WiFi-104 WiFi Lighting Control System

Before you begin, read all warnings and installation instructions.

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.**

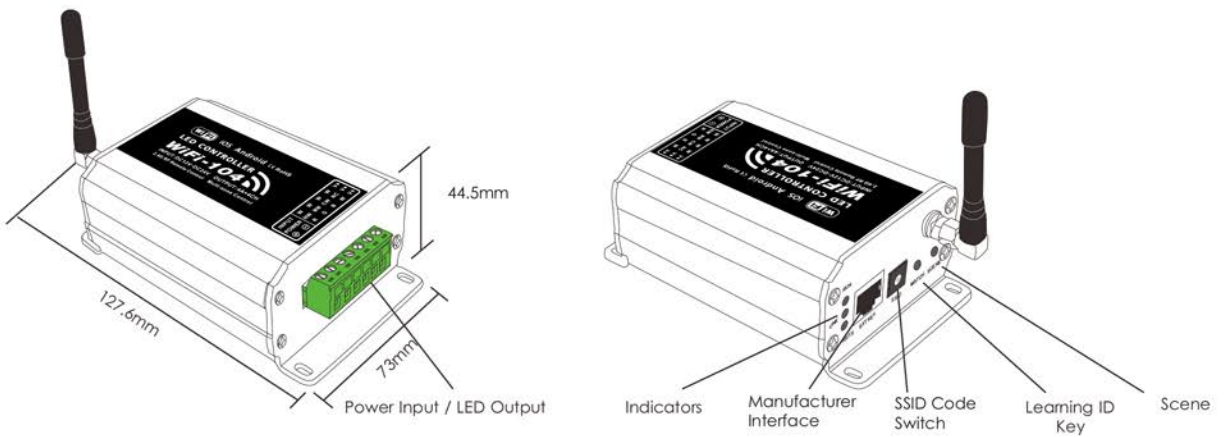**WiFi-104 control system supports direct connection or by router:**
In directly connection, mobile phone, IOS and Android can directly control the WiFi-104 controller + R4-5A/R4-CC wireless control, without any third party of network equipment. Included is a 2.4G RF remote (M12) if software is not used.

1. Product Parameter:

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

R4-5A Constant Voltage Zone Receiver	
Wireless Frequency	2.4GHz
Input Voltage	DC5V~DC24V
Max Current Load	5A × 4CH Max 20A
Max Output Power	100W/240W (12V/24V)
Remote Distance	50m (Distance of cross-eyed)
Working Temperature	-20°C ~ 40°C
Product Size	L 175 × W 44 × H 30 mm
Weight(G.W.)	110g
M12 Remote Control	
Working Voltage	DC3V (CR2032 button battery)
Transmitting Frequency	2.4GHz
Remote Distance	30m (Distance of cross-eyed)
Dimensions	L 104 × W 60 × H 9 mm
Weight(G.W.)	290g

2. Configuration Diagram

44.5mm

127.6mm

73mm

Power Input / LED Output

Indicators

Manufacturer Interface

SSID Code Switch
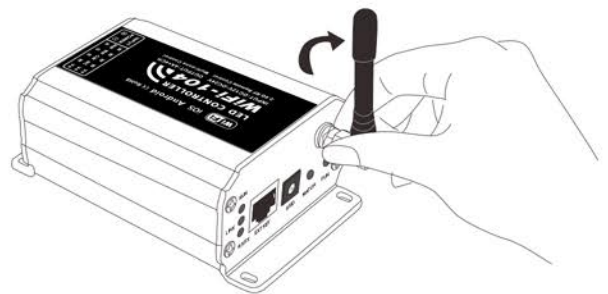
Learning ID Key

Scene

3. Controller Operating Instructions

1). Install / Uninstall ANTENNA
Rotate Antenna clockwise to install. To uninstall rotate Antenna anti-clockwise
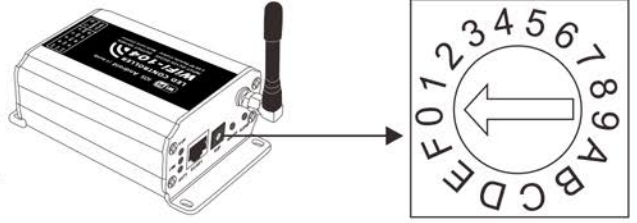
2). Light Indicator Instructions
- **RUN** : It flashes quickly about 25s during the *electric initialization*. Flashes once per second after initialization

- **LINK**: It keeps on when the *mobile device* connected with WiFi controller, and turns off when disconnected
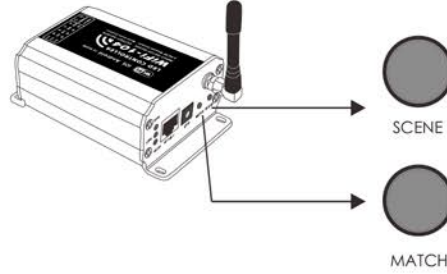

ANTENNA installation instruction

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.
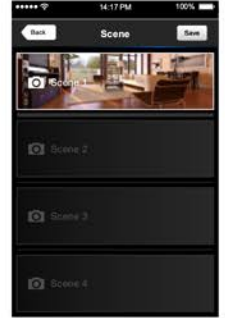
4). MATCH Key and SCENE Key

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

SCENE

MATCH

SCENE Key and MATCH Key

Scene Interface

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:

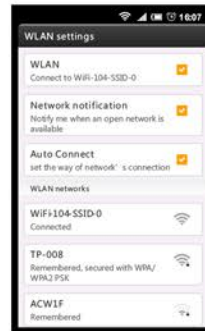scan to download ios app

scan to download android app

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).
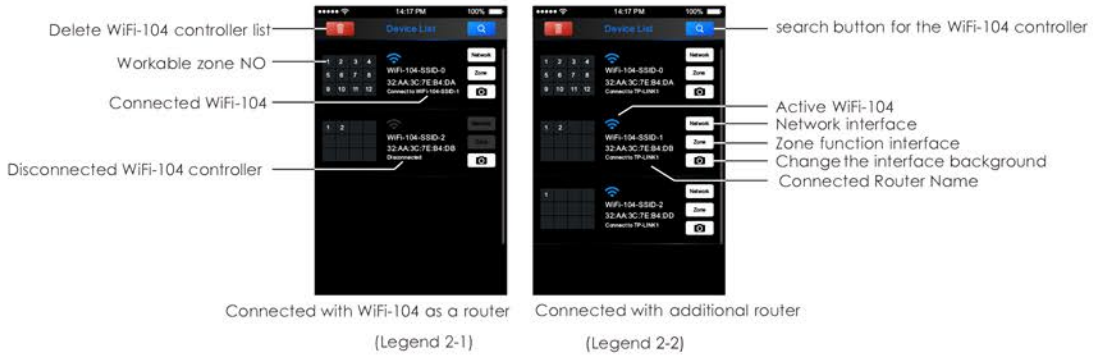
Android WiFi connection

Apple WiFi connection

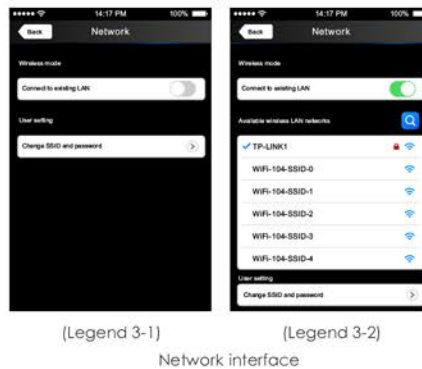(Legend-1)

- **_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

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

Connected with WiFi-104 as a router   Connected with additional router
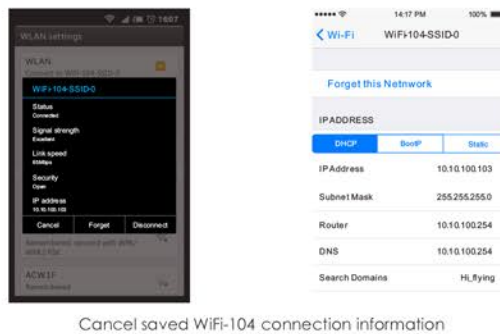
(Legend 2-1)   (Legend 2-2)

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)

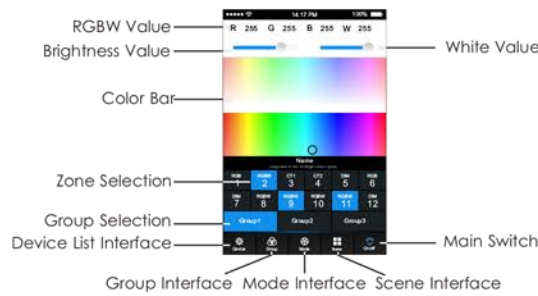Repeat the a-b-c steps if you are connecting multiple WiFi-104 controller to same wireless router.

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.

(Legend 3-1)   (Legend 3-2)
Network interface

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".

Cancel saved WiFi-104 connection information

B). Main interface (5 types total)

RGBW Value
Brightness Value
Color Bar
Zone Selection
Group Selection
Device List Interface
White Value
Main Switch
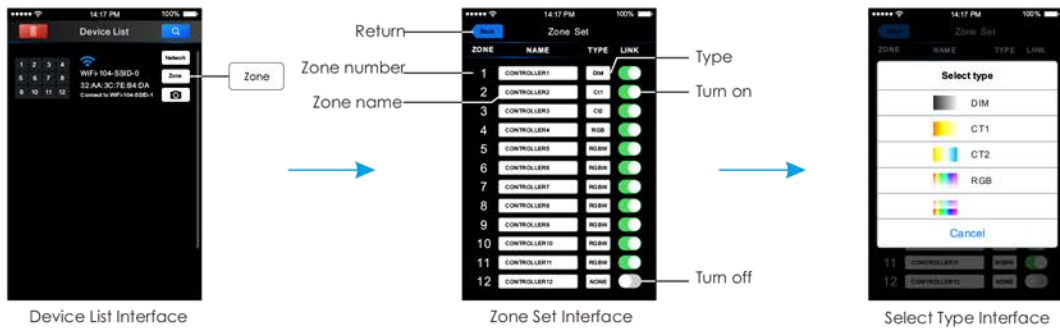Group Interface Mode Interface Scene Interface

5 Main interfaces

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 zone, 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.

Return
Zone number
Zone name
Type
Turn on

Turn off

Device List Interface

Zone Set Interface

Select Type Interface

• 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

① ID learning button
③ Color Bar
② Zone number

• Cancelling ID

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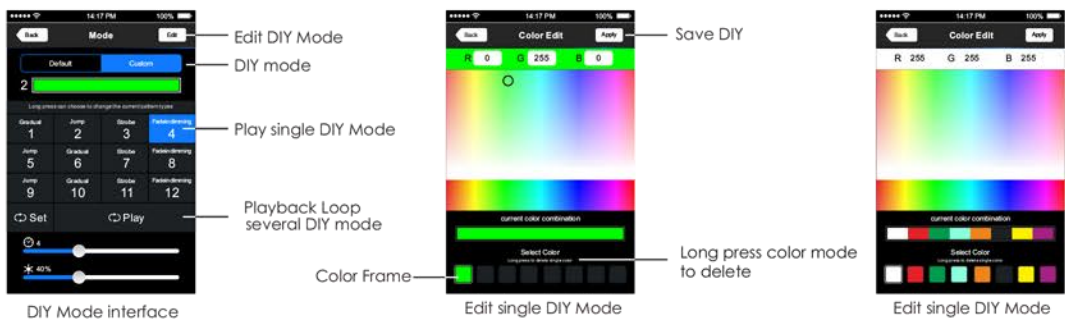
D). Group

- Group can control several zones at the same time, and several zones can adjust color, color temperature and brightness together.
- You can set upto 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**.
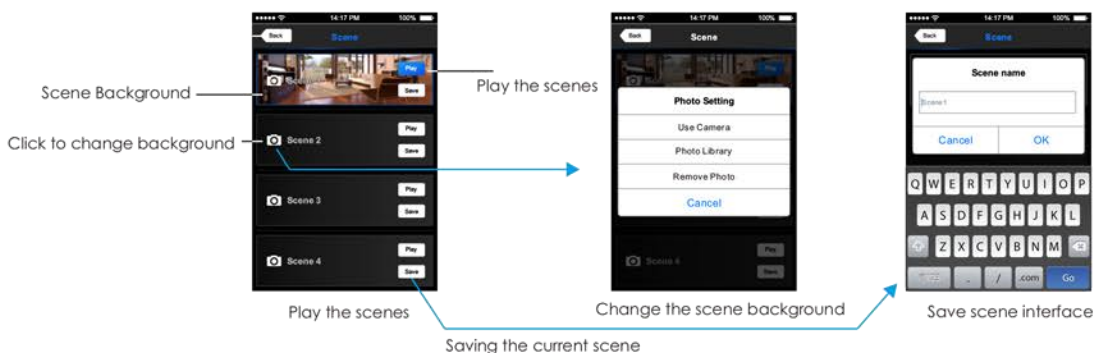

Group Selection
Zone Selection
Group Name
Open the Group

Group Interface   Group operations in main interface

E). Mode Interface for RGB / RGBW Type

Changing mode
preset changing mode
Speed Adjustment
Brightness Adjustment

Mode Interface

Long Press

Select Style

Select the type of changing effect (skipping/flash/smooth/fade)

Short Press

Play in a loop   combine changing mode

F). DIY Interface

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

DIY Mode interface

Save DIY
Long press color mode to delete

Edit single DIY Mode   Edit single DIY Mode

G). Scene Interface

Scene Background
Click to change background

Play the scenes
Saving the current scene

Play the scenes   Change the scene background   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.

| 1.Device Lists | 2.Network interface | 3.Change SSID name interface | 4.Change SSID password |

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]**
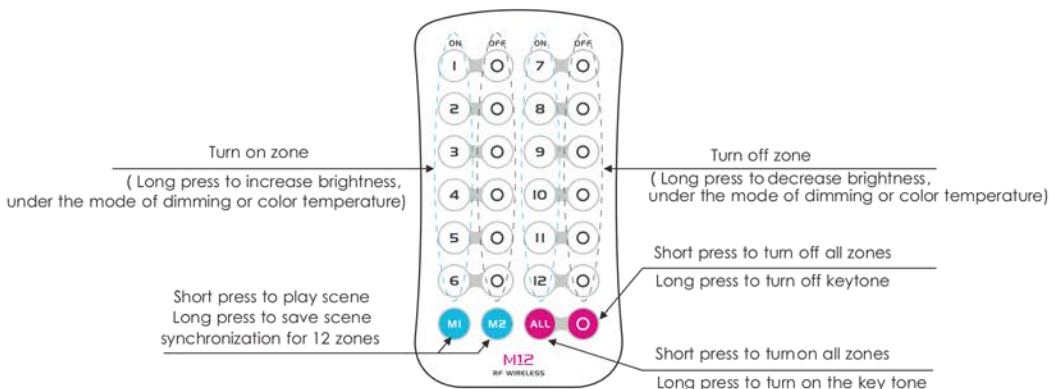
6. Remote operating Instructions

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).

Turn on zone
(Long press to increase brightness, under the mode of dimming or color temperature)

Turn off zone
(Long press to decrease brightness, under the mode of dimming or color temperature)

Short press to play scene
Long press to save scene
synchronization for 12 zones

Short press to turn off all zones
Long press to turn off keytone

Short press to turn on all zones
Long press to turn on the key tone

M12
RF WIRELESS

7. Wiring Diagram

1). Connect to the zones controller and LED Lights (the same way of WiFi-104 connection)
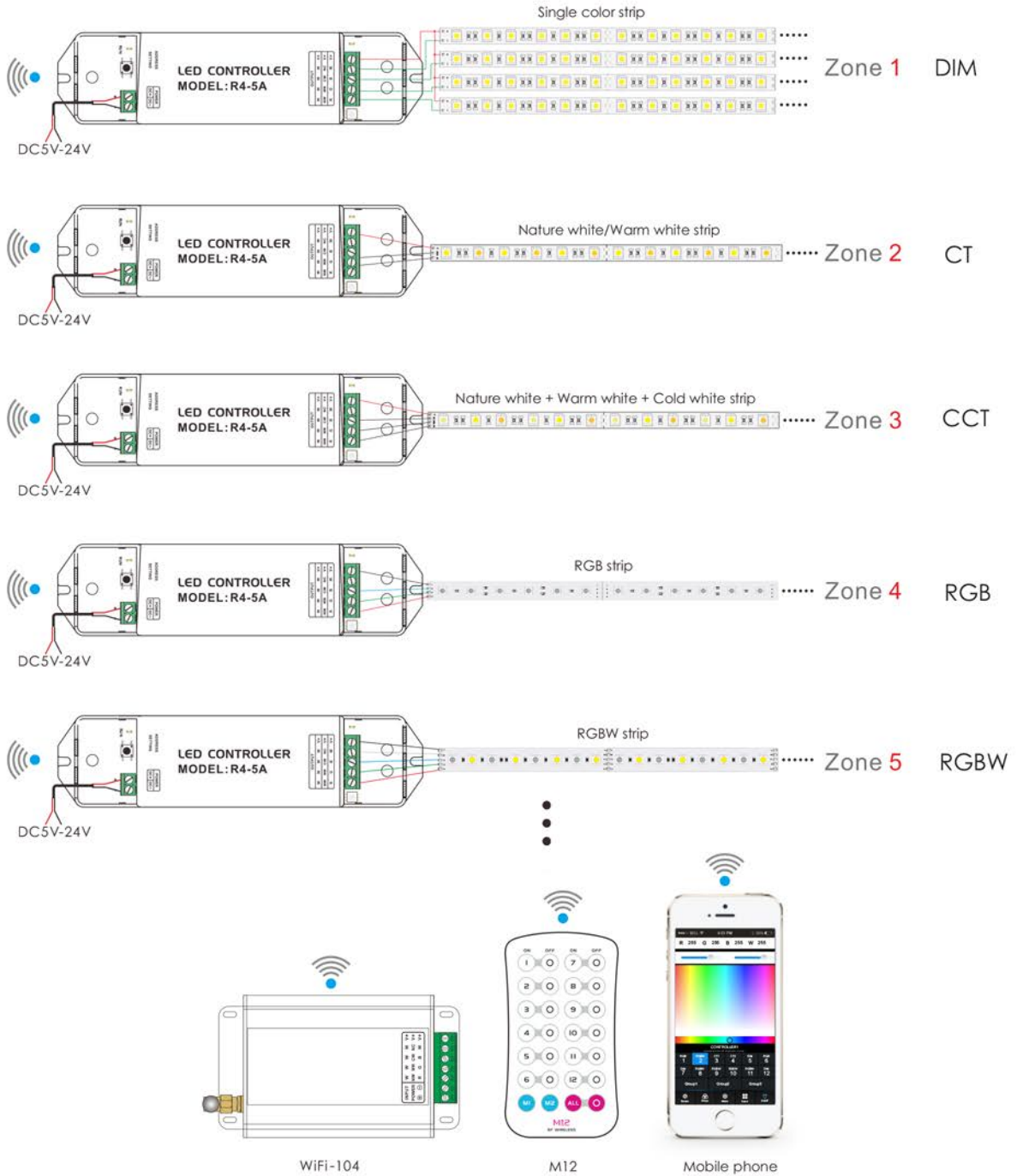**Note** : WiFi-104 default to first zone, Master controller can choose whether connecting to LED Lights or not. If not, use wireless control to instead of the first zone.
Multiple partitions can be set to the same type or several types, such as all partitions are single color, can be set to DIM dimmer 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:
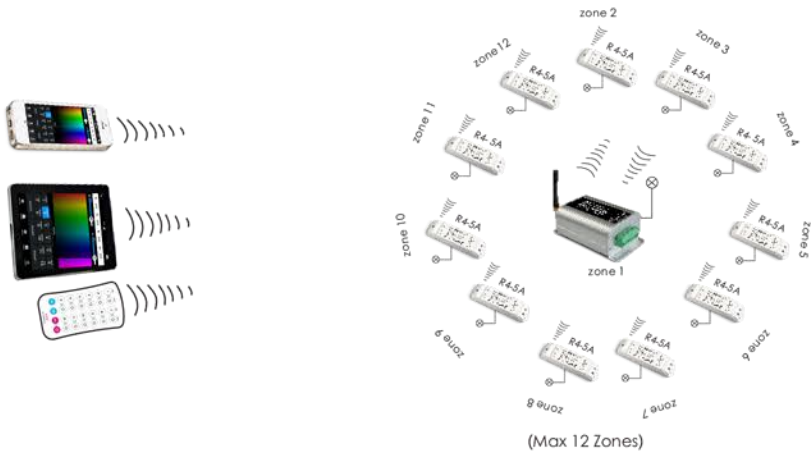
Warning: Input voltage must be identical to output voltage of the LED Fixture!
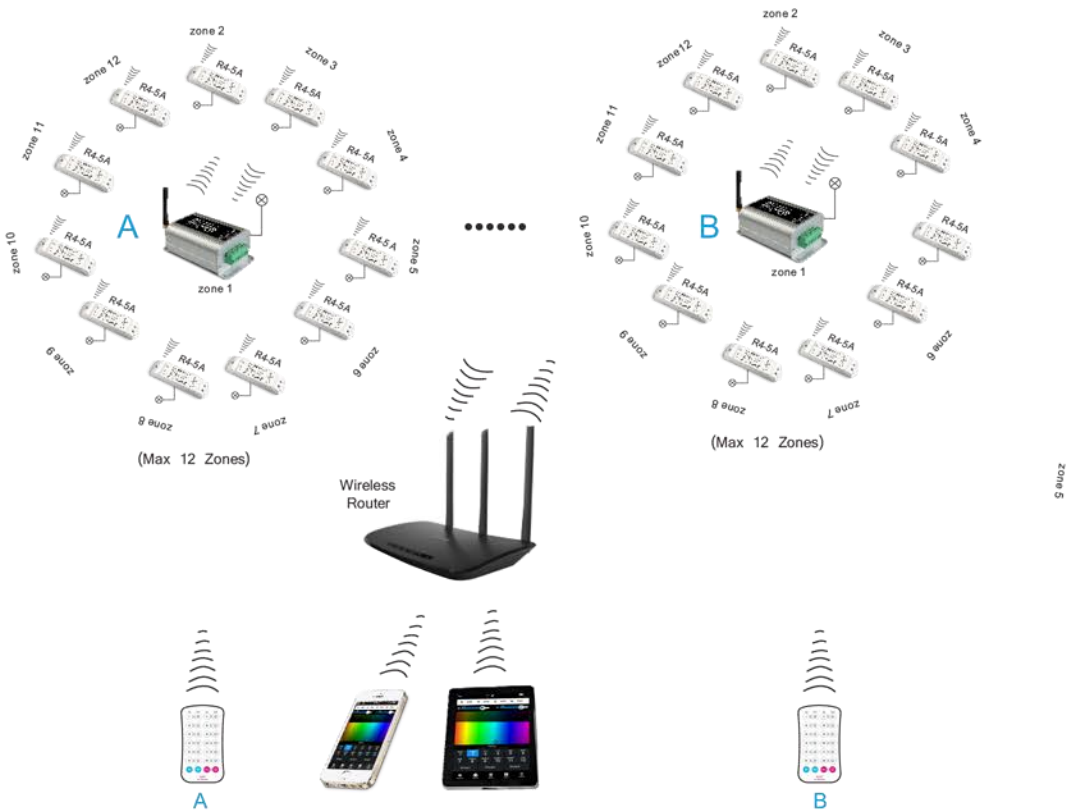
WIRE 6-8 MM (0.25-0.30")

Exposed wire should not be more than 6- 8 mm long & solder tip (tinned). Do not allow Wires to cross and insure all exposed wire is fully inserted into the screw terminals. Hand tighten screw terminals. Use 22 to 16 AWG gauge wire for output terminals.
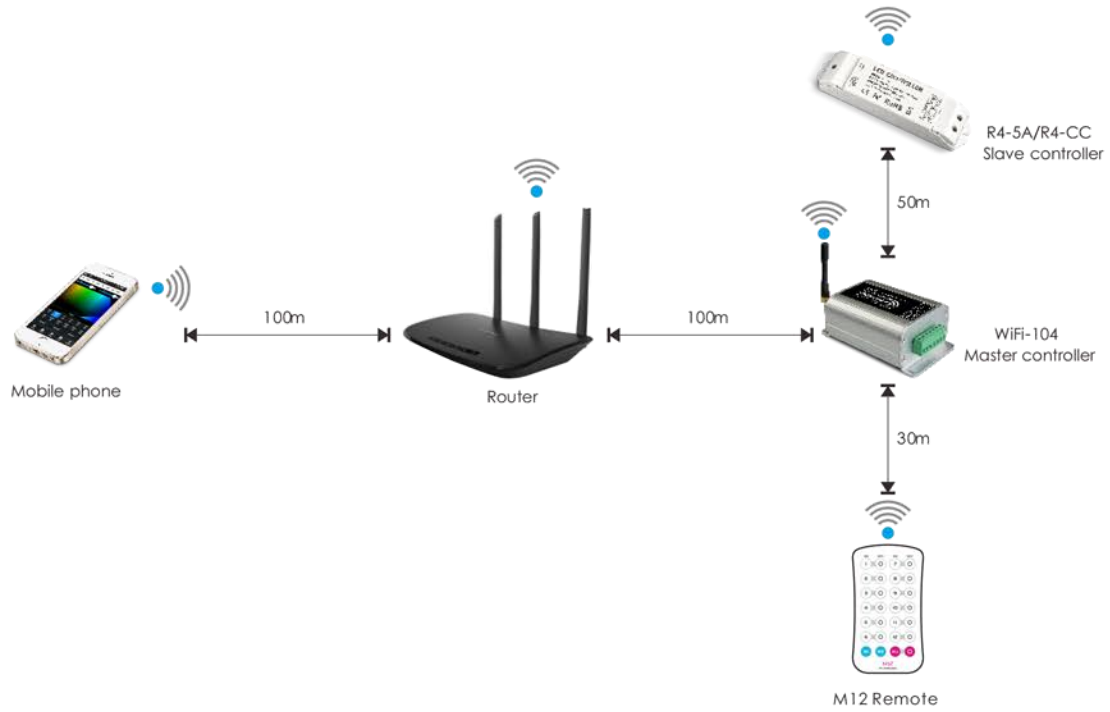
2). Direct connection of WiFi-104 as router

(Max 12 Zones)

3). Connect by a router

(Max 12 Zones)

(Max 12 Zones)

Wireless 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.

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.