FC CE RoHS warranty 5 years ISO9001:2008

www.ltech-led.com

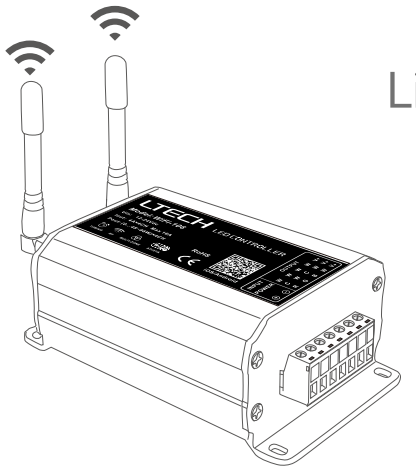
LTECH

L-BUS

Lighting Control System

iOS

Andriod



Model: WiFi-106

L-BUS 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 Android or iOS 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-106 Gateway

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
Output Control:	Dimming, CT, RGB, RGBW
Operating Temp.:	-30℃~55℃
Dimensions:	L128×W73×H45(mm)
Package Size:	L160×W110×H50(mm)
Weight (G.W.):	470g

F12 RF Remote Control

Working Voltage:	3Vdc (Battery CR2032)
Wireless Frequency:	R F 2.4GHz
Package Size:	L150×W46×H18(mm)
Weight(G.W.):	85g

Software Technical Parameters

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

Optional accessories

Touch panel

Single zone control — Output signal: RF + DMX512

EX1 EX1S EX2 EX3 EX3S EX4 EX4S

Multi-zone control — Output signal: RF + DMX512

EX5 EX6 EX7 EX7S EX8 EX8S

Dimming control — Output signal: RF + DMX512

EXC1 EXC2 EXC3 EXC4

Power touch panel — Output signal: RF + Power output

E1 E1S E2 E3 E3S

Remote

F1 F2 F3 F4 F5 F6 F7 F8

RF relay

EBOX-AP

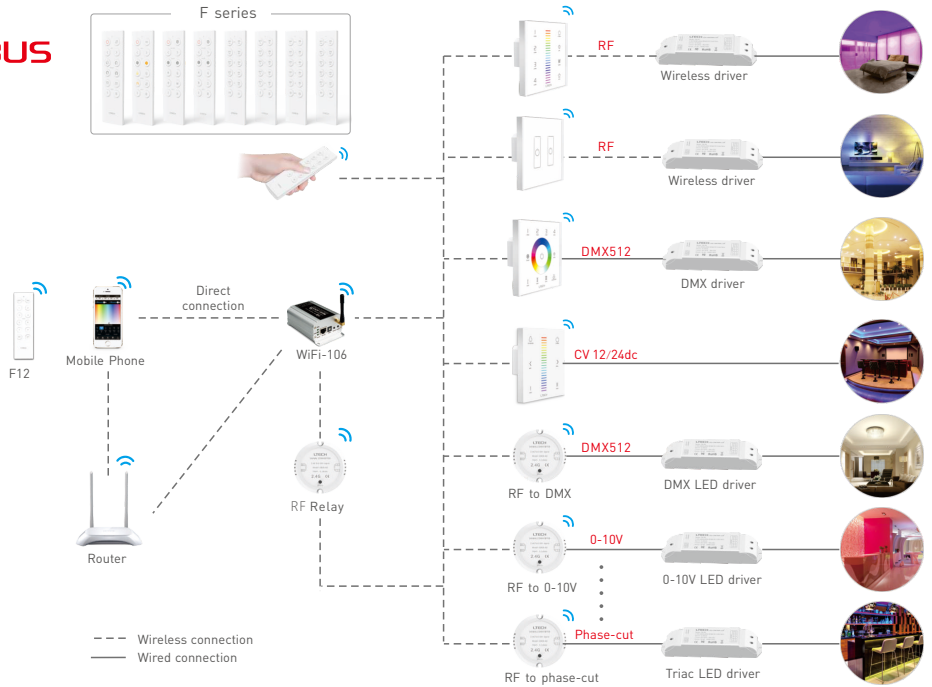
Signal converter

RF to DMX EBOX-DMX | RF to 0-10V EBOX-AD | RF to Triac EBOX-TD

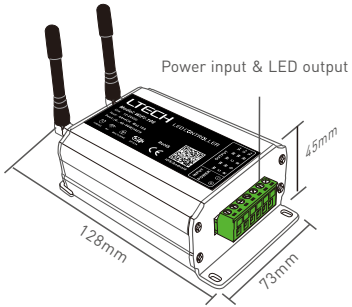
Receiver

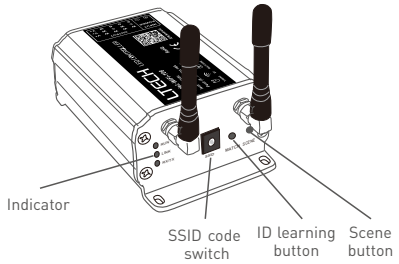
F4-3A F4-5A F4-CC F4-DMX-5A F5-DMX-4A

L-BUS



2. Configuration Diagram:

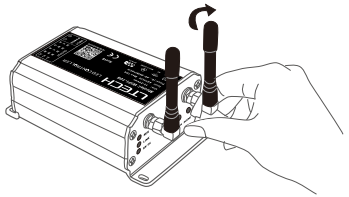




3. Controller Operating Instructions:

3.1 Install/Uninstall ANT:

Clockwise to install the WiFi-106 ANT, counterclockwise to take off.



3.2 Work Status Indicator Instructions:

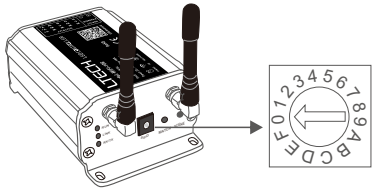
RUN: The indicator light flashes quickly about 60 seconds during the electric initialization. Return to flash slowly after initialization.

LINK: The indicator light stays lit when the mobile device connects to WiFi-106, and turns off when disconnect.

RX/TX: The indicator light flashes when WiFi-106 receive or transmit 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-106-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-106 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.

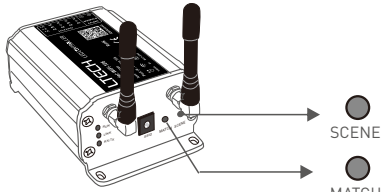


3.4 "MATCH" and "SCENE" Button:

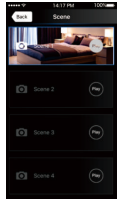
Short press MATCH button, WiFi controller begins its learning ID status for F12 remote (learning method, see P16).
Short press "SCENE" button entering into the user-saved scene modes sequentially, 8 scenes total.

[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 1st zone is present, default RGBW mode, the changing mode is RGB jumping, white is the brightest, no groups, network SSID is WiFi-106-SSID-X (X is the actual coding switch corresponding SSID values), WiFi-106 controller restores as direct connection and the connection password is blank.



SCENE button and MATCH button



Scene interface

4. The Instructions of APP Software:

4.1. WiFi-106 Software Installation:

Scan QR Code to download the APP via mobile phone.

iOS/Android

4.2 Software Operating Instructions:

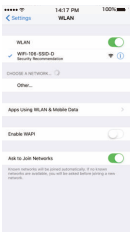
4.2.1 WiFi Connection and Settings

WiFi-106 support 2 connection modes: Direct connection as a router or connect by an additional router.

A. WiFi-106 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)

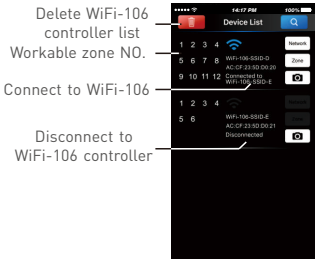
Attn: When WiFi-106 work as a router, to avoid the mobile device automatically connect to other network, please disconnect the other network in "WiFi setting" interface.

B. Connection with an Additional Router:

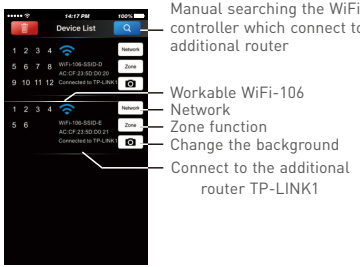
Connect WiFi-106 Controller to the Additional Router Network:

a. Connect to the WiFi-106 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)



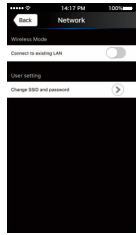
WiFi-106 as a router interface (Figure-2-1)



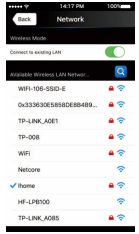
Connect an additional router interface (Figure-2-2)

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-106 controller), can add the WiFi-106 controller to the wireless router (as figure-3-2 the wireless router TP-LINK1)
Repeat the abc steps if you need connecting multiple WiFi-106 controllers to this wireless router

d. Exit WiFi-106 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-106 software. Now completes the steps to connect to the additional router.



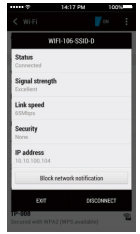
(Figure-3-1)



(Figure-3-2)

Network interface

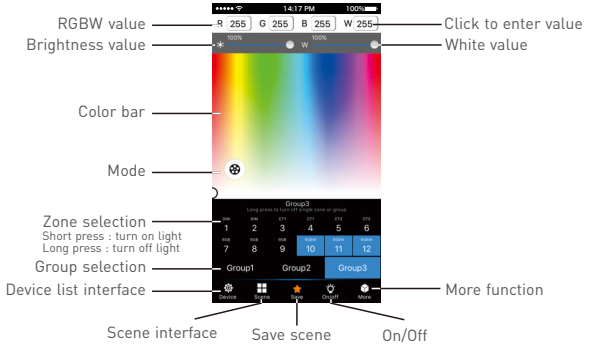
Attn: In this connection mode, to avoid the mobile device automatically connect to WiFi-106 after the setting has completed, please disconnect WiFi-106 in the "WiFi setting" interface.



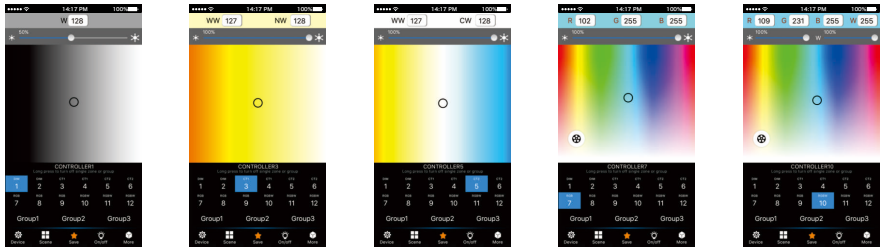
Android cancellation of the save of WiFi-106 connection

Apple cancellation of the save of WiFi-106 connection

4.2.2 Main Interface (5 types)



5 Main Interface

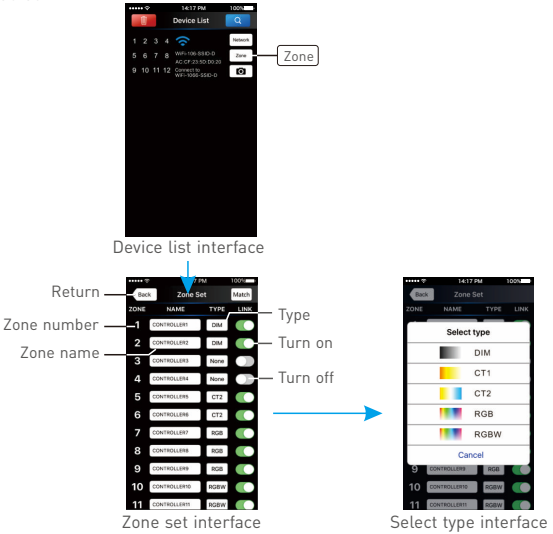


4.2.3 The Learning Method of Zone Control

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).

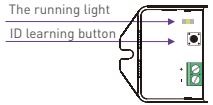
[Attn]: WiFi-106 itself is defaulted as zone NO.1, connecting lights is optional, slave control will be zone NO.1 if not connected.



B. Learning ID:

Method 1:

Short press "ID learning button" on driver, the lamps flicker, please complete the following steps in 15s. Turn on APP, click "ZONE" key to enter "zone set" interface, click the right top "MATCH" key, then operate following the prompts.



Method 2:

Power off the driver, then turn on APP, click "ZONE" key to enter "zone set" interface, click the right top "MATCH" key, then operate following the prompts.

C. Cancelling ID:

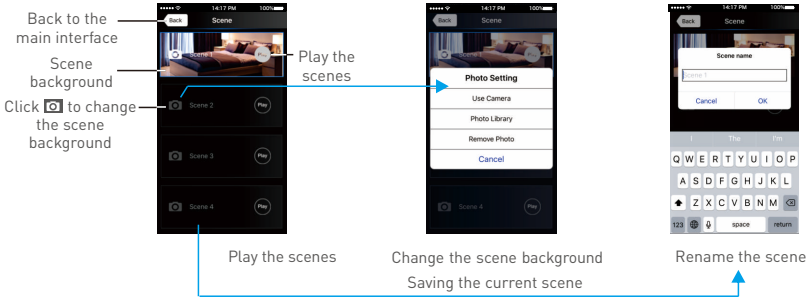
Method 1: Long press" ID learning button" on the driver for 10s, the lamps flicker 5 times, ID cancelled.

Method 2: Power on and power off the driver for 10 times contineously, the lamps flicker 5 times, ID cancelled.

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

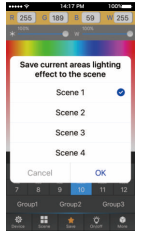
4.2.4 Scene Interface

Scene



4.2.5 Save scene

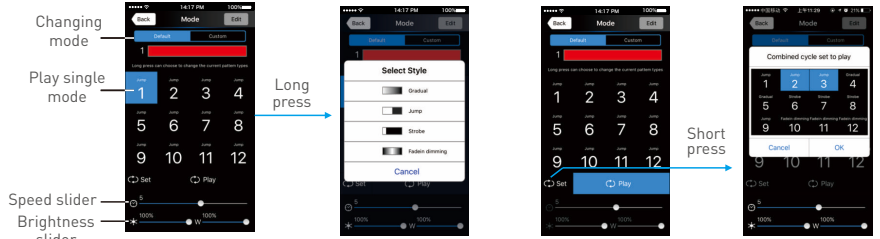
Save



Save current areas lighting effect to the scene

4.2.6 Mode Interface for RGB / RGBW Type

Mode

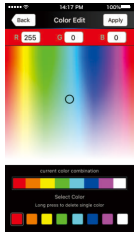


4.2.7 DIY Interface

Mode

DIY mode interface

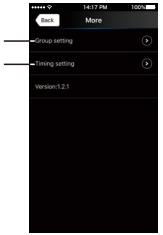
Edit single DIY mode



Edit single DIY mode

4.2.8 More Function

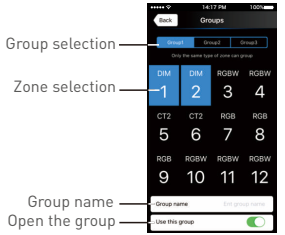
More



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.

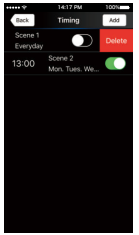
A. Group



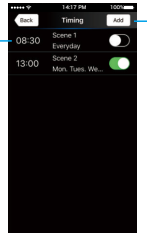
Group interface

Group operations in main interface

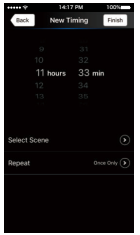
B. Timing



Slide left to delete timing



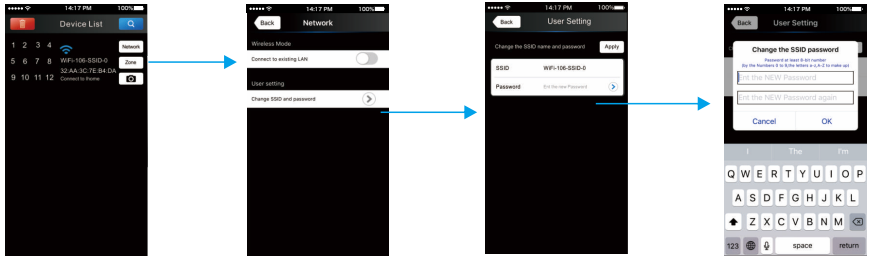
Timing interface



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.
Device list interface

2.
Network interface

3.
SSID name
change interface

4.
SSID password
change interface

[Attn]: Direct connection of using WiFi-106 as a router, exit the App after the SSID name and the password changed, reconnect the WiFi-106 on the mobile devices.

For extra router connection, just press " 🔍 " on Device List interface to research WiFi-106.

[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 P5)
[Restore factory settings / Delete password]

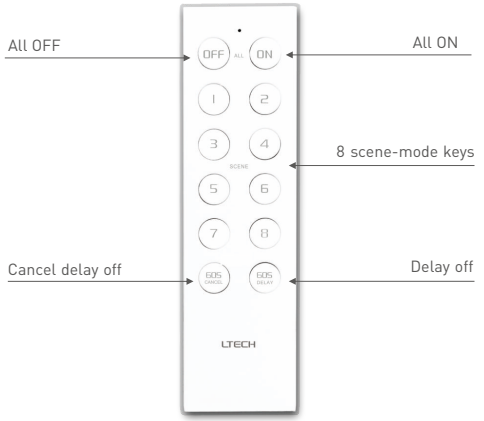
6. Remote Operating Instructions

Learning ID

Short press "MATCH" on WiFi-106, the buzzer long beep, press any key on F12, the buzzer beep again, ID matched.

Cancelling ID

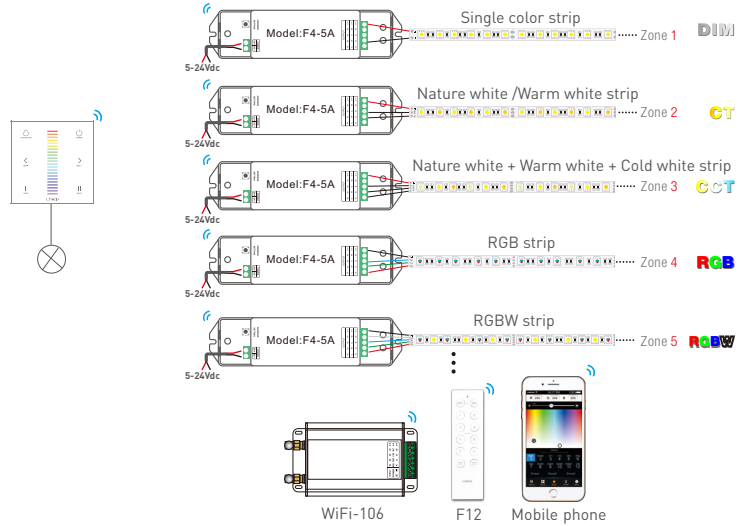
Long press "MATCH" on WiFi-106 above 6s, the buzzer long beep, ID cancelled (cancelled all matched remotes).



7. Wiring Diagram

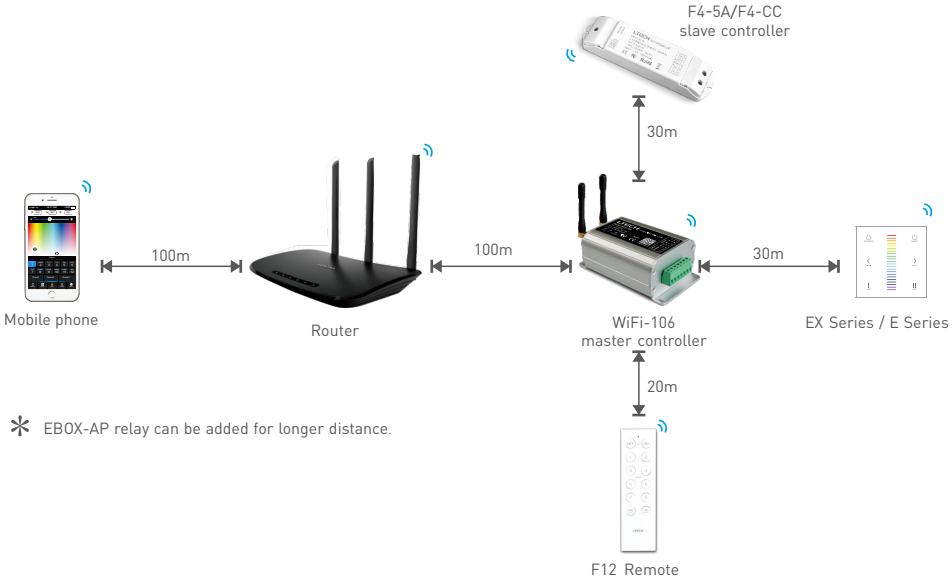
7. 1 Connection Between Zone Receiver to LEDs (Same as WiFi-106)

[Attn]: WiFi-106 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.).



7.2 Remote Distance Reference

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



✻ EBOX-AP relay can be added for longer distance.