LTECH

DMX512 DECODER

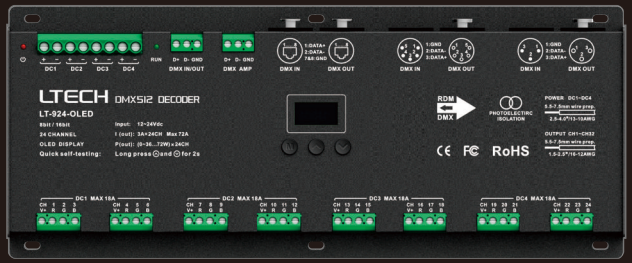
LT-924-OLED

24 CHANNELS

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

RDM DMX

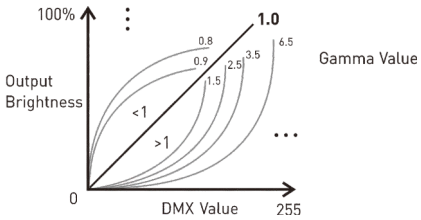
Photoelectric Isolation



www.ltech-led.com

Product Introduction:

1. Designed for Hi-power multiple channels application, 24 channels output, and Max. 3A current per channel, up to 1728W 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 4 kinds of DMX ports with signal isolation function: 3-pin XLR, 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.



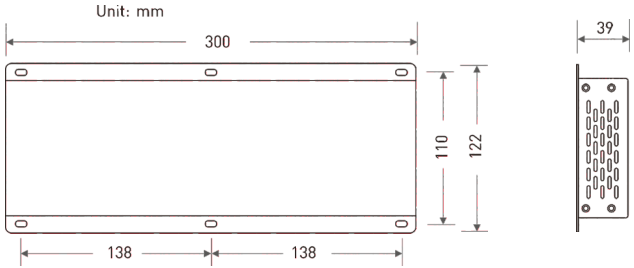
3-pin XLR | 5-pin XLR | RJ45 | RDM | Photoelectric Isolation | Shortcut Protection | Over load Protection | Display

Technical Specs:

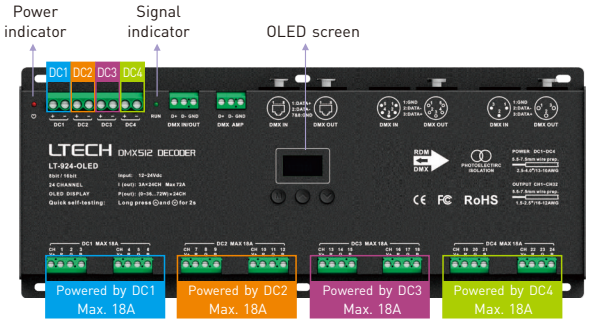
Model :	LT-924-OLED
Input Signal :	DMX512/RDM
Input Voltage :	12~24Vdc
Current Load :	3A × 24CH Max 72A
Output Power :	(0~36W...72W) × 24CH Max. 1728W
DMX Interface :	3-pin XLR, 5-pin XLR, RJ45, Green terminal
Control Mode :	Dimming/CT/RGB
Dimming Curve :	0.1~9.9
Grey Level :	8bit (256 levels) / 16bit (65536 levels)
Photoelectric Isolation :	Yes
Protection:	Shortcut / Over load
Working Temperature :	-30℃~65℃
Dimensions :	L300×W122×H39mm
Package Size :	L313×W127×H41mm
Weight (G.W.) :	1180g

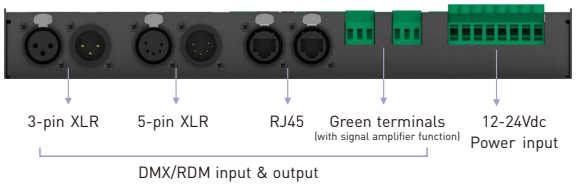
FC CE RoHS warranty 5 years ISO9001:2008

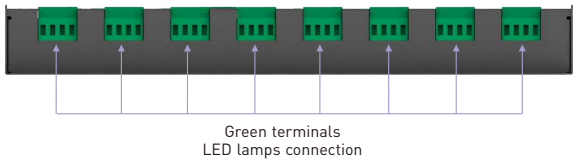
Product Size:



Main Component Description:



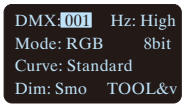




OLED Screen Interface:

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

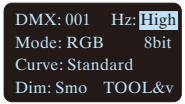
1. DMX Address Setting



Main page

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

2. PWM Frequency



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

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

No flicker in video camera.

Smooth and delicate, human eye is comfortable.

* It is recommended to use standard.

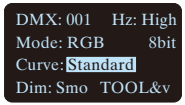
3. Mode

Press "^" or "v" key to choose.
Optional : Dim
CT
RGB

4. Grey Level

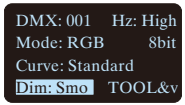
Press "^" or "v" key to choose.
Optional : 8bit
16bit (choose it if the master controller support this function)

5. Dimming Curve



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

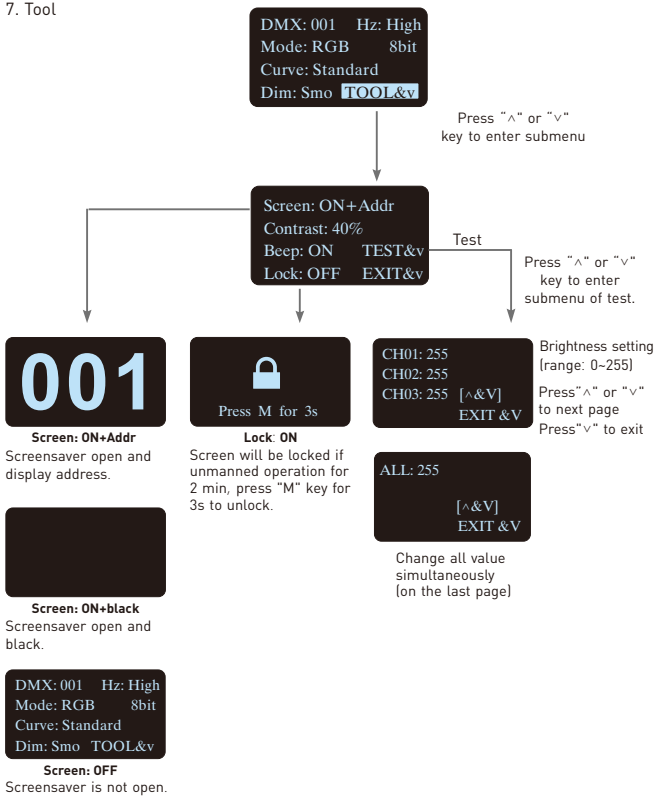


Press "^" or "v" key to choose.
Optional : Std (standard)
Smo (smooth)

* It is recommended to use standard.

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

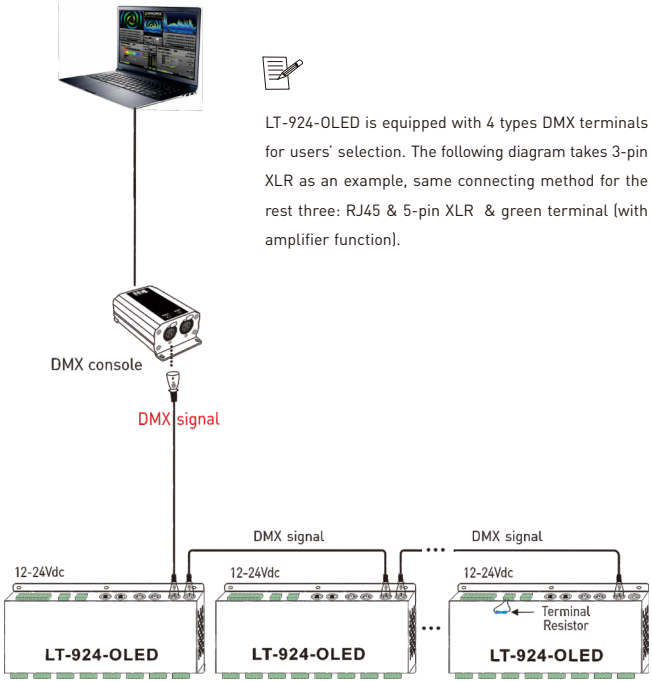
7. Tool



✻ Fast self-testing function: press "∧"or "∨" keys simultaneously for 2-3 seconds under any page, decoder will enter self-testing function.

Wiring Diagram:

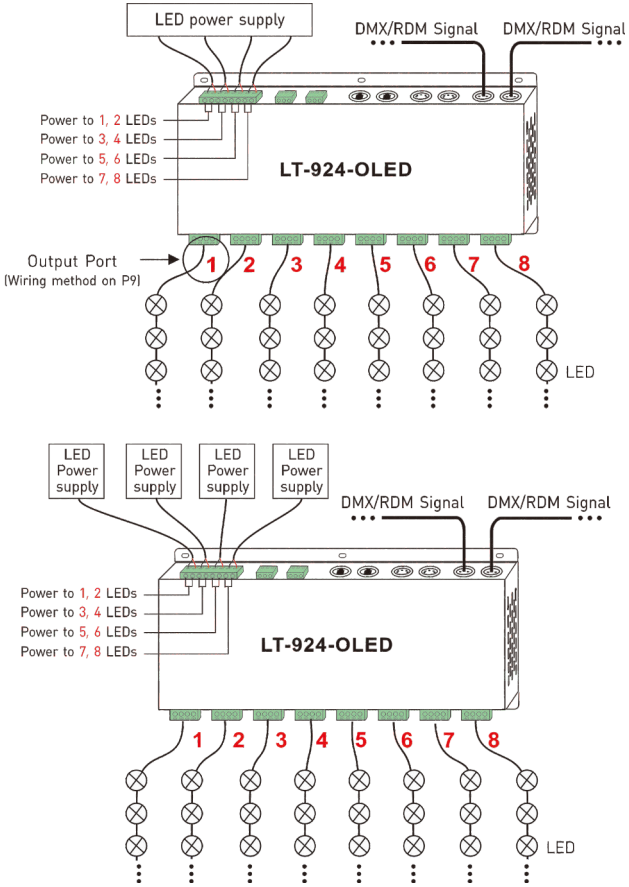
1. DMX console connection:



LT-924-OLED is equipped with 4 types DMX terminals for users' selection. The following diagram takes 3-pin XLR as an example, same connecting method for the rest three: RJ45 & 5-pin XLR & green terminal (with amplifier function).

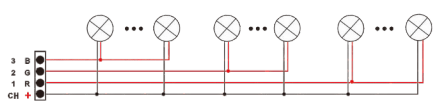
* If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each line.

2 Connecting LED lights:



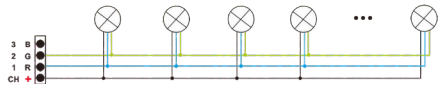
Single color LEDs

Dimming Mode



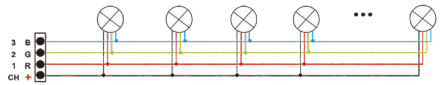
Color Temperature LEDs

CT Mode

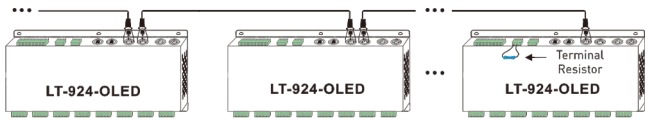


RGB LEDs

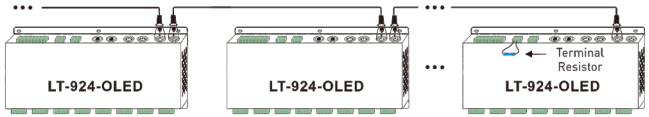
RGB Mode



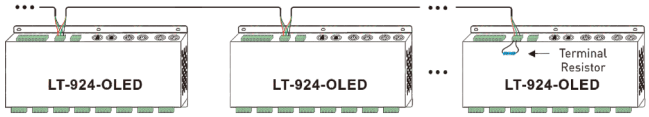
3. The connection diagram of 4 kinds of DMX/RDM terminals:



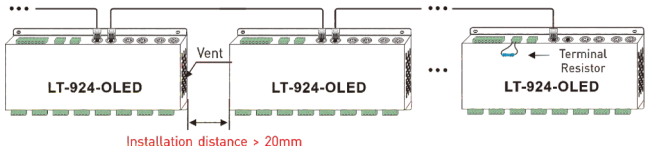
5-pin XLR Connected in Parallel



3-pin XLR Connected in Parallel



Green Terminal Connected in Parallel



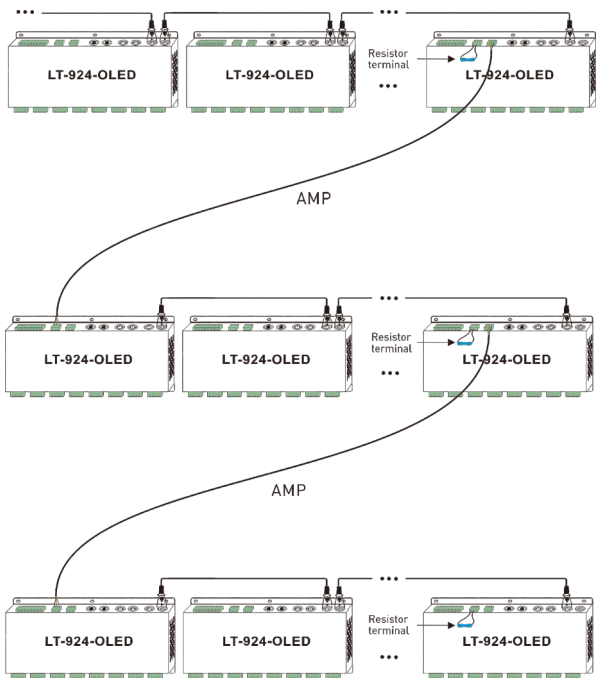
RJ45 Connected in Parallel

These 4 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		8	16	24
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
	13	005	009	013
	14	005	010	014
	15	005	010	015
	16	006	011	016
	17	006	012	017
	18	006	012	018
	19	007	013	019
	20	007	014	020
	21	007	014	021
	22	008	015	022
	23	008	016	023
	24	008	016	024

Mode		DIM	CT	RGB
Address Quantity		16	32	48
Resolution		16bit	16bit	16bit
Channel	1	001 002	001 002	001 002
	2	001 002	003 004	003 004
	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
	13	009 010	017 018	025 026
	14	009 010	019 020	027 028
	15	009 010	019 020	029 030
	16	011 012	021 022	031 032
	17	011 012	023 024	033 034
	18	011 012	023 024	035 036
	19	013 014	025 026	037 038
	20	013 014	027 028	039 040
	21	013 014	027 028	041 042
	22	015 016	029 030	043 044
	23	015 016	031 032	045 046
	24	015 016	031 032	047 048

Update Time: 2017.04.20_A1