

EX Series Touch Panel



Manual
www.ltech-led.com

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 control technology, be able to realize dimming, synchronous dynamic changing color effect between receivers.
- 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.
- Touch panel can be controlled by remote directly or smart phone if add a gateway.

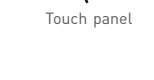
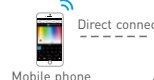
Technical specs

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

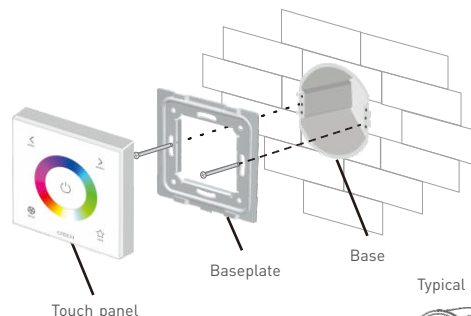
LT-BUS®



Touch panel
EX1, EX1S, EX2, EX3,
EX3S, EX4, EX4S



Installation instruction



Touch panel

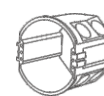
Baseplate

Base

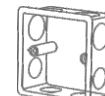


Uninstall

Typical base as below:



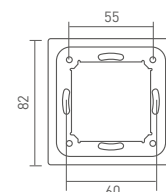
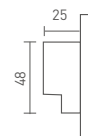
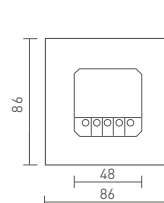
European style

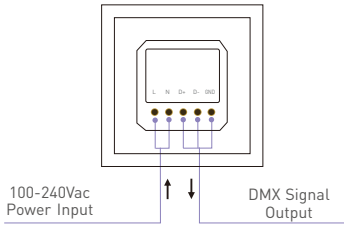


86 size

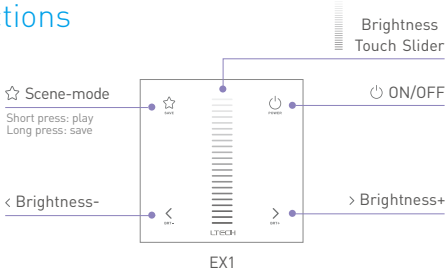
Product size

Unit: mm

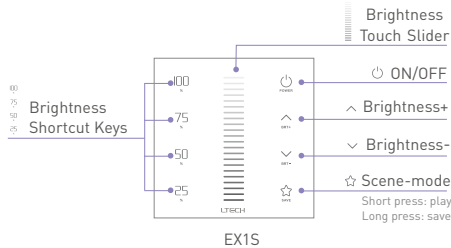




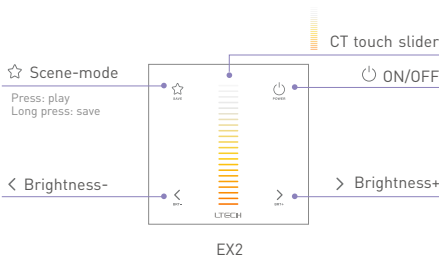
Key functions



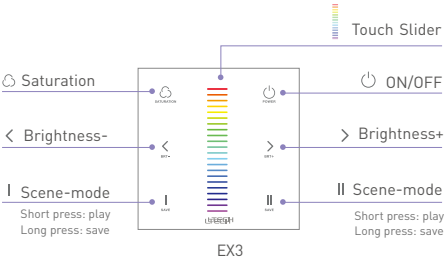
* When blue status light of ON/OFF key is on, long press ON/OFF to turn on/off buzzer.
When white status light of ON/OFF key is on, long press ON/OFF to match code.



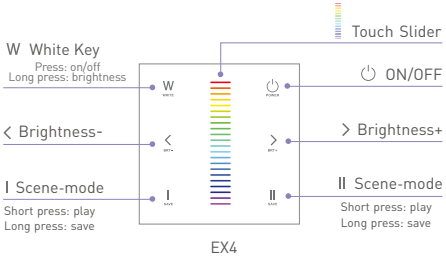
* When ON/OFF status light is on, long press ON/OFF to turn on/off buzzer.
When ON/OFF status light is off, long press ON/OFF to match code.



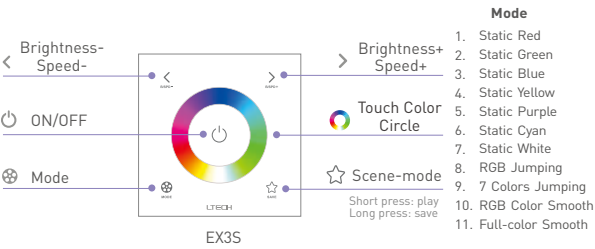
* When blue status light of ON/OFF key is on, long press ON/OFF to turn on/off buzzer.
When white status light of ON/OFF key is on, long press ON/OFF to match code.



* EX3 panel's 2 scene-mode keys are corresponding with WiFi-106 gateway APP's 1 & 2 scene-mode key, the scenes can be changed by APP or panel.

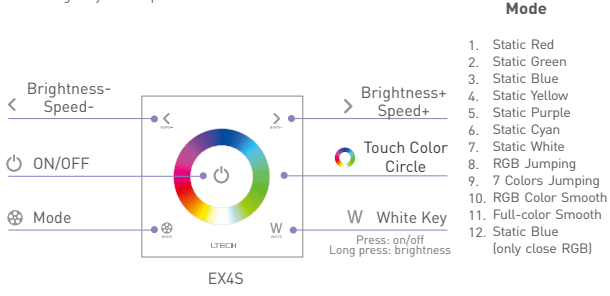


* EX4 panel's 2 scene-mode keys are corresponding with WiFi-106 gateway APP's 1 & 2 scene-mode key, the scenes can be changed by APP or panel.



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

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

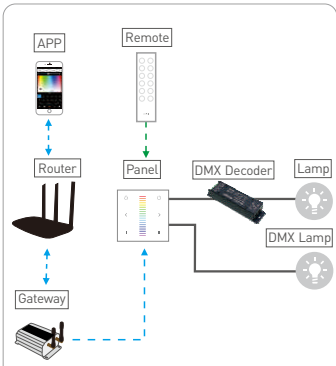


* When blue status light of ON/OFF key is on, long press ON/OFF to turn on/off buzzer.
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- Mode
1. Static Red
 2. Static Green
 3. Static Blue
 4. Static Yellow
 5. Static Purple
 6. Static Cyan
 7. Static White
 8. RGB Jumping
 9. 7 Colors Jumping
 10. RGB Color Smooth
 11. Full-color Smooth
 12. Static Blue (only close RGB)

* RGB off and only white light is on: press Mode key to select static black mode, then press W key to turn on the white light.

DMX System Wiring

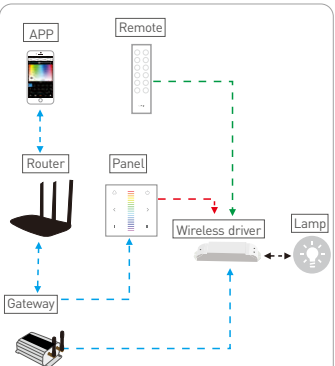


* PS: No router needed when gateway work with phones directly.

Match Code Sequence

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

Wireless System Wiring



* PS: No router needed when gateway work with phones directly.

Match Code Sequence

1. Wireless driver & gateway.
2. Panel & gateway.
3. Remote & panel, remote & wireless driver.

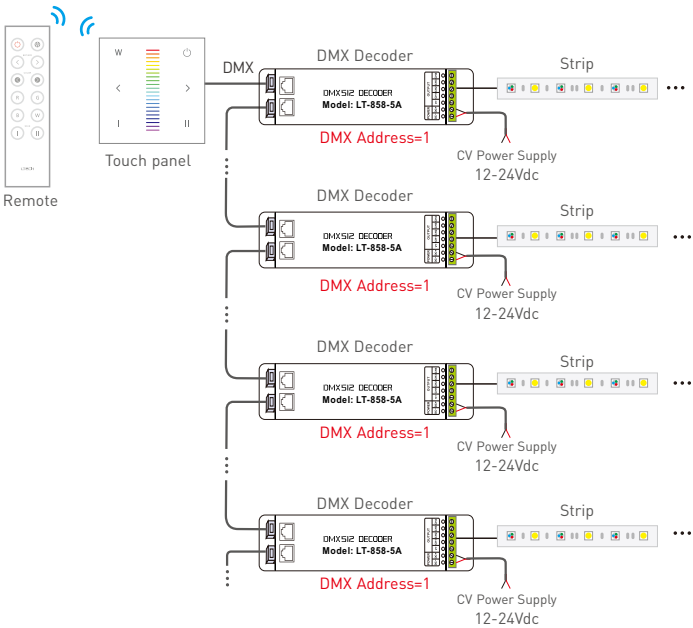
DMX512 control

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

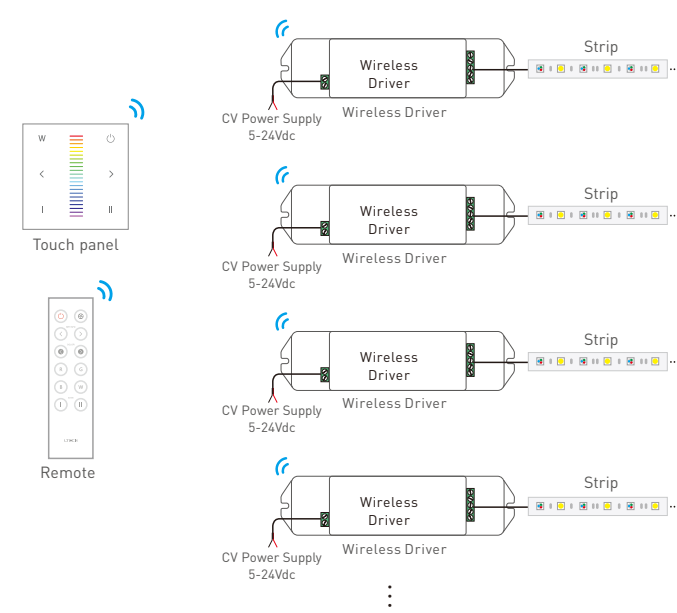
Wireless control

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

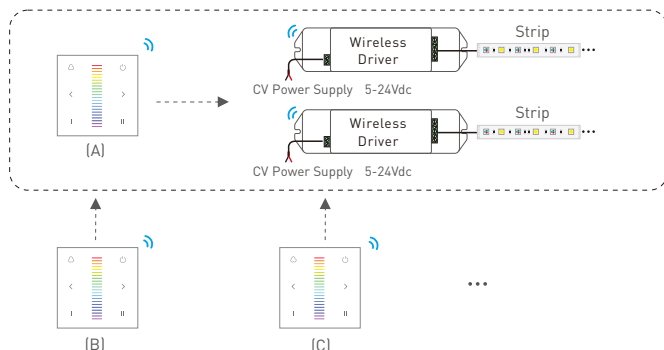
DMX Wiring



RF Wireless Wiring



Multiple wireless receivers [F4-3A/F4-5A/F4-CC] can be matched up with EX series touch panel within effective distance.

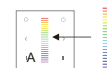


- * After touch panel A realizes controlling the lamps, if B and C are matched up with A, they can also control the lamps.
- * Connecting touch panel with DMX decoders can also realize multi-control function.

1. Assuming that B match up with A, long press on B until all indicator light flicker.



2. Touch the slider on A in 5s, if indicator light of B stop flicking, match successfully.



Match Code between Touch Panel & Remote

EX1/EX1S works with remote F1.

EX3/EX3S works with remote F3.

EX2 works with remote F2.

EX4/EX4S works with remote F4.

- Long press on touch panel until all indicator light flicker.



2. Press any key on remote, indicator light of touch panel stop flicking, match successfully.



- * Please match/clear code when status light of panel is white (for EX1S is off).

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Match code between touch panel & gateway

EX1/EX1S touch panel match up with gateway.

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



2. Click the corresponding DIM zone on mobile phone, then touch the color screen, match successfully.

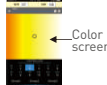


EX2 touch panel match up with gateway.

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



2. Click the corresponding CT zone on mobile phone, then touch the color screen, match successfully.



EX3/EX3S touch panel match up with gateway.

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



2. Click the corresponding RGB zone on mobile phone, then touch the color screen, match successfully.

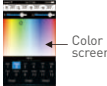


EX4/EX4S touch panel match up with gateway.

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



2. Click the corresponding RGBW zone on mobile phone, then touch the color screen, match successfully.



- * Please match/clear code when status light of panel is white (for EX1S is off).

Match code between Touch Panel & wireless driver

Touch panels can work with wireless driver F4-3A/F4-5A/F4-CC.

Method 1:

1. Power on and power off receiver for 3 times, the lamps flicker, please complete step 2 within 10s.



2. Touch any key on touch panel, the lamps stop flicking, match successfully.



Method 2:

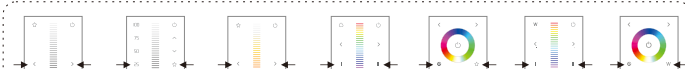
1. Short press "ID learning button" on receiver. the lamps flicker, please complete step 2 within 10s.



2. Touch any key on touch panel, the lamps stop flicking, match successfully.



Clear code:



Press the bottom two key on touch panel simultaneously for 5s, the indicator light flicker several times, clear code successfully.

- * Please match/clear code when status light of panel is white (for EX1S is off).

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