LTECH

EX Series Touch Panel

EX1S
(DIM)

EX2
(CT)

EX4S
(RGBW)

Q
series
remote

F
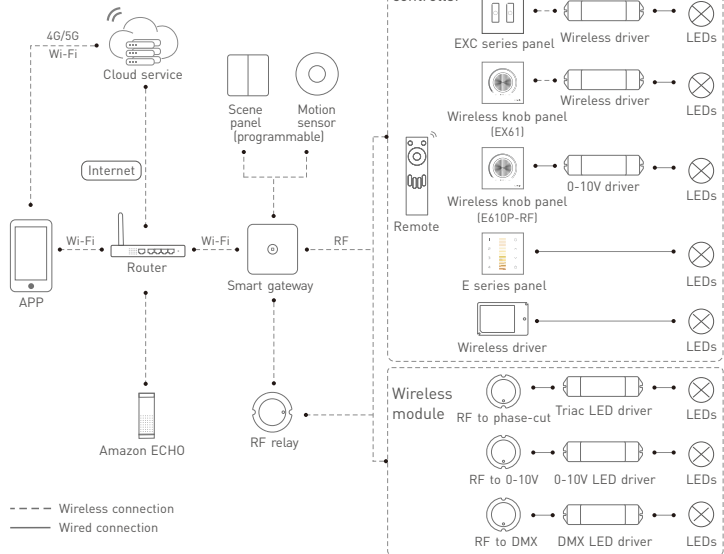series
remote

APP

Manual

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System Diagram

L-BUS

Wireless LED controller

- EX series panel — Wireless driver — LEDs
- EXC series panel — Wireless driver — LEDs
- Wireless knob panel (EX61) — Wireless driver — LEDs
- Wireless knob panel (E610P-RF) — 0-10V driver — LEDs
- E series panel — LEDs
- Wireless driver — LEDs

Cloud service

4G/5G
Wi-Fi

Scene panel (programmable)

Motion sensor

Internet

Remote

APP — Wi-Fi — Router — Wi-Fi — Smart gateway — RF

Amazon ECHO

RF relay

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

- - - - Wireless connection
───── Wired connection

01

Product Features

- Adopt wireless RF and wired DMX512 protocol 2 in 1 control mode, more flexible and convenient for applications in projects.
- Leading RF wireless sync control technology realizes the consistency of dimming and dynamic color changing among multiple drivers.
- Multiple touch panels can control the same LED lights, no limit on panel quantity.
- Touch keys with chord and LED indicator.
- Adopt capacitive touch control technology makes LED dimming selection more user-friendly.
- Control the panels by a remote, or by APP when a LTECH gateway is added.

Technical Specs

Model	EX1S	EX2	EX4S
Control Type	DIM	CT	RGBW
Input Voltage	100-240V~		
Output Signal	DMX512		
Wireless Type	RF 2.4GHz		
Working Temp.	-20°C~55°C		
Dimensions	L86×W86×H36(mm)		
Package Size	L113×W112×H50(mm)		
Weight(G.W.)	225g		

＊ Product with **L-BUS** Advance Mode logo, supports the function of WIFI-108 advanced mode.

FC ◬ CE RoHS

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Product Size

Unit: mm

Terminals

100-240V~
power input

DMX signal
output

L N D+ D- GND

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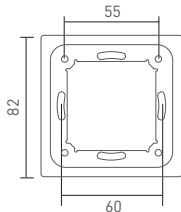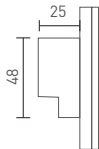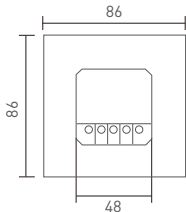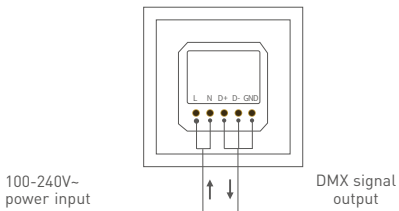
Installation Instruction

Junction box

Panel

Panel plate
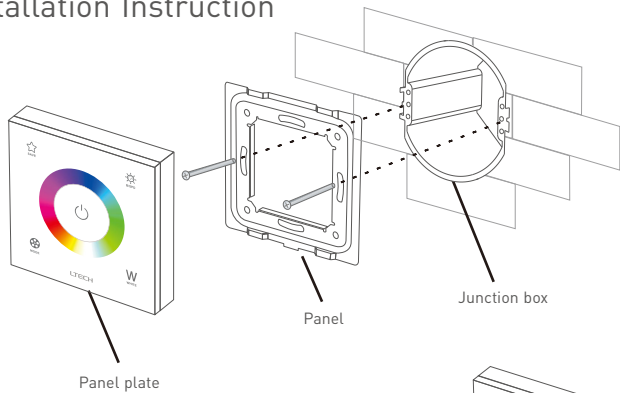
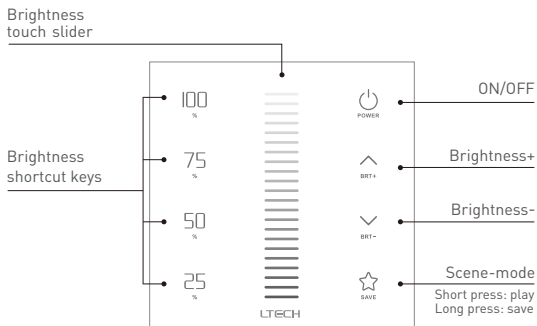Junction boxes are as follow:
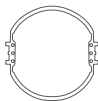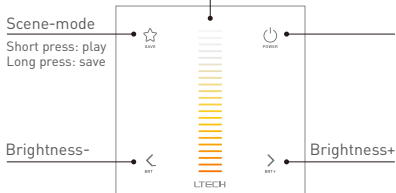

European style
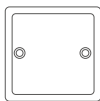
86 type

Remove

Key Functions

﹡ When blue indicator light of ⏻ key is on, long press ⏻ to turn on/off buzzer. When white indicator light of ⏻ key is on, long press ⏻ to match code.

﹡ EX panel's scene-mode keys are corresponding with gateway APP's scenes, the scenes can be changed by APP or panel.

Brightness
touch slider

Brightness
shortcut keys

100
%

75
%

50
%

25
%

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⏻
POWER — ON/OFF

∧
BRT+ — Brightness+

∨
BRT- — Brightness-

☆
SAVE — Scene-mode
Short press: play
Long press: save

EX1S

CT touch slider

Scene-mode
Short press: play
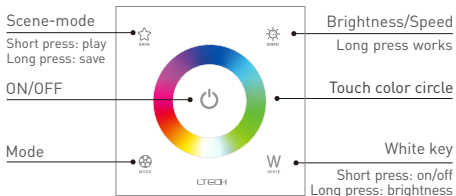Long press: save

Brightness-

Brightness+

EX2

CT & CT2 mode of EX2 panel switch to each other:
Simultaneously long press ☆ and く button for
3 seconds, the buzzer beeps once then switch
successfully.
〔Factory default: CT mode〕

Mode DMX Addresse	CT	CT2
1	C	BRT
2	W	CT

＊ Please switch the color temperature mode
when the switch indicator light is white.

Scene-mode
Short press: play
Long press: save

ON/OFF

Mode

Brightness/Speed
Long press works

Touch color circle

White key
Short press: on/off
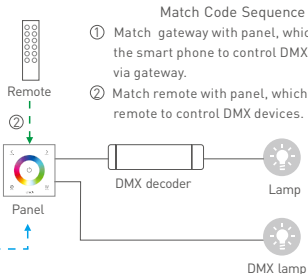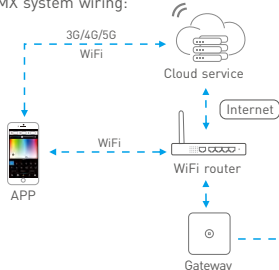Long press: brightness

EX4S

Mode
• Static red
• Static green
• Static blue
• Static yellow
• Static purple
• Static cyan
• Static white
• RGB jumping
• 7 color jumping
• RGB gradient
• 7 color gradient
• Static black (Close RGB only)

＊ White light only: press ✿ key to choose
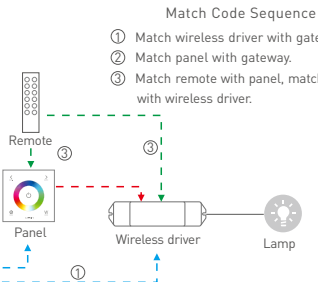black mode, then press W key.

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Match Code Sequence
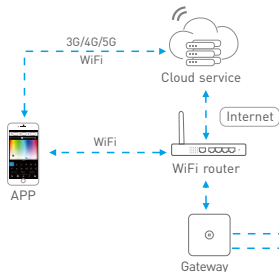
DMX system wiring:

Match Code Sequence
① Match gateway with panel, which enables the smart phone to control DMX devices via gateway.
② Match remote with panel, which enables remote to control DMX devices.
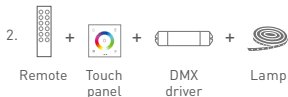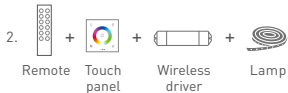
Wireless system wiring:

Match Code Sequence
① Match wireless driver with gateway.
② Match panel with gateway.
③ Match remote with panel, match remote with wireless driver.

Applications

Wireless control:

DMX512 control：

1. Touch panel + DMX driver + Lamp

2. Remote + Touch panel + DMX driver + Lamp

3. WiFi master controller + Touch panel + DMX driver + Lamp

4. WiFi master controller + Remote + Touch panel + DMX driver + Lamp

Wireless control：

1. Touch panel + Wireless driver + Lamp

2. Remote + Touch panel + Wireless driver + Lamp

3. WiFi master controller + Touch panel + Wireless driver + Lamp

4. WiFi master controller + Remote + Touch panel + Wireless driver + Lamp

DMX Wiring

Remote

Touch panel

DMX

DMX decoder
LT-858-5A
DMX Address=1
CV power supply
12-24Vdc
Strip

DMX decoder
LT-858-5A
DMX Address=1
CV power supply
12-24Vdc
Strip

DMX decoder
LT-858-5A
DMX Address=1
CV power supply
12-24Vdc
Strip

DMX decoder
LT-858-5A
DMX Address=1
CV power supply
12-24Vdc
Strip

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RF Wireless Wiring

Touch panel
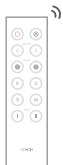
Remote

Multiple wireless receivers
(F4-DMX-5A/F5-DMX-4A/F4-3A/F4-5A)
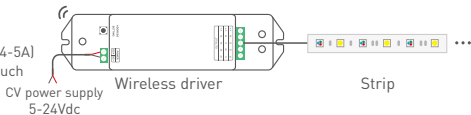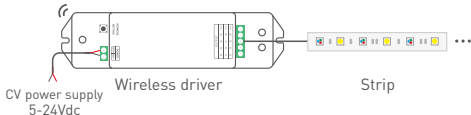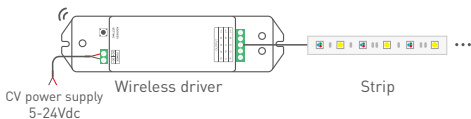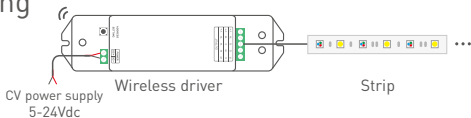can be matched with EX series touch
panel within effective distance.

CV power supply
5-24Vdc

Wireless driver

Strip

✳ To avoid the signal interference, please do not install wireless LED drivers near to a large area of metal
objects or install on the metal space.

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Multi-panel Control Wiring

∗ After touch panel A realizes controlling the lamps, if B and C are matched with A, they can also
  control the lamps.

∗ Linkage control is also available when the touch panels are connected to DMX decoders.

A

CV power supply   5-24Vdc   Strip

CV power supply   5-24Vdc   Strip
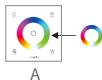
B

C

• • •
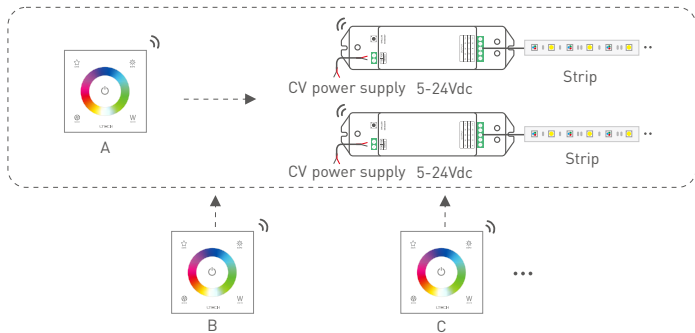
Match Code between Touch Panels

1. Assuming that B matches
   with A, long press ⏻ on B
   until all indicator lights
   flicker.

B

2. Touch the slider on A
   within 15s, when
   indicator lights of B
   stop flicking, match
   successfully.

A

Match Code between Touch Panel & Remote

1. When the indicator light of the panel is white, Long press ⏻ on touch panel until all indicator lights flicker.

EX1S   EX2   EX4S

2. Match with F series remote:

Long press On/Off key on F series remote, the indicator light of touch panel stop flicking, match successfully.

EX1S works with remote F1.
EX2 works with remote F2.
EX4S works with remote F4.

F1   F2   F4
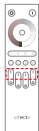
3. Match with Q series remote:

Long press the matching zone's "On" key on Q series remote, the indicator light of touch panel stop flicking, match successfully.

EX1S works with remote Q1.
EX2 works with remote Q2.
EX4S works with remote Q4.

Q1   Q2   Q4

✳ Please match/clear code when ⏻ indicator light of panel is white.

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Match Code between Touch Panel & Wireless Driver

Touch panels can work with wireless driver F4-3A/F4-5A/F4-DMX-5A/F5-DMX-4A.

Method 1:

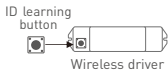|			
1. Power off the driver.	2. Long press On/Off key of the panel until all indicator light flicking.	3. Power on the driver, the lamps flicker slowly, please complete step 4 within 15s.	4. Short press any key or color circle / slider on the panel, match successfully.
Wireless driver		Wireless driver	

Method 2:

|		
1. Short press "ID learning button" on wireless driver, the lamps flicker, please complete next step within 15s. ID learning button Wireless driver	2. Long press On/Off key on panel until all indicator light flicker.	3. Short press any key or color circle / slider on the panel, match successfully.

✳ Please match/clear code when ⏻ indicator light of panel is white.

Match Code between Touch Panel & Gateway

1. Long press ⏻ on touch panel until indicator lights flicker.

2. Turn on APP, enter "zone set" interface, click the right top "MATCH" key, then follow the prompts.
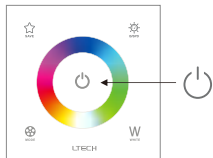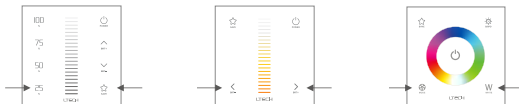

L-BUS APP

Clear Code

Press the bottom two key on touch panel simultaneously for 6s, the indicator lights flicker several times, clear code successfully.

✳ Please match/clear code when ⏻ indicator light of panel is white.

Attentions

- Products shall be installed by qualified professionals.
- LTECH products are non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure it is mounted in a water proof enclosure.
- Good heat dissipation will extend the working life of products. Please ensure good ventilation.
- Please check if the working voltage used complies with the parameter requirements of products.
- Before you power on products, please make sure all the wiring is correct in case of incorrect connection that causes damage to light fixtures.
- If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.

Warranty Agreement

- Warranty periods from the date of delivery: 5 years.
- Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

- Beyond warranty periods.
- Any artificial damage caused by high voltage, overload, or improper operations.
- Products with severe physical damage.
- Damage caused by natural disasters and force majeure.
- Warranty labels and barcodes have been damaged.
- No any contract signed by LTECH.

1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.
2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.