

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
Short circuit/Over current/Over-heat protection



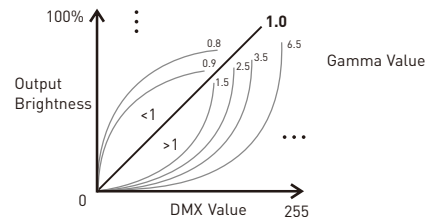
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Product introduction

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 touch buttons.
3. 3 kinds of mode optional: single color, color temperature and 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 firmware upgrade function.
7. With short circuit, over current and over-heat protection, as well as warning function when fault.
8. With power-on state management and fast self-testing function.
9. 16bit (65536 levels) / 8bit (256 levels) grey level optional.
10. Optional for standard, linear, LOG or custom 0.1-9.9 dimming curve.



3-pin XLR



5-pin XLR



RJ45



RDM



Photoelectric
isolation



Short circuit
protection



Over-heat
protection



Over current
protection



Display

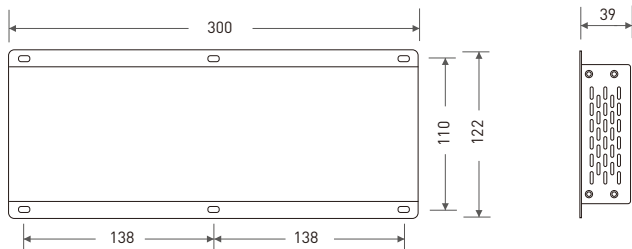
Technical specs:

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:	Short circuit / Over current / Over-heat
Working Temperature :	–30°C–65°C
Dimensions :	L300×W122×H39mm
Package Size :	L313×W127×H41mm
Weight (G.W.) :	1180g

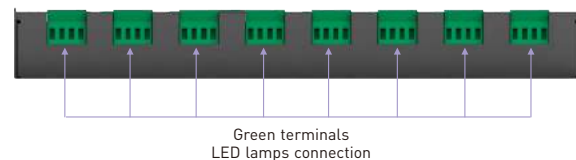
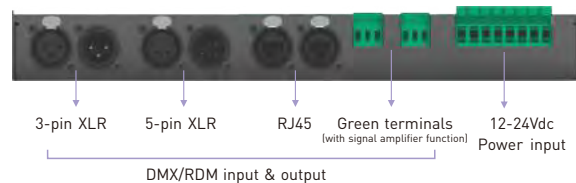
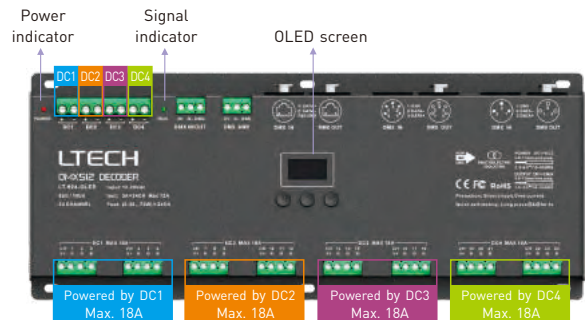


Product size

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

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 scale

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
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 "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

DMX: 001 Hz: High
Mode: RGB 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 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 "v" to next page
Press "v" to exit

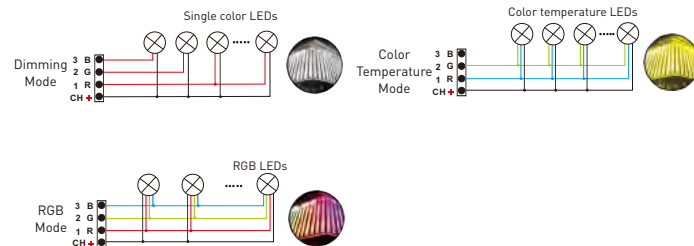
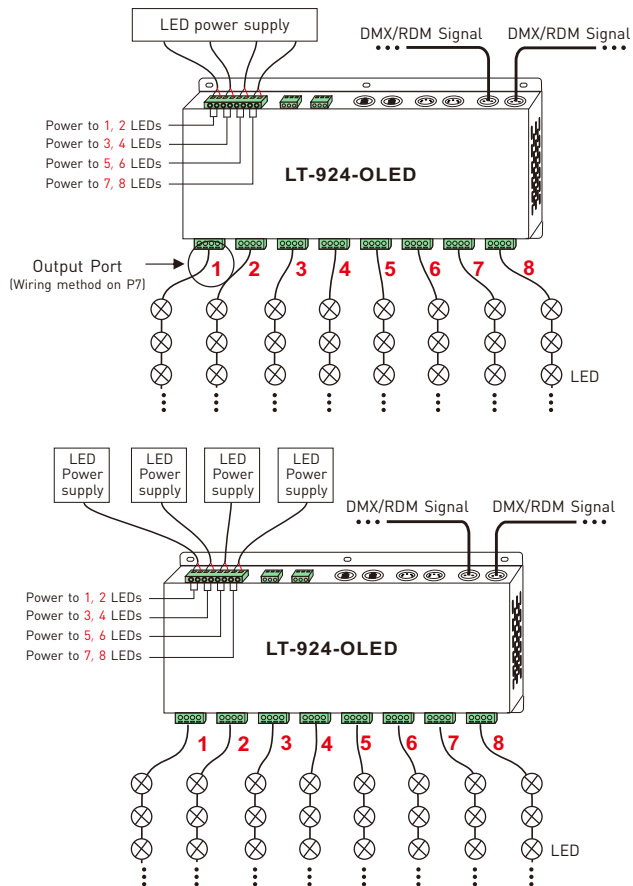
ALL: 255
[^&v]
EXIT &v

Change all value simultaneously (on the last page)

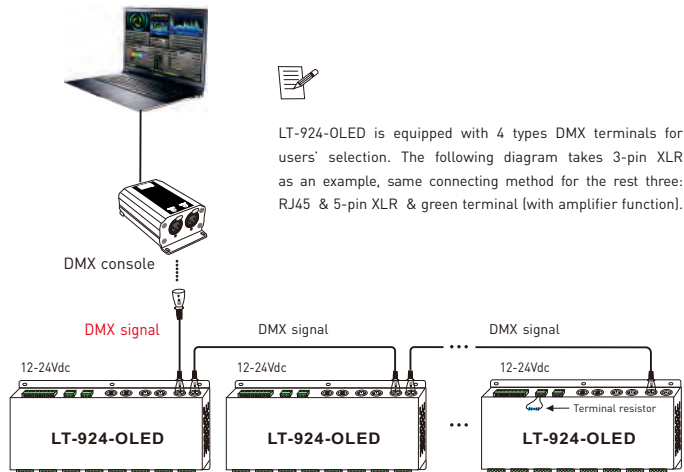
* Fast self-testing function: press "^" or "v" keys simultaneously for 2-3 seconds under any page, decoder will enter self-testing function.

Wiring diagram

1 Connecting LED lights:

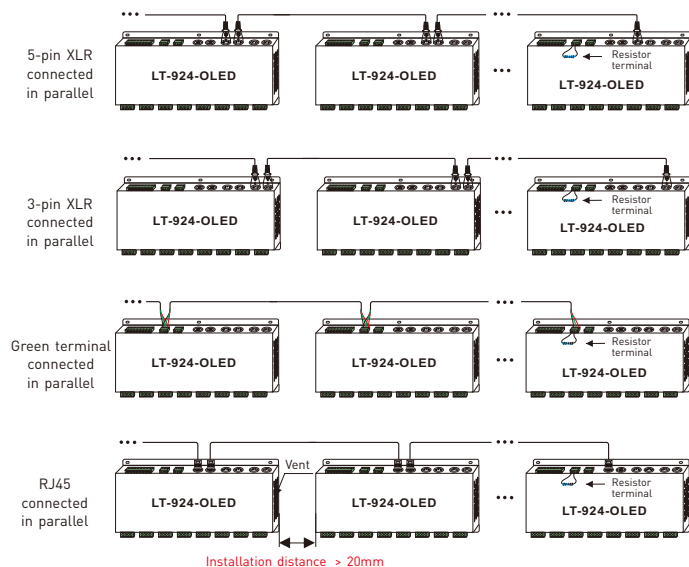


2. DMX console connection:



* 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 4 kinds of DMX/RDM terminals:

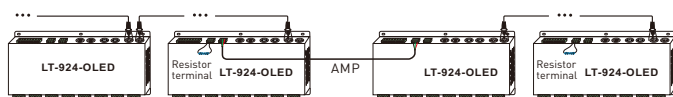


These 4 terminals can be connected in a mixed way.

*** 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.**

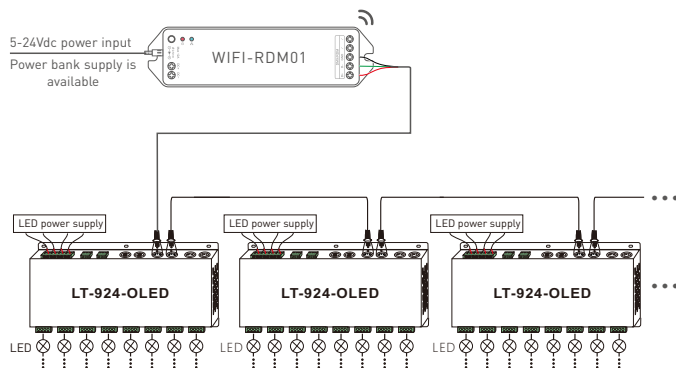


Address setting table

Mode		DIM	CT	RGB
Address Quantity		8	16	24
Resolution		8bit	8bit	8bit
Channel	1	001 002	001 002	001 002
	2	001 002	002 002	002 002
	3	001 002	002 003	003 003
	4	002 002	003 004	007 008
	5	002 002	004 005	009 010
	6	002 002	004 006	011 012
	7	003 003	005 007	013 014
	8	003 003	006 008	015 016
	9	003 003	006 009	017 018
	10	004 004	007 010	019 020
	11	004 004	008 011	021 022
	12	004 004	008 012	023 024
	13	005 005	009 013	025 026
	14	005 005	010 014	027 028
	15	005 005	010 015	029 030
	16	006 006	011 016	031 032
	17	006 006	012 017	033 034
	18	006 006	012 018	035 036
	19	007 007	013 019	037 038
	20	007 007	014 020	039 040
	21	007 007	014 021	041 042
	22	008 008	015 022	043 044
	23	008 008	016 023	045 046
	24	008 008	016 024	047 048

Work with RDM editor

LT-924-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-924-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", edited 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.