illuminfx

COLOR SELECT +
WiFi LED Controller

WiFi

2.4G

iOS

Andriod

FC CE RoHS

warranty
5 years

ISO9001:2008
SGS
UKAS

CSPWIFI104

CSPWIFI104 is a WiFi lighting control system, consisting of APPs and a WiFi controller. IFXs Color Select PLUS controls various types of LED lighting products by installing the related App on an iOS or Android mobile device which supports WiFi connection.

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

1. Product Parameter:

CSP WiFi-104 Technical Parameters:

Communication Standard:	2.4GHz WiFi, 802.11b/g/n Protocol
Input Voltage:	12~24Vdc
Output Current:	4A×4CH Max 16A
Max Output Power:	(0~48W...96W)×4CH Max. 384W
Control Distance:	Max 100m
Output Control:	Dimming, CT, RGB, RGBW
Operating Temp.:	-30℃~55℃
Dimensions:	L128×W73×H45(mm)
Package Size:	L135×W80×H64(mm)
Weight (G.W.):	390g

Software Technical Parameters:

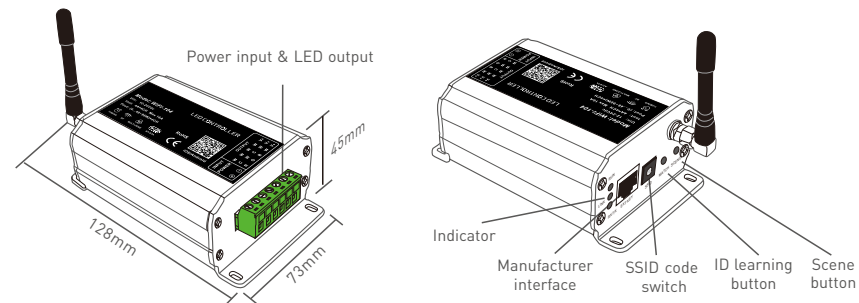|	
Platform:	Android 4.0 or above, iOS 8.0 or above
Language:	English
Category:	Appliance

CSP-R45ACV Constant Voltage Zone Receiver

Wireless Frequency:	2.4GHz
Input Voltage:	5-24Vdc
Max Current Load:	5A×4CH Max 20A
Max Output Power:	(0~25W...120W)×4CH Max. 480W
Working Temp.:	-30℃~55℃
Dimensions:	L175×W44×H30(mm)
Package Size:	L178×W48×H33(mm)
Weight (G.W.):	150g

CSP-R45ACC 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

2. Configuration Diagram:

Power input & LED output

45mm

128mm

73mm

Indicator

Manufacturer interface

SSID code switch

ID learning button

Scene button
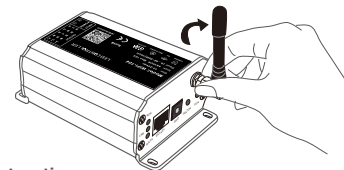
3. Controller Operating Instructions:

3.1 Install/Uninstall ANT:

Turn clockwise to install the WiFi-104 ANT, counterclockwise to remove.

### 3.2 Work Status Indicator Instructions:

RUN: The indicator light flashes quickly about 25s during 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 disconnected.

RX/TX: The indicator light turns on when WiFi-104 receives or transmits the WiFi data, turns off when not receiving data.

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, totaling 16 options. Which means our product could set to one of 16 isolated LANs in the same area. WiFi-104 will initialize when powered on, and the LED indicator will flash for about 25s quickly each time the SSID NO. is changed. Mobile devices need to search and connect to the new WiFi SSID again after the SSID is changed.
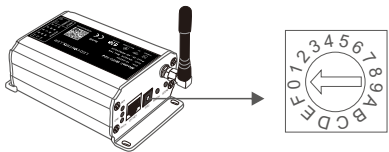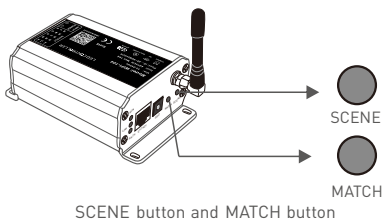
3.4 "MATCH" and "SCENE" Button:

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 for more than 2 seconds, the WIFI104 will restore back to the default parameters, including the parameters for color changing modes, zones, groups and network. **WIFI104 default parameters**: Only the 1st zone is present, default RGBW mode, the color changing mode is RGB jumping, white is set to 100%, no groups, network SSID is WiFi-104-SSID-X (X is the actual coding switch corresponding SSID values), WiFi104 controller restores as direct connection and the connection password is blank.

SCENE

MATCH

SCENE button and MATCH button

Scene interface

3

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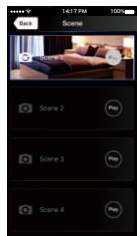
4. The Instructions of APP Software:

4.1. WiFi-104 Software Installation:

Scan QR Code to download the APP via mobile phone.

iOS/Android

4.2 Software Operating Instructions:

4.2.1 WiFi Connection and Settings

WiFi-104 supports 2 connection modes: Direct connection as a router or connected to 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).
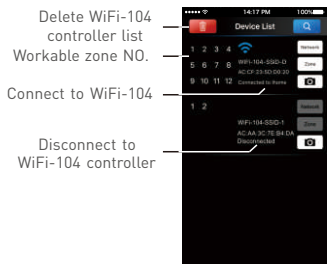
Android WiFi connection   Apple WiFi connection
(Figure-1)

4

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 [icon] to start the software, the software will search and list the working WiFi controller automatically, and there is a blue wireless icon [icon] (as Figure-2-1)

Delete WiFi-104
controller list
Workable zone NO.

Connect to WiFi-104

Disconnect to
WiFi-104 controller

Manual searching the WiFi-104
controller which connect to the
additional router

Workable WiFi-104
Network
Zone function
Change the background
Connect to the additional
router TP-LINK1

WiFi-104 as
a router interface
(Figure-2-1)

Connect an additional
router interface
(Figure-2-2)

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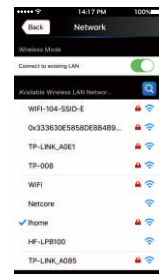   **Repeat the abc steps if you need connecting multiple WiFi-104 controllers to this wireless router**

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.
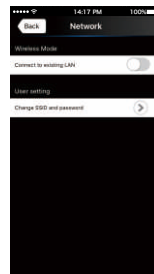
(Figure-3-1)　　　　　　　　(Figure-3-2)

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" (ANDROID mobile phone is "forget") to cancel the save of WiFi-104 connection.
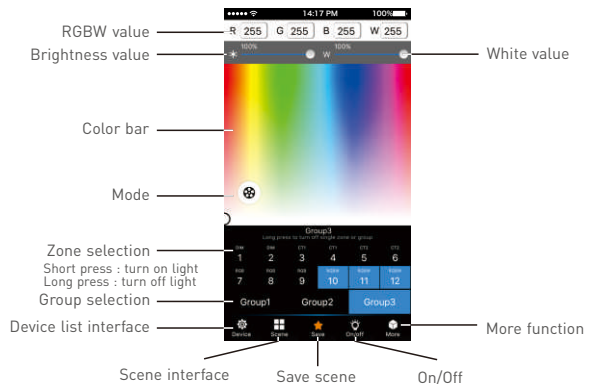
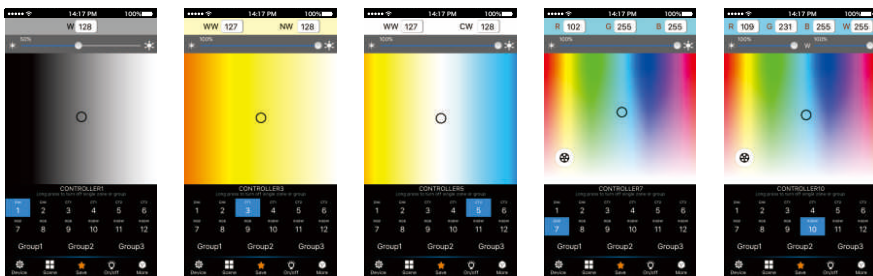Android cancellation of the save of
WiFi-104 connection

Apple cancellation of the save of
WiFi-104 connection

4.2.2 Main Interface (5 types)

RGBW value
Brightness value
White value
Color bar
Mode
Zone selection
Short press : turn on light
Long press : turn off light
Group selection
Device list interface
More function
Scene interface
Save scene
On/Off

5 Main Interface

## 4.2.3 The Learning Method of Zone Control

A. Turn On Zone Control

Click "Zone" on the **Device List** interface, enter **Zone set** interface. turn on each zone, choose the LED type accordingly (zones are nameable).
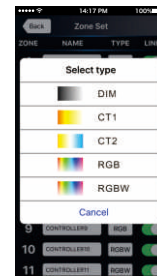
[Attn]: WiFi104 itself is defaulted as zone NO.1, connecting lights is optional, slave control will be zone NO.1 if not connected.


Zone

Device list interface

Return
Zone number
Zone name
Type
Turn on
Turn off
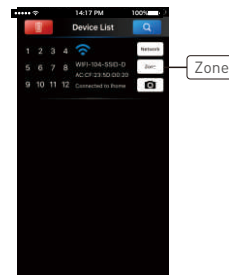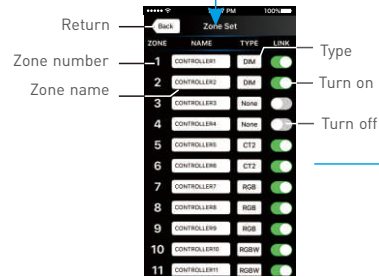
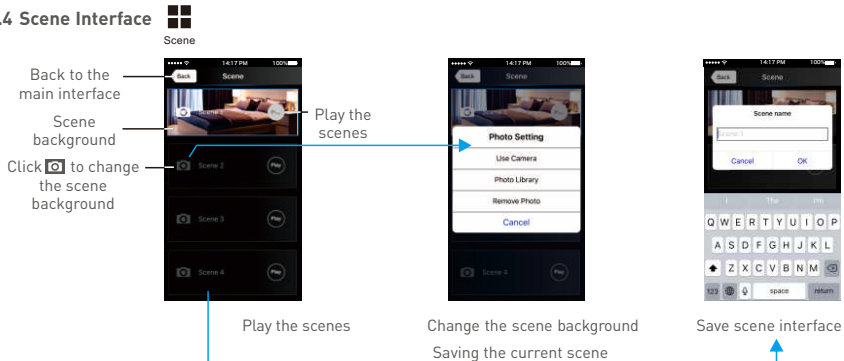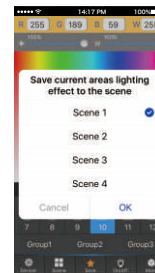Zone set interface

Select type interface

B. Learning ID:

Short press "ID learning button" [●] on the receiver, the light stays on, select the zone No. on the App you wish the controller to be and touch the color screen for 2s-3s. The buzzer long beeps (meanwhile the light on the receiver will start flashing), ID matched.

① The running light

ID learning button

③ Color screen

② Zone number
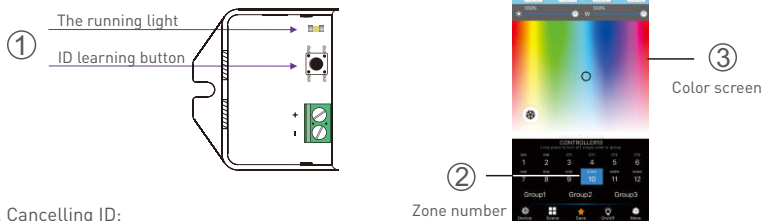
C. Cancelling ID:

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-sync.

4.2.4 Scene Interface

Scene

Back to the main interface

Scene background

Click [●] to change the scene background

Play the scenes

Play the scenes

Change the scene background

Saving the current scene

Save scene interface

4.2.5 Save scene ⭐

Save

Save current areas lighting effect to the scene

4.2.6 Mode Interface for RGB / RGBW Type

Mode

Changing mode

Play single mode

Long press

Short press

Speed slider

Brightness slider

Mode interface

Type selection (jumping/flash/smooth/fade)

Cycle play multiple modes (speed & brightness is unadjustable)

Choose the mode to circle play
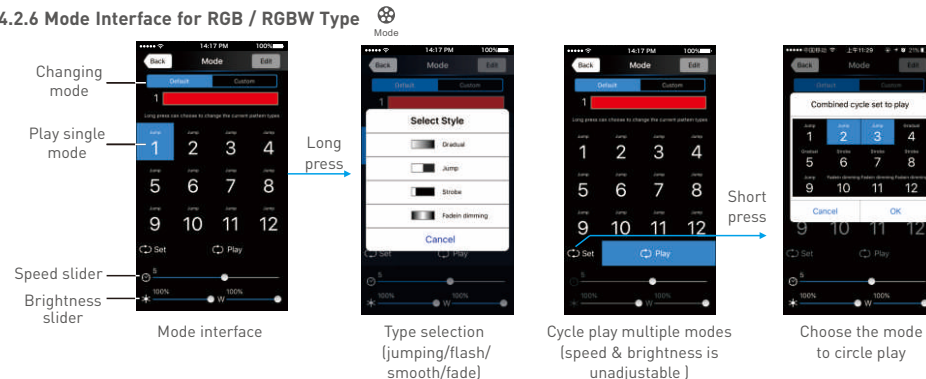
4.2.7 DIY Interface 🔀 Mode
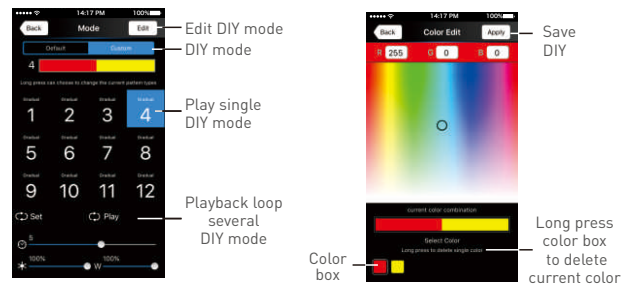
- Edit DIY mode
- DIY mode
- Play single DIY mode
- Playback loop several DIY mode
- Color box

DIY mode interface

- Save DIY
- Long press color box to delete current color

Edit single DIY mode

4.2.8 More Function 📦 More

- Group
- Timing

Group Features :

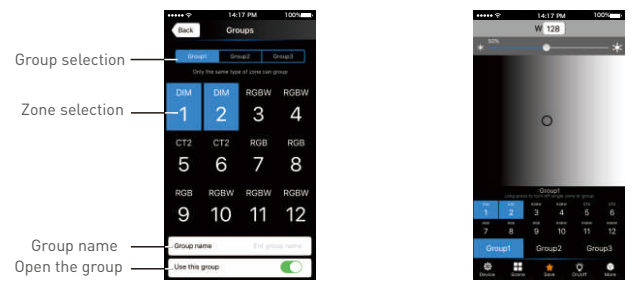- Choose several zones as one group and control in sync.
- Max 3 groups, same LED types in one group and one zone could join multiple groups.
- Enable the group status, the corresponding group will appear on the main interface.
- Group settings will be auto off if zone LED type on & off state changed.

A. Group

- Group selection
- Zone selection
- Group name
- Open the group

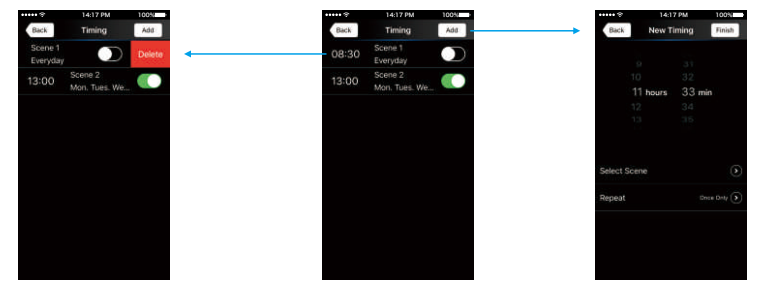Group interface

Group operations in main interface

B. Timing

Slide left to delete timing

Timing interface

Add new timing

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" ⊘ ") 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.

1.	2.	3.	4.
Device list interface	Network interface	SSID name change interface	SSID password change interface
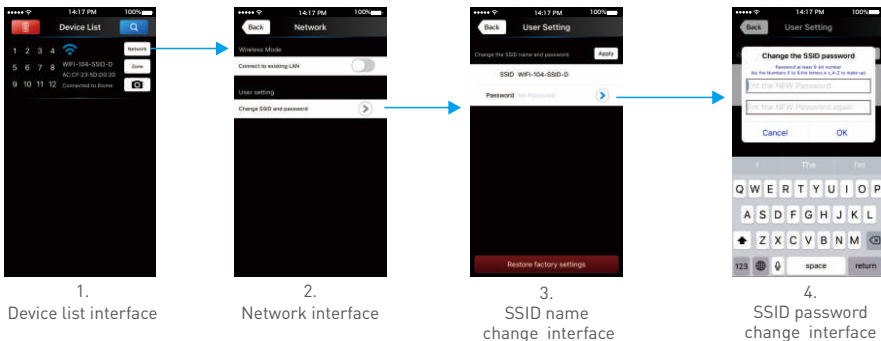
[Attn]:   Direct connection of using WiFi-104 as a router, exit the App after the SSID name and the password changed, reconnect the WiFi-104 on the mobile devices.

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]

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
(long press to increase brightness slowly under the mode of dimming or CT.)

Turn off zones
(long press to decrease brightness slowly under the mode of dimming or CT)

Short press to recall scene
Long press to save scene
applied for 12 zones

Short press to turn off all zones
Long press to turn off key tone

Short press to turn on all zones
(excluding the zones being closed separately)
Long press to turn on the key tone

M12
RF WIRELESS

7. Wiring Diagram

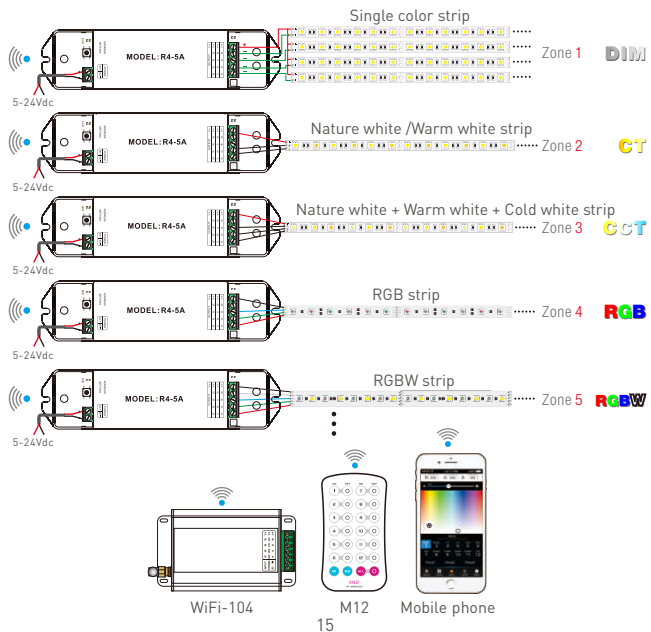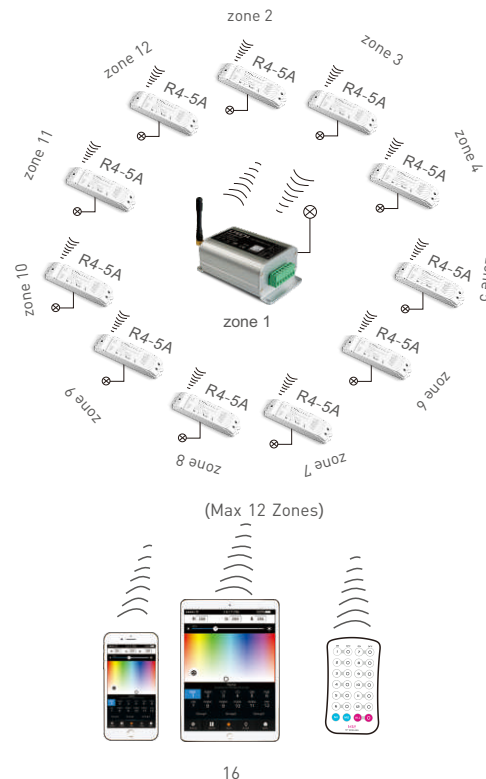### 7.1 Connection Between Zone Receiver to LEDs (Same as WiFi-104)

[Attn]: WiFi-104 itself is defaulted as zone NO.1, connecting lights is optional, slave control will be zone NO.1, if not connected.

All zones could be used for same LED types or not. e.g. single color dimming in all zones, all set to DIM type. Set different LED type in each zone accordingly (Dimming, CT or RGB, etc.).

Single color strip
Zone 1 DIM

Nature white /Warm white strip
Zone 2 CT

Nature white + Warm white + Cold white strip
Zone 3 CCT

RGB strip
Zone 4 RGB

RGBW strip
Zone 5 RGBW

MODEL:R4-5A
5-24Vdc

WiFi-104   M12   Mobile phone

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7.2 Direct Connection of Using WiFi-104 as Router

zone 2
zone 12
zone 3
zone 11
zone 4
zone 10
zone 5
zone 1
zone 9
zone 6
zone 8
zone 7

R4-5A

(Max 12 Zones)

16

7.3 Extra Router Connection

zone 2
zone 12
zone 3
R4-5A
R4-5A
R4-5A
zone 11
R4-5A
R4-5A
zone 4
R4-5A
A
zone 10
R4-5A
R4-5A
zone 5
R4-5A
zone 1
R4-5A
R4-5A
zone 6
zone 9
R4-5A
R4-5A
zone 8
zone 7

(Max 12 zones)

zone 2
zone 12
zone 3
R4-5A
R4-5A
R4-5A
zone 11
R4-5A
R4-5A
zone 4
R4-5A
B
zone 10
R4-5A
R4-5A
zone 5
R4-5A
zone 1
R4-5A
R4-5A
zone 6
zone 9
R4-5A
R4-5A
zone 8
zone 7

(Max 12 zones)

Wireless router

A   B

[Attn] unlimited zone receiver R4-5A/R4-CC can be installed for each zone within effective range.

7.4 Remote Distance Reference

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

R4-5A/R4-CC slave controller

30m

100m   100m

WiFi-104 master controller

Mobile phone   Router

30m

M12 Remote