# LDT-PNL-CV-RGB-SL

## Touch-Slider Constant-Voltage RGB Panel

A wall-mounted touch slider controller with direct PWM outputs for rgb LED loads. A compatible RF remote may also be paired; this is not merely a wireless wall transmitter.

### Model specifications

| | |
|---|---|
| Product function | Wall-mounted constant-voltage LED controller |
| Lighting type | RGB |
| Input / output voltage | 12-24 VDC |
| LED output channels | 3 |
| Maximum output current | 4 A/channel |
| Controls | Touch slider + compatible RF 2.4 GHz remote |
| PWM frequency | 1 kHz |
| Operating temperature | -30 to +55 °C |
| Maximum case temperature | +85 °C |
| Panel dimensions | 86 x 86 x 33 mm |
| Mounting | 86-size wall box; verify available depth |
| Finish options | White or black glass; confirm selected finish |

This panel uses a low-voltage DC supply. Do not confuse it with an AC-powered DMX/RF master or a battery wall remote.

The following technical-reference pages retain the complete diagrams, dimensions, settings and installation instructions. Select the lighting variant stated on this cover; family diagrams may also illustrate other variants.

**RF | DIM / DUO / RGB / RGBW**

# Wall Mounted Touch Panel




- Touch panel single color, dual color, RGB or RGBW PWM constant voltage controller.
- Ultra sensitive high strength glass touch panel with touch color slide in the middle.
- Compatibility with RF 2.4G single zone or multiple zone remote control.
- White & Black glass panel available.

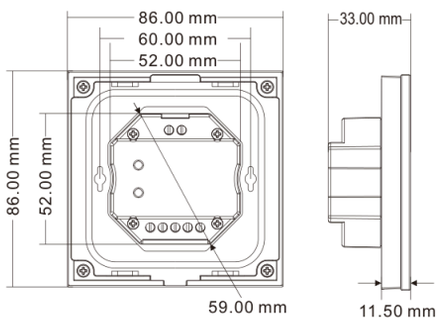
CE RoHS RED

## Technical Parameters

| Input and Output | | | | |
|---|---|---|---|---|
| Model No. | DIM | DUO | RGB | RGBW |
| Input voltage | 12-48VDC | 12-48VDC | 12-24VDC | 12-24VDC |
| Input current | 10.5A | 10.5A | 12.5A | 12.5A |
| Output voltage | 2 x (12-48)VDC | 2 x (12-48)VDC | 3 x (12-24)VDC | 4 x (12-24)VDC |
| Output current | 2CH,<br>5A/CH@12-24V<br>3A/CH@36-48V | 2CH,<br>5A/CH@12-24V<br>3A/CH@36-48V | 3CH,4A/CH | 4CH,3A/CH |
| Output power | 120-288W | 120-288W | 144-288W | 144-288W |
| Output type | Constant voltage | Constant voltage | Constant voltage | Constant voltage |
| PWM frequency | 1K/2K/8K/16KHz | 2K/8KHz | 1KHz | 1KHz |
| Light type | Single color | Dual color | RGB | RGBW |

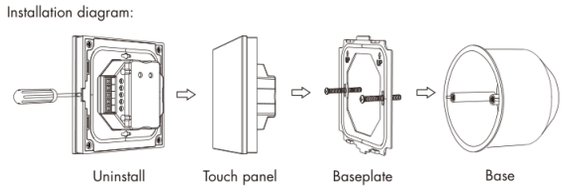
| Safety and EMC | |
|---|---|
| EMC standard | EN 62479:2010<br>ETSI EN 301 489-1 V2.2.3<br>ETSI EN 301 489-17 V3.2.4 |
| Safety standard | EN 61347-1:2015+A1:2021<br>EN 61347-2-13:2014+A1:2017 |
| Radio Equipment | ETSI EN 300 328 V2.2.2 |
| Certification | CE RED |
| **Environment** | |
| Operation temperature | Ta: -30°C ~ +55°C |
| Case temperature (Max.) | Tc: +85°C |
| **Package** | |
| Size | L112 x W112 x H50mm |
| Gross weight | 0.231kg |

## Mechanical Structures and Installations










## Match Remote Control (two match ways)

The touch panel controller can also match with the RF remote (optional).
End user can choose the suitable match/delete ways. Two options are offered for selection:

### Use On/Off key

Match:
Turn on light, turn off, immediately press the On/Off key of the panel for 5s, then press on/off key (single zone remote) or zone key (multiple zone remote) of the RF remote within 5s.
The LED indicator fast flash 3 times means match is successful.

Delete:
Turn on light, turn off, immediately press the On/Off key of the panel for 10s, delete all matched RF remote.
The LED indicator fast flash 6 times means all matched remotes were deleted.

### Use Power Restart

Match:
Switch off the power, then switch on power, repeat again, immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote.
The light blinks 3 times means match is successful.

Delete:
Switch off the power, then switch on power, repeat again, immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 5 times on the remote.
The light blinks 5 times means all matched remotes were deleted.

## Key function

### DIM panel



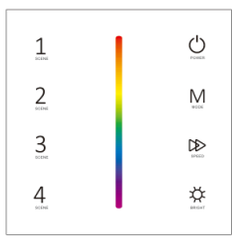

- Turn on/off light.
- Brightness slide.
- Brightness, 10 levels.
- 20s — Turn off light after 20s.
- M — Dynamic mode, 6 level speed.

### DUO panel



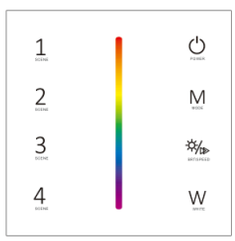

- Turn on/off light.
- Color temperature.
- Brightness +, 10 levels.
- Brightness -, 10 levels.
- M — Dynamic mode, 6 level speed.

### RGB panel




- Turn on/off light.
- Color slide.
- Brightness, 10 levels.
- Adjust dynamic mode speed, 10 levels.
- M — Short press play 10 built-in dynamic mode, long press 2s run mode-cycle.
- 1 2 3 4 — 4 Scenes, short press recall scene.
  Long press 2s to save the current color into 1/2/3/4.

### RGBW panel

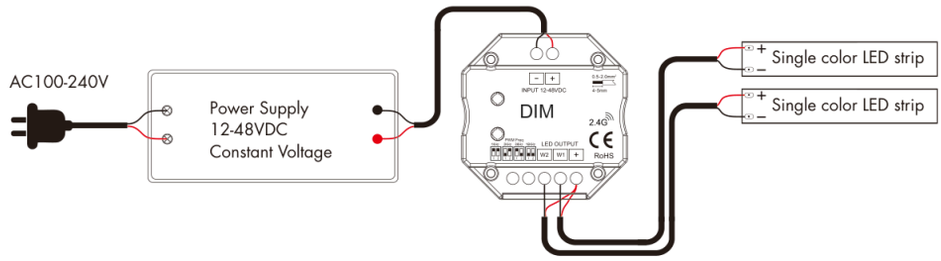



- Turn on/off light.
- Color slide.
- Adjust dynamic mode speed or static color brightness, 10 levels.
- M — Short press play 10 built-in dynamic mode, long press 2s run mode-cycle.
- W — Short press turn on/off W channel, long press adjust W channel brightness.
- 1 2 3 4 — 4 Scenes, short press recall scene.
  Long press 2s to save the current color into 1/2/3/4.

**Turn on key tone:** Long press power key for 5s when light is off, will turn on or turn off key tone(DIM,DUO without key tone).

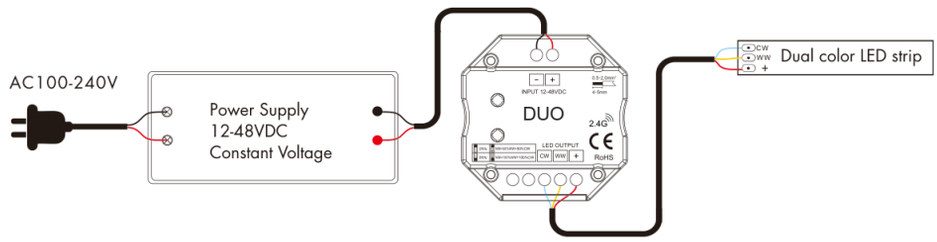
## Wiring diagram

**DIM panel**



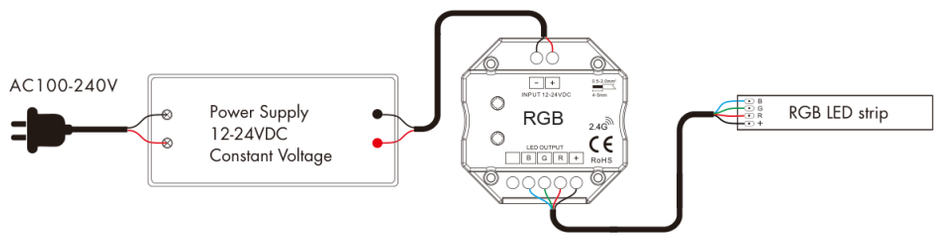

DIP switch select four PWM frequency: 1KHz, 2KHz, 8KHz or 16KHz.
Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera(No flickers for video).

**DUO panel**

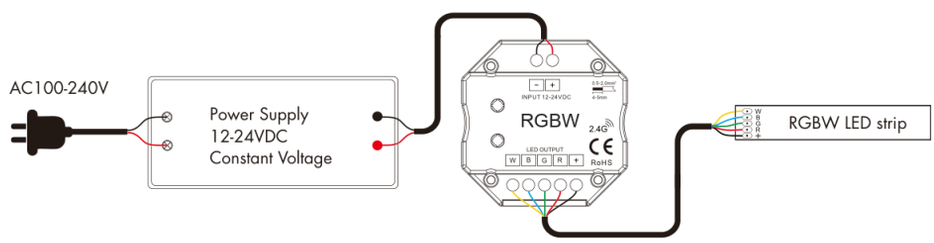



DIP switch 1 select two PWM frequency: 2KHz or 8KHz.
Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera(No flickers for video).
DIP switch 2 select color temperature output mode: NW=50%WW+50%CW or NW=100%WW+100%CW.

**RGB panel**




**RGBW panel**




## RGB/RGBW dynamic mode list (only for RGB / RGBW

| No. | Name | No. | Name |
|---|---|---|---|
| 1 | RGB jump | 6 | RGB fade in and out |
| 2 | RGB smooth | 7 | Red fade in and out |
| 3 | 6 color jump | 8 | Green fade in and out |
| 4 | 6 color smooth | 9 | Blue fade in and out |
| 5 | Yellow cyan purple smooth | 10 | White fade in and out |