ORACLE

Smartphone Tablet PC **WiFi LED Controller**

Model: WiFi-103

T3 WiFi-103 T3-CV T3-CC

WiFi-103 is a WiFi lighting control system, consists 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. Supports connection directly or by router.

Dim, CT adjustment, RGB changing 3 in 1 operation, plus DIY programable function. Compatible with T1/T2/T3 RF work.

1. Product Parameter:

WiFi-103 Technical Parameters:

- Communication Standard: 2.4GHz Wi-Fi, 802, 11b/g/n Protocol
- Input Voltage: 12~24Vdc
- Output Current: 4A×3CH Max 12A
- Max Output Power: 144W/288W(12V/24V)
- Output Control: Single Color, CT, RGB LEDs
- Control Distance: Max 100m
- RGB Change Mode: 32 Fixed Modes, 8 DIY Modes
- Scene Mode: RGB 9 Modes, CT 3 Modes
- Operating Temp.: -30℃~55℃
- Dimensions: L128×W73×H45(mm)
- Package Size: L135×W80×H50(mm)
- Weight (G.W): 320g

Software Technical Parameters:

- Platform: Android 2.1 or Above, iOS 5.1 or Above, With the WiFi Function
- Size: Android (1.8MB), iOS (5.6MB)
- Language: English
- Category: Tool
- Others: Free, No Plug-ins

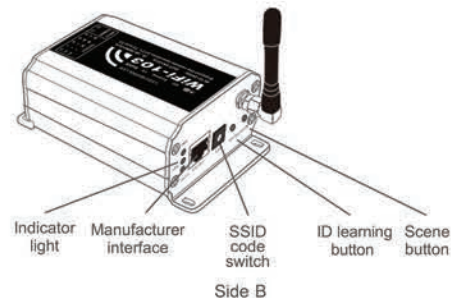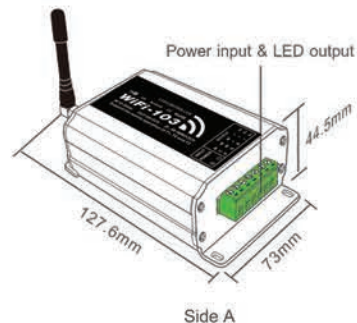### T3-CV Receiving Controller

- Input Voltage: 5-24Vdc
- Max Current Load: 6A×3CH Max 18A
- Max Output Power: 90W/216W/432W(5V/12V/24V)
- Remote Distance: 50m (to WiFi-104)
- Working Temp.: -30℃~55℃
- Dimensions: L175×W44×H30(mm)
- Package Size: L178×W48×H33(mm)
- Weight (G.W.): 140g

T3-CC Receiving Controller (current 3 in 1)

- Input Voltage: 12-48Vdc
- Output Voltage: 3-46Vdc
- Output Current: CC 350/700/1050mA×3CH
- Output Power: 1.05W~48.3W×3CH Max 144.9W
- Remote Distance: 50m (to WiFi-104)
- Working Temp.: -30℃~55℃
- Dimensions: L175×W44×H30(mm)
- Package Size: L178×W48×H33(mm)
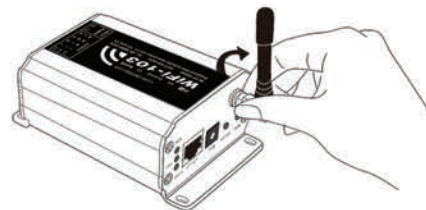- Weight (G.W.): 150g

Note: Receiver is sold seperately.

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2. Configuration Diagram:

Power input & LED output

44.5mm
127.6mm
73mm

Indicator light | Manufacturer interface | SSID code switch | ID learning button | Scene button

Side A   Side B

3. Controller Operating Instructions:

3.1 Install/Uninstall ANT:

Clockwise to install the WiFi-103 ANT, counterclockwise to take off.
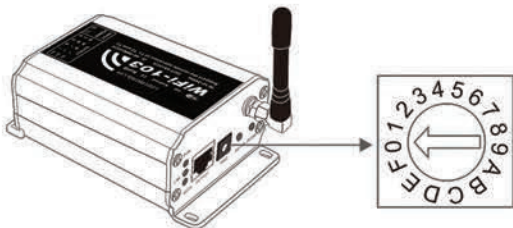
3.2 Work Status Indicator Instructions:

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

LINK: The indicator light stays lit when the mobile device connects to WiFi-103, and turns off when disconnect.

RX/TX: The indicator light turns on when WiFi-103 receives or transmits the WiFi data. Turns off in the free time.

3.3 SSID Number Setting:

Use code switch to set the controller's SSID Number, WIFI-103-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-103 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" Button and "Scene" Button:

MATCH

SCENE

Short press "SCENE" button to enter DIY scenes sequentially, scene mode changes from 1 to 9 then backwards.

RGB scene interface   CT scene interface

[Restore Factory Settings]

Long press "MATCH" button and "SCENE" button simultaneously more than 2 seconds, the machine will back to the default parameter, including the parameters of changing modes, and network parameters, WiFi-103 controller restore as directly connect.

4. The Instructions of APP Software:

4.1 WiFi-103 Software Installation:

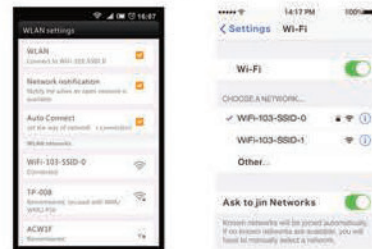Scan following QR code to download and install.

4.2 Software Operating Instructions

4.2.1 Network Connection Setting

WiFi-103 support 2 modes: Direct connection as router or connect by additional router.

● **WiFi-103 Controller Direct Connection as Router :**
Enter mobile device's WiFi setting, click the WiFi function, mobile device search and list the working WiFi controller automatically (As Figure-1), Click the SSID number to connect (default is no password).
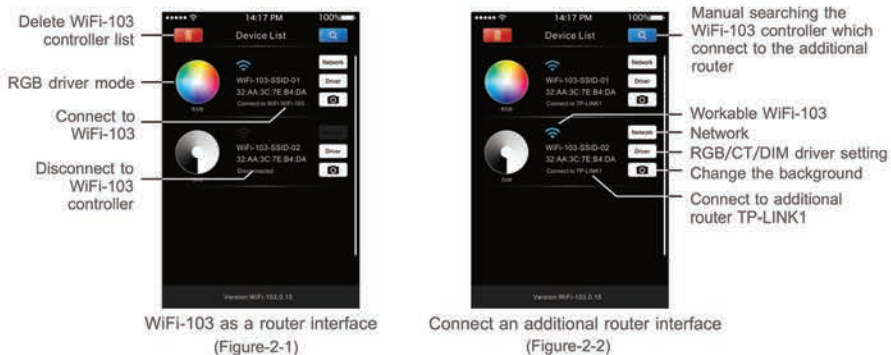

Android WiFi connection   Apple WiFi connection

(Figure-1)

- **Connection with an Additional Router:**

Connnect WiFi-103 Controller to The Additional Router Network:
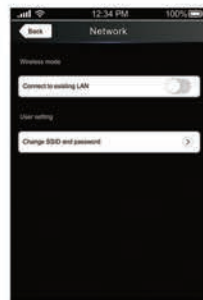
A. Connect to the WiFi-103 controller, the same step as (4.2.1)

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 📶 (as Figure-2-1)

Delete WiFi-103 controller list

RGB driver mode

Connect to WiFi-103

Disconnect to WiFi-103 controller

Manual searching the WiFi-103 controller which connect to the additional router

Workable WiFi-103 Network
RGB/CT/DIM driver setting
Change the background
Connect to additional router TP-LINK1

WiFi-103 as a router interface
(Figure-2-1)
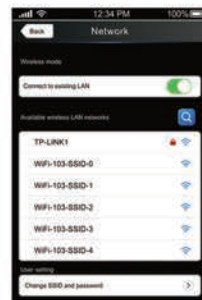
Connect an additional router interface
(Figure-2-2)

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-103 controller), can add the WiFi-103 controller to the wireless router(as Figure-3-2 the wireless router TP-LINK1)

Repeat the ABC steps if you need connecting multiple WiFi-103 controller to this wireless router.

D. Exit WiFi-103 software, enter mobile device setting-wireless network setting, choose the wireless router to connect. Device List interface shows as Figure-2-2 when re-open the WiFi-103 software. Completes the steps to connect to the additional router.

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(Figure-3-1)   (Figure-3-2)

Attn: In this connection mode, to avoid the mobile device automatically connect to WiFi-103 after the setting has completed, please click on the connected WiFi-103 which under the mobile device "WiFi setting" and at the message box please click "Forget this network"(Apple iOS) or "Cancel save" (SAMSUNG mobile phone is "forget") to cancel the save of WiFi-103 connection.
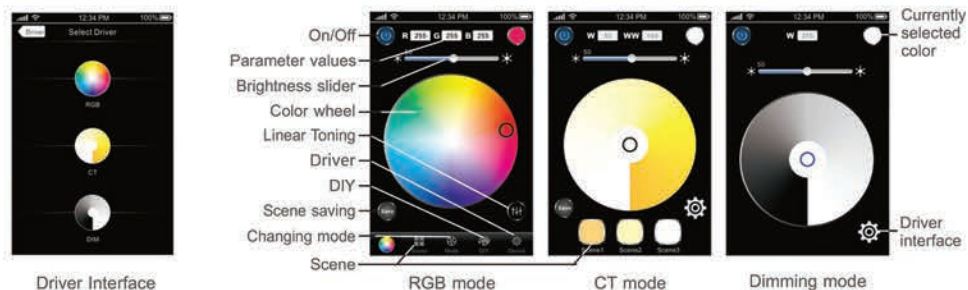
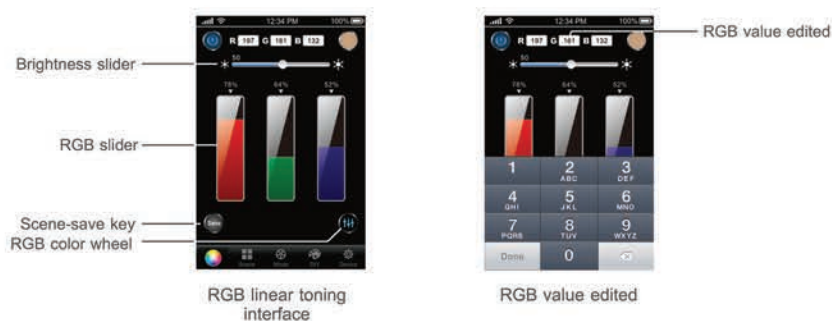Android cancellation of the save of WiFi-103 connection

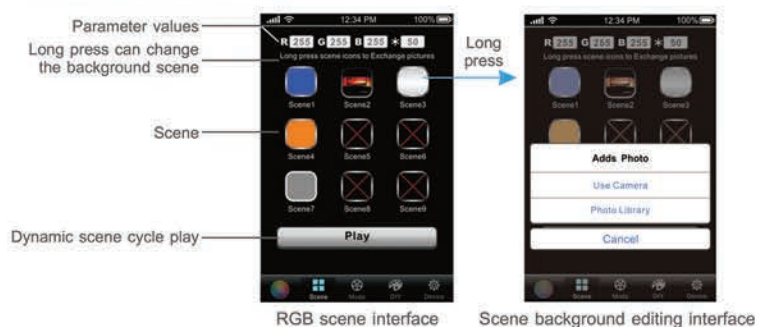Apple cancellation of the save of WiFi-103 connection

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4.2.2 RGB/CT/DIM Driver Color Wheel Interface:

Driver Interface

On/Off
Parameter values
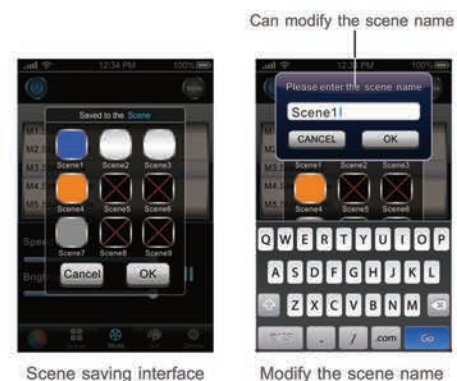Brightness slider
Color wheel
Linear Toning
Driver
DIY
Scene saving
Changing mode
Scene

Currently selected color

Driver interface

RGB mode

CT mode

Dimming mode

4.2.3 RGB Linear Toning Interface :

Click to enter linear toning interface in the RGB mode with color wheel.

Brightness slider
RGB slider
Scene-save key
RGB color wheel

RGB value edited

RGB linear toning interface

RGB value edited

4.2.4. RGB Scene Interface

Parameter values
Long press can change the background scene

Scene

Dynamic scene cycle play

Long press

Adds Photo
Use Camera
Photo Library
Cancel

RGB scene interface

Scene background editing interface

4.2.5 RGB Save Scene Interface :

On the interface of RGB color wheel, linear toning, and mode or DIY, click to the scene-save interface.

Can modify the scene name

Please enter the scene name
Scene1
CANCEL   OK

Scene saving interface

Modify the scene name

4.2.6 CT Mode Interface :

On CT interface, select color temperature by touching color wheel, then click , scene 1~3 start flash, select any one, the scene name box will pop-up, you can rename the scene. Click "OK" to save the current color temperature as a scene; click "cancel" to cancel the save operation.

After save, select any scene from 1~3 in the CT interface, the corresponding scene changing mode will pop-up immediately.
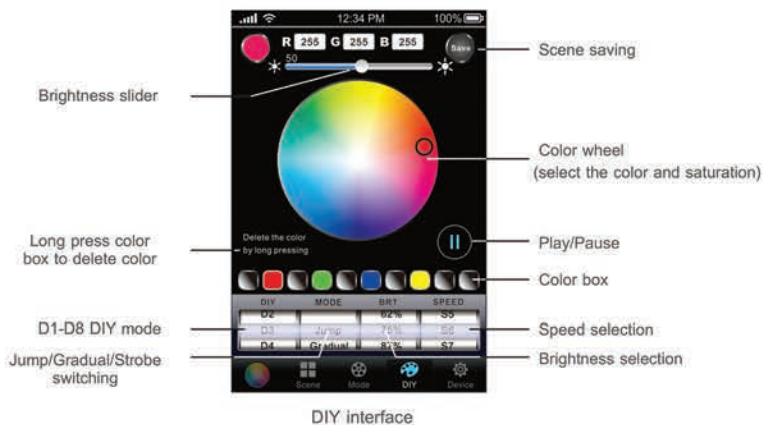

Parameter values

Setting
Save scene
Scene

Modify the scene name

CT mode   Scene name

4.2.7 RGB Mode Interface Mode:

Scene saving

Changing mode selection

Speed slider
Brightness slider

Play/Pause

Mode interface

Tables of Changing Mode:

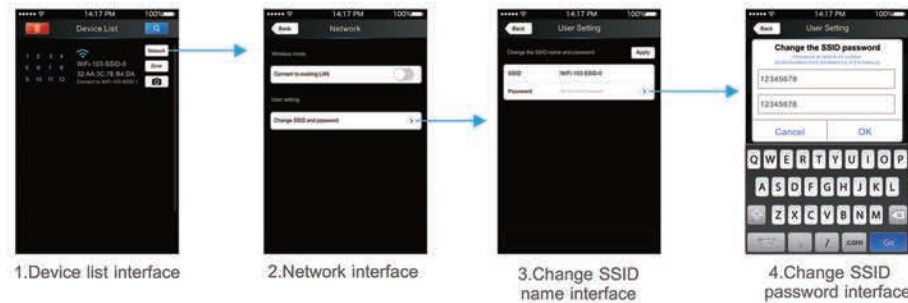| No.	Mode	No.	Mode
1	Static Red	17	Cyan Fade Out and Fade In
2	Static Green	18	White Fade Out and Fade In
3	Static Blue	19	RGB Fade Out and Fade In
4	Static Yellow	20	Red/Green Gradual Alternately
5	Static Purple	21	Red/Blue Gradual Alternately
6	Static Cyan	22	Green/Blue Gradual Alternately
7	Static White	23	Red/Yellow Gradual Alternately
8	RGB Jumping	24	Green/Cyan Gradual Alternately
9	7 Colors Jumping	25	Blue/Purple Gradual Alternately
10	White Strobe	26	Green/Yellow Gradual Alternately
11	7 Colors Strobe	27	Blue/Cyan Gradual Alternately
12	Red Fade Out and Fade In	28	Red/Purple Gradual Alternately
13	Green Fade Out and Fade In	29	Blue/White Gradual Alternately
14	Blue Fade Out and Fade In	30	Yellow/Purple/Cyan Gradual Alternately
15	Yellow Fade Out and Fade In	31	RGB Gradual Alternately
16	Purple Fade Out and Fade In	32	Full Color Gradual Alternately

Comment: Speed/Brightness Adjustable

4.2.8 DIY Interface

- Scene saving
- Brightness slider
- Color wheel (select the color and saturation)
- Long press color box to delete color
- Delete the color by long pressing
- Play/Pause
- Color box
- D1-D8 DIY mode
- Speed selection
- Jump/Gradual/Strobe switching
- Brightness selection

DIY interface

For Example:

The sequence for 10 color boxes is black, red, black, green, black, blue, black, yellow, black, black, which means 8 colors was chosen in the above boxes, which is black, red, black, green, black, blue, black, yellow. For jump type, this lighting effect will be red, green, blue, yellow 4 colors strobe. For gradual type, this lighting effect will be red fade-in and fade-out, green fade-in and fade-out, blue fade-in and fade-out, yellow fade-in and fade-out.

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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 interface. Typing new SSID name and password (Min. 8 characters, consist of 0-9, a-z and A-Z). Click "Apply" key on the top right corner of the interface to save the changes.

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

[Attn]: In direct connection of the WiFi-103 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-103, In additional wireless router connection, it only needs to click " 🔍 " in Device List interface to search again the WiFi-103 controller after changed SSID name.

[Attn]: If you forget the WiFi network password, please simultaneously press "MATCH" button and "SCENE" button more than 2s to restore the factory default settings, so that can delete the WiFi network password (More details in page 3 [Restore factory settings])

6. The Remote Operating Instructions

T3 Technical Parameters:

- Charging Voltage: 5Vdc
- Working Current: <30mA
- Working Frequency: 2.4GHz
- RF Remote Distance: 30m
- Battery Capacity: 1000mAh

- Dimensions: L145×W55×H22mm
- Package Size: L168×W102×H28mm
- Weight (G.W): 235g

Note: Remote is sold separately.

6.1 The Learning Method of T3 to WiFi-103

Learning ID: Short press ID learning button "MATCH" on WiFi-103, buzzer beep once, long press any key (except "On/Off") on remote within 5s until the remote indicator light flashes 3 times (meanwhile the buzzer long beep), means the controlling between remote and WiFi-103 is activated.
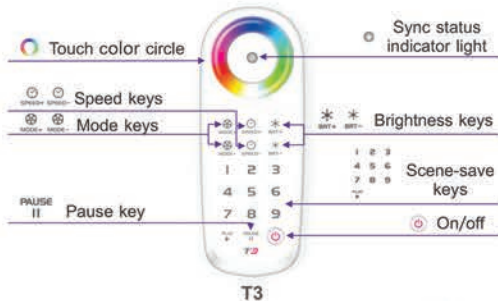
Cancelling ID: Long press "MATCH" button on WiFi-103 (over 5s) till the buzzer long beep, means all the remotes learned with WiFi-103 cancelled.
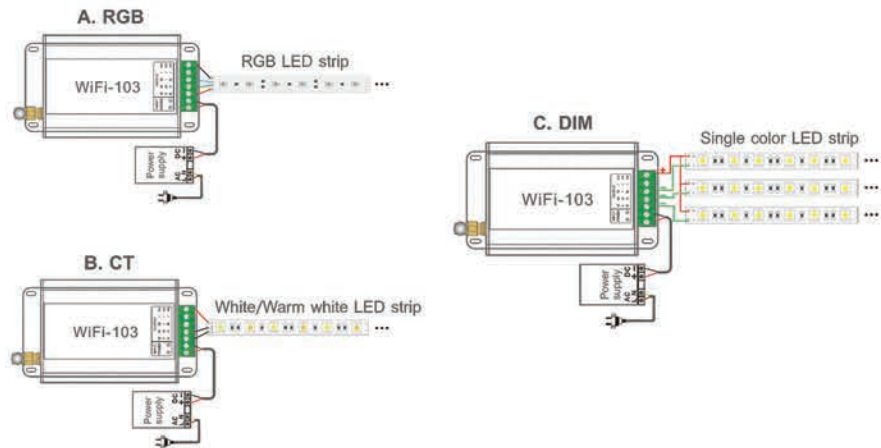
Attn: Different types of remote learning operation, will change WiFi-103 control mode directly (single color, color temperature and RGB mode).

MATCH Button

6.2 Function Definition of Remote Control Keys

T3

- Touch color circle
- Speed keys
- Mode keys
- Pause key
- Sync status indicator light
- Brightness keys
- Scene-save keys
- On/off

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7. Conjunction Diagram:

7.1 Connecting with The LEDs

A. RGB — RGB LED strip
B. CT — White/Warm white LED strip
C. DIM — Single color LED strip

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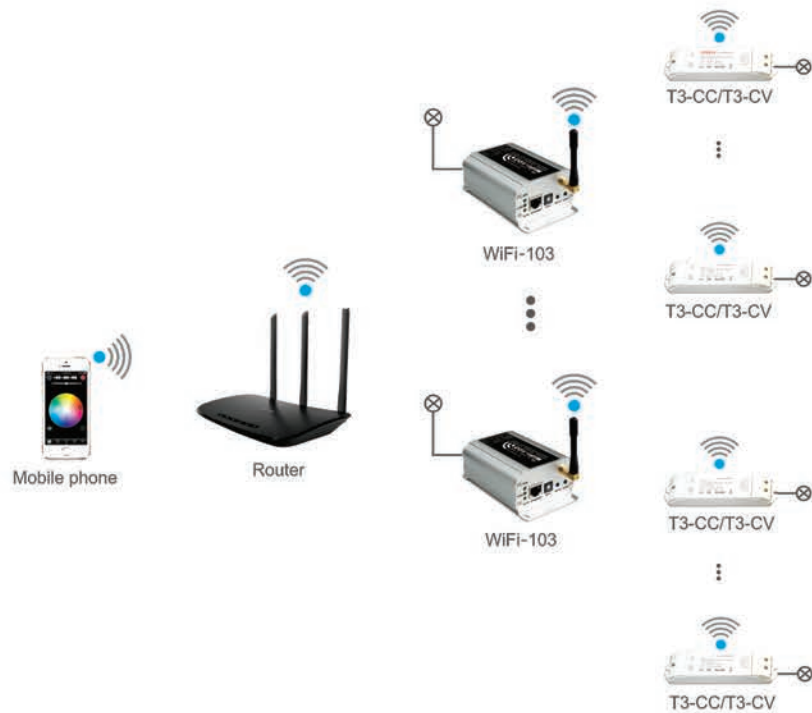## 7.2 Diagram of Wireless Slave Control:

Add T3-CV/T3-CC if needed.

Method to Sync T3-CV/T3-CC to WiFi-103:

Learning ID: Long press the "SCENE" button on the WiFi-103 controller until the buzzer long beep (RUN light flash quickly), and then short press the ID learning button on the T3-CV/T3-CC, the buzzer long beep again. Learning ID successful.

Canceling ID: Long press the "SCENE" button on the WiFi-103 controller until the buzzer long beep twice, cancel all the T3-CV/T3-CC learned with WiFi-103 controller.
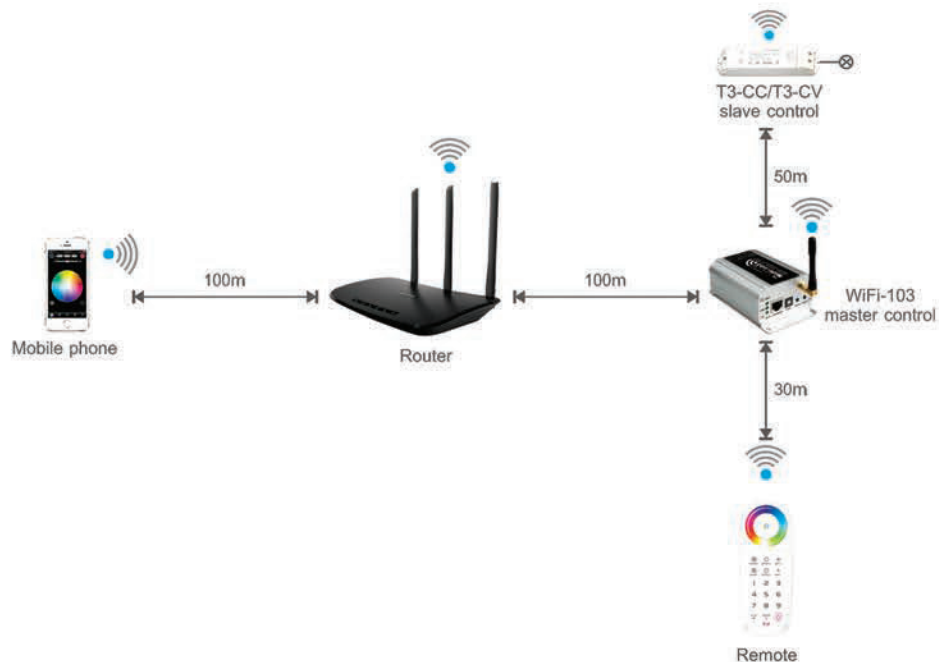

SCENE button

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7.3 Connect By a Router

T3-CC/T3-CV

WiFi-103

T3-CC/T3-CV

Mobile phone   Router

WiFi-103

T3-CC/T3-CV

T3-CC/T3-CV

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7.4 Remote Distance Reference

[Attn]: The following distance is measured at open environment, in unopened environment, testing wireless distance will be reduced. Please refer to the actual test distance before installation.

T3-CC/T3-CV
slave control

50m

WiFi-103
master control

100m

100m

30m

Mobile phone

Router

Remote

8. Attention

8.1 The product shall be installed and serviced by the qualified person.

8.2 This product is non-waterproof. Please avoid the sun and rain. When installed outdoors please ensure it is mounted in a water proof enclosure.

8.3 Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.

8.4 Please check if the output voltage of the LED power supply used comply with the working voltage of the product.

8.5 Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.

8.6 Ensure all wire connections and polarities are correct before applying power to avoid any damages to the lights.

8.7 If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.

Learn more about custom and factory headlights we have.