Manuals+ — User Manuals Simplified.

LTECH EX Series Touch Panel User Manual

EX Series Touch Panel

| EX1 | EX1S | EX2 | EX3 | EX3S | EX4 | EX4S | Q series remote | F series remote | APP |
| (Dimming) | (Dimming) | (CT) | (RGB) | (RGB) | (RGBW) | (RGBW) | | | |

Manual
www.ltech-led.com

Contents

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

Remote

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

3G/4G WiFi — Cloud service

Internet

Scene panel / Human sensor (programmable)

APP — WiFi — Router — WiFi — Smart gateway — RF

L-BUS

Amazon ECHO — RF relay

- - - Wireless connection
——— Wired connection

Product features

- Adopt wireless RF and wired DMX512 protocol 2 in 1 control mode, more flexible and convenient for project installation.
- Advanced RF wireless sync/zone control technology, make sure dynamic color modes synchronously among multiple drivers.
- Install touch panel at different areas, can control the same LED light, achieve multi-panel control, no quantity limited.
- Touch keys with chord and LED indicator.
- Adopts capacitive touch control technology makes LED dimming selection more user-friendly.
- Compatible with remote and APP control.

Technical specs

Model	EX1	EX1S	EX2	EX3	EX3S	EX4	EX4S
Control type	100-240Vac		CT	RGB		RGBW	
Input voltage	RF 2.4GHz, DMX512						
Output signal	Dimming						
Working temp.	-20°C~55°C						
Dimensions	L86×W86×H36(mm)						
Package size	L113×W112×H50(mm)						
Weight(G.W.)	225g						

L-BUS

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

FC   CE   RoHS   warranty 5 years   ISO9001:2008 SGS UKAS QUALITY MANAGEMENT 005

RCM certification No.: RCMP17114 001

Installation instruction

EX series touch panel

Uninstall

Touch panel

Baseplate

Base

Typical base as below:

European style

86 size
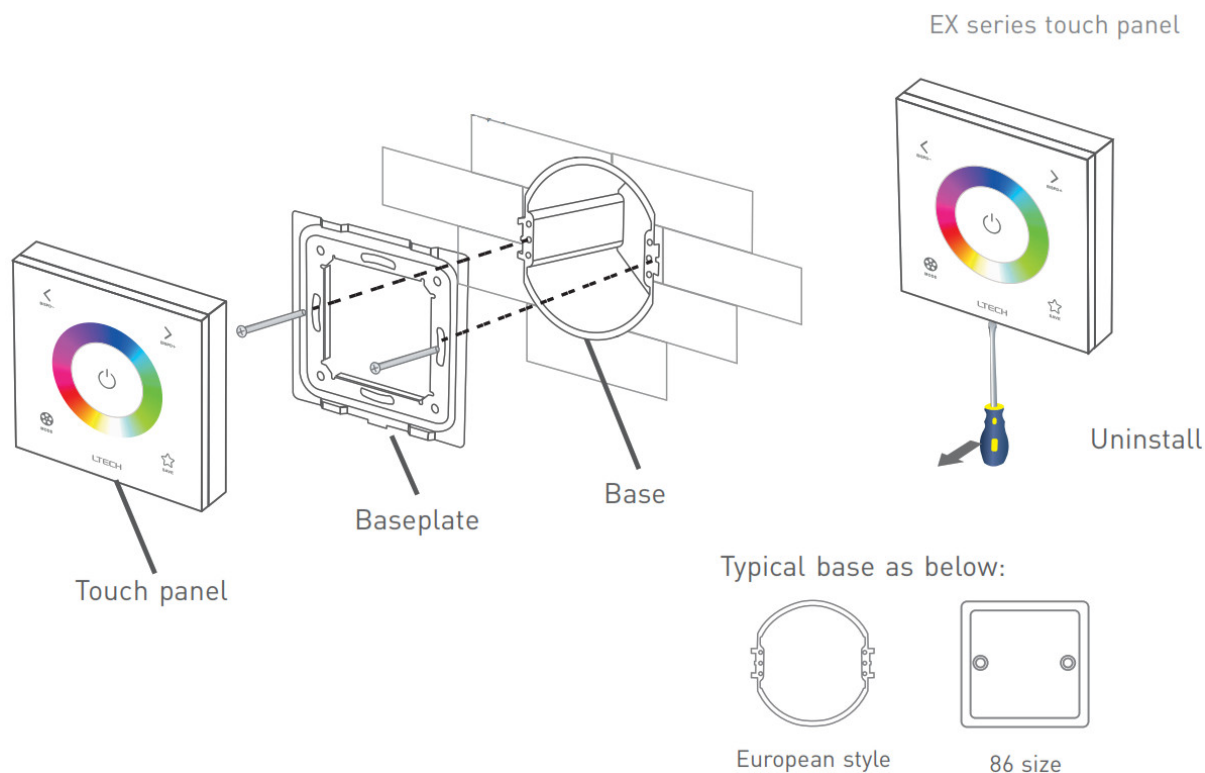
Product size

Unit: mm

Terminals

100-240Vac power input

DMX signal output
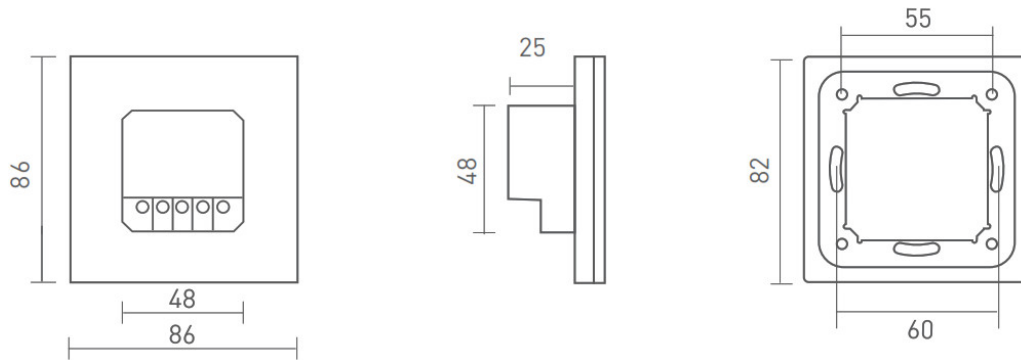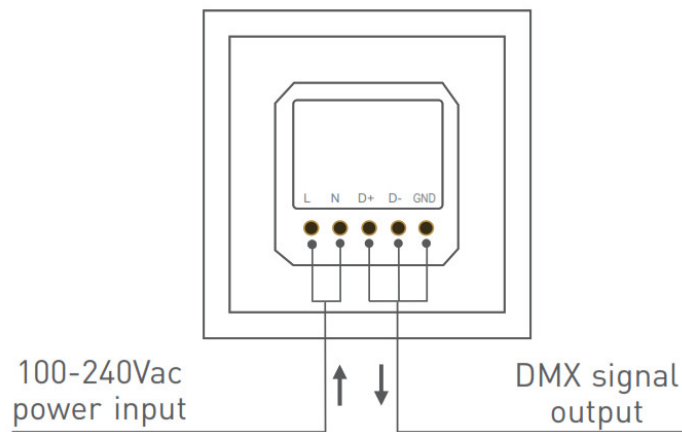
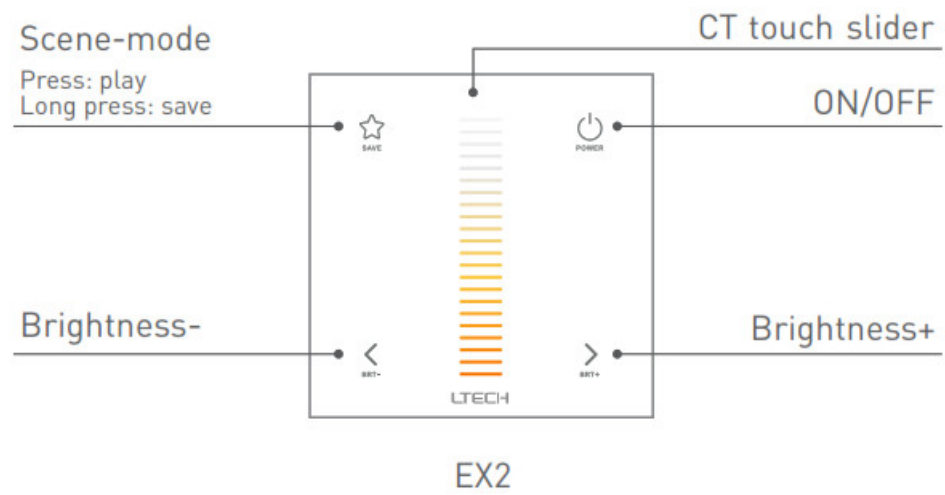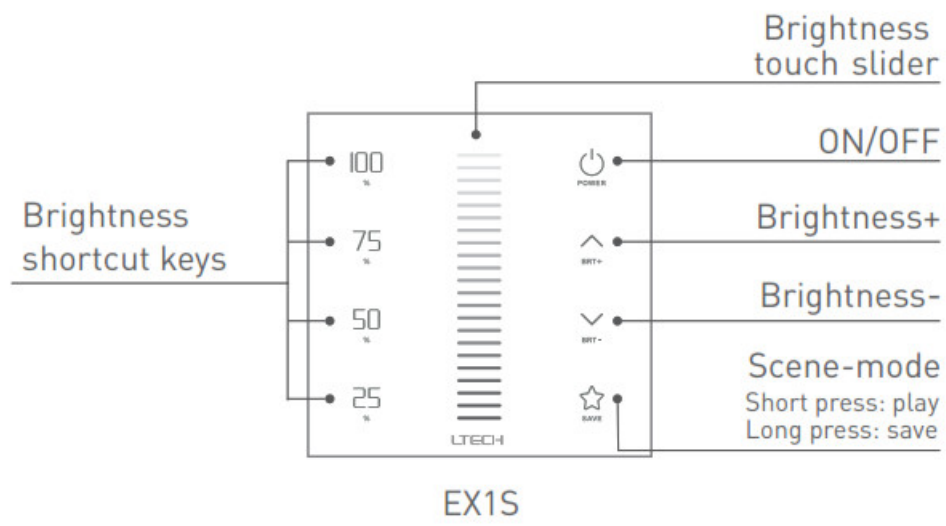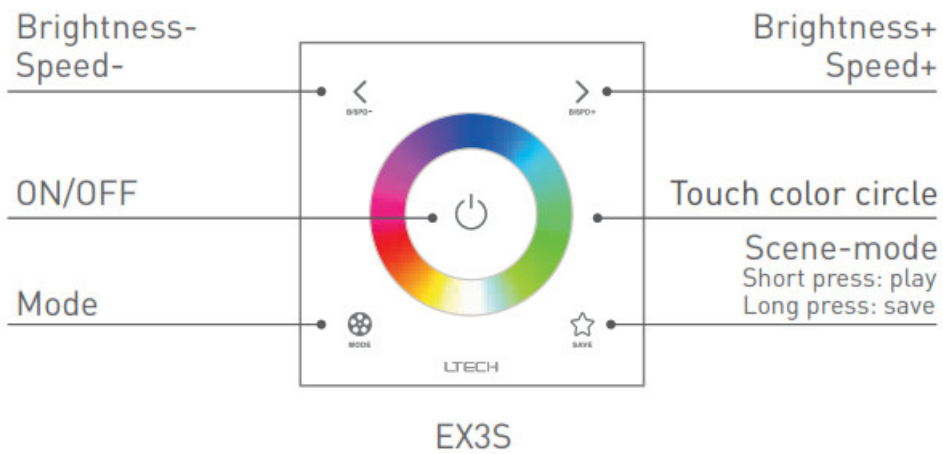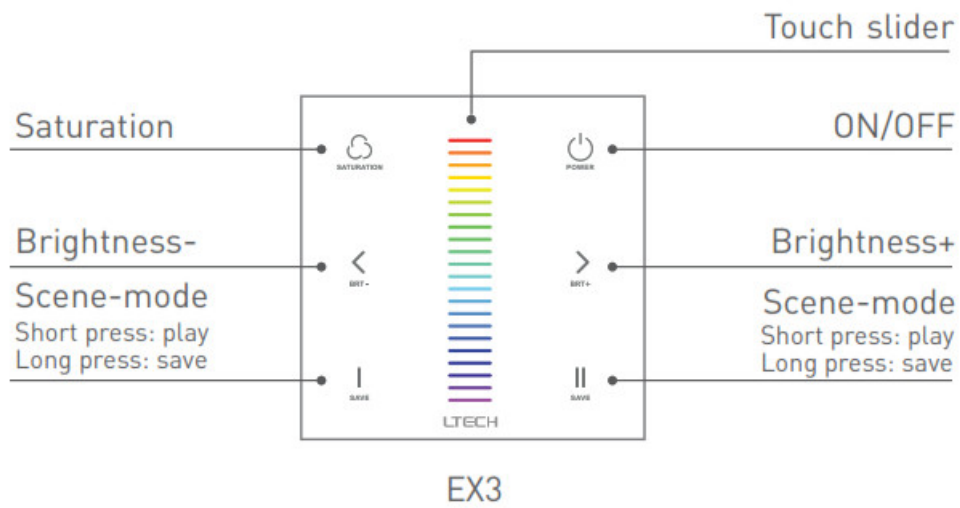## Key functions

- 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.
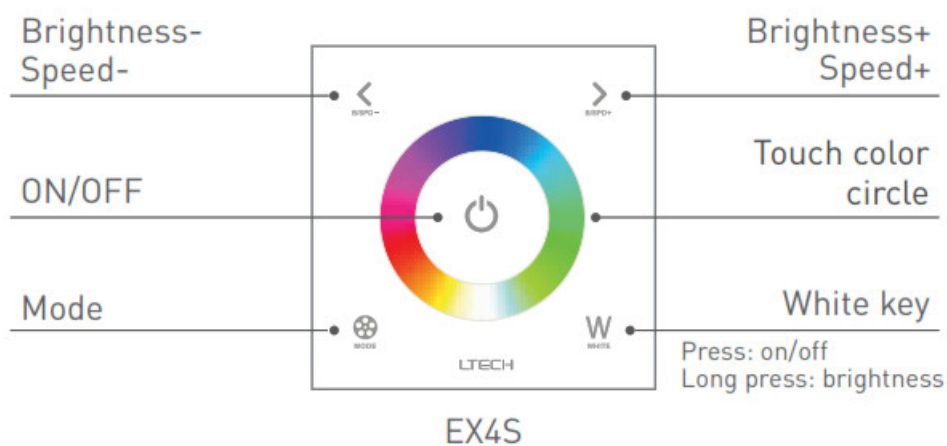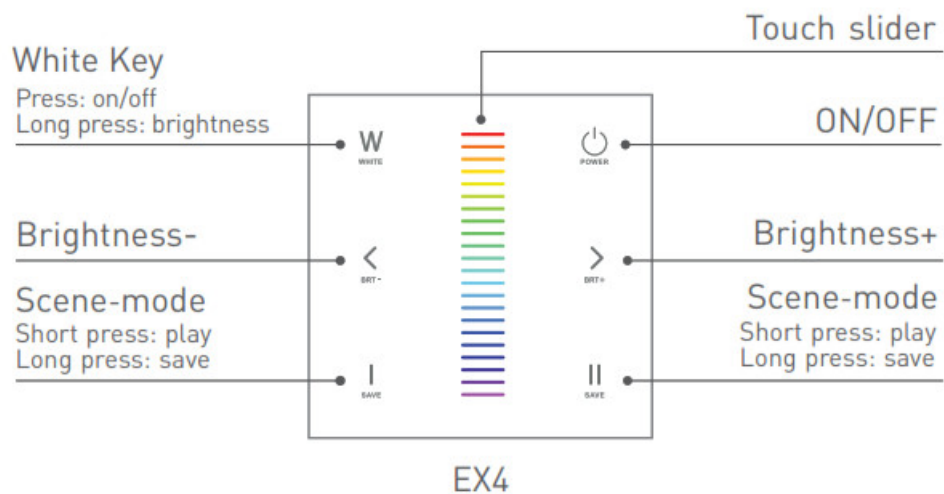

Brightness touch slider

Scene-mode
Short press: play
Long press: save

ON/OFF

Brightness-

Brightness+

EX1

Brightness
touch slider

Brightness
shortcut keys

100
%

75
%

50
%

25
%

LTECH

ON/OFF

POWER

Brightness+

BRT+

Brightness-

BRT-

Scene-mode
Short press: play
Long press: save

SAVE

EX1S

Scene-mode
Press: play
Long press: save

SAVE

CT touch slider

ON/OFF

POWER

Brightness-

BRT-

LTECH

Brightness+

BRT+

EX2

EX3

EX3S

Mode

1. Static Red	7. Static White
2. Static Green	8. RGB Jumping
3. Static Blue	9. 7 Colors Jumping
4. Static Yellow	10. RGB Color Smooth
5. Static Purple	11. Full-color Smooth
6. Static Cyan	

White Key
Press: on/off
Long press: brightness

Touch slider

ON/OFF

Brightness-

W
WHITE

Brightness+

Scene-mode
Short press: play
Long press: save

<
BRT-

>
BRT+

Scene-mode
Short press: play
Long press: save

I
SAVE

II
SAVE

EX4

Brightness-
Speed-

<
BSPD-

>
BSPD+

Brightness+
Speed+

ON/OFF

Touch color
circle

Mode

⊛
MODE

W
WHITE

White key
Press: on/off
Long press: brightness

LTECH

EX4S

Mode

1. Static Red	7. Static White
2. Static Green	8. RGB Jumping
3. Static Blue	9. 7 Colors Jumping
4. Static Yellow	10. RGB Color Smooth
5. Static Purple	11. Full-color Smooth
6. Static Cyan	12. Static Black (only close RGB)

White light only: press key to choose black mode, then press ⊛ key for white light.

Match code sequence

DMX system wiring
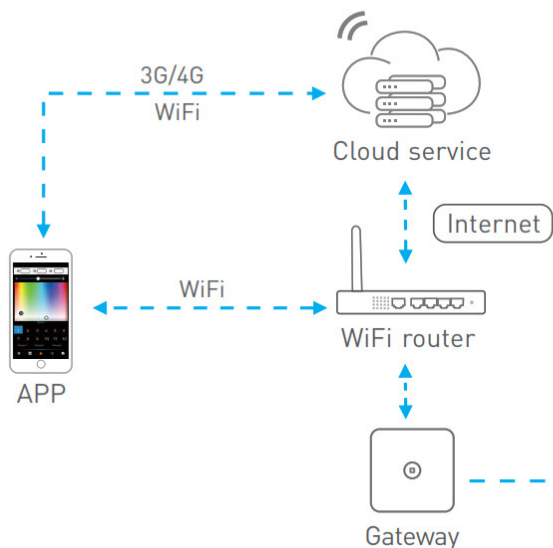
Match Code Sequence

1. Configure gateway with panel, which enables the smart phone to control DMX devices via gateway.
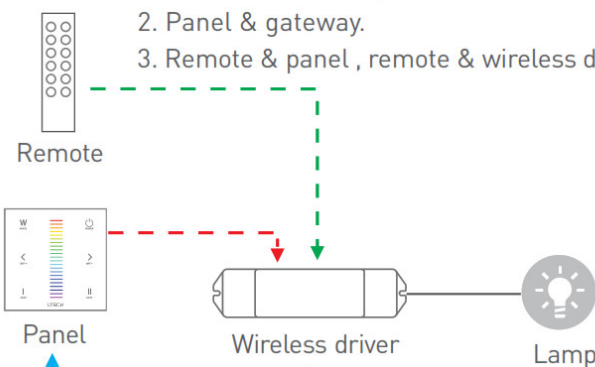2. Configure remote with panel, which enables remote to control DMX devices.

3G/4G
WiFi
Cloud service
Internet
WiFi router
WiFi
APP
Gateway
Remote
Panel
DMX decoder
Lamp
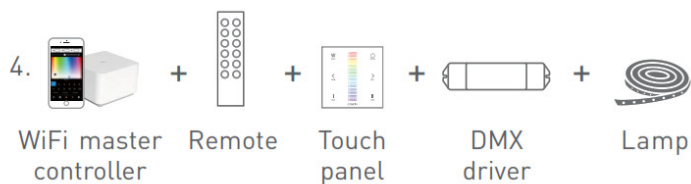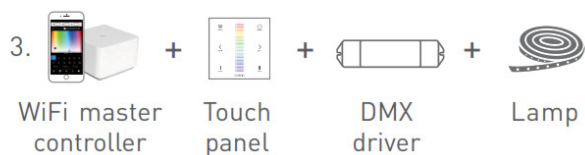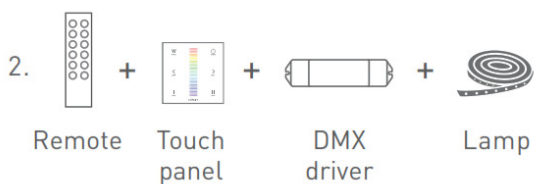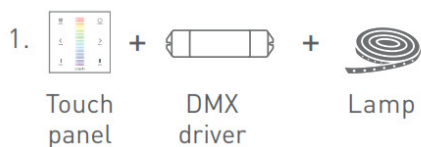DMX lamp
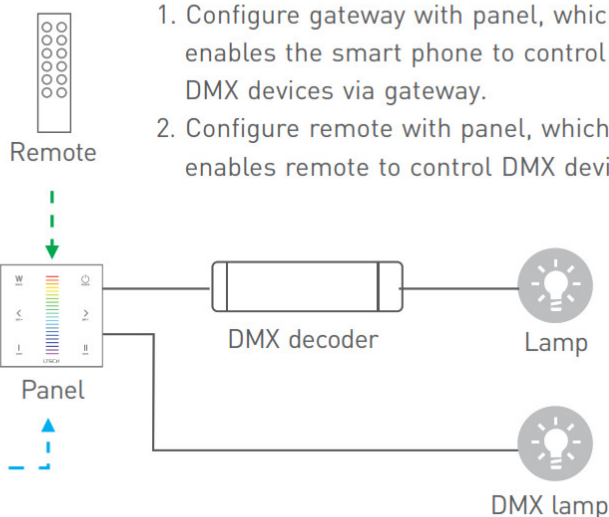
Wireless system wiring
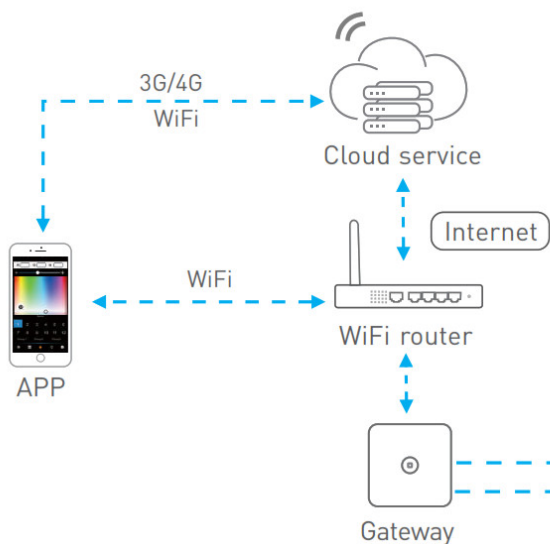
Match Code Sequence

1. Wireless driver & gateway.
2. Panel & gateway.
3. Remote & panel , remote & wireless driver.
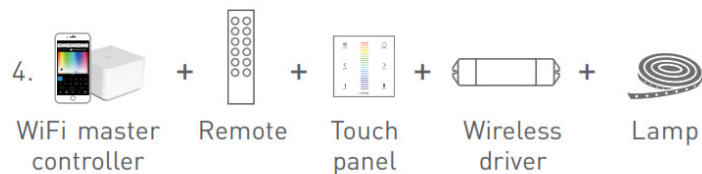
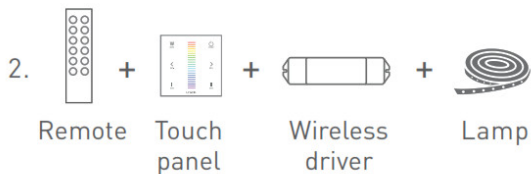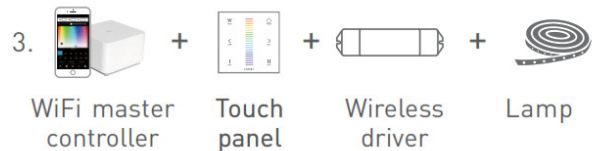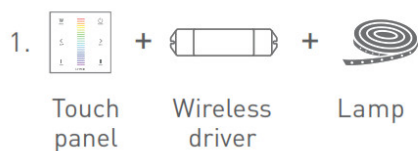3G/4G
WiFi
Cloud service
Internet
WiFi router
WiFi
APP
Gateway
Remote
Panel
Wireless driver
Lamp

Application composition

DMX512 control

1.
Touch panel + DMX driver + Lamp

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

2.
Remote + 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

RF wireless wiring

Touch panel

Remote

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

CV power supply 5-24Vdc

Wireless driver

Strip
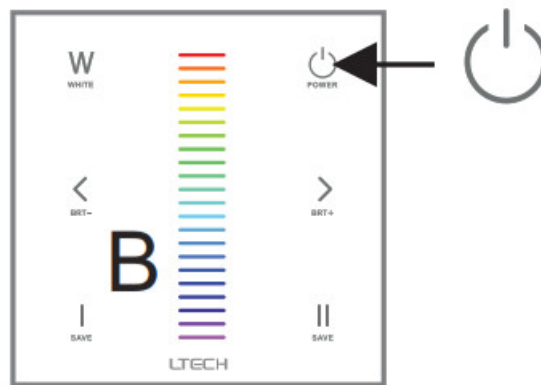
Multi-panel control wiring

(A)

(B)   (C)

CV power supply   5-24Vdc

Strip
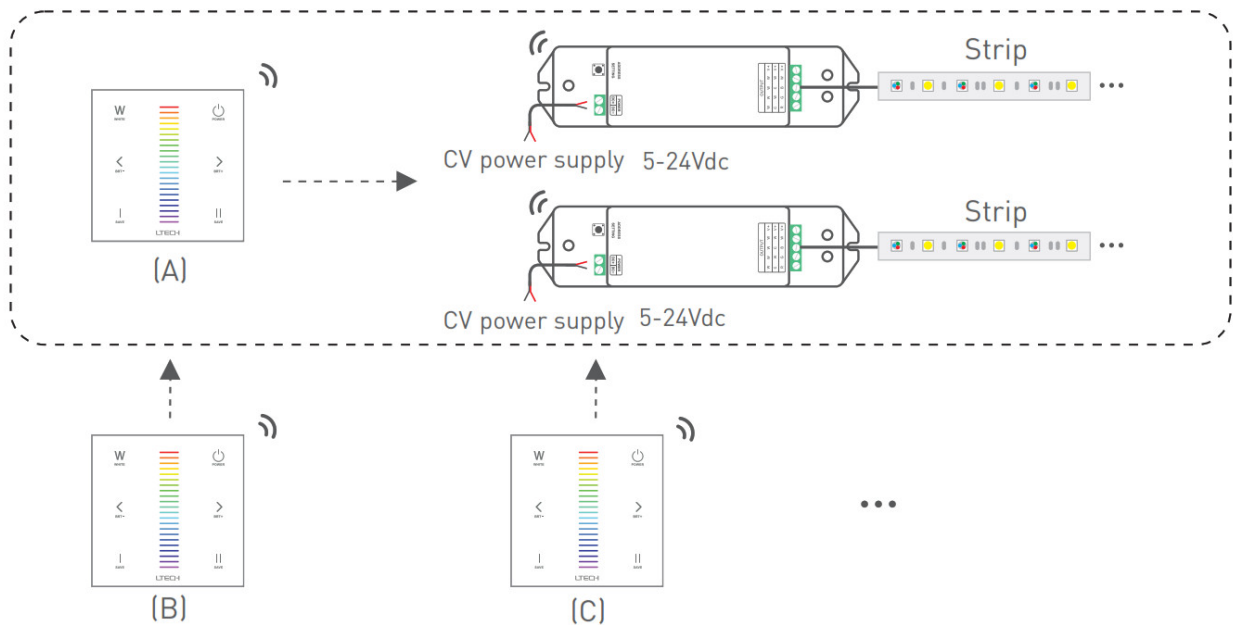
- After touch panel A realizes controlling the lamps, if B and C are matched with A, they can also control the lamps.
- Linkage control is also available at connecting with DMX decoders.

Match code between touch panels

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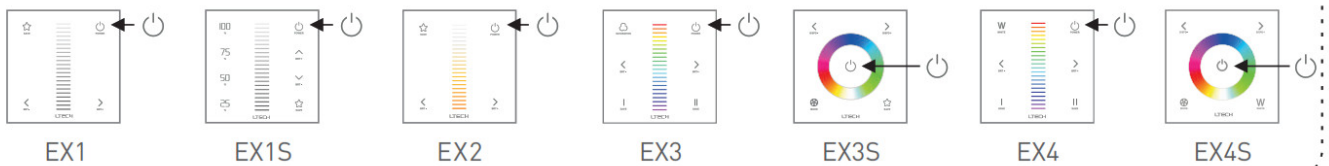

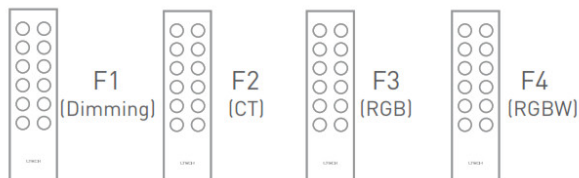2. Touch the slider on A within 15s, when indicator lights of B stop flicking, match successfully.
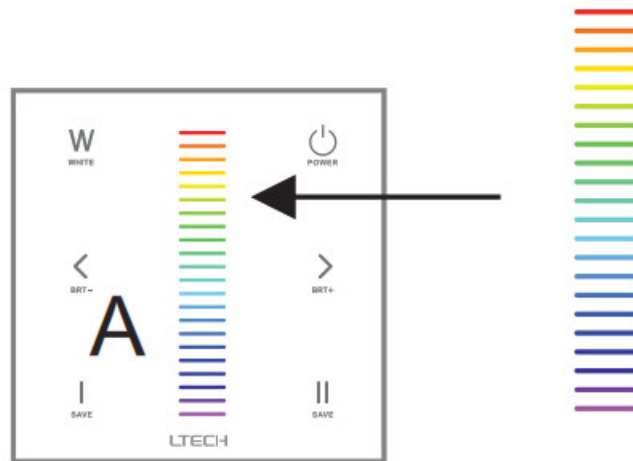
Match code between touch panel & remote

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

| EX1 | EX1S | EX2 | EX3 | EX3S | EX4 | 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.

F1 (Dimming) F2 (CT) F3 (RGB) F4 (RGBW)

EX1/EX1S works with remote F1. EX3/EX3S works with remote F3.
EX2 works with remote F2. EX4/EX4S works with remote F4.

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.

Q1 Q2 Q4
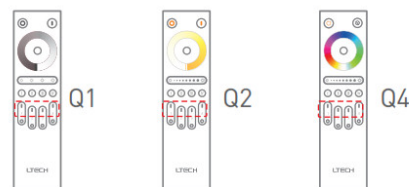
EX1/EX1S works with remote Q1. EX2 works with remote Q2.

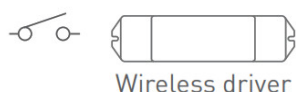EX3/EX3S/EX4/EX4S works with remote Q4.

- Please match/clear code when indicator light of panel is white.
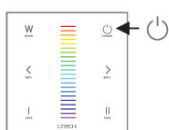
Match code between touch panel & wireless driver

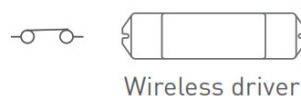Touch panels can work with wireless driver F4-3A/F4-5A/F4-DMX-5A/F5-DMX-4A.
Method 1:

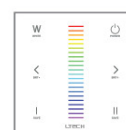1. Power off the driver.

Wireless driver

2. Long press On/Off key of the panel until all indicator light flicking.

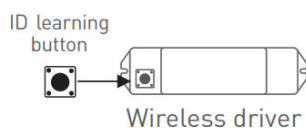3. Power on the driver, the lamps flicker slowly, please complete step 4 within 15s.

Wireless driver

4. Short press any key or color circle / slider on the panel, match successfully.

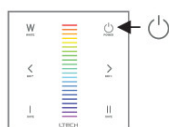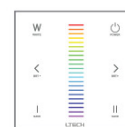**Method 2:**

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.
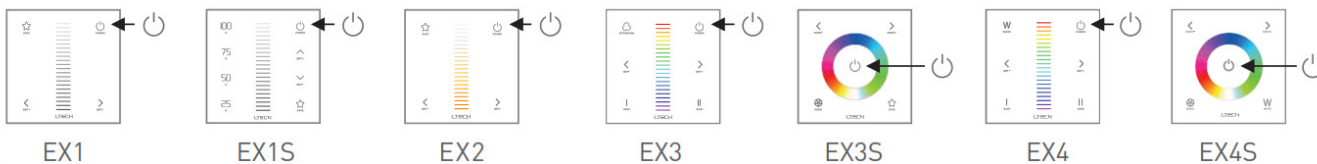
3. Short press any key or color circle / slider on the panel, match successfully.

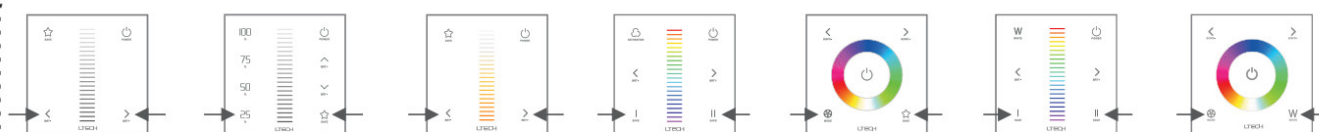## Match code between touch panel & gateway

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

EX1   EX1S   EX2   EX3   EX3S   EX4   EX4S

2. Turn on APP, enter "zone set" interface, click the right top "MATCH" key, then operate following the prompt.

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.

- 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.

www.ltech-led.com

Documents / Resources

	LTECH EX Series Touch Panel [pdf] User Manual LTECH, EX Series, Touch Panel, EX1, EX1S, EX2, EX2S

References

- 🌐 **LED Controller | LED Dimmable Driver | LED Intelligent Lighting | Intelligent Home -LTECH**