

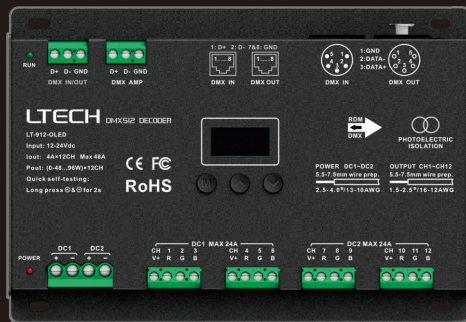
LTECH

# DMX512 DECODER

LT-912-OLED

12  
CHANNELS

OLED display  
8 bit / 16 bit  
3 kinds of DMX interfaces  
Dimming Curve: 0.1~9.9  
Shortcut / Over load protection



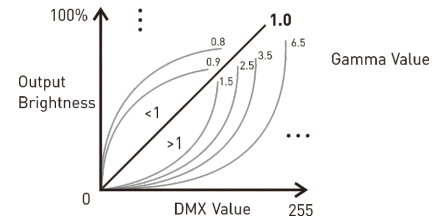
www.ltech-led.com

www.ltech-led.com

LTECH

## 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 the touch buttons.
3. 3 kinds of mode optional: single color, color temperature, RGB.
4. Support 3 kinds of DMX ports with signal isolation function: 5-pin XLR, RJ45 and green terminal (with signal amplifier function).
5. With RDM remote management protocol, the operations can be completed via the RDM master console, such as parameters browsing & setting, DMX address setting, equipment recognition, etc.
6. With photoelectric isolation function.
7. With shortcut protection and over load protection, as well as warning function when fault.
8. With fast self-testing function.
9. 16bit (65536 levels) / 8bit (256 levels) grey level optional.
10. Multiple dimming curve (0.1~9.9) optional.



5-pin XLR



RJ45



RDM



Photoelectric  
Isolation



Shortcut  
Protection



Over load  
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 Interface :	5-pin XLR, RJ45, Green terminal
Control Mode :	Dimming/CT/RGB
Dimming Curve :	0.1~9.9
Grey Level :	8bit (256 levels) / 16bit (65536 levels)
Photoelectric Isolation :	Yes
Protection:	Shortcut / Over load
Working Temperature :	-30°C~65°C
Dimensions :	L180×W122×H39mm
Package Size :	L193×W127×H41mm
Weight (G.W.) :	730g

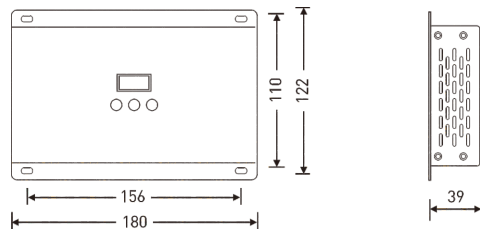
FC CE RoHS

(warranty)  
5 years

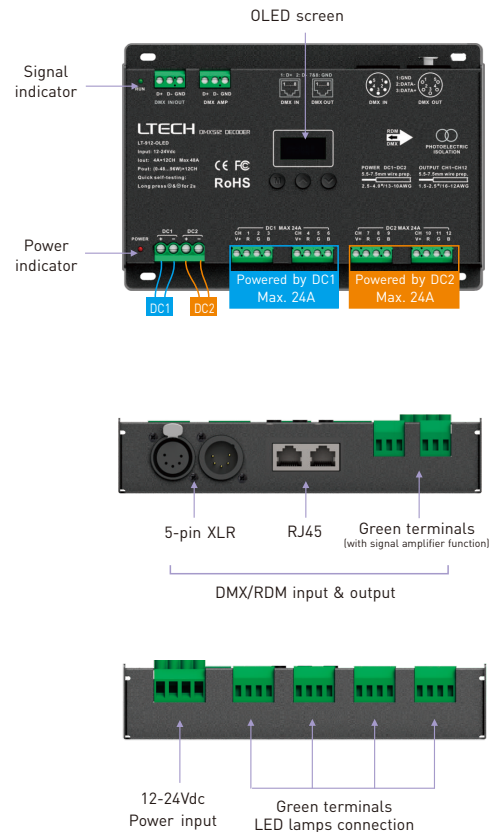


## Product Size:

Unit: mm



## Main Component Description:



## OLED Screen Interface:



M ^ v

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 Setting

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

Main page

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

### 2. PWM Frequency

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

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

Optional :

Std (standard)

High

Mid (middle)

Low

Smooth and delicate,  
human eye  
is comfortable.

\* It is recommended to  
use standard.

No flicker in  
video camera.

### 3. Mode

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

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

Optional : Dim

CT

RGB

### 4. Grey Level

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

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

Optional : 8bit

16bit (choose it if the master  
controller support this function)

### 5. Dimming Curve

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

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

Optional : Standard

Linear

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 "v" key to choose.

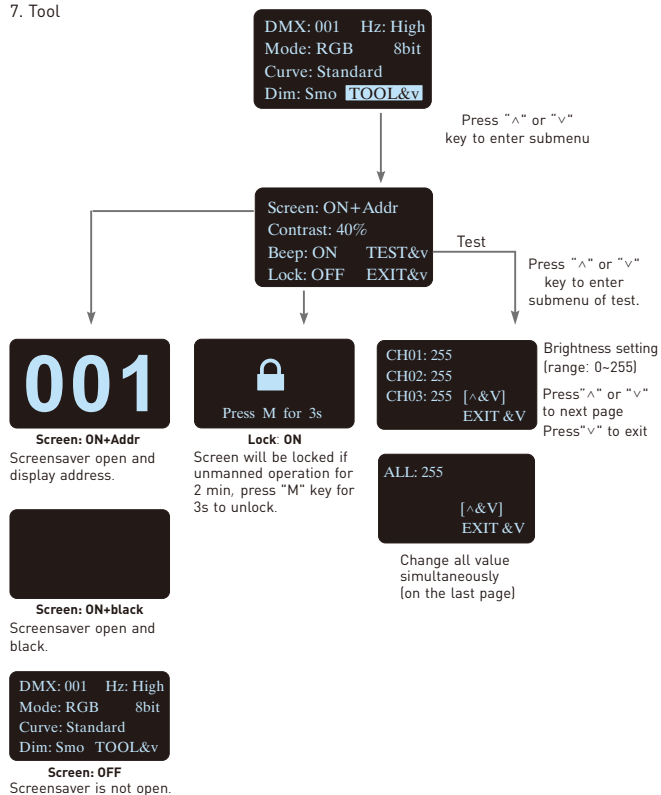
Optional : Std (standard)

Smo (smooth)

\* It is recommended to use standard.

Smo: This option with smooth processing, realize  
the dimming flicker-free and dynamic effects  
more downy.

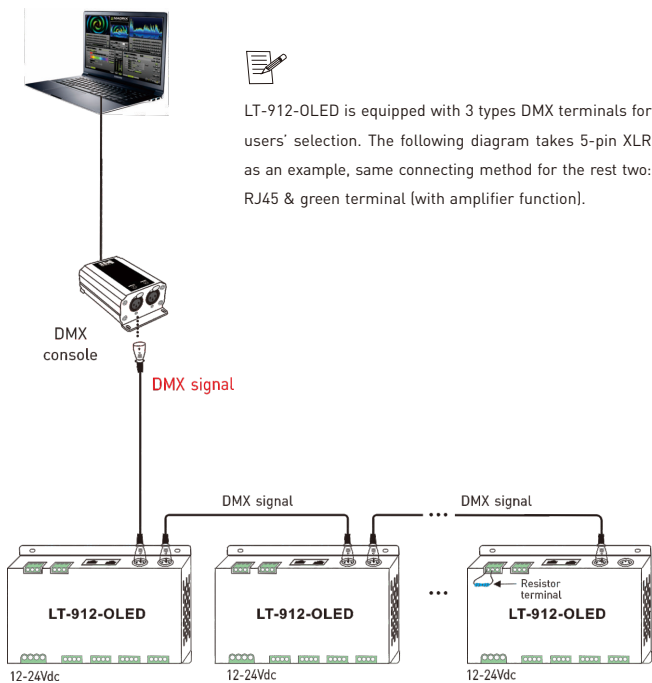
## 7. Tool



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

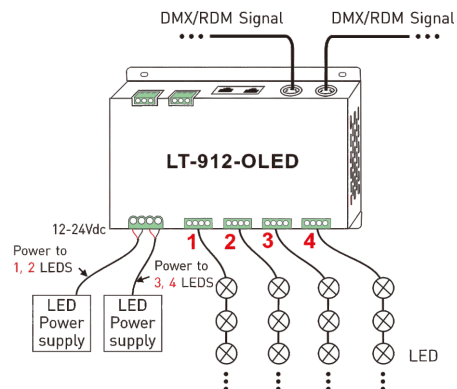
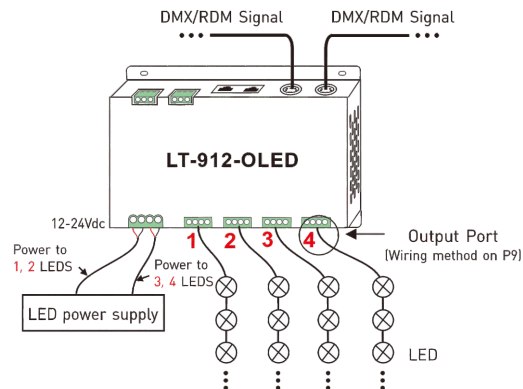
## Wiring Diagram:

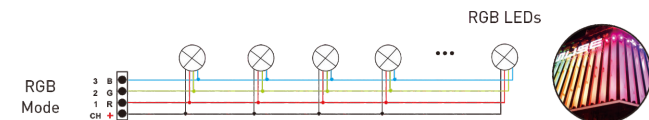
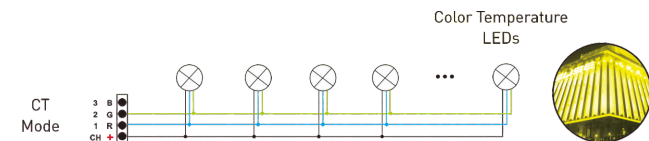
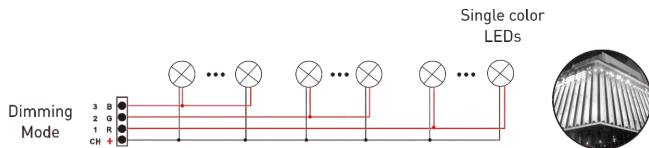
### 1. DMX console connection:



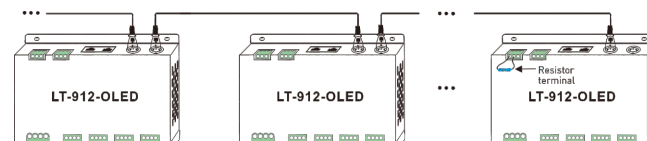
\* If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each line.

### 2 Connecting LED lights:

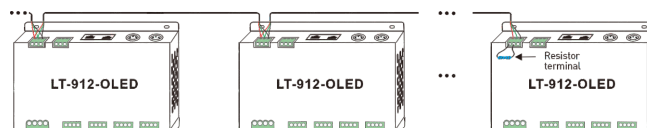




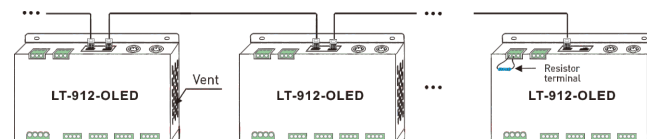
### 3. The connection diagram of 3 kinds of DMX/RDM terminals:



5-pin XLR Connected in Parallel



Green Terminal Connected in Parallel



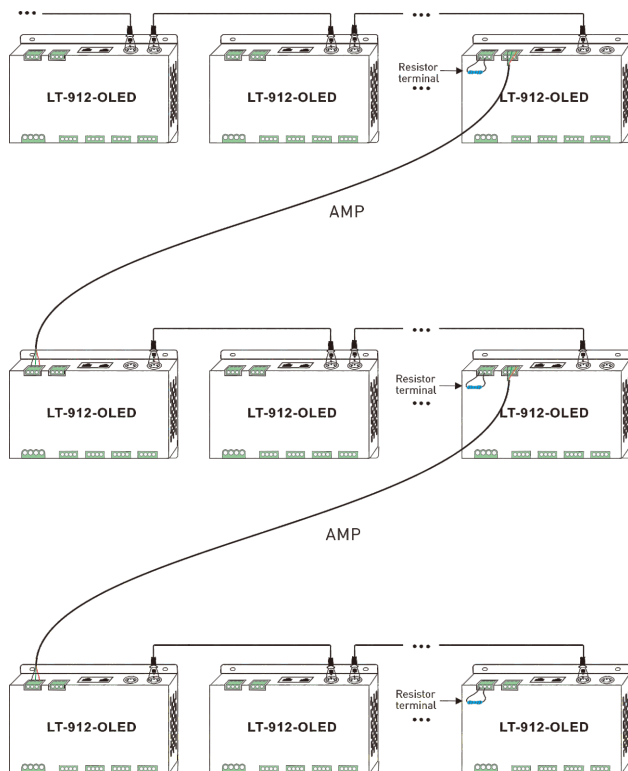
RJ45 Connected in Parallel

These 3 terminals can be connected in a mixed way.

**\*Installation Attention :** please reserve enough ventilation distance between decoders (>20mm), be sure not to block the vent, or 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	RGB
Address Quantity	4	8	12
Resolution	8bit	8bit	8bit
Channel	1	001	001 001
	2	001	002 002
	3	001	002 003
	4	002	003 004
	5	002	004 005
	6	002	004 006
	7	003	005 007
	8	003	006 008
	9	003	006 009
	10	004	007 010
	11	004	008 011
	12	004	008 012

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