

LTECH

DMX512 DECODER

LT-912-OLED

12
CHANNELS

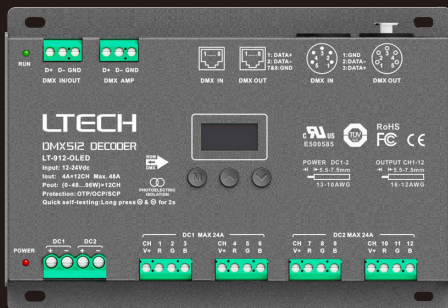
OLED display
8 bit / 16 bit
3 kinds of DMX interfaces
Dimming curve: 0.1~9.9

Short circuit / Over current / Overheat protection

UL US
E500585

RDM
DMX

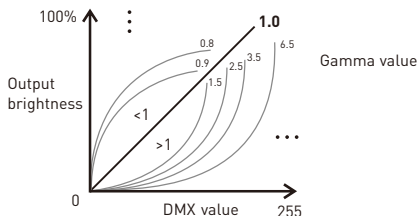
Photoelectric
isolation



www.ltech-led.com

Product introduction

1. Designed for Hi-power multiple channels application, 12 channels output, and Max. 4A current per channel, up to 1152W output power.
2. Easy operation with OLED screen and touch buttons.
3. 3 kinds of optional modes available: DIM, CT, RGB.
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 customize 0.1-9.9 dimming curve.



5-pin XLR



RJ45



RDM

Photoelectric
isolationShort circuit
protectionOverheat
protectionOver current
protection

Display

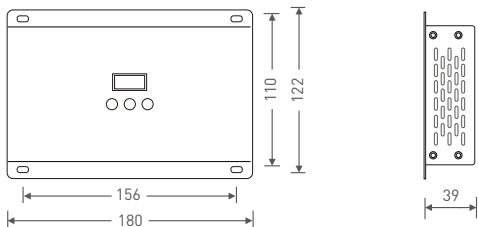
Technical specs

Model :	LT-912-OLED
Input signal :	DMX512/RDM
Input voltage :	12~24Vdc
Current load :	4A × 12CH Max. 48A
Output power :	(0~48W...96W) × 12CH Max. 1152W
DMX interfaces :	5-pin XLR, RJ45, green terminal
Control modes :	DIM/CT/RGB
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



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: RGB 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: RGB 8bit
 Curve: Standard
 Dim: Smo TOOL&v

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

Option :



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: **RGB** 8bit
 Curve: Standard
 Dim: Smo TOOL&v

Press "^" or "v" key to choose.

Option : DIM
 CT/CT2
 RGB

4. Grey scale

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

Press "^" or "v" key to choose.

Option : 8bit
 16bit (choose it if the master controller supports this function)

5. Dimming curves

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

Press "^" or "v" key to choose.

Option : **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: RGB 8bit
Curve: Standard
Dim: Smo TOOL&v
```

Press "▲" or "▼" key to choose.

Option : **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: RGB 8bit
Curve: Standard
Dim: Smo TOOL&v
```

Press "▲" or "▼"
key to enter submenu

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

Press "▲" or "▼"
key to enter
submenu of test.

001

Screen: ON+Addr

Screensaver open and display address if undo for 2 minutes.

Screen: ON+black

Screensaver open and black if undo for 2 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]
EXIT &V
```

Brightness setting
(range: 0-255)
Press "▲" or "▼"
to next page
Press "▼" to exit

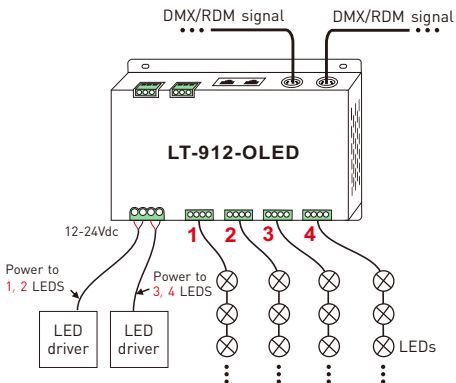
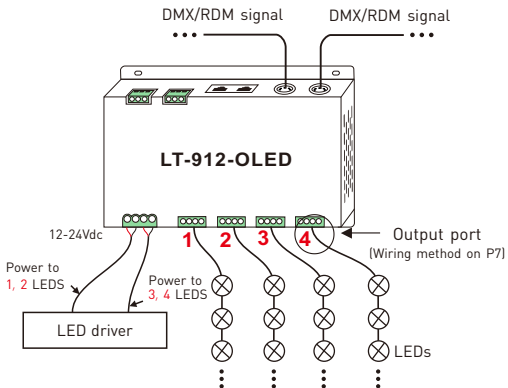
```
ALL: 255
[^&V]
EXIT &V
```

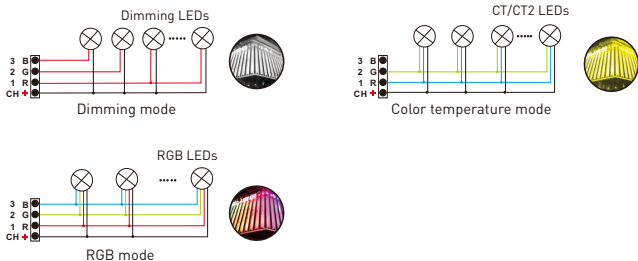
Change all value
simultaneously
(on the last page)

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

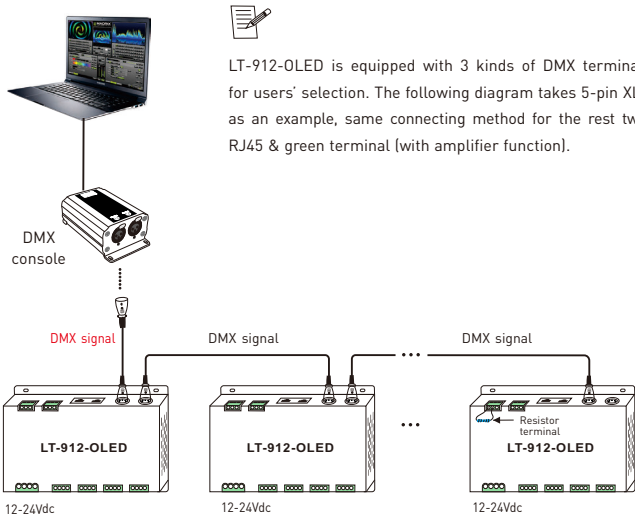
Wiring diagram

1. Connecting LED lights:





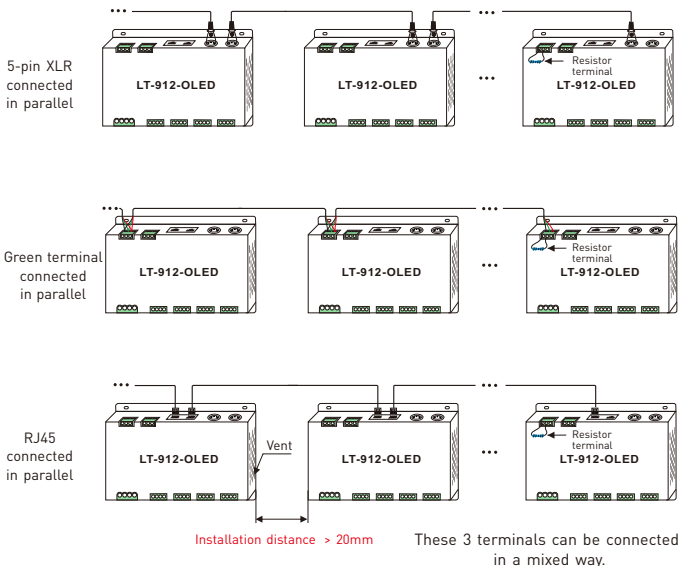
2. DMX console connection:



LT-912-OLED is equipped with 3 kinds of DMX terminals for users' selection. The following diagram takes 5-pin XLR as an example, same connecting method for the rest two: RJ45 & green terminal (with amplifier function).

- * 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.

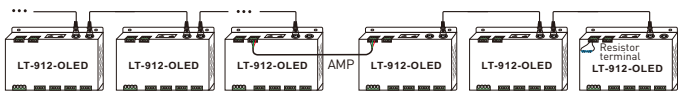
3. The connection diagram of 3 kinds of DMX/RDM terminals:



- * **Installation attention :** 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.



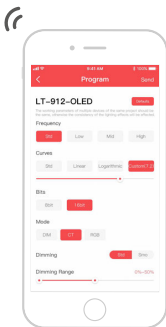
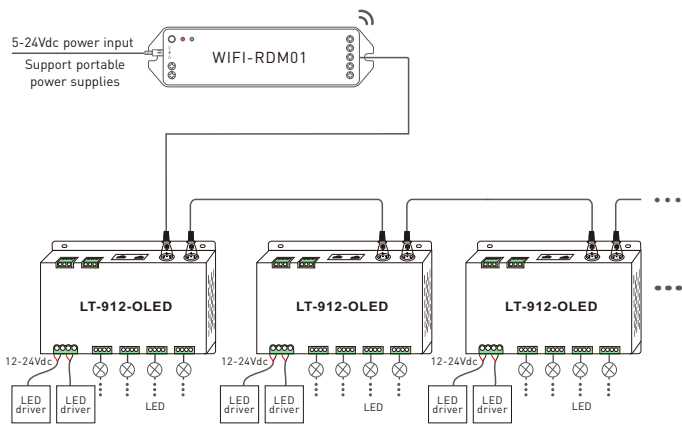
Address setting table

Mode		DIM	CT/CT2	RGB	Mode		DIM	CT/CT2	RGB
Address Quantity		4	8	12	Address Quantity		8	16	24
Resolution		8bit	8bit	8bit	Resolution		16bit	16bit	16bit
Channel	1	001	001	001	Channel	1	001 002	001 002	001 002
	2	001	002	002		2	001 002	003 004	003 004
	3	001	002	003		3	001 002	003 004	005 006
	4	002	003	004		4	003 004	005 006	007 008
	5	002	004	005		5	003 004	007 008	009 010
	6	002	004	006		6	003 004	007 008	011 012
	7	003	005	007		7	005 006	009 010	013 014
	8	003	006	008		8	005 006	011 012	015 016
	9	003	006	009		9	005 006	011 012	017 018
	10	004	007	010		10	007 008	013 014	019 020
	11	004	008	011		11	007 008	015 016	021 022
	12	004	008	012		12	007 008	015 016	023 024

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

Work with RDM editor

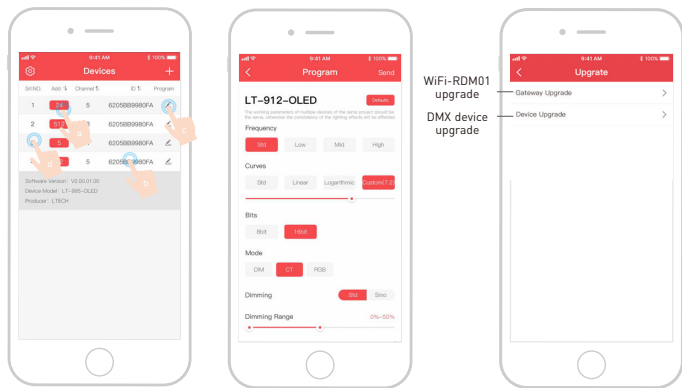
LT-912-OLED can work with LTECH RDM editor (Model: WiFi-RDM01) to realize changing the parameters by long-range setting, wiring diagram as below:



RDM editor App interface instruction

Download the App, setting the LT-912-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.

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.