

RGB LED Controller for DigiRibbon

LC-0RGB-WiFi-01



Features

Used for 5V-24V RGB DigiRibbon LED strip. Can be used with iPhone / iPod / iPad or Android device (mobile phone, tablet PC) to control color, brightness and changing patterns of the LED strip.

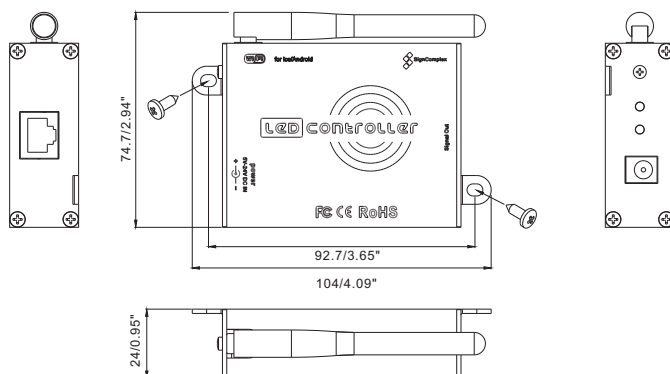
- 1 Work with Apple IOS4.1 above system or Android 2.1 above system.
- 2 Free software download form apple or Android store.
- 3 Compatible with several kind of chips including LPD1109, SM16716, LPD6803, LPD8803, WS2801, TM1803, TM1809.
- 4 Humanity software GUI design, easy to use.
- 5 347 predefined pattern and 50 customer mode.
- 6 RJ-45 interface for output.
- 7 Compatible with different voltage digital RGB strip.

Technical Parameter

Voltage : 5V-24V DC
 Output Power : 100w (max)
 Control distance : >20m
 Weight : 130g



Dimensions (Unit: mm/inch)



Instructions:



1. Connect the strip to the controller.
2. Download and install free software **PlayLED** at Apple/Android store into your iPhone / iPod / iPad/ Android device. Make sure you choose **PlayLED** access point and your device connects to WI-FI network. Launch **PlayLED** application. If the connection failed, check the WI-FI connection, then restart PlayLED. If no prompt pops out, it means the iPhone / iPod / iPad / Android device and the controller are connected successfully.
3. After the success of the connection enter figure 1 interface. Under **IC Model** use the scroll wheel to select the Chip (including LPD1109, SM16716, LPD6803, LPD8803, WS2801, TM1803, Tm1809-low speed mode) for your digital ribbon, under **Length** select the ribbon's Length (2M-100M, 10 pixels/meter). Every time when you change the **IC Model** or **Length**, a prompt will pop out to let you confirm and save the settings, as shown in figure 2. Touch  to enter user manual (figure 3) which has brief instructions. Touch  return to figure 1 .



figure 1

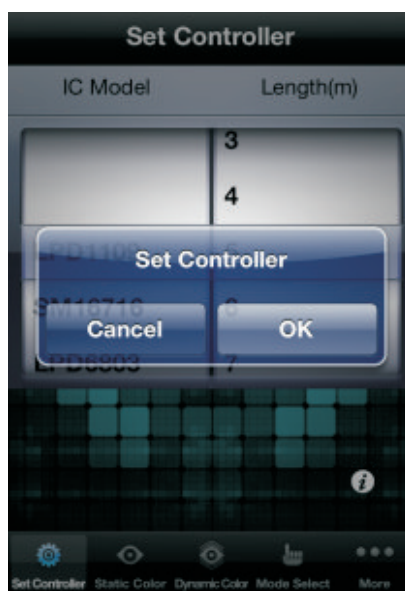


figure 2



figure 3











4. Touch **Static Color**, to enter the Static model: you can choose your favourite color by Hand, G-Sensor or random choice (figure 4,5,6), then whole strip will light up the color you have picked instantly.
5. Touch **Dynamic Color** to enter Dynamic mode (figure 7). Slide your finger on the screen, and the drag tail chasing light color will follow the trace of your finger.
6. Touch **Mode Select**, enter mode selection (figure 8)
 - a) 5 kinds of dynamic modes are available under **Mode**: (1.  Gradual change 2.  running water chasing light 3.  a segment chasing light 4.  drag tail chasing light 5.  two sections drag tail chasing light)
 - b) Color effect of single color or gradual change color can be selected under **Effect**.
 - c) Flow direction of light can be selected under **Direction**: (1.  : move to right, 2.  : move to left, 3.  : cross move, 4.  : shrink move, 5.  extend and shrink move).
 - d) Can adjust freely the effect and direction under mode 2,3,4 and 5. Mode 1 is unique: When you choose single color under **Effect**, the light of strip will be gradual changed from dark to light and then light to dark. **Direction** and **Brightness** don't work. When you choose gradual change color of **Effect**, right direction is mix gradual change, other direction is running water change, and the changing speed is adjustable, while brightness doesn't work.



figure 4

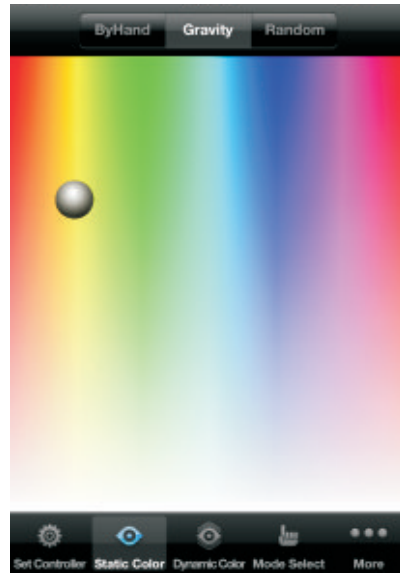


figure 5

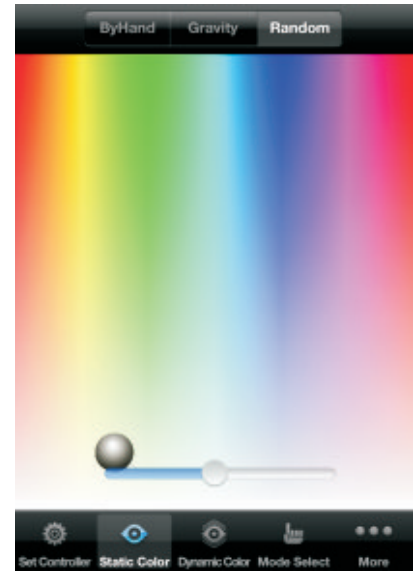


figure 6



figure 7

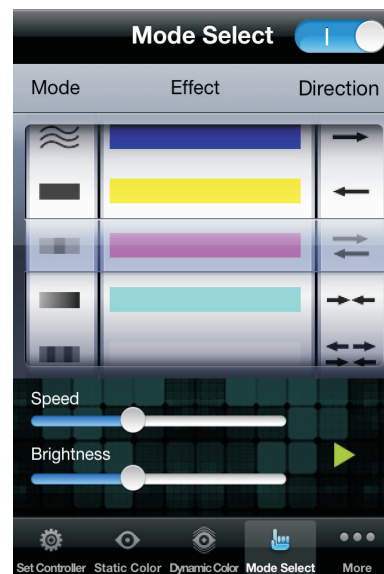


figure 8

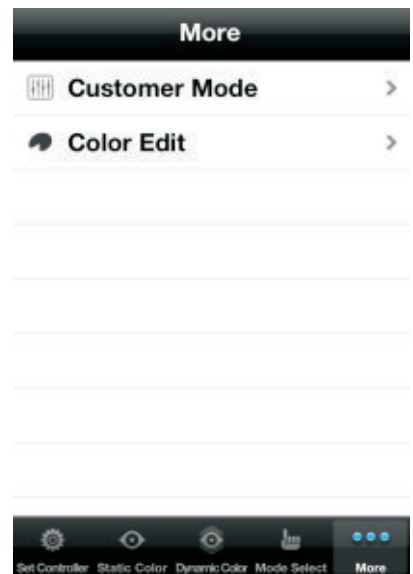



figure 9

7. Touch **More** to enter Figure 9:

- a. Touch **Color Edit** to enter Figure 10 which you can edit the static color for your strip. **Begin**, **End** stand for the beginning and end point of pixel respectively on your strip. As shown in figure 10, input Begin 0-End 50, and then touch  to control 0-50 pixel on your strip. You can pick any color (on color board in the range of pixels to be controlled) for your LED lamp bead, or input the RGB values directly.
- b. Touch **Customer Mode** to enter figure 11 which you can customize the dynamic mode for your strip (total 50 customized Modes). Touch **Customer** to enter **Mode Edit** (Figure 12). Touch **click me** under **Background Color** to enter background color edit interface as in figure 13. You can

either touch or input the RGB value to choose background color. Touch number 1, 2, 3, 4, or 5 under **Mode** to choose relevant dynamic mode(refer to point 6). Touch number 1, 2, 3, 4, or 5 under **Direction** to choose relevant dynamic direction(refer to point 6). Select exist color effect under **Color Effect**. Touch **-** to delete the newly setting color effect. Touch **+** to enter figure 14 to pick extra color effects (the maximum no. of extra pattern is 10).

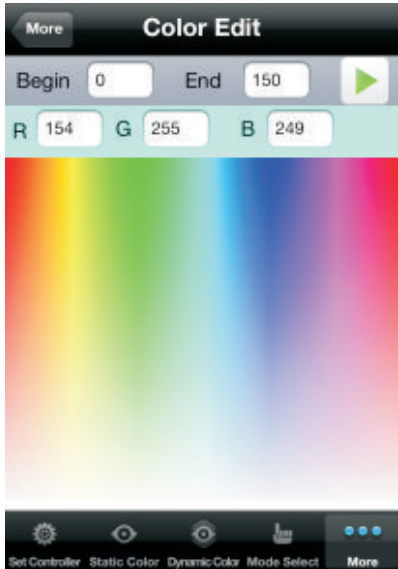


figure 10

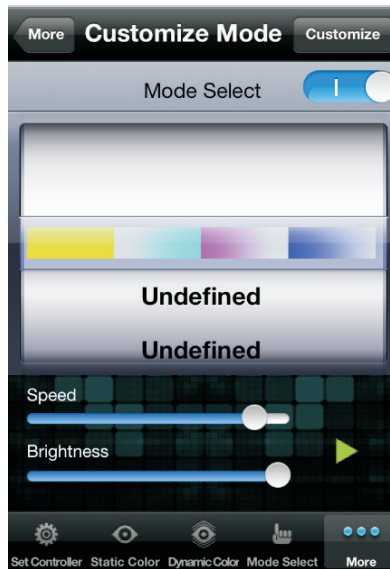


figure 11



figure 12

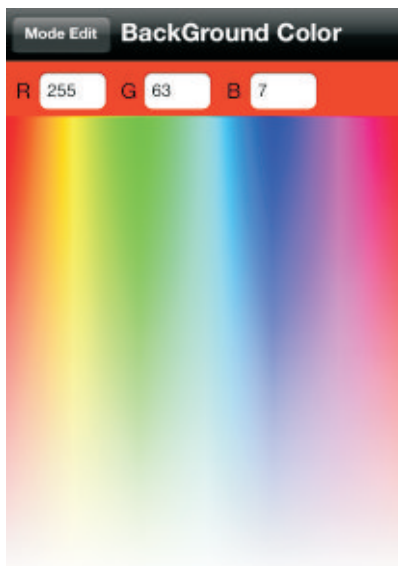


figure 13

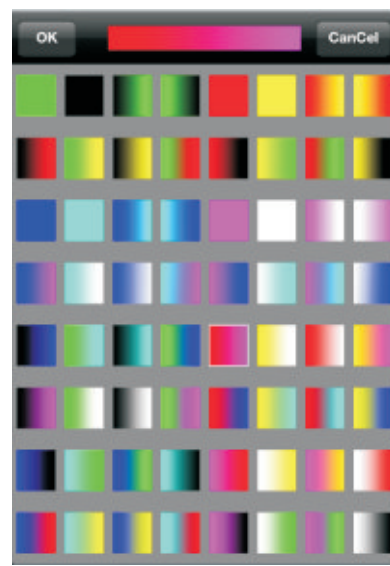


figure 14

Control multiple controllers

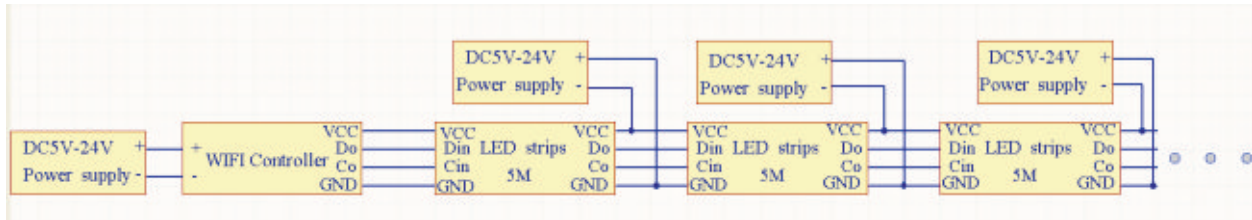
If it is need to use one iPhone/iPod/iPad/Android device to control multiple controllers, use laptop to connect to controller wireless network and open the IE browser to input 192.168.2.3 at address bar, then press enter key to enter controller WiFi routing login page.

Fill in the username and password, admin is the default value for these 2 items, click login to enter routing control page.

Now, click WiFi Wizard

After modified the WiFi network name of controller respectively, click Finish, then click Accept, restart WiFi module, the newly named network name could be seen in the Apple/Android device WiFi connecting.

Linking Operation:



Notes

1. Please use DC5V-24V power supply for the controller, directly use the civil high voltage power supply is forbidden.
2. For escape burn out the controller, output power should not exceed its maximum value.
3. What if accidentally lost wireless network signal and failed to connect controller?
 - a.) Double press home button (Android device press exit.), enter backgrounder to close the PlayLED application.
 - b.) Restart your LED controller, disconnect power supply first and then connect it.
 - c.) Enter settings to close wireless network and then reopen
 - d.) Connect to wireless network, open LED Controller
4. Because LED Controller use fixed port access controller WiFi network, so the controller can only work with a iPhone / iPod / iPad / Android device at the same time, if you find it connect to the WiFi network but can't connect to the controller, please check if the controller is already connected to other device.
5. If strip isn't work properly, please check data lines of CLK and DA of strip whether corresponding to controller, you can switch the data lines of CLK and DA and then connect to the controller to try.
6. The screen shots come from iPhone. Since Image resolution of Android devices are different, there is certain difference of display in different device interface.
- ⚠ 8. Can only be connected with Signcomplex's 5V-24V RGB DigiRibbon LED strip, otherwise the controller or LED strip would be burnt out. If you would connect to other Digital Strips, please contact us firstly.
- ⚠ 7. When installing the controller, first cut off the power of controller, connect well the LED light with controller, then connect the controller to power supply, please check if it is connected well before connecting to power supply. Our company cannot accept any liability for the damage due to incorrect connection or failure to follow the instructions.

Packing List

1. The controller
2. The owner's guide
3. RJ-45 interface output line