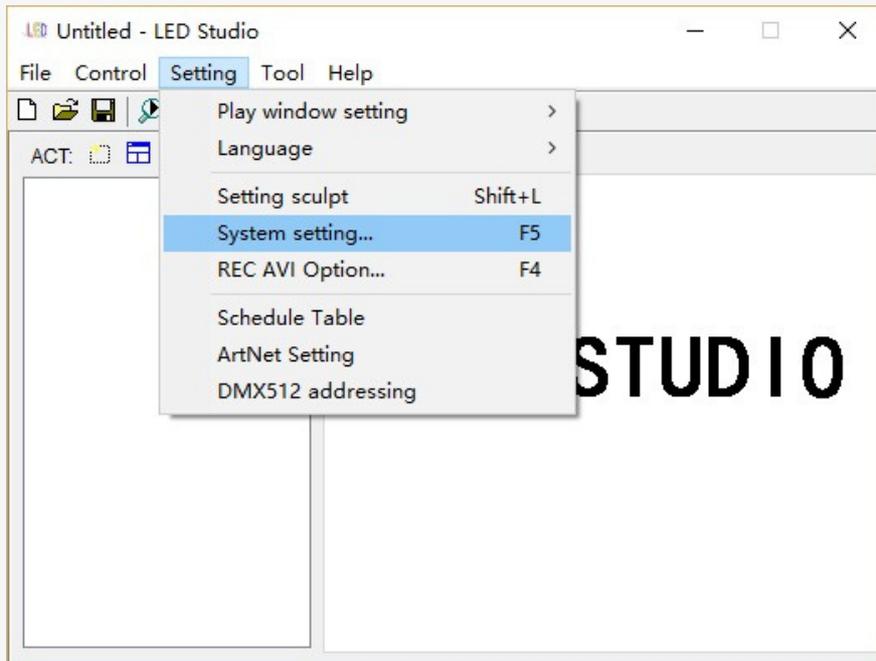
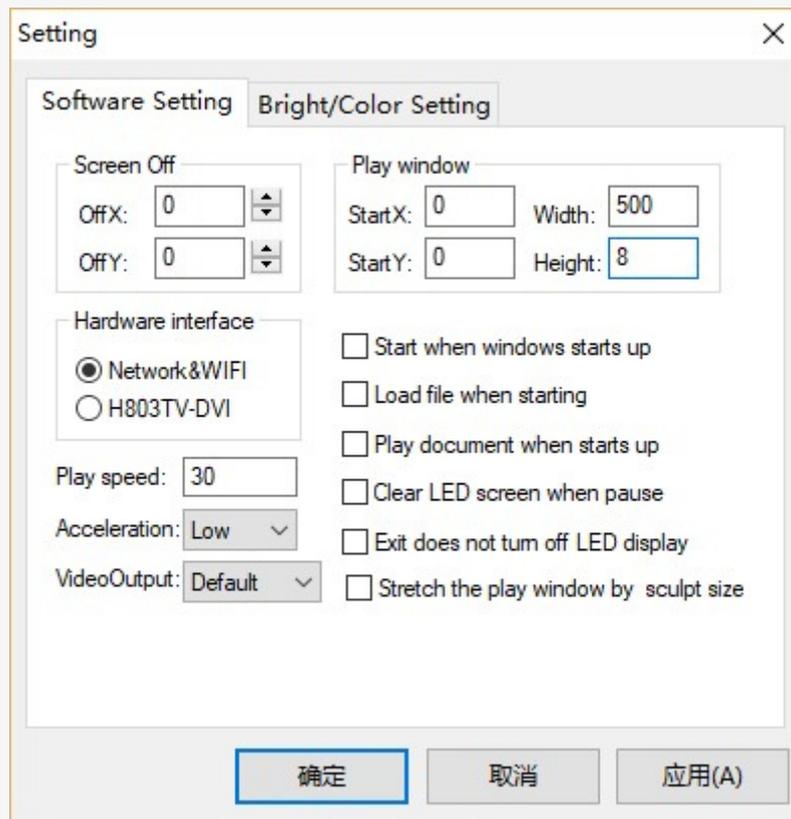- **Set the controller for the specified IP address:**

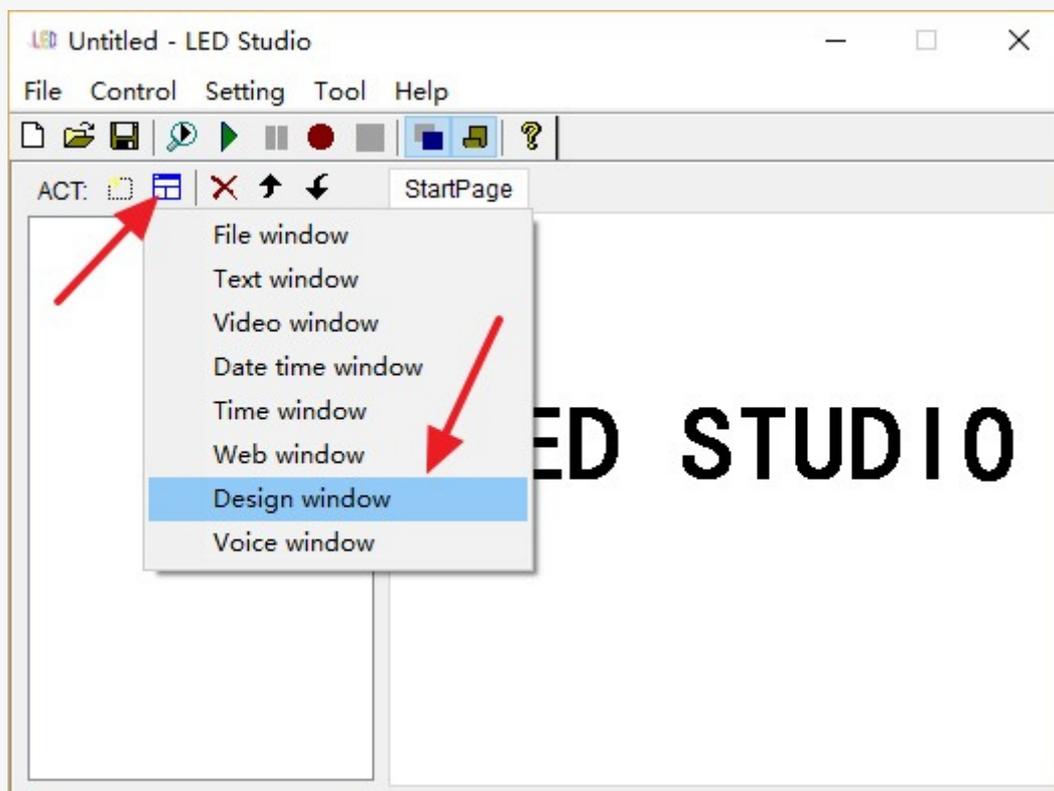- **Click "Return" to return to the main window.**

- **Click "Setting"—"System Setting."**

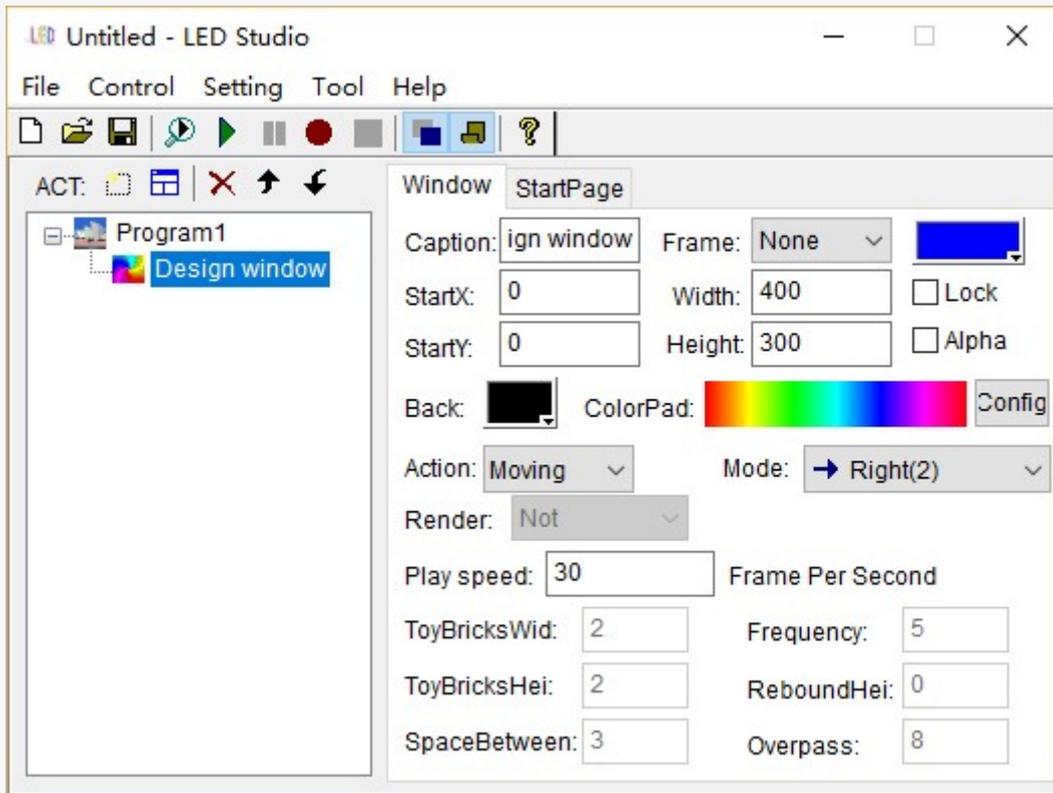- **We can set Start X and Start Y to 0,0. The width and height are the same or bigger than the size of sculpt. So here we set them to 500, 8. Then click "Apply" -- "OK" to exit.**

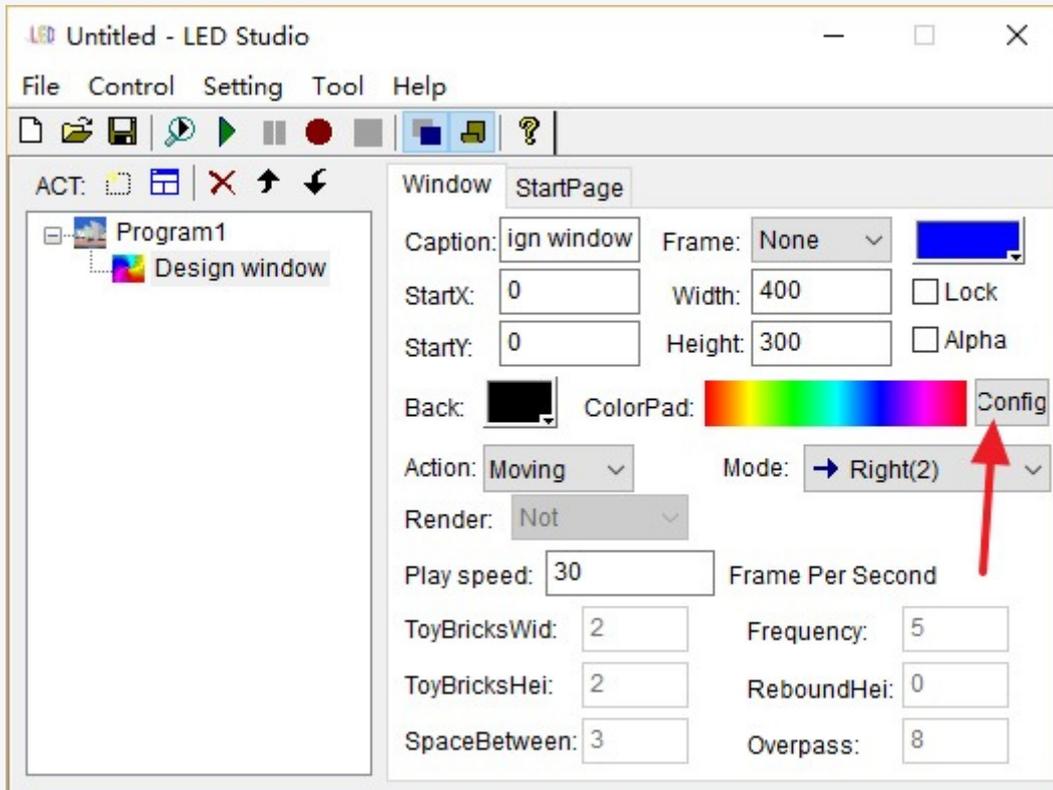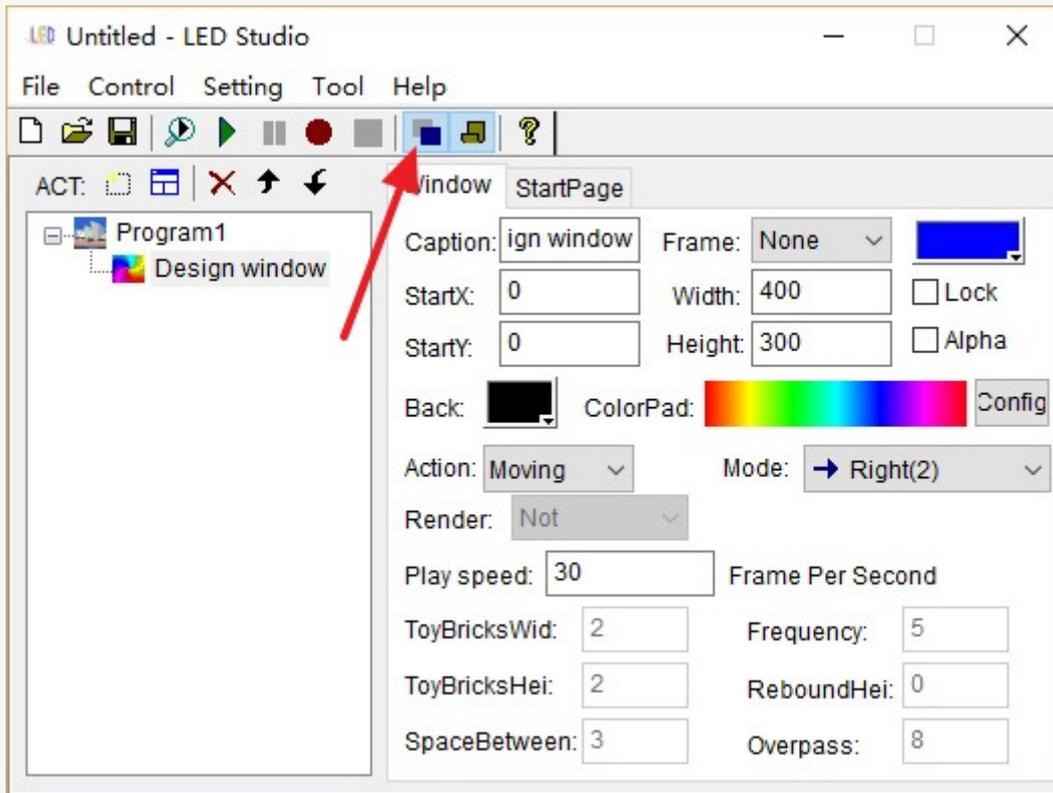- **Click "New window"-- "Design window" to create a new design window.**

• **Then click "Config" to configure the color.**

- By the way, you can click " ◼ " to show or hide the screen.
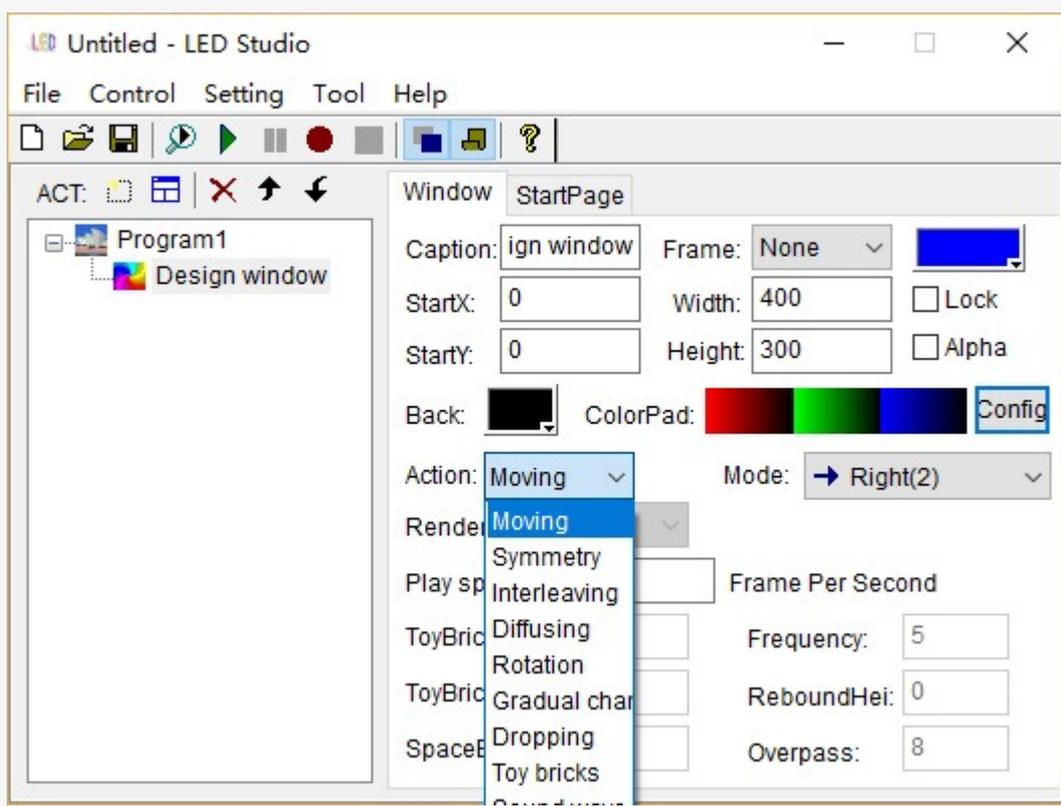

- After clicking "Config," the following window displays:
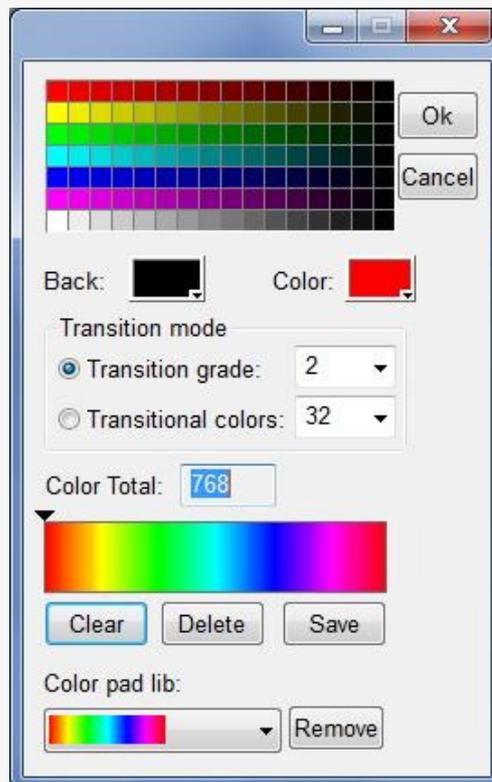
- **Normally, I clear the color on the color plate, set the transition grade to 5, and choose the second color in the color pad library for testing. Then click "OK" to exit.**
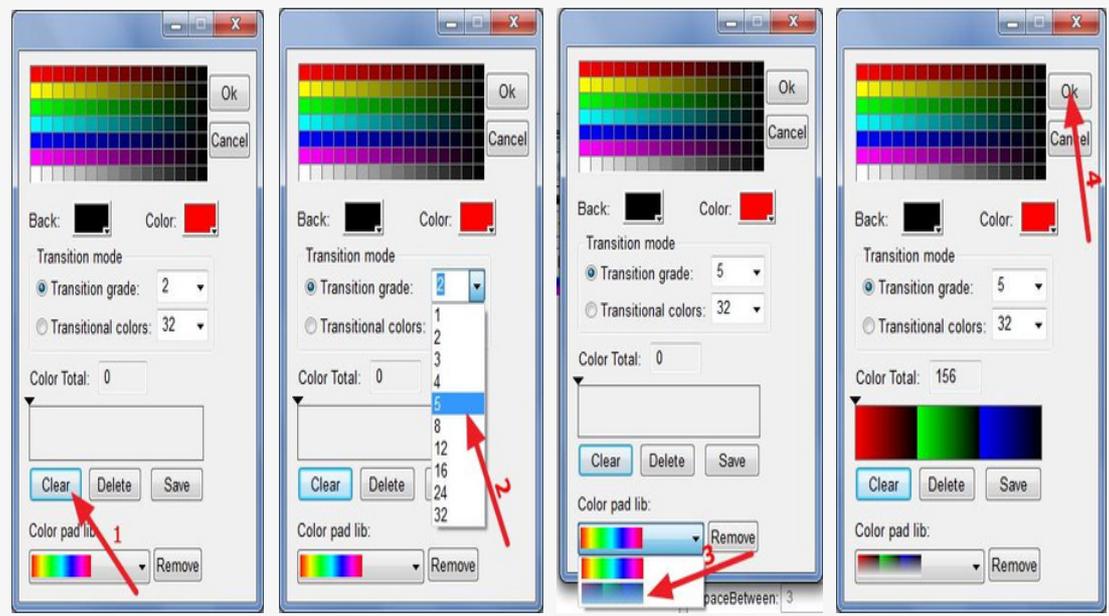
- **You can choose among many actions and modes. Here, I choose "moving" and "right".**

- **Then click " ▶ " to play the program.**
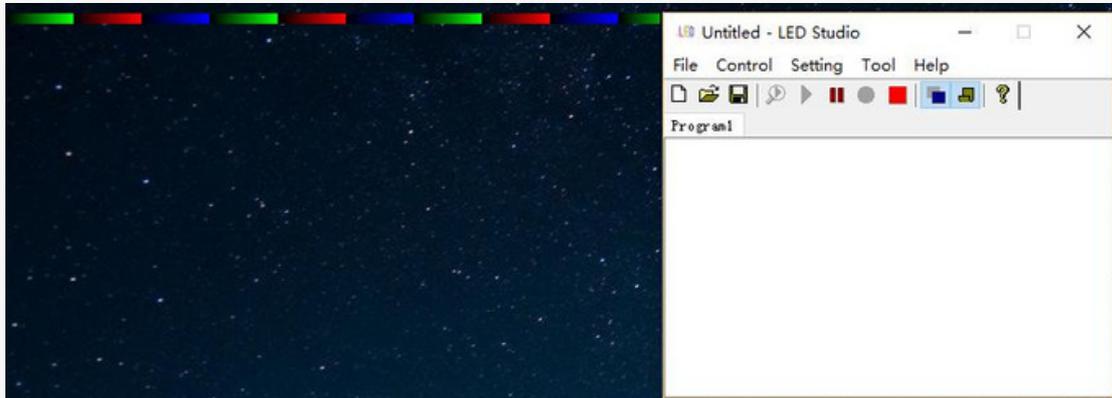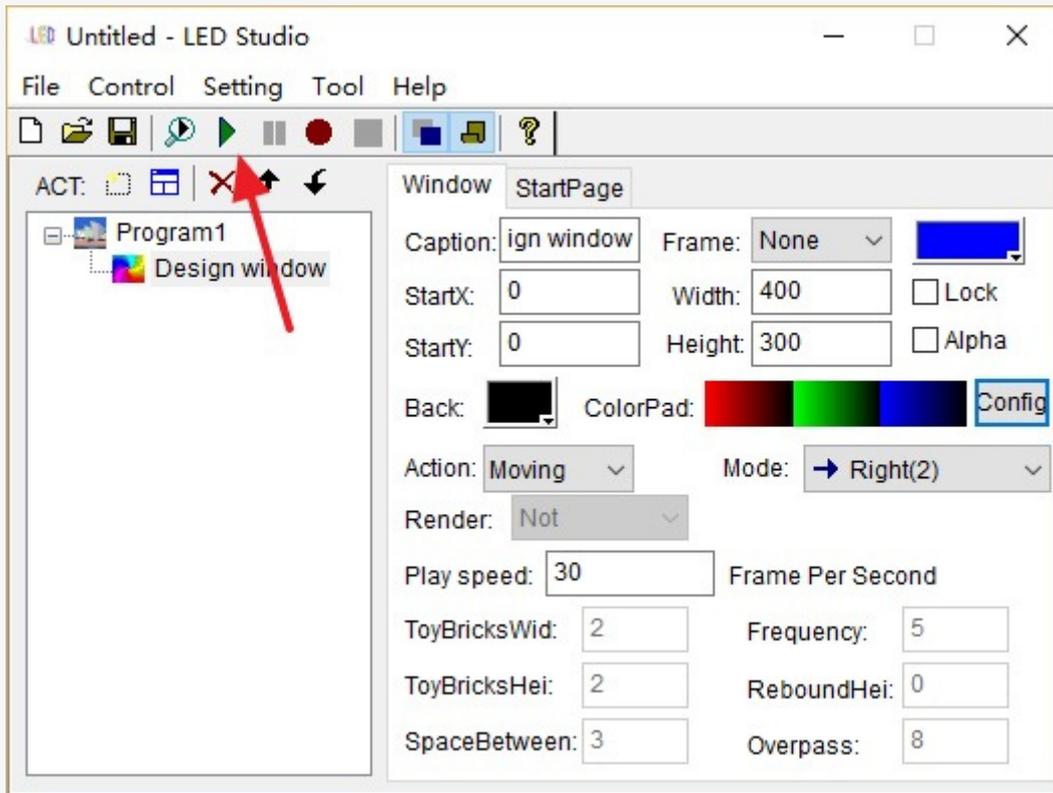
- You can set the play window to "top display" so that any other programs won't affect the play window.

- And the red indicator light on the controller is flashing.

- And the color on strips is changing as programmed in software. Here, I use WS2812 strips for display. For WS2812, you need to connect GND and DAT to the controller.
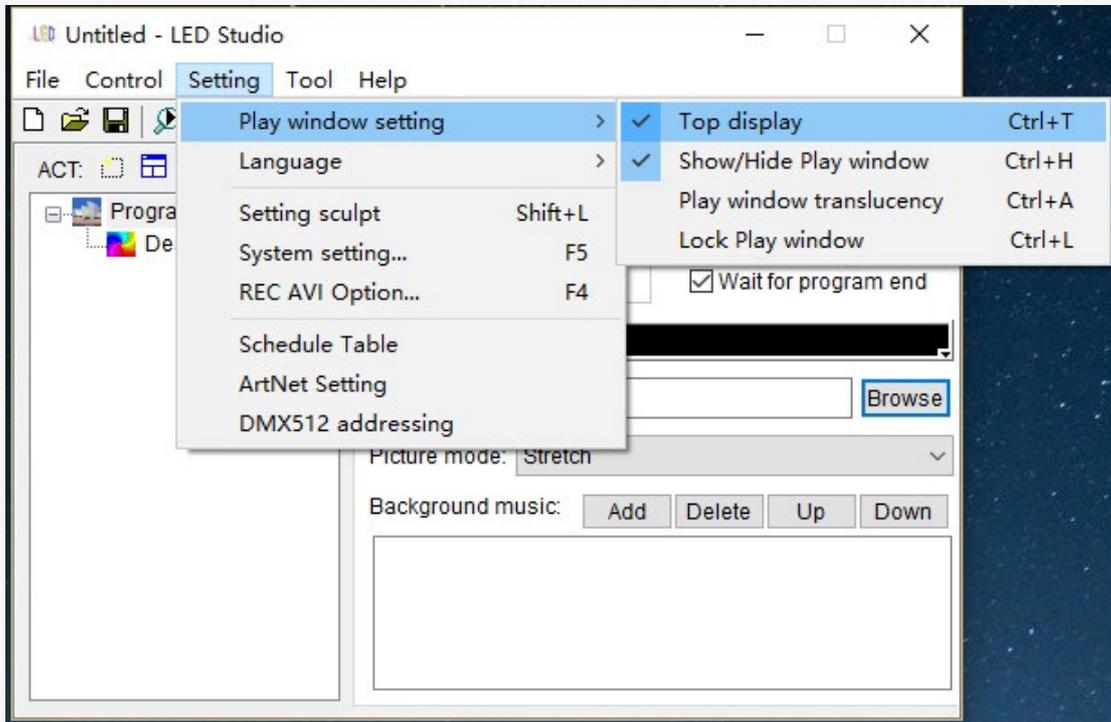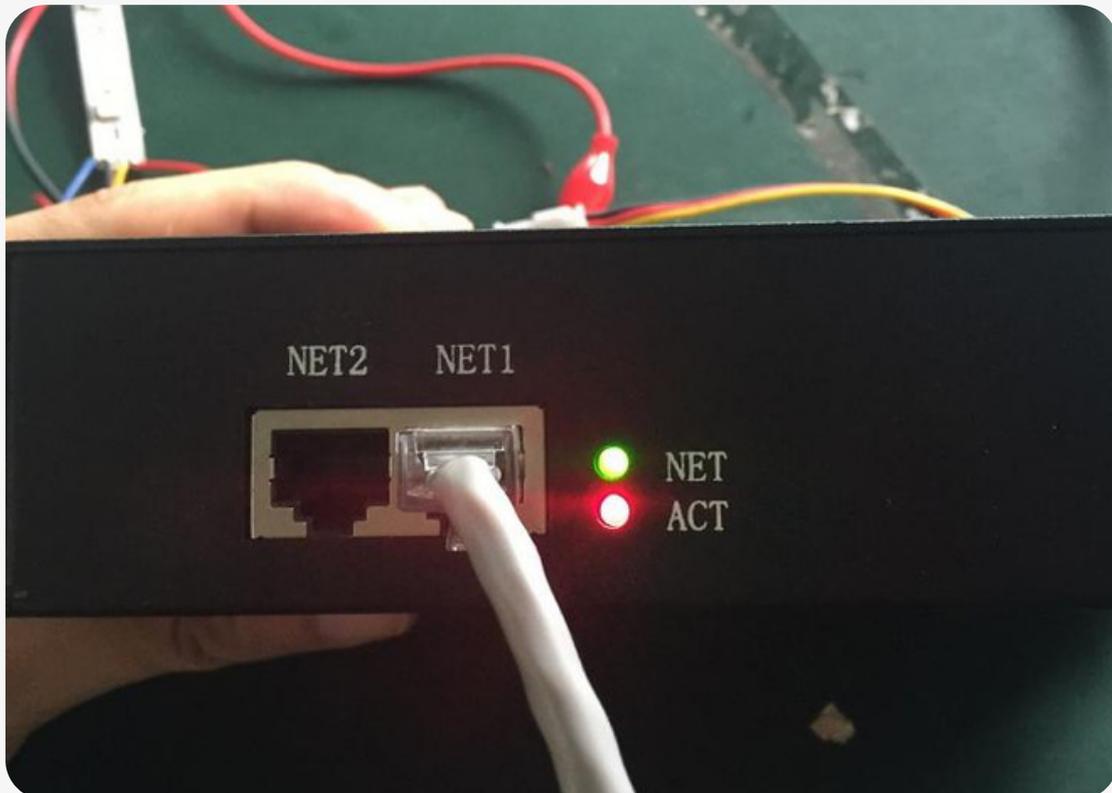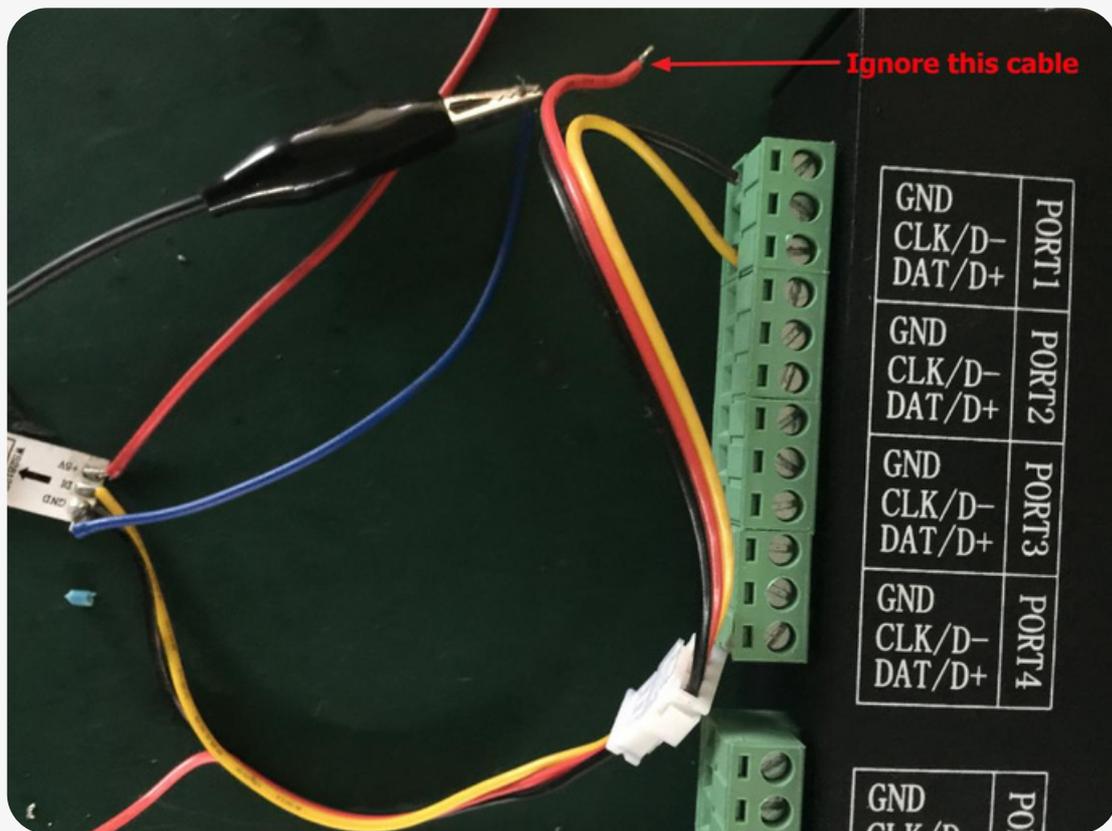

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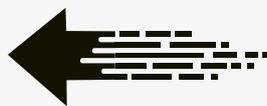
- On the strip, you can see GND (blue and black), DI (yellow), and +5V (red).

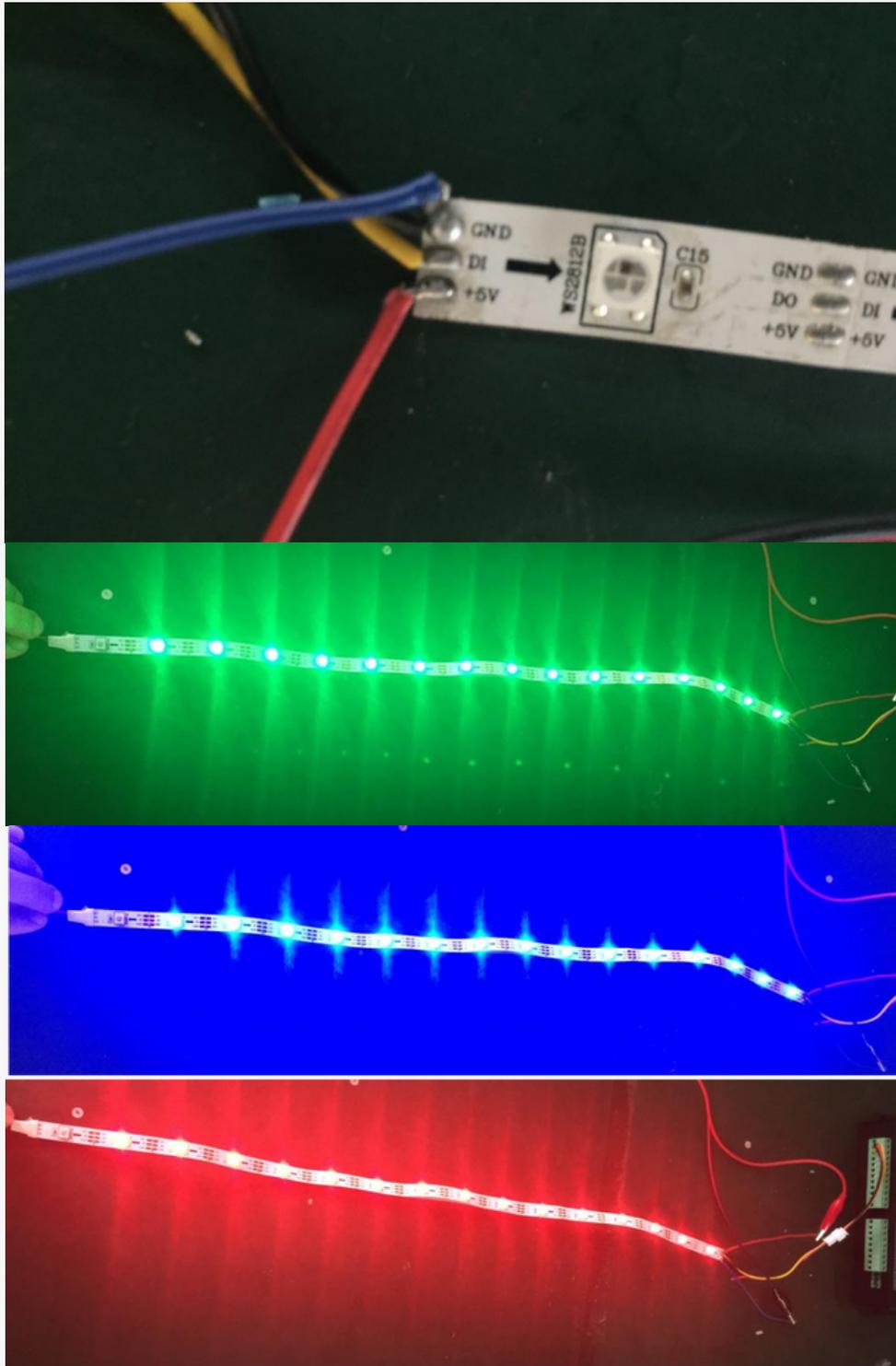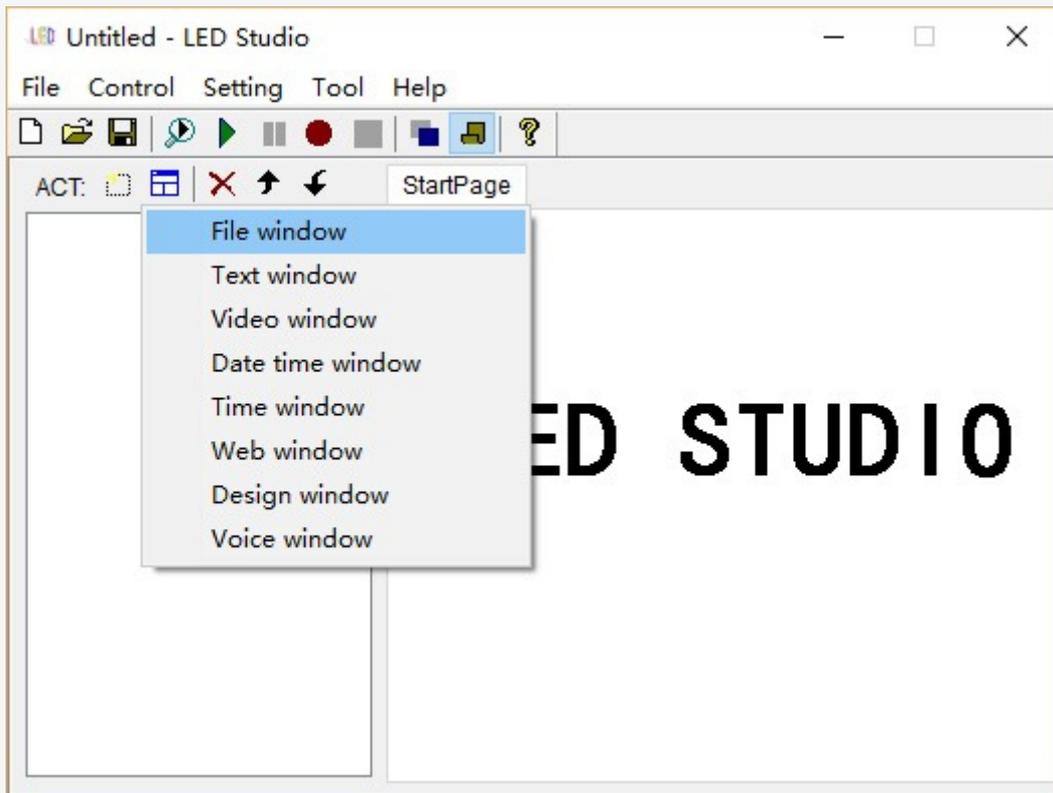- Black is connected to GND on the controller.

- Blue and red are connected to a DC5V power supply.

- Yellow is connected to DAT on the controller.

- **In some cases, you need to import video; just create a file window.**

Questions & Answers

Q: How many LEDs can you control with a computer?

A: Drive a maximum of 8192 pixels with 8 output ports.

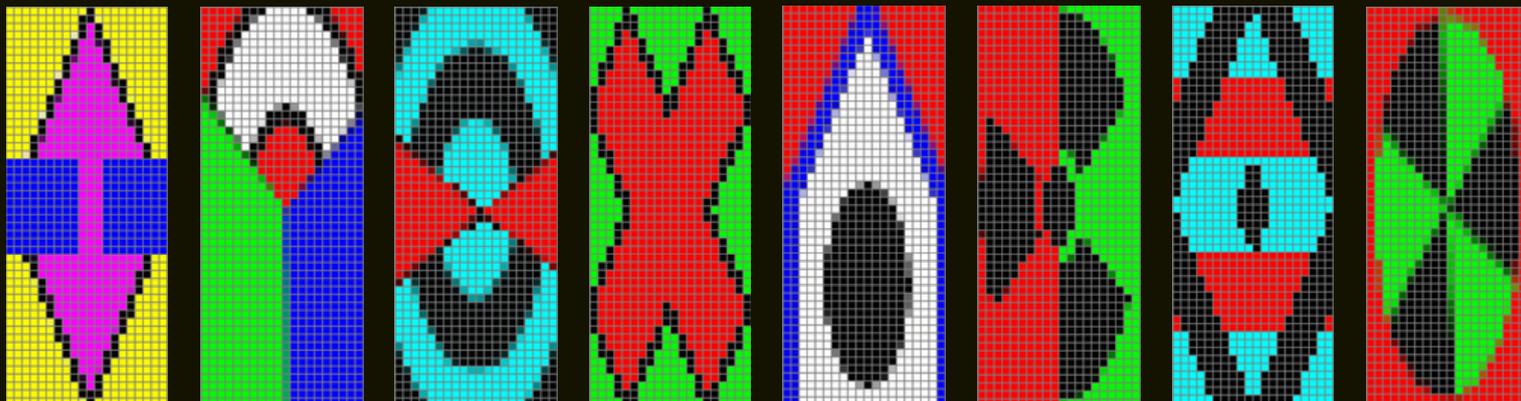**Q: What is the software for this controller?**

A: Connected to the master controller (offline mode) Software: LED Build

Connected to the PC (online mode) Software: LED Studio.

Q: Does it support master-slave settings?

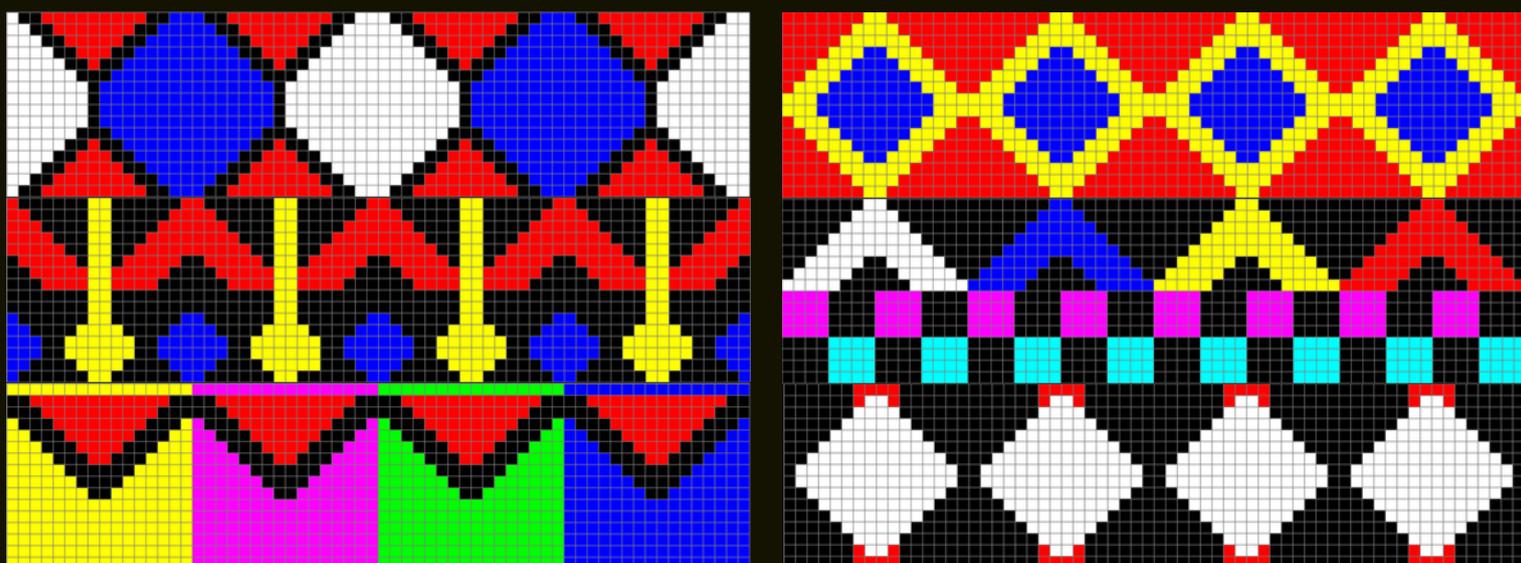**A: Yes, one master controller can follow several slave controllers.**

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