



General

Product Type	Constant Voltage Driver
Length (mm)	180
Width (mm)	122
Height (mm)	39
Housing Color	Black
Housing Material	Metal
Mounting	Surface mounted
Weight (g)	730

Electronics

Input Domain	DC
Input Voltage	12 ~ 24V DC
Output Voltage	12 ~ 24 V DC
Output Current (mA) max/output	4000
Output Current Max. (A)	48
Output Power (W)	576W @ 12V, 1152W @ 24V
Power Supply	N/A
LED Outputs	12

Lighting

Color Range	RGB
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Control

Output Signal	PWM-CV
Control	DMX
RDM Support	Yes
Dimming Range	0~100%
Driver Configuration	Digital
Number of Channels	12

Environmental

Operating Temperature	-30 ~ +65 °C
Ingress Protection	IP20

CE IP20 5 year warranty

Disclaimer

Due to the technical evolution and improvement of our products, the data provided in this document may be updated on a regular basis, and as such, confirmation of this information is strongly recommended prior to the order process. OneEightyOne is not responsible for any discrepancies in this document following changes in our products. We reserve the right to make technical changes to our products and to change information, at its sole discretion, without notice.



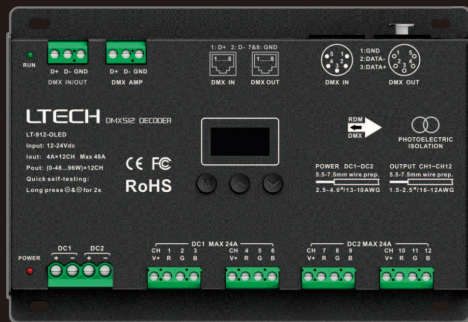
oneeighty
one.com

DMX512 DECODER

LT-912-OLED

12
CHANNELS

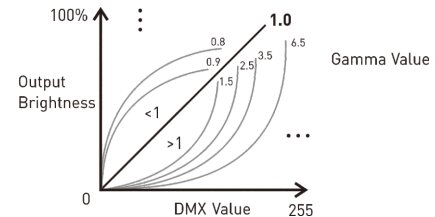
OLED display
8 bit / 16 bit
3 kinds of DMX interfaces
Dimming Curve: 0.1~9.9
Shortcut / Over load protection



www.ltech-led.com

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

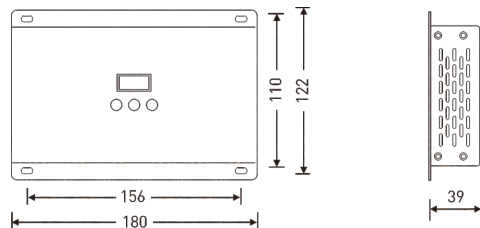
FC CE RoHS

(warranty)
5 years

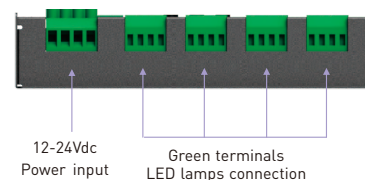
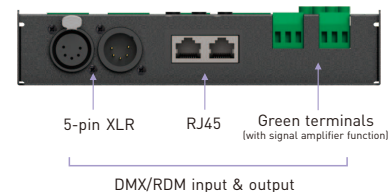
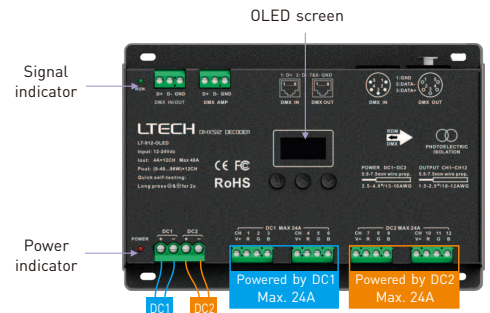


Product Size:

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.

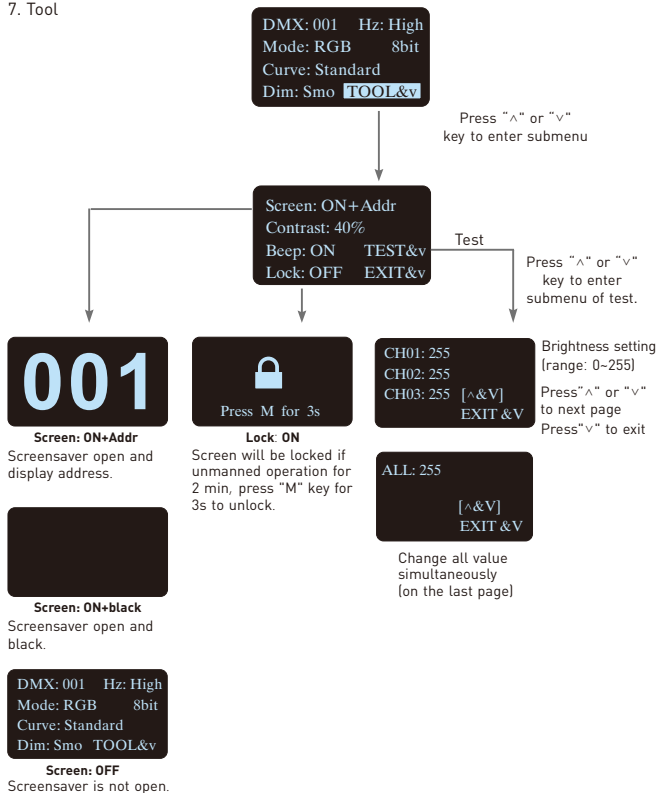
Optional : Std (standard)

Smo (smooth)

* It is recommended to use standard.

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

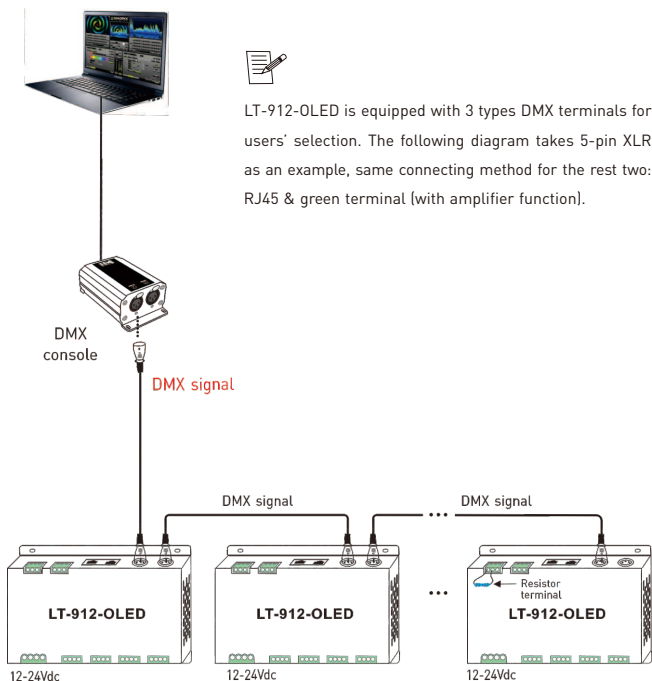
7. Tool



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

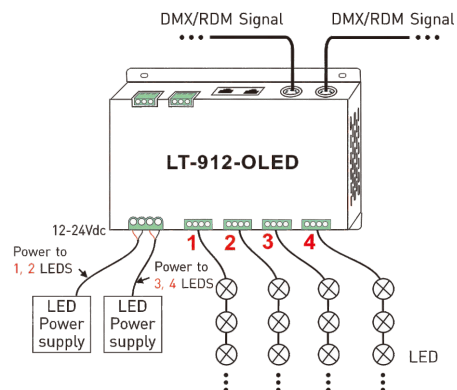
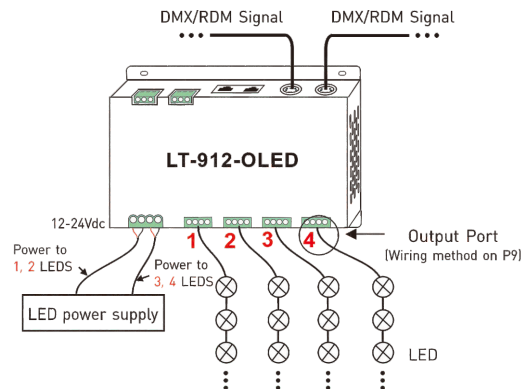
Wiring Diagram:

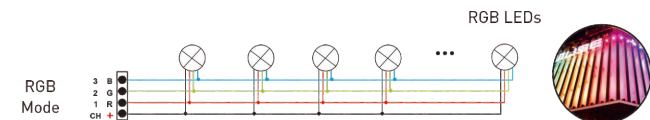
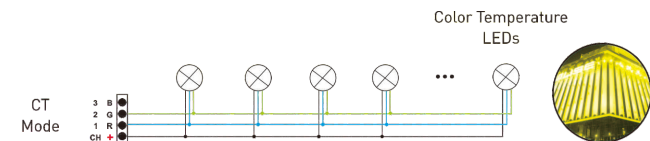
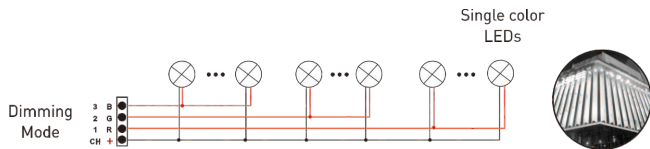
1. DMX console connection:



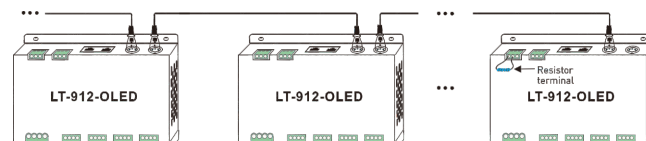
* If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each line.

2 Connecting LED lights:

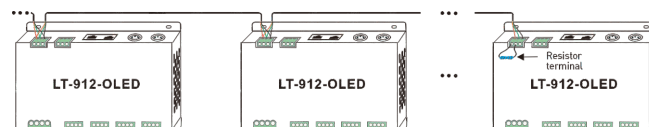




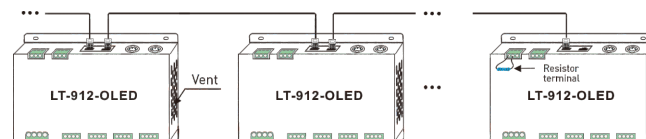
3. The connection diagram of 3 kinds of DMX/RDM terminals:



5-pin XLR Connected in Parallel



Green Terminal Connected in Parallel



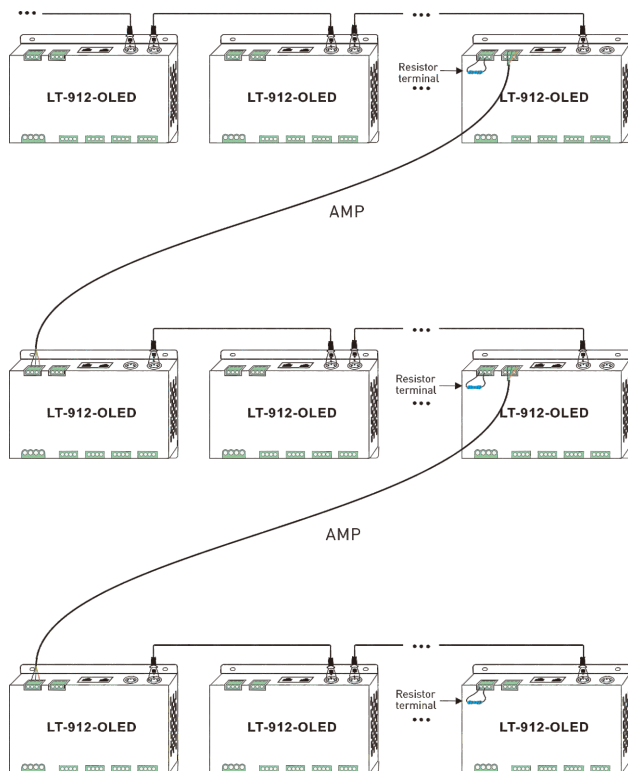
RJ45 Connected in Parallel

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	Mode		DIM	CT	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