LTECH

L-BUS Intelligent Lighting Control System

Intelligent Gateway
Model: WiFi-108
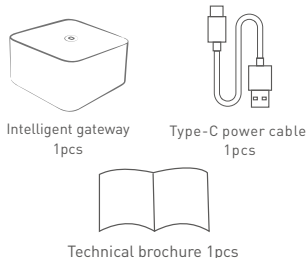
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1. Product Features

- Realize global long-range control by cloud platform.
- 2 in 1 control: Wireless RF and wired connection.
- Multi-zones dimming, color changing and multi-groups control.
- One click scene function, timing function.
- Advanced lighting program setting, sunrise or sunset effect or any other changing effect could be simulated.
- Support mobile phone, remote control and dimming panel to control all lighting effects.
- Voice control, support amazon ECHO and TmallGenie smart speaker.
- Opened third party communication interface: Trigger contacts.

2. Technical Specs

Model:	WiFi-108	Power Interface:	Type-C USB
Communication Standard:	2.4GHz Wi-Fi, 2.4GHz RF 802.11b/g/n protocol.	Working Temp.:	-30°C~60°C
		Dimensions:	L90×W90×H55mm
Input Voltage:	5Vdc	Packing Size:	L122×W122×H79mm
Extension Interface:	Trigger contact, RS485, L-BUS protocol interface	Weight(G.W.):	380g

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3. Package Content

Intelligent gateway
1pcs

Type-C power cable
1pcs

Technical brochure 1pcs

4. Product Size

Unit: mm

90

90

55

5. Product Description

Match key
(use it when enter network)
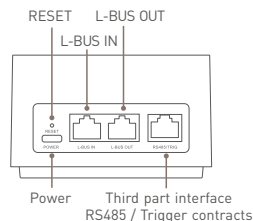

RESET   L-BUS OUT

L-BUS IN

Power   Third part interface
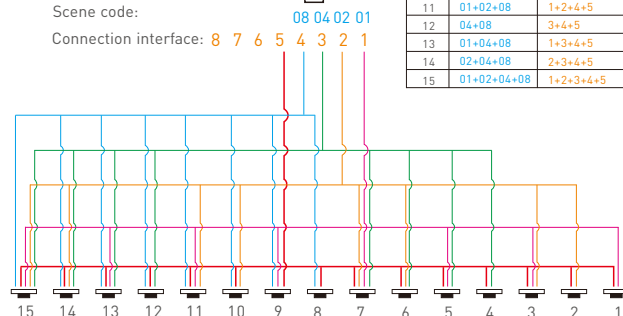RS485 / Trigger contracts
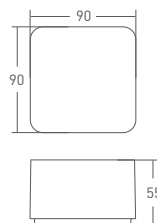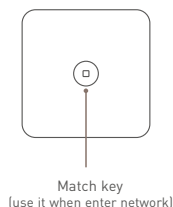
RESET: Insert the pin into the "RESET" hole for 6 second. (All the data will be cleared, please use it carefully). Details refer to 10.6.

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6. Third Party Communication Interface Wiring

As below the four contacts are connected on the Rj45 connector, which can trigger 15 scenes. The keys are used with binary combination to response 15 scenes.

Third party communication interface

Trigger contacts interface   1,2,3,4: Data

5: 3.3Vdc

RS485 interface   6: DC+, 7: DC-, 8: GND

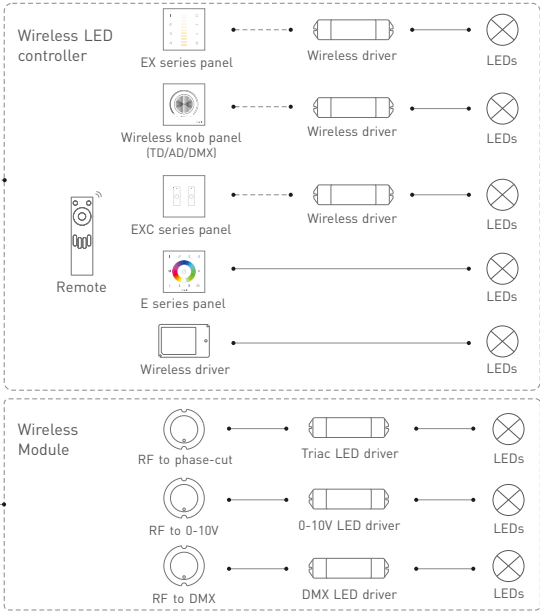Scene code: 08 04 02 01

Connection interface: 8 7 6 5 4 3 2 1

Scene	Scene code	Connector
1	01	1+5
2	02	2+5
3	01+02	1+2+5
4	04	4+5
5	01+04	1+3+5
6	02+04	2+3+5
7	01+02+04	1+2+3+5
8	08	4+5
9	01+08	1+4+5
10	02+08	2+4+5
11	01+02+08	1+2+4+5
12	04+08	3+4+5
13	01+04+08	1+3+4+5
14	02+04+08	2+3+4+5
15	01+02+04+08	1+2+3+4+5

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

No. 1-15 represent 15 scenes.

7. System Wiring

L-BUS

3G/4G
WiFi

Cloud service

Internet

WiFi

Router

WiFi

Intelligent gateway

RF

APP

L-BUS

Amazon ECHO

Scene panel
(programmable)

Human sensor
(programmable)

RF relay

- - - Wireless connection
——— Wired connection

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Wireless LED controller

EX series panel — Wireless driver — LEDs

Wireless knob panel (TD/AD/DMX) — Wireless driver — LEDs

EXC series panel — Wireless driver — LEDs

E series panel — LEDs

Remote

Wireless driver — LEDs

Wireless Module

RF to phase-cut — Triac LED driver — LEDs

RF to 0-10V — 0-10V LED driver — LEDs

RF to DMX — DMX LED driver — LEDs

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8. Optional Accessories

RF signal touch panel

Single zone control   Output signal: RF + DMX512

| EX1 | EX1S | EX2 | EX3 | EX3S | EX4 | EX4S | EX61 |

Multi-zone control   Output signal: RF + DMX512

| EX5 | EX6 | EX7 | EX7S | EX8 | EX8S |

Dimming control   Output signal: RF + DMX512

| EXC1 | EXC2 | EXC3 | EXC4 |
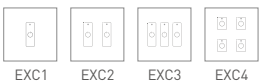
RF power touch panel   Output signal: RF + Power output   RF+phase-cut RF+0-10V

| E1 | E1S | E2 | E3 | E3S | E5S | E61 | E1S-TD | E610P-RF |

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Wireless driver

| F4-CC | F5-DMX-4A | F4-3A | ... |

Wireless module (Can be connected to more than 100 types of LTECH dimmable driver.)   RF relay

EBOX-DMX
DMX512

EBOX-AD
0-10V

EBOX-TD
phase-cut

EBOX-AP

Other accessories

Q series
remote

F series
remote

Human sensor
(programmable)

Scene panel
(programmable)

✱ More supporting equipments is applicable to L-BUS system, please consult the supplier for details.

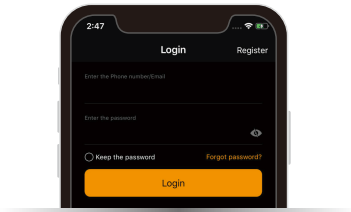7

9. APP Introduction

9.1 Install APP

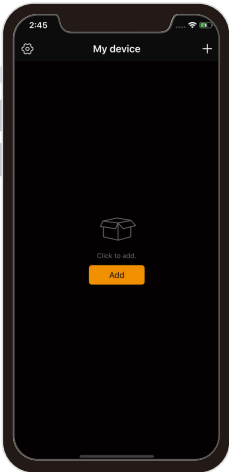### 9.1.1 Install APP via mobile phone

Scan QR Code to download "L-BUS"
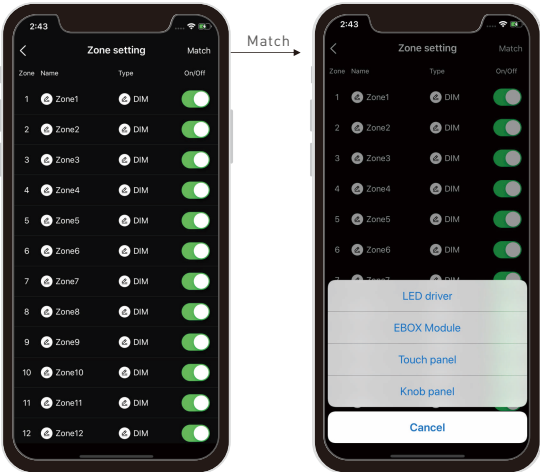
9.1.2 Open APP and register or login.

9.2 Device management:

9.2.1 Match device: Open APP, enter "My Device" interface, click " + "icon, following the prompts to add WiFi-108.

9.2.2 Match panel / lamps

Click right bottom "more" icon ≡ to enter, then click "Zone setting", in "Zone setting" interface, click right top "Match" key to match panel, lamps and EBOX.
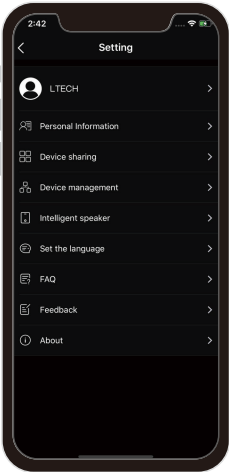
9.2.3 Reconfigure router

Click left top "Setting" icon ⚙ in home page, then click "Device management" to enter its interface, click right top "Reconfig Router", then operate following the prompts.

9.2.4 Device sharing:

Click the left top "Setting" icon ⚙ in home page, and choose "Device sharing" to enter, click the bottom "invitation". (details please refer APP, QR code invitation is effective within 30 minutes.)

10. FAQ

10.1 Is there a requirement for the mobile version of this product?

Please use Android 4.0, iOS 9.0 or higher version.

10.2 What we can do if gateway match failed?

10.2.1 Please check if the router net in 2.4G band. The 5G is not available. Please set the router into 2.4G if you use the intelligent dual-band routers.

10.2.2 Please do not hide your router network.

10.2.3 Please keep the distance between devices and router close.

10.2.4 Kindly check the WiFi signals.

10.2.5 Kindly check the WiFi account and password.

10.2.6 Kindly check the WiFi devices, do not exceed the router capacity.

10.3 How to set up if the configured router needs to be replaced?

Please enter the App and follow the instruction of 9.2.3 after connecting the new router.

10.4 What can we do if the long-range control failed or the gateway offline?

10.4.1 Kindly check the network of your mobile phone.

10.4.2 Kindly check the router.

10.4.3 Kindly check the power of gateway or if the devices are restored factory setting.

10.5 What can we do if failed matching the sub-devices and gateway.

10.5.1 Please check the distance between the gateway and the sub-devices, or if there is any large area of metal barrier. Please shorten the distance if there are lots of barrier.

10.5.2 Please add the EBOX-AP RF relay if any long distance situation.

10.6 How to restore factory settings or unbind the current host account?

Insert the pin into the "RESET" hole for 6 second, restore factory defaults after a long beep. Restore factory settings succeed when the blue indicator lights flashes. Then all the data is cleared and the current host account is unbound.

Please contact suppliers if needs more support.

11. Attention

- When placing, please avoid close to a large area of metal objects, so as not to disturb signal.
- Please use 5V power adapter for the gateway.
- Please don't use it in wet environment.
- No burning, no heating.
- Please don't open, alter, repair or maintenance the gateway, or it will be out of warranty.

FC CE RoHS ⊘ ISO9001:2008

12. After-sales Service Instruction

Thanks for buying L-BUS intelligent gateway. A 1-year warranty is given from the date of purchase. Please contact supplier before sending back.

Warranty exclusions below:

- Product broken because wasn't installed, used, maintained, reserved according to the manual.
- Beyond the warranty period
- Warranty label, fragile label and unique barcode label have been damaged.
- Unauthorized changes the configuration file or disassemble repair, the product appears to have excessive physical damage.
- Damage due to human factors: unsuitable voltage input, high temperature, influent, mechanical damage, severe oxidation or rust.
- Damage due to natural disasters and force majeure.
- Damage caused by other non product design, technology, manufacturing, quality problems.

✱ No further notice if any changes in the manual.
Product function depends on the goods.
Please feel free to contact our official distributor if any question.