

**TaoTronics®**

**North America**  
 Website: www.taotronics.com  
 E-Mail: support@taotronics.com  
 Tel: 1-888-646-6464 #1  
 Monday-Friday 9:00-18:00 PST  
 Address: 2000 Central Exp. Suite 203, San Jose, CA 95134

**Europe/UK/EU**  
 Website: www.taotronics.com  
 E-Mail: support\_UK@taotronics.com (United Kingdom)  
 support\_EU@taotronics.com (Germany)  
 support\_FR@taotronics.com (France)  
 support\_IT@taotronics.com (Italy)  
 support\_ES@taotronics.com (Spain)  
 support\_NL@taotronics.com (Netherlands)  
 EU Importer: 287 International Trading GmbH  
 Ledstr. 21a, 22525 Hamburg, Deutschland

**Asia Pacific**  
 Website: www.taotronics.com  
 E-Mail: support@taotronics.com (Japan)



## 5050 RGB 300 LED Strip Light 44 Key User Manual

Please read this entire guide before beginning



Model NO.:TT-SL007

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Thank you for purchasing TaoTronics 5050 RGB 300 LED Strip Light. Please read this guide carefully as it explains many important operating procedures. If you need any assistance regarding this product, please email support@taotronics.com with details.

#### I Features:

- 16 ft (5m) color changing waterproof 300 LED RGB strip light with color brightness control
  - Flexible decorating options with 3M adhesive tape on any dry and flat surface
  - IR remote controller with over charging and short circuit protection and it also comes with memory function to remember light setting
  - Easily manipulated with soft PCB board
  - Double layer copper on PCB board to reduce resistance and keep the mixed colors more even
  - There are 16 lighting grades individually for red, green and blue color. So you will get 16x16x16=4096 different colors.
  - Press DIY1, there are up and down arrows respectively for red, green and blue, adjusting red, green, or blue to your prefer color by pressing these arrows, then press DIY1 again, DIY1 SET is ok. Same set as DIY2-DIY6. Once you set DIY1-DIY6, your set will be saved, you will get same color for next time until you would like to reset.
- II Application:**
- Home: kitchen, dining room, living room, bedroom
  - Commercial and office decorations: shopping mall, hotel, exhibition, shows, meeting room, etc
  - Leisure: club, bar, KTV, cafe, beauty salon
  - Holiday decorations: party, holiday theme
  - Advertisement signs, light box, business sign, etc

### III Package Content:

- 1 1 X 5m 5050 300 LED strip light
- 2 1 X 44 key panel
- 3 1 X IR controller
- 4 1 X 12V 5A 60W 5.5 X 2.5 2-PIN Adapter
- 5 1 X User manual

### IV Know your products:

#### LED Strip Light

4 male Pin RGB 5050 LED

### Specification:

LED Qty	300 LEDs
Output Power	45 W
Size	5000 x10 x 2 (mm)
Color	RGB
Working Input Voltage	DC 12V
Max. Current	3.75A
Working Temperature	-20°C ~ 45°C
Connection	Common Anode
View angle	120°
Lifecycle	50000 hours
Package size	190 x 195 x 65 (mm)
Weight (GW)	251g

#### IR Controller Details:

### 44-key Infrared Remote Controller:

The 44-key infrared controller works from up to 8-10 meters away from the strip light. It gives you the option to adjust the brightness, static color choice and other lighting effects.

- 1 On and off for remote.
- 2 Pause/Run: Under Jump3, Jump7, Fade3, Fade7 and Flash Mode, press this button, it will Pause, press again, it will Run.
- 3 You can adjust 8 lighting grades for these 20 static colors by pressing brightness.
- 4 You can adjust 8 lighting grades for these 20 static colors by pressing brightness.
- 5 There are 20 static color for choosing, red, green, blue, white etc.
- 6 There are 16 lighting grades individually for red, green and blue color. So you will get 16x16x16=4096 different colors.
- 7 Press DIY1, there are up and down arrows respectively for red, green and blue, adjusting red, green, or blue to your prefer color by pressing these arrows, then press DIY1 again, DIY1 SET is ok. Same set as DIY2-DIY6. Once you set DIY1-DIY6, your set will be saved, you will get same color for next time until you would like to reset.
- 8 Under Jump3, Jump7, Fade3, Fade7 and Flash Mode, you can speed up color changing at total 8 grades.
- 9 Under Jump3, Jump7, Fade3, Fade7 and Flash Mode, you can slow down color changing at total 8 grades.
- 10 Press this button, Jump3, Jump7, Fade3, Fade7 and Flash can automatically change periodically. Jump3: 3 colors jumpy change
- 11 White on and off
- 12 Jump3: 3 colors jumpy change
- 13 Jump7: 7 colors jumpy change
- 14 Fade3: 3 colors fade change
- 15 Fade7: 7 colors fade change

### Power Adapter

12V 5A 60W 5.5 X 2.5 2-PIN Adapter

For EU For US

### V Installation:

**WARNING:** Cutting the LED strip light will void its warranty. We have included detailed instructions on how to cut the LED strip light as requested by our customers. However, we do not recommend cutting since this will void the warranty cover of the LED strip light. We do NOT accept return request for any cut LED strip lights.

#### Single LED Strip Light Connection:

To connect a single LED strip light, connect the adapter with the controller first, then connect the controller to the LED strip light.

1. Connect power adapter to the controller

### 2. Connect the LED light to the controller

### 3. Use remote controller to control the LED light

### Multiple Strip Lights Installation:

To connect multiple strip lights:

1. Connect the controller with power supply
2. Connect the first amplifier with the controller. Make sure the cable sequence is correct. If your connection from amplifier should also be in RGB connect. Make sure connects are well insulated.

### 3. Connect power adapter (either DC or industry power adapter) to amplifier

DC 12V Power Supply

### 4. Each amplifier can support up to 2 LED strip lights. Please make sure the line sequence is correct.

### 5. You can connect additional amplifier to the first amplifier, but every amplifier must be powered by its own power adapter.

**Note:**

- 150 LED strip lights requires 36w of power each; if you connect 2 x 150 LED strip lights to the same amplifier, you need to make sure the power adapter for the amplifier is greater than 72w.
- 300 LED strip lights require 45w of power each; if you connect 2 x 300 LED strip lights to the same amplifier, you need to make sure the power adapter for the amplifier is greater than 90 W
- Controller power required more than 36w for 150 leds strip light and 45w for 300 leds strip light.

### How to cut LED strip lights:

The TaoTronics LED strip lights can be cut into sections with at least 3 LEDs (or multiples of 3 LEDs). To cut the strip light, you MUST cut at where the 3 parallel strips of copper conductors are. You MUST cut in the middle at 90 degrees perpendicular to the strip light. This will ensure maximum connection when rejoin the strip lights.

**Note:** Our LED strip lights come with water resistant coating. Please scratch the water resistant coating off from the copper conductor to allow good connection

### Connecting two LED strip lights using connectors:

**Note:** connectors are not included in package  
 Strip light connector is an easy way to join two LED strip lights together. To connect two strip lights using a connector:

1. Make sure the LED strip light is cut clean and water resistant coating is removed. Peel off just enough back tape so the LED strip light can be inserted into the connector
2. Peel off just enough back tape so the LED strip light can be inserted into the connector
3. Make sure line sequence from both sides of the connector are matching. If the line sequence is +RGB, you must plug the LED strip light in +RGB sequence

### 4. Once the strip light is connected, you can bend the connect or make it suit your decoration

**Caution:**

- **WARNING:** Cutting the LED strip light will void its warranty. We have included detailed instructions on how to cut the LED strip light as requested by our customers. However, we do not recommend cutting since this will void the warranty cover of the LED strip light. We do NOT accept return request for any cut LED strip lights.
- Please make sure all connections are well insulated
- Please do not work on the LED strip while it is connected to any power source.
- If you are in doubt, please seek professional advice or contact TaoTronics by email to support@taotronics.com.

### Single Light Wiring Diagram

A: DC IN 12V  
 B: 2.54 Connector  
 C: Infrared Receiver

### Multiple Lights Wiring Diagram

### VI Trouble Shooting

**Warning:** Cutting the LED strip light will void its warranty. We have included detailed instructions on how to cut the LED strip light as requested by our customers. However, we do not recommend cutting since this will void the warranty cover of the LED strip light. We DO NOT accept return request for any cut LED strip lights.

**After connecting the controller and turn on the power, there is no light:**

- Check input power: Make sure enough power is supplied and the input power voltage must meet the voltage required by strip light. When the input voltage is too low, it will fail to turn on, while too high voltage may damage the circuit. Adapter output power (value in KW) must be equal or greater than power of LED strip light.
- Check if the controller is connected correctly. Make sure each cable is connected correctly.
- Make sure the remote is on.
- Please make sure both the controller and LED lights are common anode. If you are using common cathode LED lights, it will NOT work.
- Check whether the MOS is burned.
- The LED light may be defective if all the possibilities mentioned above are ruled out.

**LED lights are on, however the remote/controller is not working or cannot control LED lights**

- Make sure input power is 12V and has enough power to turn on the LED lights;
- Check if you have removed the insulation piece (transparent plastic) from the remote;
- Make sure batteries on the remote are installed correctly;
- Make sure the controller and LED strip lights are common anode;
- Make sure remote is within range (8-10) meters (Note: strong sunlight will affect remote and cause malfunction);
- Try changing the remote battery.

### LED strip lights are connected, but the light color is different from the controller color

- TaoTronics strip lights and controllers both use +RGB sequence. If you are using products from another brand/source, please make sure it is also in +RGB sequence. If not, you will need to figure out the right sequence of connection
- Check the MOS inside the controller and see if it is burned;
- Please do not work on the LED strip while it is connected to any power source.
- If you are in doubt, please seek professional advice or contact TaoTronics by email to support@taotronics.com.

### Uneven brightness when multiple LED lights are connected in a row (series connection)

- The current is too big for the controller to handle;
- It is necessary to add an RGB Amplifier.

### After connecting multiple led strip lights with connector, the lights are not on

- Please make sure the welding points/connections are clean

### After cutting and joining/connecting led strip lights, some led lights are not on both sides of the joint are not on

- Possibly the strip light is NOT cut in the correct place. You MUST cut in the middle of the copper conducting strip in order for the conductor strip to re-align;
- Check if the welding points/connections are clean;
- If you are using a connector to join the LED strips, check if the 4 welding points are connected correctly between connector and strip lights;
- Our strip lights are waterproof and there is a layer of waterproof material on top of the copper conductor. When cutting the strip you must scratch off the outer/waterproof layer and make sure the copper conductor is clean before making connections, otherwise the electric current will not be able to go through.

### After connecting to an amplifier, the LED lights behind the amplifier are not on

- Make sure the amplifier is connected with the adapter and the amplifier is powered on;
- Possibly the input LED strip is connected to the output connectors on the amplifier or vice versa;
- Make sure the strip light is connected to the amplifier in correct +RGB sequence.

### The strip light color is different from the controller selected color

The controller output sequence may be wrong. Please note that the wire color of strip light should match the output sequence of controller. For example: if the strip light wire sequence is +GRB, the controller output sequence should also be +GRB or the color will be wrong. The following steps can help you to figure out the right sequence:

1. Normally, common wires on the controller and strip light are either black or white. Connect the 2 common wires first, and then finish by covering the connection part with insulation tape to prevent any short circuiting.
2. Connect one of the 3 wires from the controller to any one of the 3 wires on the strip light (do not count in the common wires). Tape the connection with insulated tapes. Turn on the power and see what color is the strip light. If the light is in GREEN, you can mark the wire on the strip light "2G" (G for green), and this wire corresponds to green light. (The wire itself may have a different color, just ignore the color of the wire). Take apart this connection after marking;
3. Connect any one of the 3 wires on the controller (exclude the common wire) to one of the 3 wires unmarked wires on the strip light (exclude the common wire and the wire that you have just marked). Tape with insulating tape and turn on the power. See what color you get on the strip light. For example, if the strip light is in RED, you can mark the wire on the strip light "2R". Take apart this connection after marking.

4. The last un-marked wire on the strip light is the wire for the remaining color. For example, if you have already marked GREEN and RED, then the remaining wire is the BLUE color.
5. Now you have identified the correct wiring on the strip light. Next you need to identify the corresponding wire on the controller.
6. Turn on the controller; press the red button on the controller, then turn off the controller. Connect the RED wire from the strip light (previously marked with 2R) to one of the 3 wires on the controller (exclude the common wire), power on the controller. If the strip light lit then turn off the controller. Connect the green wire from strip light (now labeled 2G) to any one of the remaining two wires on the controller (exclude the common wire and the red wire). Turn on the controller again. If the strip light lit up in GREEN, then you have corrected connected the green wire. If not, try the other wire. Once you have identified the green wire, tape the connection with insulation tapes.
7. Turn on the controller and press the green button on the controller, then turn off the controller. Connect the green wire from strip light (now labeled 2G) to any one of the remaining two wires on the controller (exclude the common wire and the red wire). Turn on the controller again. If the strip light lit up in GREEN, then you have corrected connected the green wire. If not, try the other wire. Once you have identified the green wire, tape the connection with insulation tapes.
8. Connect the wire labeled with 2G from the controller to the last remaining wire on the strip light. Tape the connection with insulation tapes.

### VII Technical Assistance:

For technical assistance, please email to SUPPORT@TAOTRONICS.COM with your purchase order number and a detailed description of your issue. We normally respond to enquiries within 24 hours.

For more information, please visit www.TaoTronics.com.

### Warranty:

This strip light is covered with TaoTronics parts and labor warranty for 12 months from date of the original purchase from authorized retailer and distributor. Please contact TaoTronics Support (support@taotronics.com) immediately to launch a warranty claim. We will instruct you on how to return the defective unit back to us for repair and replacement.

We do not accept cut or partial LED strip light return or refund. No return will be accepted without seller authorization.

### Statement

We can only provide after sale services for products that are sold by TaoTronics or TaoTronics authorized retailer and distributor. If you have purchased your unit from a different place, please contact the seller for return and warranty issues.