# WiFi-104
## Wifi Controller

## Safety Instruction and Warning

WARNING:

**READ CAREFULLY BEFORE INSTALLING.**

Installation should only be performed by a qualified electrician in accordance with NEC and all applicable local building codes.

Risk of fire or electric shock. Fixture installation requires knowledge of luminaire electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.

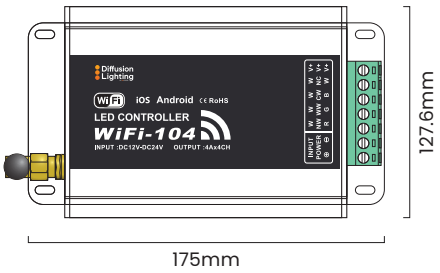
Ensure that electrical power is turned OFF before and during installation or maintenance.

Fixtures must be connected to a wiring system that includes an equipment-grounding conductor.

Ensure that the supply voltage matches the rated voltage of the luminaire fixture.

Wear gloves and safety glasses at all times when removing the luminaire from the carton, installing, servicing, or performing maintenance.

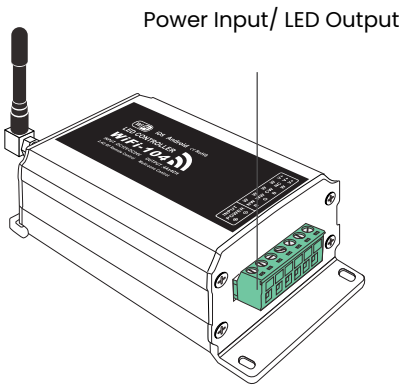
## Diagram

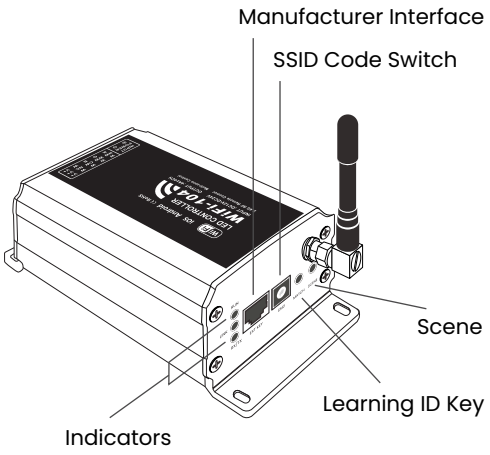



## Description

Diffusion WiFi-PLA104 is a Wi-Fi controller that enables users to control up to 12 different zones from any Android or iOS device.

## Configuration Diagram




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(604) 371-4371 1-(866)-RJCROSS (752-7677) info@rjcross.com diffusionlighting.com

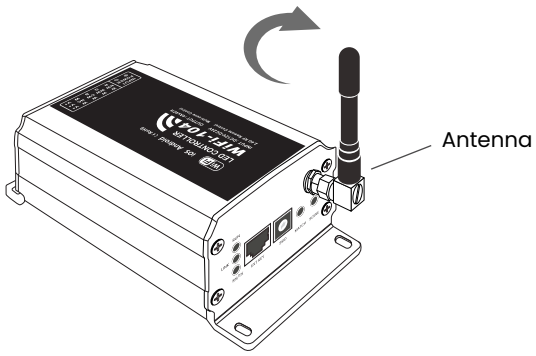
# WiFi-104
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### Step 1

**Install / Uninstall ANTENNA**

Rotate the Antenna clockwise to install.
To uninstall, rotate the Antenna anti-clockwise.



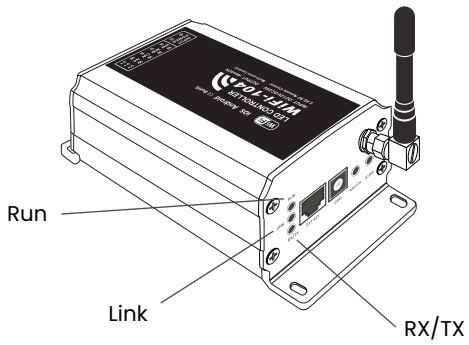

### Step 2

Light Indicator Instructions

**RUN:** It flashes quickly for about 25s during the electric initialization. Flashes once per second after initialization.

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

**RX/TX:** The indicator light turns on when WiFi-104 receives the WiFi data, turns off in the free time.



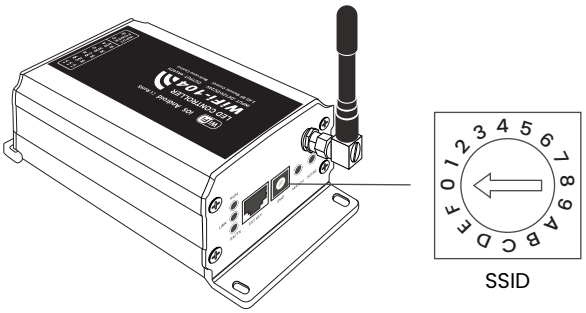

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## Step 3

### 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 LANs in the same area.

The controller will re-enter initialization status once the code switch changes. The RUN indicator light will flash quickly for about 25 seconds; the mobile device needs to search and connect to WiFi again after Initialization finishes.



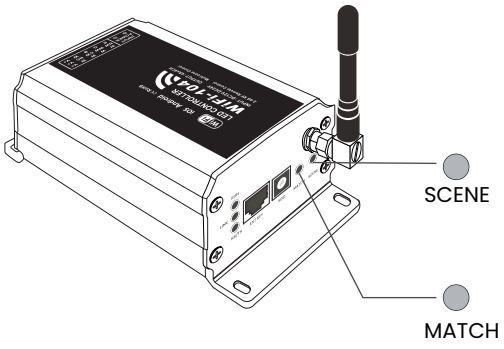

## Step 4

### Match and Scene Button

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

### Restore Factory Settings/ Delete Password

Long press MATCH key button and SCENE key button simultaneously for more than 2 seconds, and the machine will return to the default parameters, 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.*

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# WiFi-104
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## Instructions of Application Software

## Network Connection Setting

Download Application

*WiFi-104 support 2 connection modes:*
*Direct connection as router or connect by additional router.*

Available on the App Store

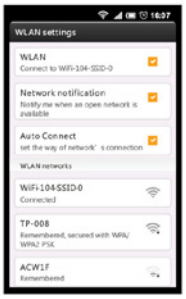
Scan to download the iOs App

Google play

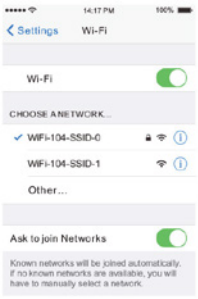
Scan to download the Android App

## Connecting WiFi controller as a router

a. Go to the mobile device's WiFi settings, search for the available Wi-Fi network. From the list, select WiFi Network, appended with SSID-Number (no password is set by default).




Android WiFi Connection



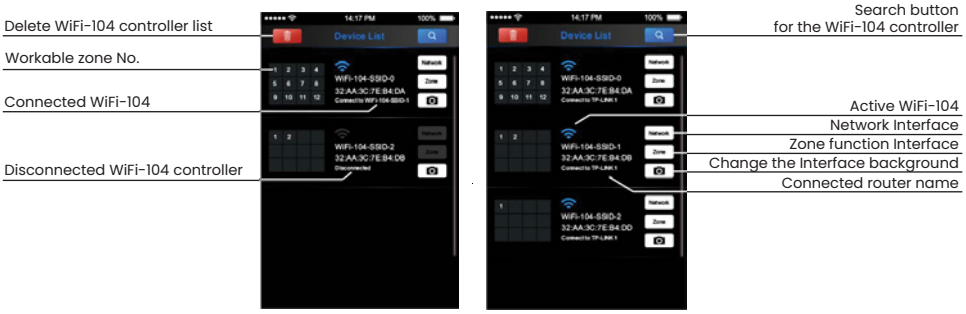

Apple WiFi Connection

## Connecting WiFi-104 with additional router

a. Follow the instructions to connect to the WiFi-104 controller.
b. Click the WiFi-104 application icon to start the app. The app will search and list the working WiFi controller automatically.



WiFi-104 Application Icon




Connected with WiFi-104 as a router

Connected with additional router

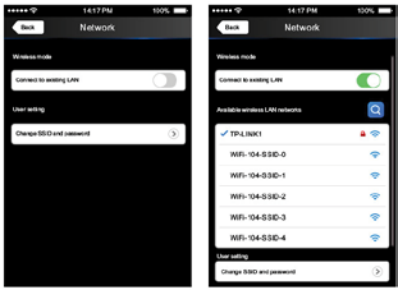
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## Wifi Controller

## Instructions of App Software

c. Click the “Network” key to enter the Network interface. Turn ON the "connect to existing LAN" option, and the app will search the available WiFi SSID list. Choose the available router to connect (Note: Do not choose the WiFi-104 controller).

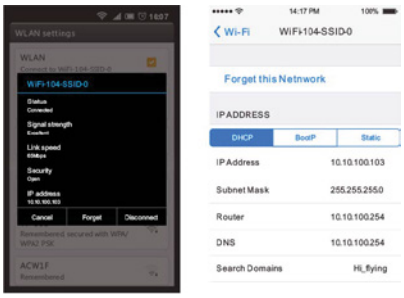
d. Exit the WiFi-104 application, go to the mobile wireless network settings, and choose the wireless router to connect. Start the WiFi-104 application again, and the device will list the interface. Complete the same steps to connect to the additional router.




Network Interface

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

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

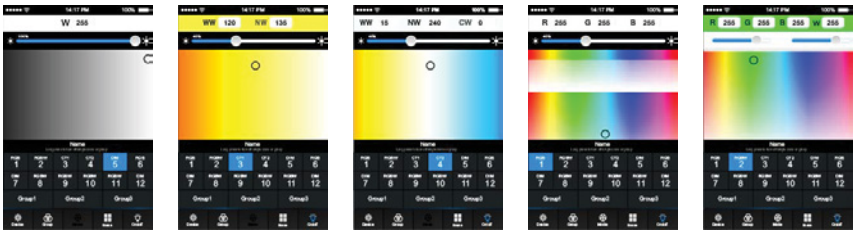



Cancel saved WiFi-104 connection information

## Main Interface (5 Types total)




5 Main Interfaces



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## The Learning Method of Zone Control

### Turn on Zone control

Click "Zone" on the Device List interface, and enter the Zone set interface. Turn on each zone, and choose the LED type accordingly.



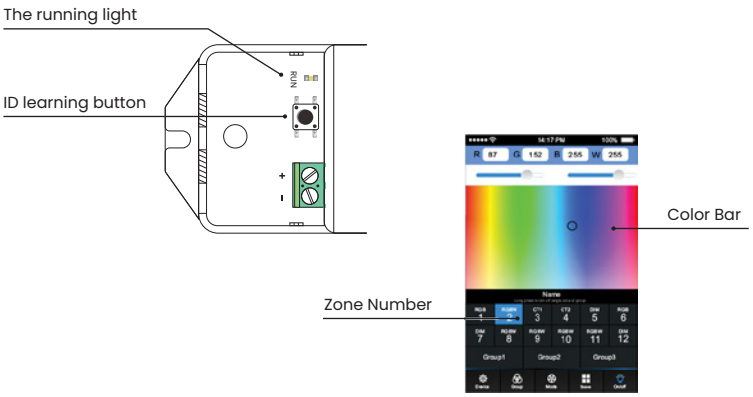

Device List Interface

Zone Set Interface

Select Type Interface

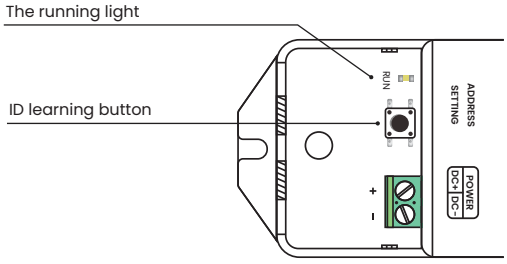
### Learning ID

Short press the "ID learning button" on the receiver; the running light will begin to flash and then stay on. Next, on the software interface, select the desired zone number and touch the color bar for 2-3 seconds. A long buzzer sound indicates that the zone control and master control have successfully matched (at which point the running light will return to flashing).




### Cancelling ID

Long press "ID learning button" on the receiver for 5s, the buzzer makes a long beep, ID cancelled.




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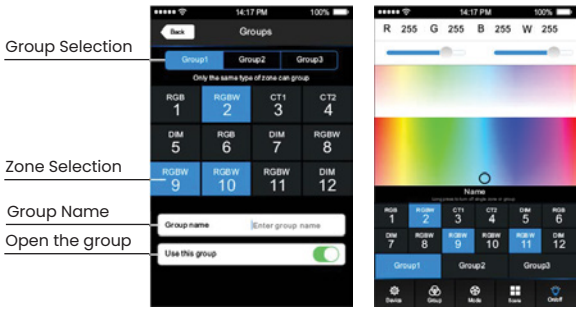
# WiFi-104
## Wifi Controller

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## Instructions of Application Software

### Group

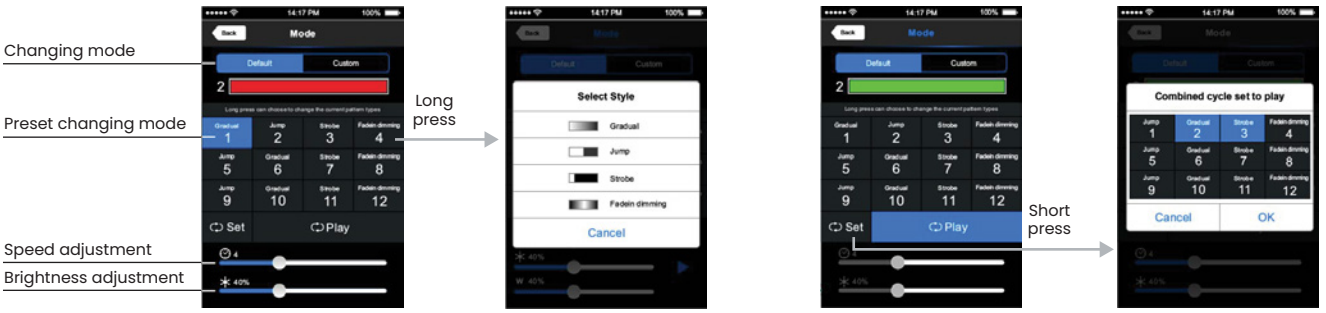
- Group control lets you manage multiple zones at once, allowing you to adjust their color, color temperature, and brightness together.
- You can set up to 3 groups. All zones in the same group must be the same type, and a single zone can be in multiple groups.
- To access a group, just select it, and its zones will appear in the main interface.
- Note: Changing a zone's type or enabled status in the Zone Set interface will automatically remove it from any relevant groups.




Group Interface

Group operations in main interface

### Mode Interface for RGB/RGBW Type



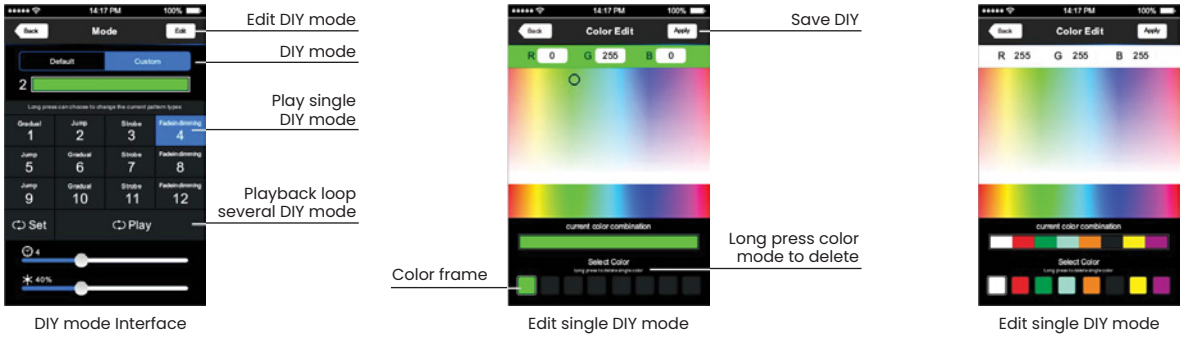

Mode Interface

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

Play in loop

Combine changing mode

### DIY Interface




DIY mode Interface

Edit single DIY mode

Edit single DIY mode

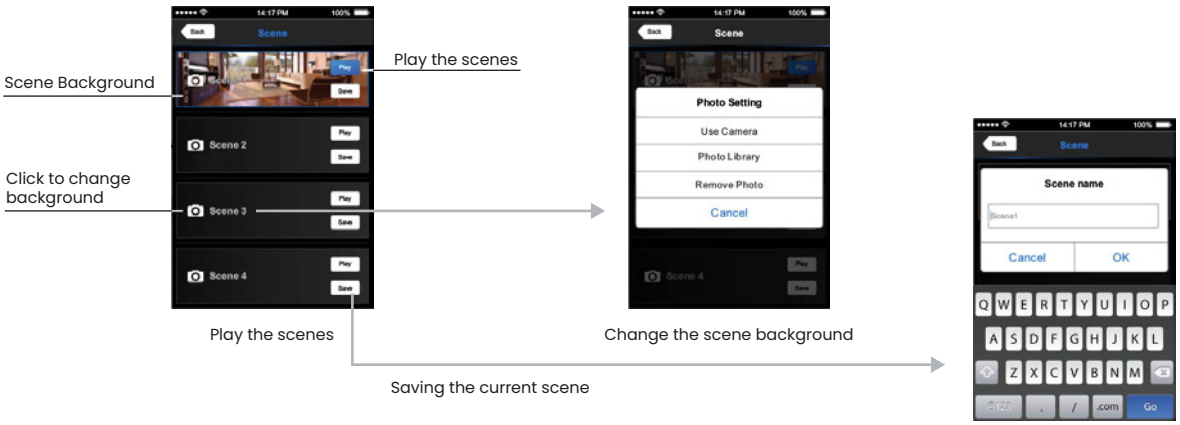
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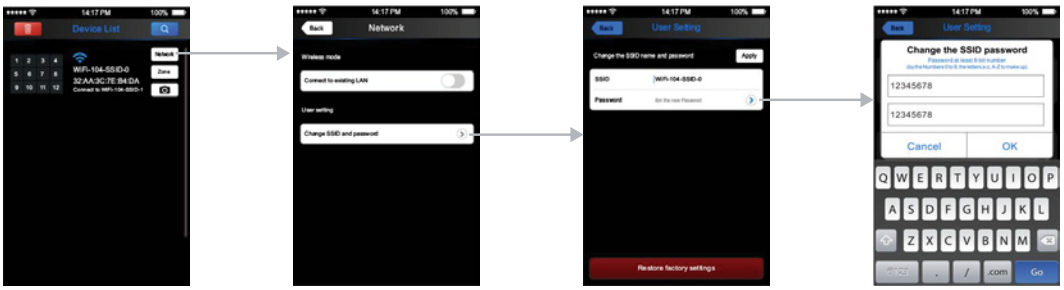
## Instructions of Application Software

## Scene Interface




## WiFi Network SSID Name and Password

From the Device list interface, click the "Network" key to enter the Network interface, then select "Change SSID and Password" (by clicking the gear icon) to access User Settings. Here, type in your new SSID name and password (passwords must be at least 8 characters long and can include 0-9, a-z, and A-Z). Finally, click the "Apply" button to save your changes.




*If you've changed the SSID name and password while connected to the WiFi-104 as a router, you'll need to exit the software immediately afterward. Then, go to your mobile device's system settings and reconnect to the WiFi-104 using the new credentials.*

*For connecting to a wireless router, after changing the SSID name, simply click on the Device List interface within the app to search for the WiFi-104 controller.*

***Note**: If you forget the WiFi network password, you can restore factory default settings by simultaneously pressing the MATCH and SCENE buttons for more than 2 seconds. This action will wipe out the current WiFi network password.*

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# WiFi-104
## Wifi Controller

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### Remote Operating Instructions

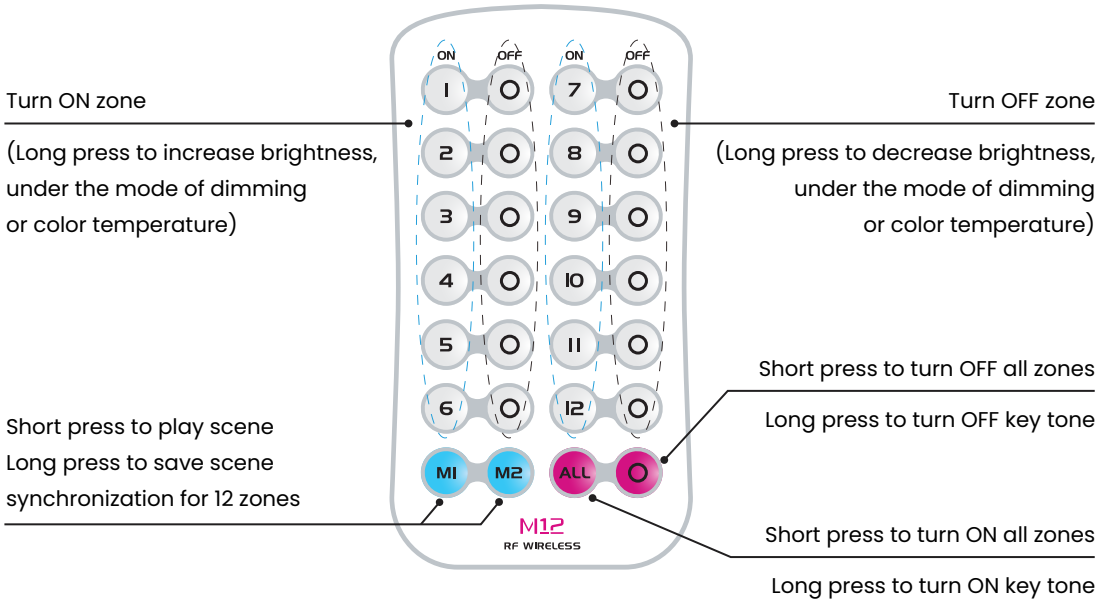
## Learning ID

Short press the learning key on the WiFi-104 controller. A long buzzer will sound. Then, press any key on the M12 remote; a second long buzzer will confirm successful pairing.

## Cancelling ID

To cancel all learned remotes with the WiFi-104 controller, long press the learning key on the controller for more than 6 seconds. A long buzzer will sound, confirming that all remote IDs have been canceled.

***Note**: WiFi-104 use with R4-5A Controller (up to 10 Max per WiFi)*




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# WiFi-104
## Wifi Controller

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## Wiring Diagram

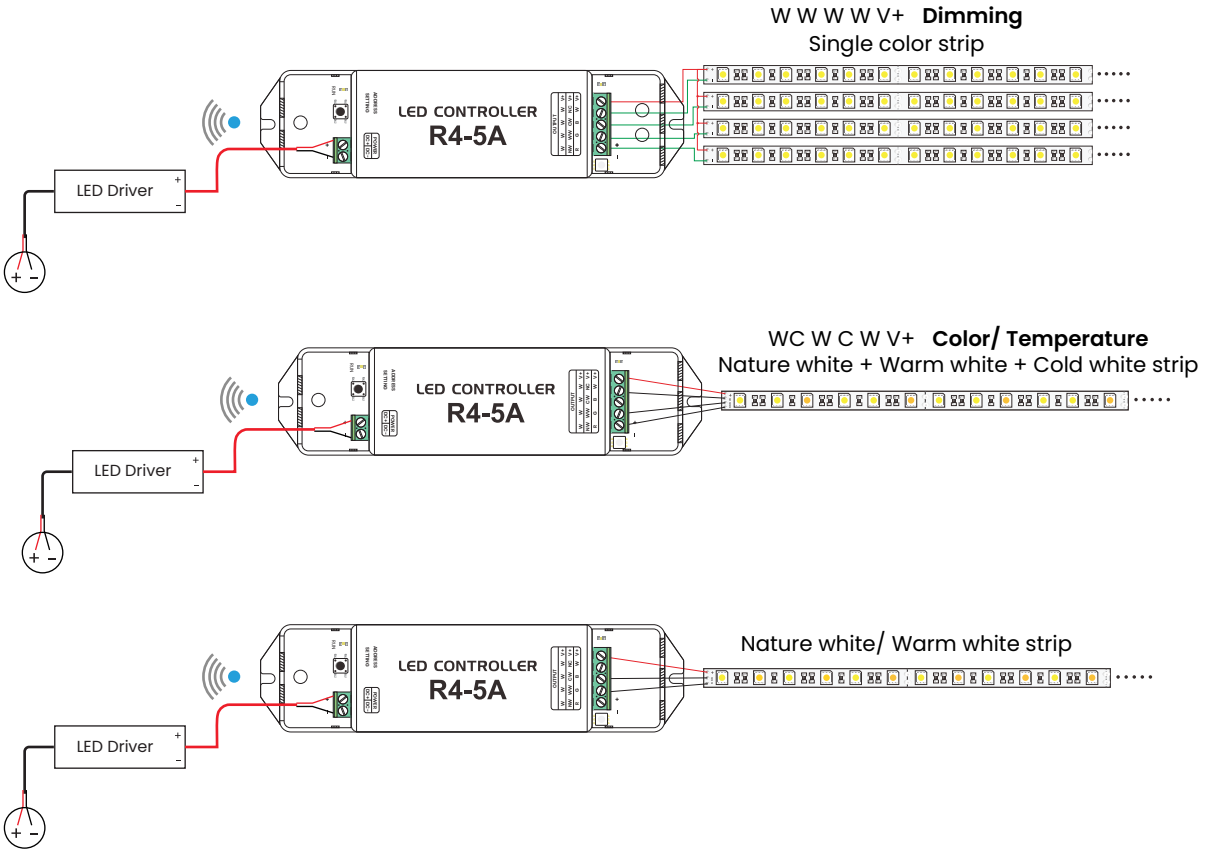
## Warning: Input voltage must be identical to output voltage of the LED Fixture!

Ensure exposed wire is 6-8mm long and tinned at the tip. Do not allow wires to cross. Fully insert all exposed wire into the screw terminals, then hand-tighten them securely. For output terminals, use 22 to 16 AWG gauge wire.

## LED Ribbon Connection

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

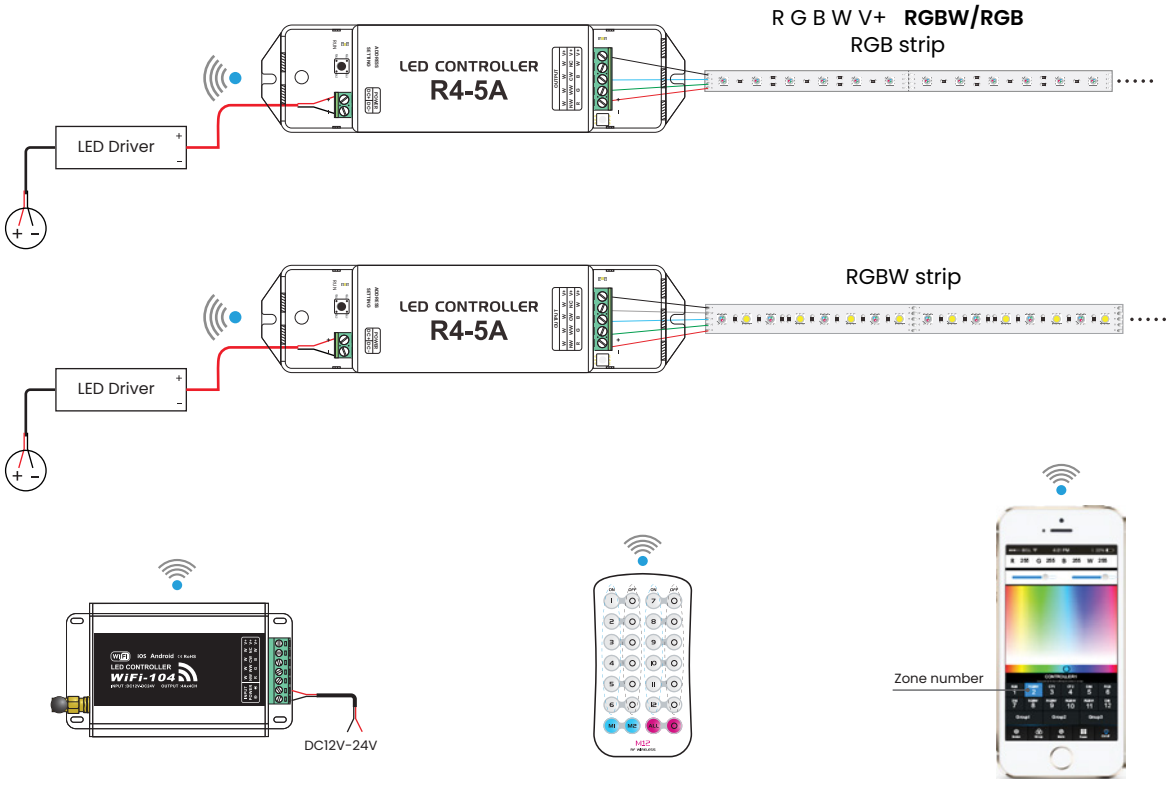
***Note**: WiFi-104 default to first zone, Master controller can choose whether connecting to LED Lights or not. If not, use wireless control to instead of the first zone. Multiple partitions can be set to the same type or several types, such as all partitions are single color, can be set to DIM dimmer 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:*




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# WiFi-104
## Wifi Controller

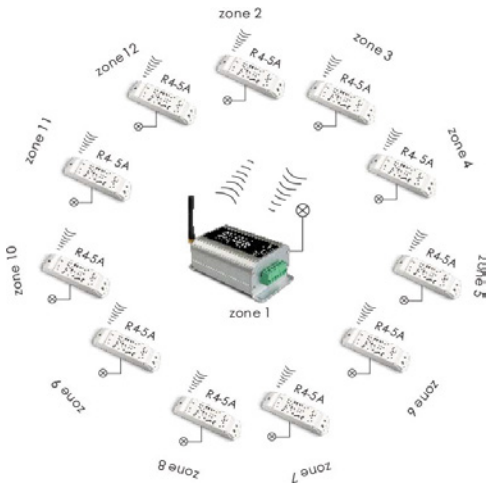
## Wiring Diagram




WiFi 104 M12 Mobile Phone

## Direct connection of WiFi-104 as router






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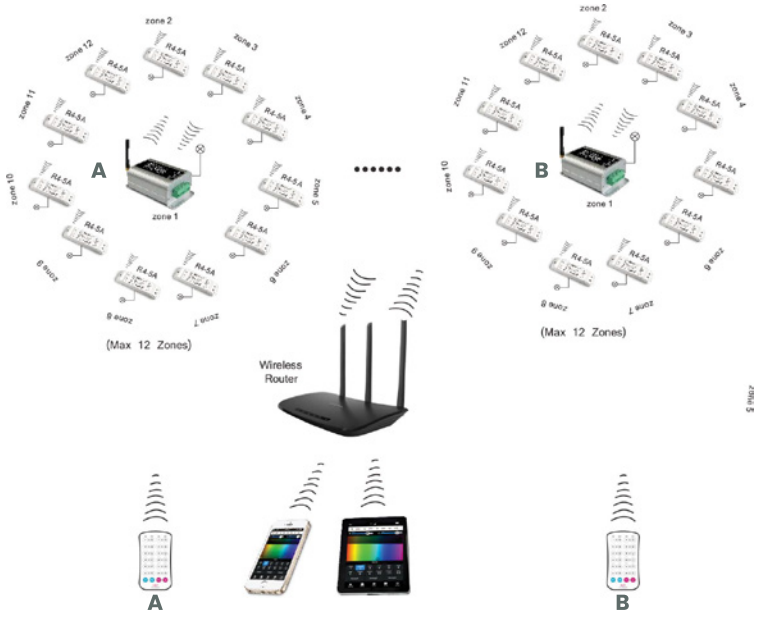
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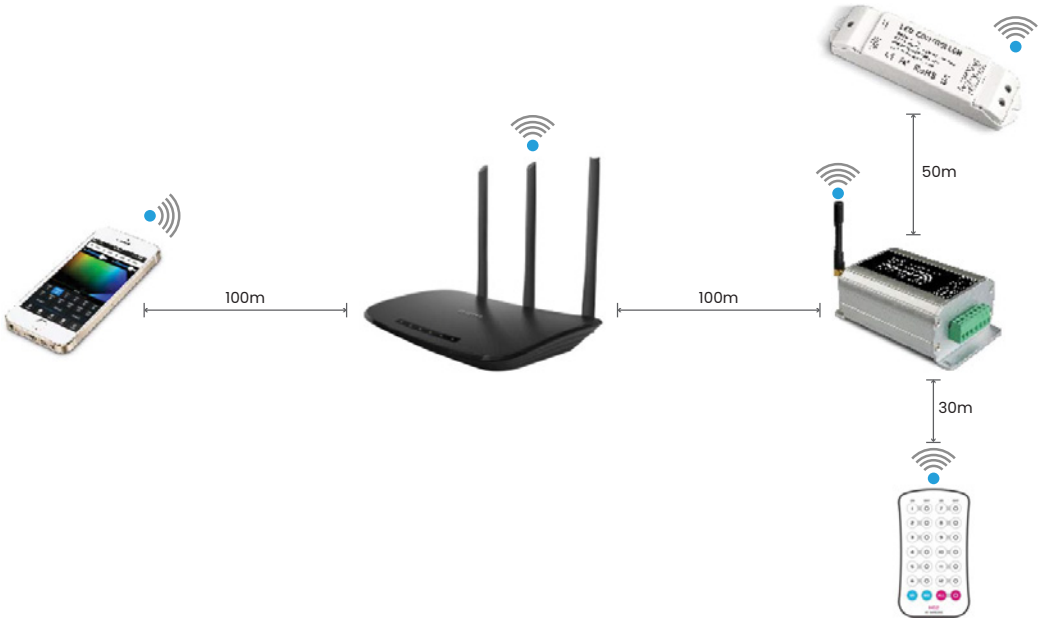
## Wiring Diagram

### Connect by a router

Multiple zone receiver R4-5A can be installed for each zone within effective range.




### Remote distance reference




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