

LTECH

DMX512 DECODER

LT-916-OLED

16
CHANNELS

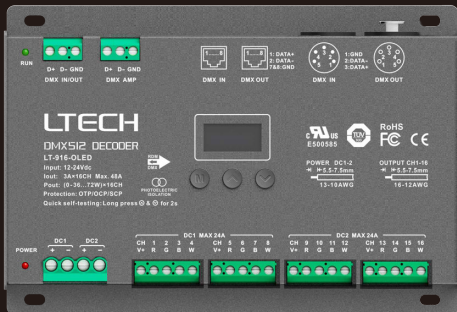
OLED display
8 bit / 16 bit
3 kinds of DMX interfaces
Dimming Curve: 0.1-9.9

C **UL** US
E500585



Photoelectric
isolation

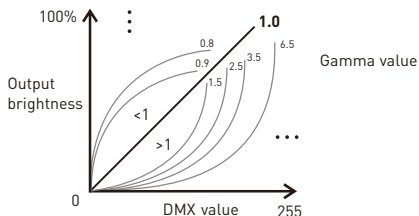
Short circuit / Over current / Overheat protection



www.ltech-led.com

Product introduction

1. Designed for Hi-power multiple channels application, 16 channels output, and Max. 3A current per channel, up to 1152W output power.
2. Easy operation with OLED screen and touch buttons.
3. 4 kinds of modes available: DIM, CT, RGB, RGBW.
4. 5-pin XLR, RJ45 and green terminal DMX interface with photoelectric isolation, improve signal transmission efficiency and anti-interference ability, the green terminal also has signal amplifier function.
5. With RDM remote management protocol, the operations can be completed via the RDM master console, such as parameters browsing & settings, DMX address settings, equipment recognition, etc.
6. With firmware upgrade function.
7. With short circuit, over current and overheat protection, as well as warning function when a fault occurs.
8. With power-on state management and fast self-testing function.
9. 16bit (65536 levels) / 8bit (256 levels) grey level available.
10. Available for standard, linear, LOG or custom 0.1-9.9 dimming curve.



5-pin XLR



RJ45



RDM

Photoelectric
isolationShort circuit
protectionOverheat
protectionOver current
protection

Display

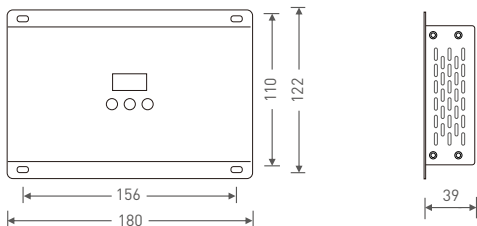
Technical specs

Model :	LT-916-OLED
Input signal :	DMX512/RDM
Input voltage :	12~24Vdc
Current load :	3A × 16CH Max. 48A
Output power :	(0~36W...72W) × 16CH Max. 1152W
DMX interfaces :	5-pin XLR, RJ45, green terminal
Control modes :	DIM/CT/RGB/RGBW
Dimming curves :	0.1~9.9, standard, linear, LOG
Grey level :	8bit (256 levels) / 16bit (65536 levels)
Photoelectric isolation :	Yes
Protection :	Short circuit / Overheat / Over current protection, recover automatically.
Working temperature :	-30°C~65°C
Dimensions :	180×122×39mm(L×W×H)
Package size :	193×127×41mm(L×W×H)
Weight (G.W.) :	730g

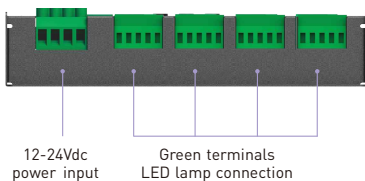
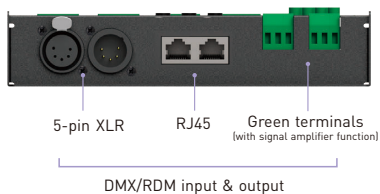
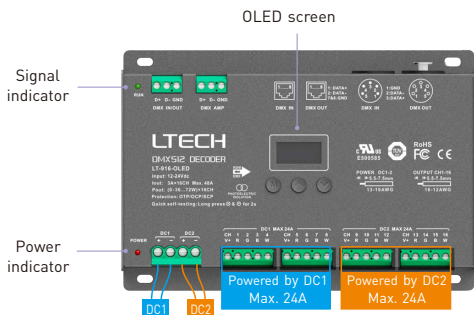


Product size

Unit: mm



Main component description



OLED screen interface



Press "M" key, switch entries.
 Long press "M" key, back to main page.
 Press "^" or "v" key, parameter adjustment.
 Exit: back to previous page.

1. DMX address settings

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

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&v

Press "^" or "v" key to choose. **No flicker in video camera.**

Available :

↓

Std (standard)
 High
 Mid (middle)
 Low

↑

Smooth and exquisite, human eye is comfortable. * It is recommended to use standard.

3. Modes

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

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

4. Grey scale

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

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

5. Dimming curves

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

Press "^" or "v" key to choose.
 Available : **Standard**
 Linear
 LOG
 0.1-9.9
 It is recommended to use standard,
 0.1-9.9 is for special requirements.

6. Enhance dimming

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

Press “^” or “v” key to choose.

Available : **Std (standard)**

Smo (smooth)

* It is recommended to use standard.

Smo: This option with smooth processing, realizes flicker-free dimming and smooth dynamic effects.

7. Tool

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

Press “^” or “v”
key to enter submenu

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

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

001

Screen: ON+Addr

Screensaver open and display address without operating in two minutes.

Screen: ON+black

Screensaver open and black without operating in two minutes.

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

Screen: OFF

Screensaver not enable.

```
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

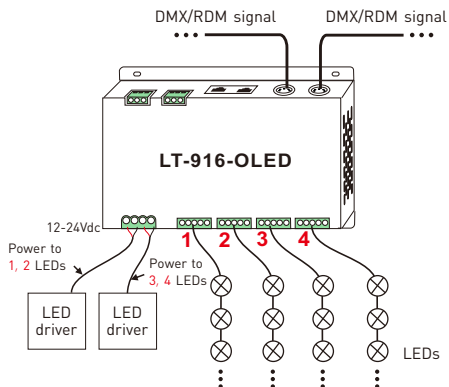
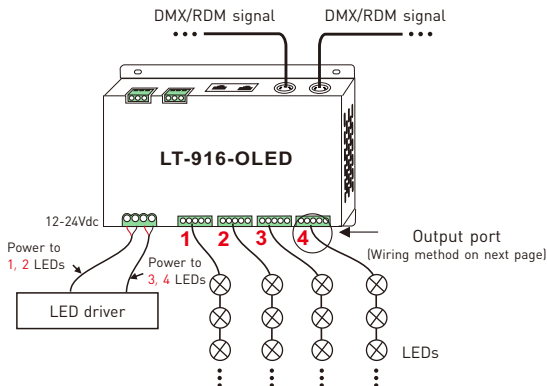
```
ALL: 255
[^&V]
EXIT &V
```

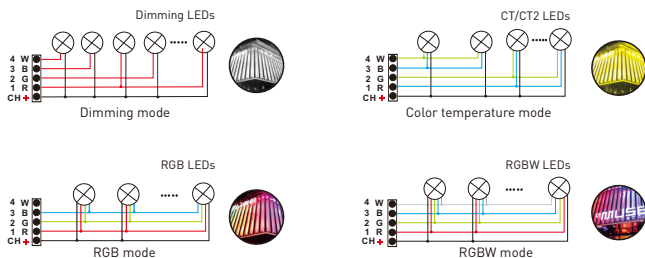
Change all value
simultaneously
(on the last page)

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

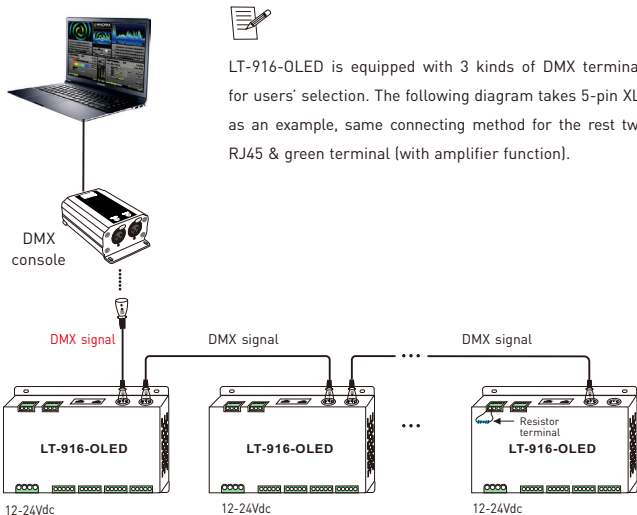
Wiring diagram

1. Connecting LED lights:



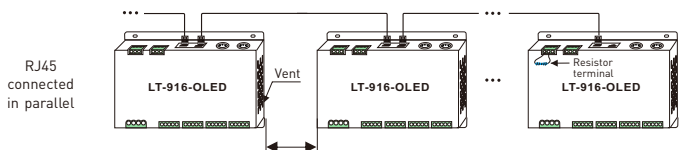
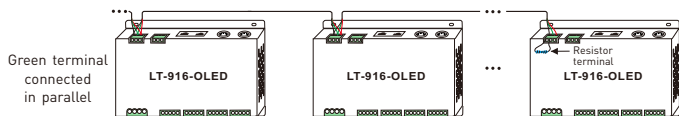
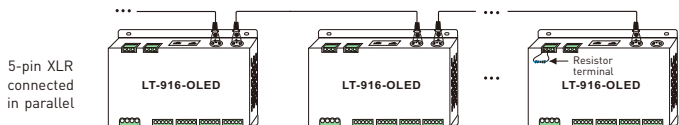


2. DMX console connection:



- * If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each line.

3. The connection diagram of 3 kinds of DMX/RDM terminals:



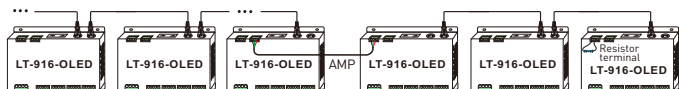
Installation distance > 20mm

These 3 terminals can be connected in a mixed way.

- * **Installation attentions:** Please reserve enough ventilation distance between decoders (>20mm), be sure not to block the vent, or it will affect lifetime of decoder for poor heat dissipation.

4. The connection diagram of AMP signal amplifier terminal:

- * Connecting with green terminal or an extra amplifier will be needed when more than 32 decoders are connected or use overlong signal wire (as shown below). Signal amplifier should not be more than 5 times continuously.



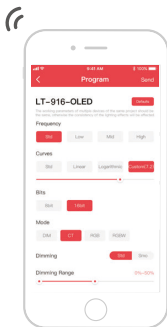
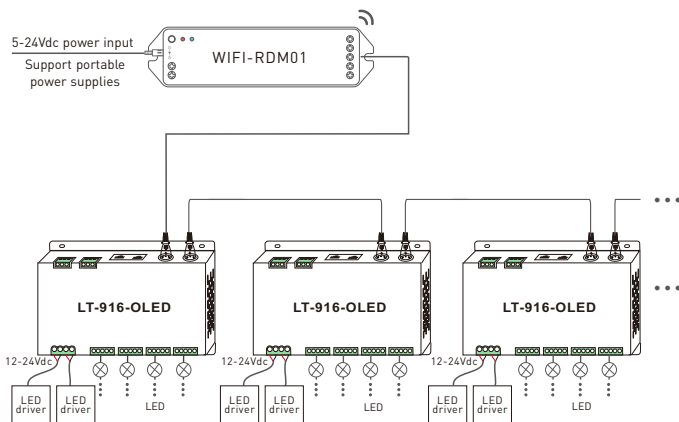
Address setting table

Mode	DIM	CT/CT2	RGB	RGBW	Mode	DIM	CT/CT2	RGB	RGBW			
Address quantity	4	8	12	16	Address quantity	8	16	24	32			
Resolution	8bit	8bit	8bit	8bit	Resolution	16bit	16bit	16bit	16bit			
Channel	1	001	001	001	001	Channel	1	001 002	001 002	001 002	001 002	
	2	001	002	002	002		2	001 002	003 004	003 004	003 004	003 004
	3	001	001	003	003		3	001 002	001 002	005 006	005 006	005 006
	4	001	002	003	004		4	001 002	003 004	005 006	005 006	007 008
	5	002	003	004	005		5	003 004	005 006	007 008	007 008	009 010
	6	002	004	005	006		6	003 004	007 008	009 010	009 010	011 012
	7	002	003	006	007		7	003 004	005 006	011 012	011 012	013 014
	8	002	004	006	008		8	003 004	007 008	011 012	011 012	015 016
	9	003	005	007	009		9	005 006	009 010	013 014	013 014	017 018
	10	003	006	008	010		10	005 006	011 012	015 016	015 016	019 020
	11	003	005	009	011		11	005 006	009 010	017 018	017 018	021 022
	12	003	006	009	012		12	005 006	011 012	017 018	017 018	023 024
	13	004	007	010	013		13	007 008	013 014	019 020	019 020	025 026
	14	004	008	011	014		14	007 008	015 016	021 022	021 022	027 028
	15	004	007	012	015		15	007 008	013 014	023 024	023 024	029 030
	16	004	008	012	016		16	007 008	015 016	023 024	023 024	031 032

* When you select CT2, the DMX address represents brightness, color temperature and constant power output respectively.

Work with RDM editor

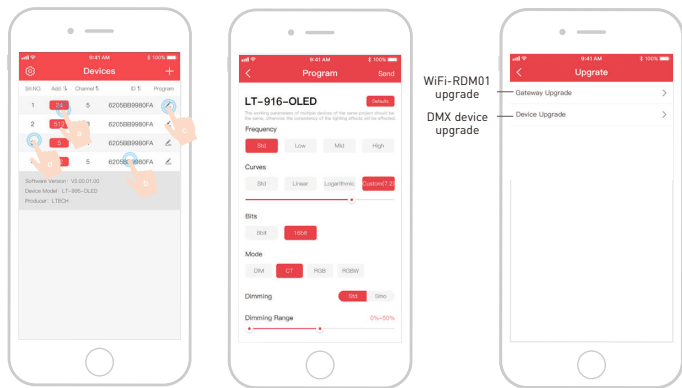
LT-916-OLED can work with LTECH RDM editor (Model: WiFi-RDM01) to realize changing the parameters by long-range setting, wiring diagram as below:



RDM editor App interface instruction

Download the App, setting the LT-916-OLED parameters (frequency, bit, curve, modes, dimming range, screensaver, etc.) after well connecting the RDM editor, more details, please check the manual of WiFi-RDM01.

Well installation of products first, then working with WiFi -RDM01 to realize setting parameters and firmware upgrade by App.



- a: Click "Add", edit the address in corresponding box.
 b: Click "ID", get more product details.
 c: Click " ", enter edited interface.
 d: Click "No.", issue the recognizing command.

WiFi-RDM01
upgrade
DMX device
upgrade

Supporting WiFi-RDM01 upgrade
and DMX driver upgrade.

* This manual is subject to changes without further notice.
 Product functions depend on the goods.
 Please feel free to contact our official distributors if you have any question.