



LIGHTING
SINCE 1986

BL controls DMX/RDM16 Decoder & Booster Manual



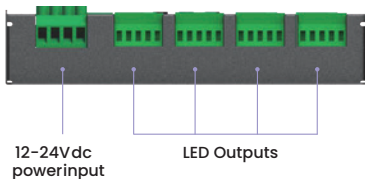
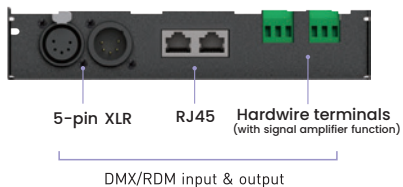
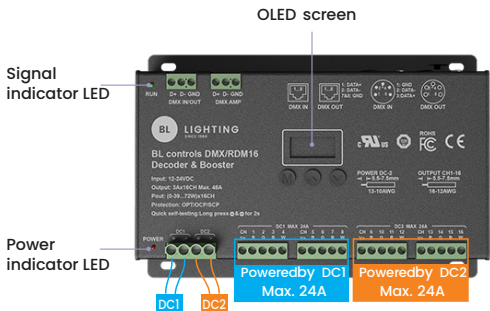
BL LIGHTING. ILLUMINATE EVERYTHING

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Main Component Description



OLED screen interface



Short press "M" key - switch entries.
 Long press "M" key - Back to main page.
 Press "^" or "v" key - Parameter adjustment.

1. DMX address settings

DMX: 001 Hz: High
 Mode: RGBW 8bit
 Curve: Standard
 Dim: Smo TOOL

Press "^" or "v" key to set DMX address.
 Range: 001-512

Main page

2. PWM frequency

DMX: 001 Hz: High
 Mode: RGBW 8bit
 Curve: Standard
 Dim: Smo TOOL

Press "^" or "v" key to choose. Use Std for no flicker

Available :
 Std (standard)
 High
 Mid (middle)
 Low

*It is recommended to use standard.

3. Modes

DMX: 001 Hz: High
 Mode: RGBW 8bit
 Curve: Standard
 Dim: Smo TOOL

Press "^" or "v" key to choose mode.
 Available Modes: DIM/CT/CT2/RGB/RGBW

4. Grey scale

DMX: 001 Hz: High
 Mode: RGBW 8bit
 Curve: Standard
 Dim: Smo TOOL

Press "^" or "v" key to choose.
 Available :
 8bit
 16bit (choose only if the master controller supports this function)

5. Dimming curves

DMX: 001 Hz: High
 Mode: RGBW 8bit
 Curve: Standard
 Dim: Smo TOOL

Press "^" or "v" key to choose.
 Available :
 Standard
 Linear LOG 0.1-9.9

*It is recommended to use standard dimming for most applications

6. Enhance dimming

```
DMX: 001 Hz: High
Mode: RGBW 8bit
Curve: Standard
Dim: Smo TOOL
```

Press “^” or “v” key to choose.
Available :
Std (standard)
Smo (smooth)

*It is recommended to use standard.

Smo: flicker-free dimming and smooth dynamic effects,
higher processing time.

7. Tool

```
DMX: 001 Hz: High
Mode: RGBW 8bit
Curve: Standard
Dim: Smo TOOL
```

Press “^” or “v”
key to enter sub-menu

```
Screen: ON+Addr
Contrast: 40%
Beep: ON TEST
EXIT
```

Press “^” or “v”
key to enter submenu of test.

```
001
```

Screen: ON+Addr

Screensaver + display address
without operating in two minutes.

```
Screen: ON+black
```

Screen: ON+black

Screensaver - black without
operating in two minutes.

```
CH01: 255
CH02: 255
CH03: 255 [^&V]
CH04: 255 EXIT &V
```

Brightness setting
(range: 0-255)
Press “^” or “v”
to next page
Press “v” to exit

```
ALL: 255
[^&V]
EXIT &V
```

Change all value
simultaneously
(on the last page)

```
DMX: 001 Hz: High
Mode: RGB 8bit
Curve: Standard
Dim: Smo TOOL&v
```

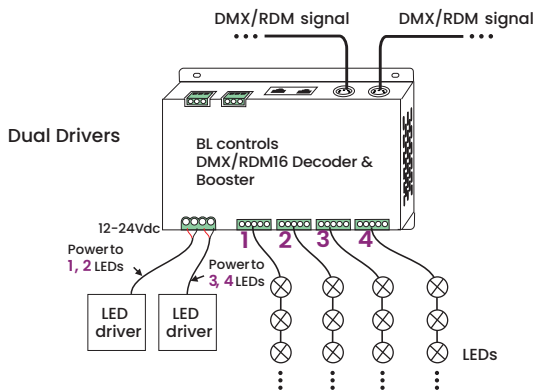
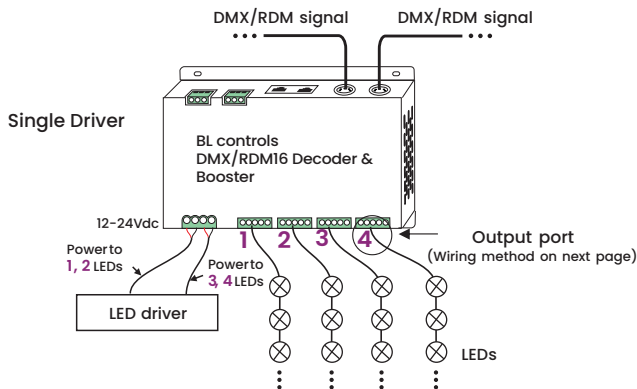
Screen: OFF

Screensaver not enabled.

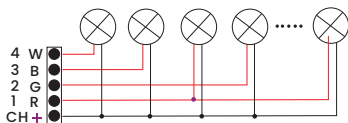
* Fast self-testing function: press “ ” or “ ” keys
simultaneously for 2-3 seconds under any page,
decoder will enter self-testing function.

Wiring diagram

Connecting Drivers:

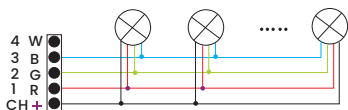


Dimming LEDs



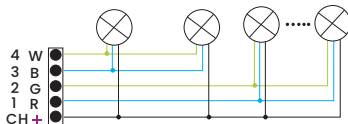
Dimming mode

RGB LEDs



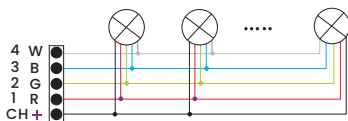
RGB mode

CT/CT2 LEDs



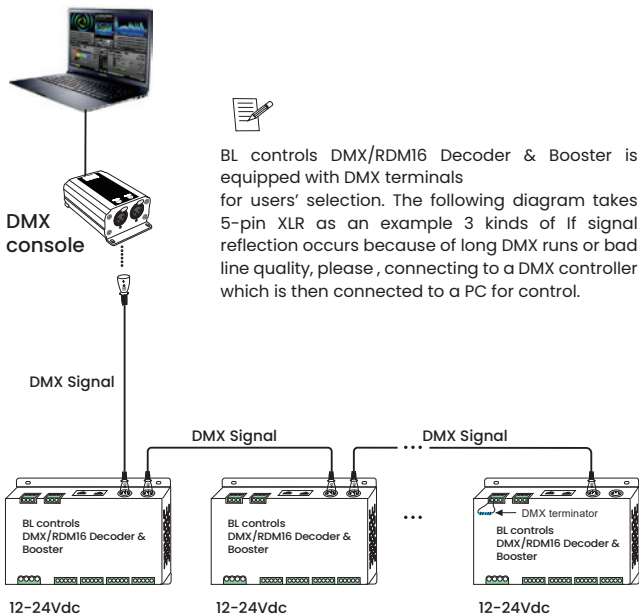
Color temperature mode

RGBW LEDs



RGBW mode

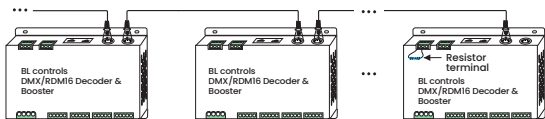
DMX controller connection:



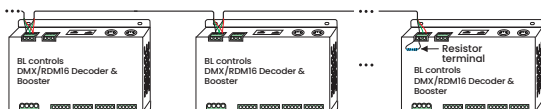
* If signal reflection occurs because of long DMX runs or bad line quality, please make sure a DMX terminator is being used.

Different DMX connection methods:

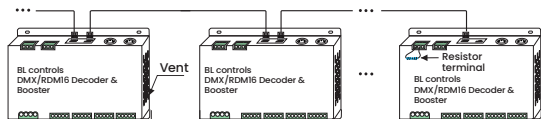
5-pin XLR
connected
in series



Hardwire terminal
connected
in series



RJ45
connected
in series



Installation distance > 20mm *Terminals can be connected in mixed methods

* IMPORTANT: Please reserve enough ventilation distance between decoders

Amplifier connection:

* Amplifier will be needed when more than 32 decoders are connected or use of long signal wire (as shown below). The signal amplifier should not be used more than 5 times continuously.

