



WiFi-104 LED Controller



WiFi-104 is a WiFi lighting control system, consisted of APPs and WiFi controller. Controls various types of LED lighting products by installing the related App on our iOS or Android mobile devices which support WiFi connection.

With DIM, CT adjustment, RGB and RGBW changing 4 in 1 operation, plus 12 zones control function, you can connect directly or by a router.

1. Product Parameter:

WiFi-104 Technical Parameters:

Communication Standard: Input Voltage:	2.4GHz WiFi, 802.11b/g/n Protocol 12~24Vdc
Output Current:	4A×4CH Max 16A
Max Output Power:	(0~48W96W)×4CH Max. 384W
Control Distance:	Max 100m
Output Control:	Dimming, CT, RGB, RGBW
Operating Temp.:	-30°C~55°C
Dimensions:	L128×W73×H45(mm)
Package Size:	L135×W80×H64(mm)
Weight (G.W.):	390g

Software Technical Parameters:

Platform:	Android 4.0 or above, iOS 8.0 above
Language:	English
Category:	Appliance

R4-5A Constant Voltage Zone Receiver

Wireless Frequency:	2.4GHz	
Input Voltage:	5-24Vdc	
Max Current Load:	5A×4CH Max 20A	
Max Output Power:	(0~25W120W)×4CH	Max. 480W
Working Temp.:	-30°C~55°C	
Dimensions:	L175×W44×H30(mm)	
Package Size:	L178×W48×H33(mm)	
Weight (G.W.):	150g	

R4-CC Constant Current Zone Receiver

Wireless Frequency:	2.4GHz
Input Voltage:	12-48Vdc
Output Voltage:	3-46Vdc
Output Current:	CC 350/700/1050mA×4CH
Output Power:	(1.05W~48.3W)×4CH Max. 193.2W
Working Temp.:	-30℃~55℃
Dimension:	L175×W44×H30(mm)
Package Size:	L178×W48×H33(mm)
Weight (G.W.):	165g

Note: Receiver is sold seperately

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2. Configuration Diagram:



3. Controller Operating Instructions:

3.1 Install/Uninstall ANT:

Clockwise to install the WiFi-104 ANT, counterclockwise to take off.



3.2 Work Status Indicator Instructions:

RUN: The indicator light flashes quickly about 25s during the electric initialization. Flashes once per second after initialization

LINK: The indicator light stays lit when the mobile device connects to WiFi-104, and turns off when disconnect.

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

or



3.3 SSID Number Setting:

Use code switch to set the controller's SSID number, WiFi-104-SSID-X, X stands for a certain No. ranging from 0-F, totally 16 options. which means our product could set 16 isolated LAN in the same area. WiFi-104 will initialize with run LED indicator flashing about 25s quickly, each time the SSID NO. is changed. Mobile devices need to search and connect WiFi again after Initialization finished.



3.4 "MATCH" and "SCENE" Button:

Short press MATCH button, WiFi controller begins its learning ID status for M12 remote (learning method, see P13). Short press "SCENE" button entering into the user-saved scene modes sequentially, 4 scenes total.

[Restore factory settings/Delete password]

Long press "MATCH" and "SCENE" button simultaneously more than 2 seconds, the machine will back to the default parameter, including the parameters of changing modes, zone, group and network. Machine default parameters: Only the 1st zone is present, default RGBW mode, the changing mode is RGB jumping, white is the brightest, no groups, network SSID is WiFi-104-SSID-X (X is the actual coding switch corresponding SSID values), WiFi-104 controller restores as direct connection and the connection password is blank.





Scene interface

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- 4. The Instructions of APP Software:
- 4.1. WiFi-104 Software Installation:

Scan QR Code to download the APP via mobile phone.



4.2 Software Operating Instructions:

4.2.1 WiFi Connection and Settings

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

A. WiFi-104 Controller Direct Connection as a Router:

Enter mobile device's WiFi setting, click the WiFi function, mobile device search the WiFi and list the working WiFi controller automatically[As Figure-1], click the SSID number to connect (default is no password).



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B. Connection with an Additional Router:

Connect WiFi-104 Controller to the Additional Router Network:

a. Connect to the WiFi-104 controller, the same step as (4.2.1)

b. Click mobile device's icon 👔 to start the software, the software will search and list the working WiFi controller automatically, and there is a blue wireless icon 奈 (as Figure-2-1)



c. Click "Network" key to enter Network interface(as Figure-3-1), start "connect to exiting LAN", software will search the workable WiFi net SSID list, choose the specified router to connect (Attn: do not choose WiFi-104 controller), can add the WiFi-104 controller to the wireless router (as figure-3-2 the wireless router TP-LINK1)

Repeat the abc steps if you need connecting multiple WiFi-104 controllers to this wireless router

d. Exit WiFi-104 software, enter mobile device setting-wireless network setting, choose the wireless router to connect. Device list interface shows as Figure 2-2 when re-opening the WiFi-104 software.

Now completes the steps to connect to the additional router.

 Intro
 L417 MJ
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 Intro
 L417 MJ

Network interface

Attn: In this connection mode, to avoid the mobile device automatically connect to WiFi-104 after the setting has completed, please click on the connected WiFi-104 which under the mobile device "WiFi setting". and at the message box please click "Ignore the network," (apple iOS) or "cancel save" (SUMSUNG mobile phone is "forget") to cancel the save of WiFi-104 connection.



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Android cancellation of the save of WiFi-104 connection Apple cancellation of the save of WiFi-104 connection

WiFi-104 LED Controller

WiFi-104 LED Controller

4.2.2 Main Interface (5 types)



5 Main Interface



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4.2.3 The Learning Method of Zone Control

A. Turn On Zones Control

Click "Zone" on the **Device List** interface, enter **Zone set** interface. turn on each zone, choose the LED type accordingly (zones are nameable).

[Attn]: WiFi-104 itself is defaulted as zone N0.1, connecting lights is optional, slave control will be zone N0.1 if not connected.

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Zone set interface

Select type interface



.

OK

Scene name

Cancel

3

Color screen



B. Learning ID:

Short press "ID learning button" 💽 on the receiver, the running light keeps on, select the zone No. on the App and touch the color screen for 2s-3s. The buzzer long beep (meanwhile the running light on the receiver back to flash state). ID matched. 14-17 PM G 231 B 255 W 2



C. Cancelling ID:

Zone number +

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

[Attn]: Reset function is available during ID cancellation. Considering dysfunction in rare cases, please cancel

the ID and re-svnc.





4.2.5 Save scene 🔺





4.2.6 Mode Interface for RGB / RGBW Type





unadjustable)



Choose the mode to circle play

smooth/fade)





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8 4.2.7 DIY Interface Mode



	Back R 255	14:17 PM Color Edit G 0	Apply B 0	— Save DIY	
Color _	Lorg	rent color combination Select Color press to delete single	an 	Long press color box to delete	



Edit single DIY mode

4.2.8 More Function More



Group Features :

- Choose several zones as one group and control in sync.
- Max 3 groups, same LED types in one group and one zone could join multiple groups.
- Enable the group status, the corresponding group will appear on the main interface.
- Group settings will be auto off if zone LED type on & off state changed.

A. Group





Group interface

B. Timing





Timing interface

Back

08:30

13:00

12

Add new timing

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5. WiFi Network SSID Name and Password Setting

On device list interface, click "Network" key to enter Network interface, select "Change SSID and Password" (Click" ③ ") to enter User Setting interface. Type new SSID name and password (Min. 8 characters, consist of 0-9, a-z and A-Z). Click "Apply" button on the top right corner of the interface to save the changes.



[Attn]: Direct connection of using WiFi-104 as a router, exit the App after the SSID name and the password changed, reconnect the WiFi-104 on the mobile devices.

For extra router connection, just press " 🔍 " on Device List interface to research WiFi-104.

[Attn]: If forget the WiFi network password, press "MATCH" and "SCENE" button simultaneously above 2s to restore the factory default settings and delete the WiFi network password (see P3) [Restore factory settings / Delete password]

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6. Remote Operating Instructions

M12 Remote

Working Voltage:	3Vdc (CR2032 button battery)
Transmitting Frequency:	2.4GHz
Dimensions:	L106×W60×H9(mm)
Weight (G.W):	42g

Learning ID

Short press "MATCH" on WiFi-104, the buzzer long beep, press any key on M12, the buzzer beep again, ID matched.

Cancelling ID

Long press "MATCH" on WiFi-104 above 6s, the buzzer long beep, ID cancelled (cancelled all matched remotes).

Turn on zones	3090	Turn off zones
(long press to increase brightness slowly under the mode of dimming or CT.)	4 0 10 0	(long press to decrease brightness slowly under the mode of dimming or CT)
Short press to recall scene	5 0 II 0 6 0 I2 0	Short press to turn off all zones
Long press to save scene applied for 12 zones		Short press to turn on all zones (excluding the zones being closed separatedly Long press to turn on the key tone



7. Wiring Diagram

if not connected.

5-24Vd

5-24Vd

5-24Vd

5-24Vd

5-24Vdc

MODEL:R4-5A

MODEL:R4-5A

MODEL : R4-5A

MODEL:R4-5A

MODEL: R4-54

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7.2 Direct Connection of Using WiFi-104 as Router







7.3 Extra Router Connection





7.4 Remote Distance Reference

[Attn]: The following distance figures is measured in spacious environment. Please refer to the actual test distance before installation.







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WiFi-104控制器应客户需求而诞生的,我们在安卓、IOS系统的手机、平板电脑等移动设备上安装App,通过移动设备自带的WiFi功能便能遥控LED照明产品,它使得LED的控制更加智能化和人性化。一台WiFi-104控制器可以实现调光、色温、RGB、RGBW四大功能,同时支持最大12个区域的控制。

WiFi-104控制系统支持直连或者通过路由器连接两种网络连接方式。

一 性能参数:

WiFi-104 控制器

通信标准:	2.4GHz Wi-Fi,802.11b/g/n协议
输入电压:	12~24Vdc
最大负载电流:	4A×4路 Max16A
最大负载功率:	(0~48W96W)×4路 Max.384W
WiFi遥控距离:	100米(对视距离)
输出控制:	调光,色温,RGB,RGBW
工作温度:	-30℃~55℃
产品尺寸:	L128×W73×H45mm
包装尺寸:	L134×W82×H65mm
重量(毛重):	390克

软件技术参数

运行平台	安卓4.0以上 , iOS8.0以上
语言	英文
类别	工具

无线频率:	2.4GHz	
输入电压:	5~24Vdc	
负载电流	5A×4路 Max.20A	
最大负载功率:	(0~25W120W)×4路 Max.480W	
工作温度:	-30℃~55℃	
产品尺寸:	L175×W44×H30mm	
包装尺寸:	L178×W48×H33mm	
重量(毛重):	150克	
R4-CC 恒流分区接收器 (雲另外购买)		

2.4GHz

12~48Vdc

3~46Vdc

-30°C~55°C

1175×W44×H30mm

L178×W48×H33mm

CC 350/700/1050mA×4CH(三合一)

(1.05W-48.3W)×4CH Max 193.2W

R4-5A 恒压分区接收器 (需另外购买)

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二 结构图:





三 控制器操作说明:

 3.1 安装/卸下ANT 顺时针安装WiFi天线,逆时针取下天线。



3.2 工作状态灯说明

- RUN 控制器上电初始化时刻快闪约25秒,初始化完毕每秒闪烁1次。
- LINK 有移动设备与WiFi-104控制器建立WiFi连接时常亮,未连接时灭。
- RX/TX WiFi-104控制器接收或发送WiFi数据时亮,空闲时灭。

WiFi-104 WiFi LED控制器

无线频率:

输入电压:

输出电压:

输出电流:

输出功率:

工作温度:

产品尺寸:

包装尺寸:

重量(毛重): 165克



3.3 设置SSID号

使用编码开关设置控制器的SSID号,控制器的SSID号为WiFi-104-SSID-0至WiFi-104-SSID-F共16个编号(如下图示), 也就是说用我们的产品在同一小区域可以设置16个互相隔离的局域网,一旦编码开关变化,控制器将重新进入初始化状态, RUN灯快闪约25秒,初始化完毕移动设备需要重新搜索连接。



3.4 MATCH键和SCENE键

【恢复出厂设置/删除密码】

短按MATCH键,WiFi控制器进入学习状态,用于学习WiFi控制器标配的M12遥控器(学习方法见P7)。 短按SCENE键顺序进入WiFi软件所保存的情景模式,共有四个情景模式。

同时长按MATCH键和SCENE键超过2秒,整机恢复默认参数值,包括变化模式参数、分区与群组参数、网络参数。整机默认 参数:只有1号分区存在,默认RGBW模式,RGB跳变变化模式,白色最亮,没有群组,网络SSID为WiFi-104-SSID-X(X为 实际SSID编码开关对应值),WiFi-104控制器恢复为直连方式,连接密码为空。



四 App软件使用说明:

4.1 App软件下载 扫描以下二维码,安装APP。



iOS/Android

4.2软件操作说明

4.2.1 网络连接设置方法

WiFi-104控制器支持两种网络连接方式:本身作为路由器方式与连接至外部路由器方式。

WiFi-104控制器作为路由器直连方式:

进入移动设备设置-无线网络设置,勾选开启WiFi功能,移动设备自动搜索并列出当前工作中的WiFi控制器(如图-1), 点击 WiFi控制器SSID号进行连接(默认无安全密码)。



• 连接至外部路由器方式:

将WiFi-104控制器加入外部路由器网络中:



C. 点击Network键,进入Network界面(如图-3-1),选择开启Connect to existing LAN项,软件自动搜索出可用的无线 网络SSID列表,选择指定的无线路由器进行连接(注:不要选择WiFi-104控制器),即可将B步骤中的WiFi-104控制 器加入到该无线路由器(如图-3-2 无线路由器TP-LINK1)。

如需要将多台WiFi-104控制器连接至该无线路由器时,需重复以上ABC步骤

d. 退出WiFi-104软件,进入移动设备设置-无线网络设置,选择该无线路由器进行连接。再打开WiFi-104软件时, Device List界面如图2-2。

至此完成连接至外部路由器步骤。

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注: 连接至外部路由器方式后,为避免移动设备仍自动连接到WiFi-104,请在移动设备【WiFi设置】点击已经连接的WiFi-104 在连接信息对话框,点击"忽略此网络"(苹果iOS)或者"取消保存"(三星手机为"忘记"),取消保存WiFi-104的连接状态。





< 天线局运网 WIFI-104-SSID-0

安卓版取消保存WiFi连接状态

苹果版取消保存WiFi连接状态

4.2.2 主界面(共5种类型界面)





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4.2.3 分区控制器学习方法

(1)开启分区:

点击Device List界面中WiFi-104控制器的Zone键,进入Zone Set界面,按照现场灯光控制需求,开启多个分区,选择灯光类型,命名分区名称。

【注】WiFi-104主控本身默认为第一分区,主控可选择是否连接灯具,如果不连接灯具可用分控来代替第一分区。



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(2)分区学习ID:

短按一下分区控制器学习键 💽 , 运行灯由闪烁变常亮 , 然后在软件主界面选择需要学习的分区号 , 再触摸主界面色条2-3秒 , WiFi-104 控制器蜂鸣器长响(同时分区控制器运行灯恢复闪烁),分区控制器与主控学习成功。



(3)分区删除ID:

长按分区控制器学习键 💽 5秒 , 分区控制器的蜂鸣器长响 , 删除成功。

注:分区删除ID功能同时具有复位功能,在极少情况下出现个别错乱故障,可以通过删除ID重新学习恢复正常。



返回主界面 Back -- 播放场景 Scene name 场景背景图 Photo Setting Use Camera 点击 🖸 更换 🗕 Cancel 场景背景图 Photo Library Remove Photo 我你在这是一不へ qwertyuiop Cancel asdfghjkl 🚸 z x c v b n m 🗷 Scene 4 123 🛞 🖗 空格 执行 播放场景 更改场景名 更换场景背景图 保存当前效果到此场景



OK



储存当前灯光效果为场景











编辑单个DIY模式

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A. 群组

B. 定时





主界面Group操作





群组特点:

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- 群组操作用于同时选择多个分区,多个分区一起改变颜色、色温、 亮度。
- 最多可设置3个群组,群组中的全部分区必须为同一类型,一个分区可同时归属于多个群组。
- 将群组设为启用状态,对应的群组才会出现在主界面中。
- Zone Set界面中改变了分区的类型或启用状态,则自动取消相关 分区的群组设置。



五 WiFi网络SSID名称和密码设置:

在Device List界面,点击Network键进入Network界面,选择Change SSID and password项(点击③)进入User Setting 界面,键入新的SSID名称和密码(密码至少8位,可由数字0-9,字母a-z,A-Z组成),点击界面右上角Apply按钮,保存 所作修改。



【注】如果是WiFi-104作为路由器直连方式,修改SSID名称和密码后,请退出软件,进入移动设备系统设置重新连接WiFi-104。 如果是外连至无线路由器连接方式,仅需要在Device List界面点击 <</td>

【注】如果忘记WiFi网络密码,还可同时按住WiFi-104控制器上的学习键 ●和场景键 ●2秒以上,将WiFi控制器恢复 出厂设置,即可去掉WiFi网络密码(详见P3页面【恢复出厂设置】)。

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六 遥控器操作说明:

M12遥控器

工作电压:	3Vdc(CR2032纽扣电池)
发射频率:	2.4GHZ
产品尺寸:	L104×W60×H9mm
重量(毛重):	42克

学习ID



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WiFi-104 WiFi LED控制器

七 连接示意图:

7.1 分区控制器与灯具连接(WIFI-104接法相同)

【注】WiFi-104主控默认为第一分区,主控可选择是否连接灯具,如果不连接灯具可用分控来代替第一分区。 多个分区可以设置成同一类型或多种类型,例如所有分区都是单色调光用,那就全设置成DIM调光类型,如有 调光、色温、RGB等多种类型灯具,不同分区设置成不同的灯具类型,其灯具连接图如下:



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7.2 WiFi-104作为路由器直连方式



7.3 通过路由器连接



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7.4 遥控距离参考

【注】以下距离为空旷环境中实测对视距离,在非空旷环境测试无线距离会有所减少,安装前请以实际测试距离为准。

