LTECH

E Series Touch Panel

E1 (Dimming)	E1S (Dimming)	E2 (CT)	E3 (RGB)	E3S (RGB)	E4 (RGBW)	E4S (RGBW)	Q series remote	F series remote	APP

Manual
www.ltech-led.com

L-BUS

LTECH

Wireless remote

E series touch panel

Direct connect

Mobile phone

Cloud service

Router

WiFi gateway

RF relay

RF — Wireless driver

RF — Wireless driver

DMX512 — DMX driver

12-24Vdc

RF to DMX — DMX512 — DMX LED driver

RF to 0-10V — 0-10V — 0-10V LED driver

RF to phase-cut — Phase-cut — Triac LED driver

- - - Wireless connection
——— Wired connection
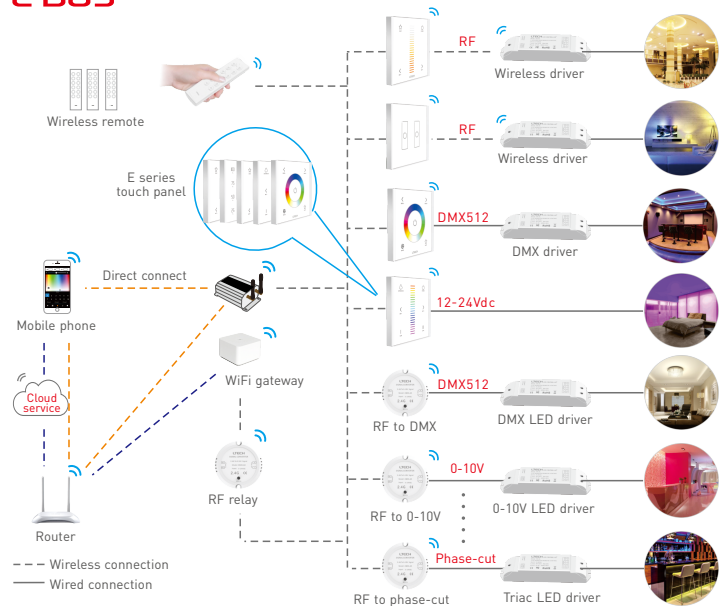
Note: WiFi-106 is directly connected to the mobile phone or controlled by local LAN.
WiFi-108 can be controlled by remote or local LAN, and supports amazon ECHO, Alibaba TmallGenie AI voice speaker.
E series panel does not support advanced mode functions when working with WiFi-108.

1

Product Features

- 2 in 1 function: RF wireless control and PWM power output.
- Power output, lamps can be connected directly, easy and convenient.
- Touch keys with chord and LED indicator.
- Adopts capacitive touch control technology on the full color circle 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	E1	E1S	E2	E3	E3S	E4	E4S
Control Type	Dimming		CT	RGB		RGBW	
Input Voltage	12-24Vdc						
Wireless Frequency	RF 2.4GHz						
Current Load	4A×2CH Max. 8A		Max. 4A	4A×3CH Max. 12A		3A×4CH Max. 12A	
Output Power	(0~48W...96W)×2CH Max. 192W		0~48...96W	(0~48W...96W)×3CH Max. 288W		(0~36W...72W)×4CH Max. 288W	
Protection	Short circuit / Over current protection, auto recovers. Reverse connection protection.					Reverse connection protection.	
Working Temp.	-20℃~55℃						
Dimensions	L86×W86×H36(mm)						
Package Size	L113×W112×H50(mm)						
Weight(G.W.)	225g						

FC CE RoHS (warranty 5 years) ISO9001:2008

Installation Instruction

Base

Baseplate
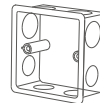
Touch panel
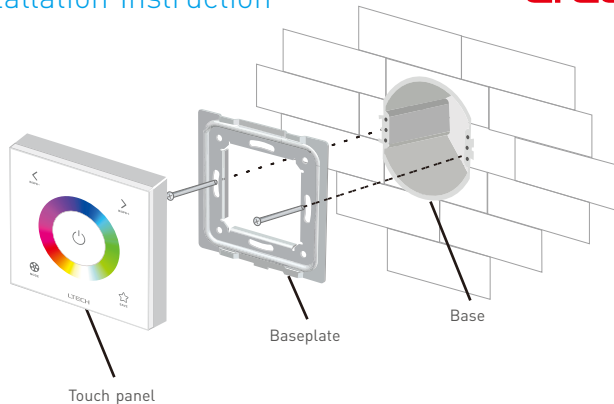
Typical base as below:
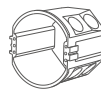
European style

86 size
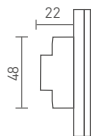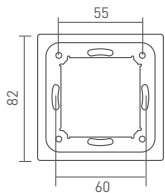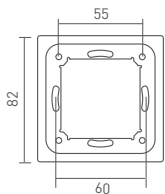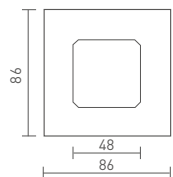
Uninstall

Product Size
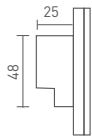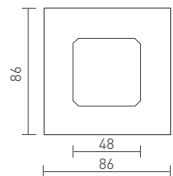
E1/E1S/E2/E3/E3S

E4/E4S

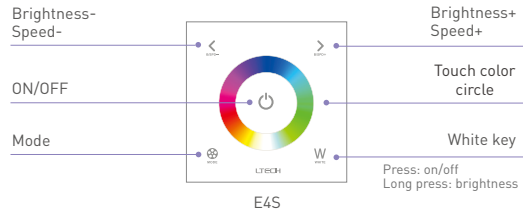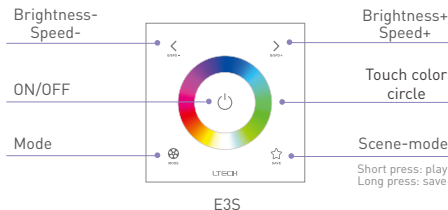## Key Functions

✻ 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.

✻ E series touch panel's scene-mode keys are corresponding with WiFi gateway APP's scene-mode, the scenes of panel can be changed by APP or panel.

Brightness touch slider

Scene-mode
Short press: play
Long press: save

ON/OFF

Brightness-

Brightness+

E1

CT touch slider

Scene-mode
Short press: play
Long press: save

ON/OFF

Brightness-

Brightness+

E2

Brightness touch slider

ON/OFF

Brightness shortcut keys

Brightness+

Brightness-

Scene-mode
Short press: play
Long press: save

E1S

Touch slider

Saturation

Brightness-

Scene-mode
Short press: play
Long press: save

ON/OFF

Brightness+

Scene-mode
Short press: play
Long press: save

E3

Brightness-
Speed-

ON/OFF

Mode

Brightness+
Speed+

Touch color circle

Scene-mode
Short press: play
Long press: save

E3S

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

Touch slider

White key
Press: on/off
Long press: brightness

Brightness-

Scene-mode
Short press: save

ON/OFF

Brightness+

Scene-mode
Short press: play
Long press: save

E4

Brightness-
Speed-

ON/OFF

Mode

Brightness+
Speed+

Touch color circle
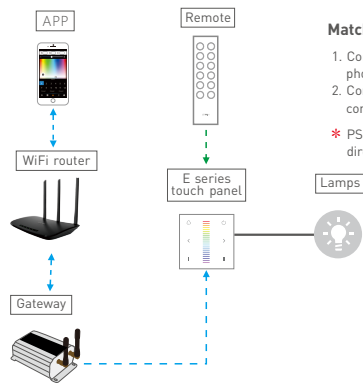
White key
Press: on/off
Long press: brightness

E4S

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)

Match Code Sequence

APP

Remote

WiFi router

Gateway

E series touch panel

Lamps

Match Code Sequence

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

✱ PS: No WiFi router needed when gateway work with phones directly.
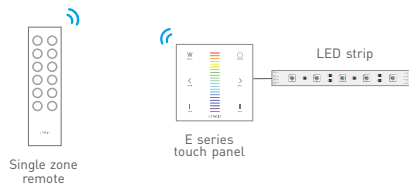
Application Composition

1. E series touch panel + Lamps

2. E series touch panel + Remote + Lamps

3. E series touch panel + WiFi master controller + Lamps

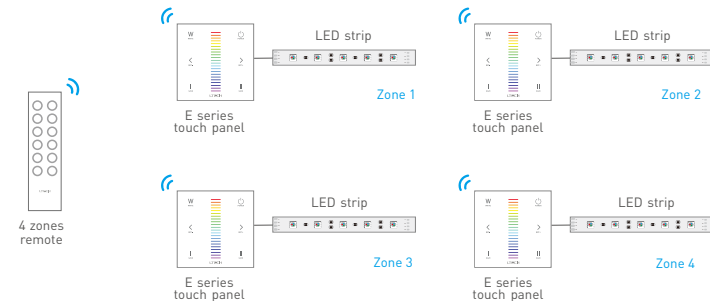4. E series touch panel + WiFi master controller + Remote + Lamps
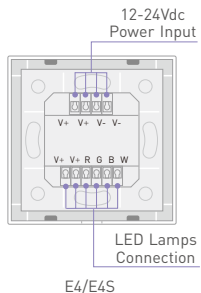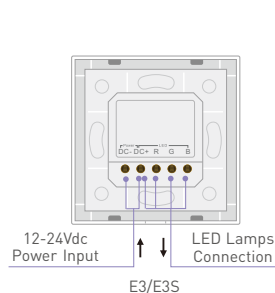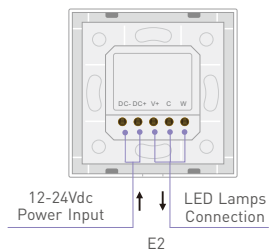
RF Wireless Wiring

Single Zone Control

Single zone remote

E series touch panel

LED strip

Multiple Zones Control

4 zones remote

E series touch panel — LED strip — Zone 1

E series touch panel — LED strip — Zone 2
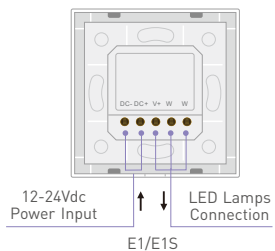
E series touch panel — LED strip — Zone 3

E series touch panel — LED strip — Zone 4

✱ Touch panels can be sync controlled by multi remotes, please refer to the manual of remote's usage.

Terminals

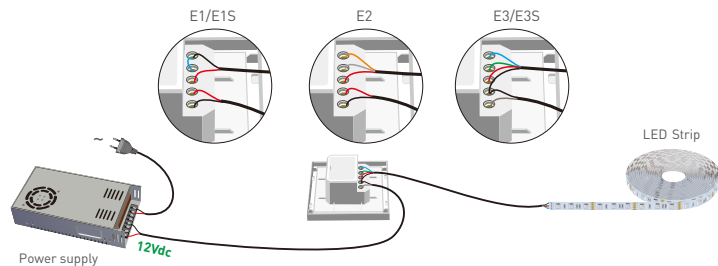12-24Vdc Power Input | LED Lamps Connection

E1/E1S

12-24Vdc Power Input | LED Lamps Connection

E2

12-24Vdc Power Input | LED Lamps Connection

E3/E3S

12-24Vdc Power Input

LED Lamps Connection

E4/E4S

Wiring Diagram

E.g 1: Connect with 12V strip. Max 48W/CH(12V)

E1/E1S   E2   E3/E3S

LED Strip

Power supply   **12Vdc**

E.g 2: Connect with 24V strip. Max 96W/CH(24V)
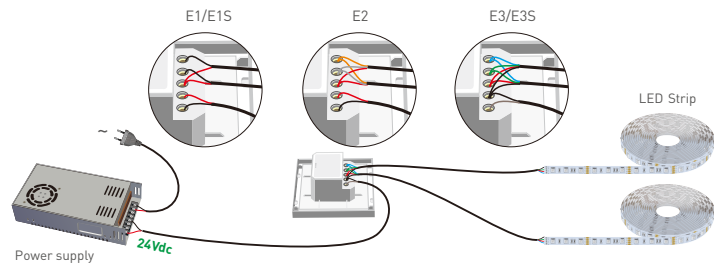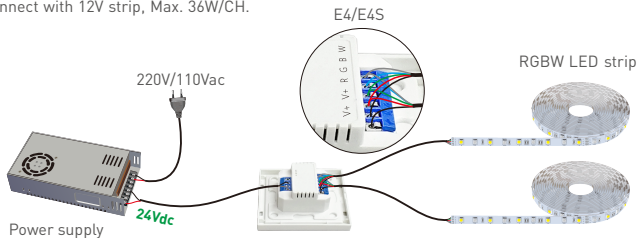
E1/E1S   E2   E3/E3S

LED Strip

Power supply   **24Vdc**

LTECH

Connect with 12V strip, Max. 36W/CH.

E4/E4S

220V/110Vac

RGBW LED strip

Power supply

24Vdc

Connect with 24V strip, Max. 72W/CH.   E4/E4S

220V/110Vac

RGBW LED strip

Power supply

24Vdc

✱ Please match/clear code when panel indicator light of On/Off is white.

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

E1   E1S   E2   E3   E3S   E4   E4S
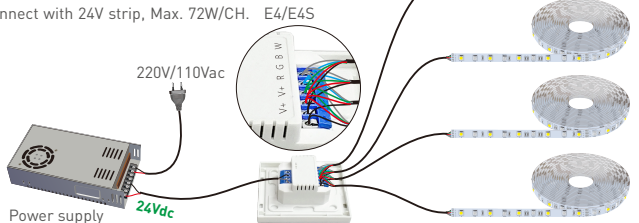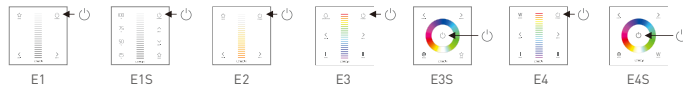
2. **Match code with F series remote:**

Single zone remote: long press ON/OFF key on remote, the indicator light stop flicking, match code successfully.

Multi-zone remote: long press the matching zone's ON & OFF keys simultaneously, the indicator light stop flicking, match code successfully.

F1 (Dimming)   F2 (CT)   F3 (RGB)   F4 (RGBW)   F5 (Dimming)   F6 (CT)   F7 (RGB)   F8 (RGBW)
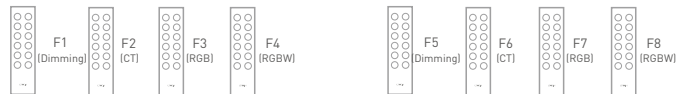
E1/E1S touch panel match with F1/F5 remote, E2 match with F2/F6, E3/E3S match with F3/F7, E4/E4S match with F4/F8.

Match code with Q series remote: long press the matching zone's "ON" key on remote, the indicator lights of touch panel stop flicking, match successfully.

Q1   Q2   Q4

Match Code between Touch Panel & Gateway

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

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

| E1 | E1S | E2 | E3 | E3S | E4 | E4S |
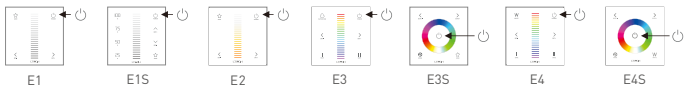
2. Turn on APP, enter "zone set" interface, click the right top "MATCH" key, then operate following the prompts.

Clear Code

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

Press the bottom two keys on touch panel simultaneously for 6 seconds, the indicator light flicker several times, clear code successfully.

Warranty Agreement:

1. We provide lifelong technical assistance with this product:
- A 5-year warranty is given from the date of purchase. The warranty is for free repair or replacement if cover manufacturing faults only.
- For faults beyond the 5-year warranty, we reserve the right to charge for time and parts.

2. Warranty exclusions below:
- Any man-made damages caused from improper operation, or connecting to excess voltage and overloading.
- The product appears to have excessive physical damage.
- Damage due to natural disasters and force majeure.
- Warranty label, fragile label and unique barcode label have been damaged.
- The product has been replaced by a brand new product.

3. Repair or replacement as provided under this warranty is the exclusive remedy to the customer. LTECH shall not be liable for any incidental or consequential damages for breach of any stipulation in this warranty.

4. Any amendment or adjustment to this warranty must be approved in writing by LTECH only.

✳ 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.