Safety & Warnings
This product is intended to be installed and serviced by a qualified licensed electrician. Install in accordance with the National Electric Code, and local regulations. Only power with a regulated (listed) constant voltage Class 2 power supply (12-24V DC).

Ensure applicable wire is installed between driver, fixture, and any controls in between. When choosing wire, factor in voltage drop, amperage rating and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires and cause fire.

This product is rated for indoor installation and only for dry locations.

Do not modify this product beyond the instructions in this guide or the warranty will be voided. Wiring diagrams in this installation guide for basic installations. Please carefully review your installation before proceeding.

WiFi-104 is a versatile RGB color control lighting system. Through WiFi function and mobile devices, the WiFi-104 can control various types of RGB LED lighting products via iOS or Android.

WiFi-104 lighting control system integrates four functional controls including; dimming, color temperature adjusting, RGB and RGBW (that can be set as single color temperature). The 104 can control up to 12 zones areas using the optional wireless R4-5A Zone Receiving controller.

WiFi-104 control system supports direct connection or by router:
In directly connection, mobile phone, IOS and Android can directly control the WiFi-104 controller + R4-5A/R4-CC wireless control, without any third party of network equipment. Included is a 2.4G RF remote (M12) if software is not used.

1. Product Parameter:

<table>
<thead>
<tr>
<th>WIFI-104 Controller</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication Standard</td>
<td>Wi-Fi, 802.11 b/g/n Protocol</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>DC12V~DC24V (Use only with Class 2 listed regulated power supply)</td>
</tr>
<tr>
<td>Max Current Load</td>
<td>4A x4CH Max</td>
</tr>
<tr>
<td>Max Output Power</td>
<td>192W/384W (12V/24V)</td>
</tr>
<tr>
<td>WiFi Control Distance</td>
<td>100m (Distance of cross-eyed)</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>-20°C ~ 40°C</td>
</tr>
<tr>
<td>Package Size</td>
<td>L135 x W80 x H64mm</td>
</tr>
<tr>
<td>Product Size</td>
<td>L128 × W73 × H45 mm</td>
</tr>
<tr>
<td>Weight(G.W.)</td>
<td>290g</td>
</tr>
</tbody>
</table>
### WiFi-104 Wi-Fi Controller

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wireless Frequency</td>
<td>2.4GHz</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>DC3V (CR2032 button battery)</td>
</tr>
<tr>
<td>Transmitting Frequency</td>
<td>2.4GHz</td>
</tr>
<tr>
<td>Remote Distance</td>
<td>30m (Distance of cross-eyed)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>L 104 × W 60 × H 9 mm</td>
</tr>
<tr>
<td>Working Voltage</td>
<td>100W/240W (12V/24V)</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>-20°C ~ 40°C</td>
</tr>
<tr>
<td>Product Size</td>
<td>L 175 × W 44 × H 30 mm</td>
</tr>
<tr>
<td>Weight (G.W.)</td>
<td>290g</td>
</tr>
</tbody>
</table>

### Configuration Diagram

![Configuration Diagram](image)

### Controller Operating Instructions

1. **Install / Uninstall ANTENNA**
   Rotate Antenna clockwise to install. To uninstall rotate Antenna anti-clockwise

2. **Light Indicator Instructions**
   - **RUN**: It flashes quickly about 25s during the *electric initialization*. Flashes once per second after initialization
   - **LINK**: It keeps on when the *mobile device* connected with WiFi controller, and turns off when disconnected

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Copyright ©2014 LED WORLD INC™. All Rights Reserved. We are not responsible for errors or omissions. Product and specifications subject to change without notice. Registered trademarks are owned by their respective registrars, or licensee(s).
3). SSID Number Setting
Set the controller’s SSID number with code switch. SSID number range from WiFi-104-SSID-0 to WiFi-104-SSID-F. which means our product could set 16 isolated LAN in the same area. The controller will re-enter initialization status once the code switch changes. RUN indicator light will flash quickly about 25 seconds, mobile device need to search and connect WiFi again after Initialization finished.

4). MATCH Key and SCENE Key
Short press MATCH key and WiFi controller will begin its learning ID status for the standard M12 remote. Short press SCENE key sequentially to the user-saved scene modes, 4 scene total.

**Restore factory settings/Delete password**
Long press MATCH key and SCENE key simultaneously more than 2 seconds, the machine will back to the default parameter, including the parameters of changing modes, zones, group parameters and network parameters. In default parameters: Only the 1st zone is present, default RGBW mode, the changing mode is RGB skipping, the brightest is white, no groups, network SSID is WiFi-104-SSID-X (X is the actual coding switch corresponding SSID values), WiFi-104 controller restore as directly connect and the connection password is blank.

### 4. ios/Android application instructions:

1). Download Application:

![Download iOS App](image1)

![Download Android App](image2)

2). How to operate the Application:

**A). Network connection setting :**
WiFi-104 support 2 connection modes: Directly connection as router or connect by additional router.

- **Connecting WiFi controller as a router**
  Go to mobile device’s WiFi setting, Search the available WiFi Network. From the list select WiFi Network, appended with SSID-Number.(As Legend-1), (no password is set by default).
- **Connect WiFi-104 with a additional router:**
  
  a). Connect to the WiFi-104 controller, as same procedure as (A) 
  
  b). Click WiFi-104 application icon to start the app. The app will search and list the working WiFi controller automatically 
  
  c). Click “Network” key to enter Network interface as legend-3-1. Turn ON "connect to existing LAN" option and app will search the available WiFi SSID list. Choose the available router to connect (Note : Do not choose WiFi-104 controller) as legend-3-2 

Repeat the a-b-c steps if you are connecting multiple WiFi-104 controller to same wireless router.

d). Exit WiFi-104 application, go to mobile wireless network setting, choose the wireless router to connect. Start WiFi-104 application again, device will list interface as legend-2-2. Complete the same steps to connect to the additional router.

**Note:** In this connection mode, to avoid the mobile device automatically connect to WiFi-104 after the setting has completed, please click “workable WiFi-104”. On dialog box click “Forget this network” or “Cancel save”.

---

**Network interface**

- Deleting WiFi-104 controller list
- Workable zone NO
- Connected WiFi-104
- Disconnected WiFi-104 controller
- Search button for the WiFi-104 controller
- Active WiFi-104
- Network interface
- Zone function interface
- Change the interface background
- Connected Router Name

**Connected with WiFi-104 as a router**

**Connected with additional router**

**Legend 2-1**

**Legend 2-2**

**Legend 3-1**

**Legend 3-2**

Cancel saved WiFi-104 connection information
B). Main interface (5 types total)

C). The learning method of Zone control

- Turn on zone control
  Click “Zone” on the Device list, Enter Zone set interface. According to the lighting control requirements, turn on multiple zones, select the light type and naming zone.
  **Note**: Default WiFi-104 controller works as NO.1 zone, which can select if to connect lights. If not, sub-control can be replaced as the first zone.

- Learning ID
  Short press "ID learning button" on the receiver, the running light go flash to keeps on. Then select the zone number on the software interface and touch the color bar for 2-3 seconds. Long buzzer means (meantime the running light returns to flash), zone control and master control matched.

- Cancelling ID
  **Long press** "ID learning button" for 5 seconds. If success, Buzzer will sound long and louder.
D). Group

- Group can control several zones at the same time, and several zones can adjust color, color temperature and brightness together.
- You can set up to 3 groups, all zones at the same groups must be the same type, and one zone can belong to multiple groups simultaneously.
- Select the group, then the corresponding group will appear in the main interface.
- It will automatically cancel the relevant zone group settings as you changed the type or set up enabled status of the zone at the Zone Set interface.

![Group Interface](image)

Group Selection
Zone Selection
Group Name
Open the Group

![Group Operations in Main Interface](image)

E). Mode Interface for RGB / RGBW Type

- Changing mode
- Preset changing mode
- Speed Adjustment
- Brightness Adjustment

![Mode Interface](image)

F). DIY Interface

- Edit DIY Mode
- DIY mode
- Play single DIY Mode
- Playback Loop several DIY mode
- Color Frame

![DIY Mode Interface](image)

G). Scene Interface

- Scene Background
- Click to change background
- Play the scenes
- Change the scene background
- Saving the current scene
- Save scene interface
5. WiFi Network SSID Name and Password Setting

In Device list interface, click “Network key” to enter Network interface, select “Change SSID and Password” (Click” "”) to enter User Setting. Type new SSID name and password. (Min: 8 Characters, consist of 0-9, a-z and A-Z). Click “Apply” button to save the changes.

**Note:** In connection with WiFi-104 as a router, please exit software after changed the SSID name and the password, then enter the mobile device system setting to reconnect the WiFi-104. In additional wireless router connection, click in Device List interface to search again the WiFi-104 controller after SSID name change.

**Note:** If you forget the WiFi network password, please simultaneously press : and more than 2s to restore the factory default settings, It will wipe-out WiFi network password (More details on page 3 [Restore factory settings/Delete password]

6. Remote operating Instructions

**Learning ID**
Short press learning key in WiFi-104 controller. Long buzzer will sound, then press any keys on M12 remote, Long buzzer will sound again.

**Cancel ID**
Long press learning key in WiFi-104 controller for more than 6s, long buzzer will sound. Which will cancel ID (cancel all learned remotes with WiFi-104 ).

7. Wiring Diagram

1). Connect to the zones controller and LED Lights (the same way of WiFi-104 connection)

**Note:** WiFi-104 default to first zone, Master controller can choose whether connecting to LED Lights or not. If not, use wireless control to instead of the first zone.

Multiple partitions can be set to the same type or several types, such as all partitions are single color, can be set to DIM dimmer light type, such as dimmer, color temperature, RGB, and other types of lamps, different partition set to different types of lamps, the lamps connection diagram as follows:
Warning: Input voltage must be identical to output voltage of the LED fixture!

**WIRE 6-8 MM (0.25-0.30")**  
Exposed wire should not be more than 6-8 mm long & solder tip (tinned). Do not allow Wires to cross and ensure all exposed wire is fully inserted into the screw terminals. Hand tighten screw terminals. Use 22 to 16 AWG gauge wire for output terminals.

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2). Direct connection of WiFi-104 as router

3). Connect by a router

Multiple zone receiver R4-5A can be installed for each zone within effective range.
4). Remote Distance Reference

**Note:** The following distance is measured at distance open environment, in an open environment testing wireless distance will be reduced, please refer to our actual test distance before installation.

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8. Limited Warranty

We provide lifelong technical assistance with this product.

A 1-year Limited factory warranty from the date of purchase. The warranty is for free repair or replacement and covers manufacturing faults only.