

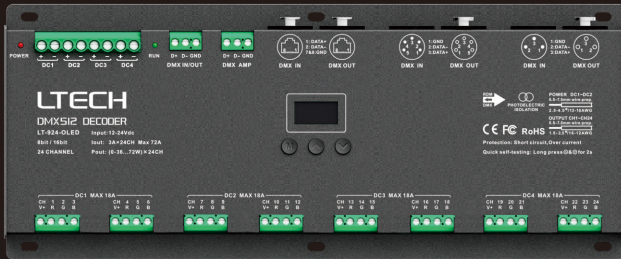
LTECH

DMX512 DECODER

LT-924-OLED

24
CHANNELS

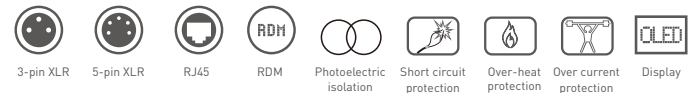
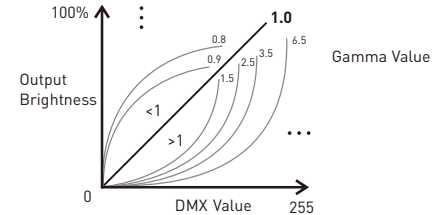
OLED display
8 bit / 16 bit
4 kinds of DMX interfaces
Dimming Curve: 0.1-9.9
Short circuit/Over current/Over-heat protection



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 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.



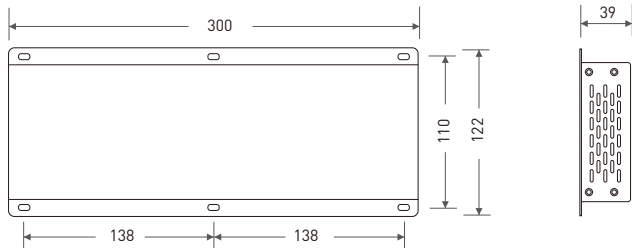
Technical specs:

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

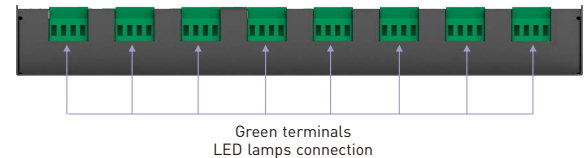
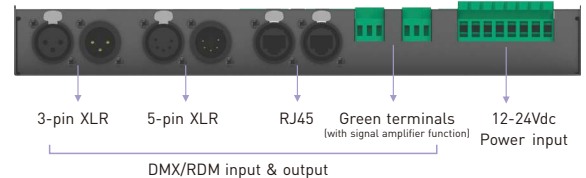
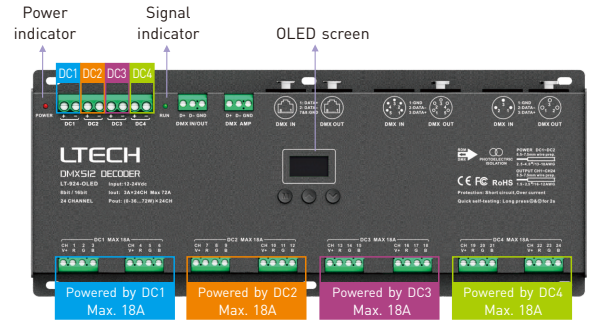


Product size

Unit: mm



Main component description:

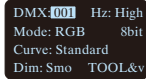


OLED screen interface:



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

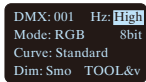
1. DMX address setting



Main page

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

2. PWM frequency



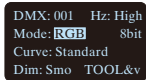
Press "^" or "v" key to choose. **No flicker in video camera.**

Optional :

Std (standard)
 High
 Mid (middle)
 Low

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

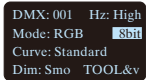
3. Mode



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

Optional : Dim
 CT
 RGB

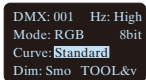
4. Grey scale



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

Optional : 8bit
 16bit (choose it if the master controller support this function)

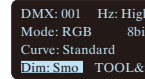
5. Dimming curve



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

Optional : Standard
 Linear
 LOG
 0.1-9.9
 It is recommended to use standard, 0.1-9.9 is for special requirements.

6. Enhance Dimming



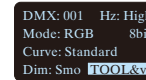
Press "^" or "v" key to choose.

Optional : Std (standard)
 Smo (smooth)

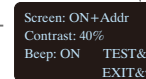
* It is recommended to use standard.

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

7. Tool



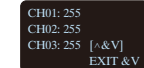
Press "^" or "v" key to enter submenu



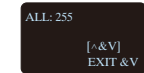
Press "^" or "v" key to enter submenu of test.



Screen: ON+Addr
 Screensaver open and display address if undo for 2 minutes.



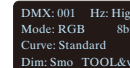
Brightness setting (range: 0-255)
 Press "^" or "v" to next page
 Press "v" to exit



Change all value simultaneously (on the last page)



Screen: ON+black
 Screensaver open and black if undo for 2 minutes.

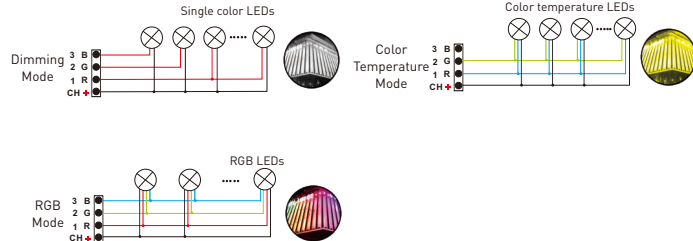
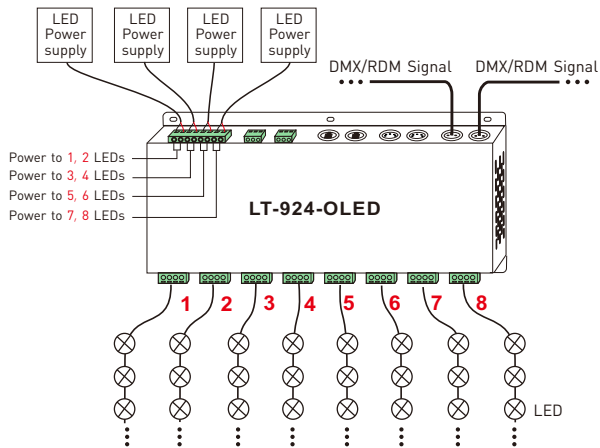
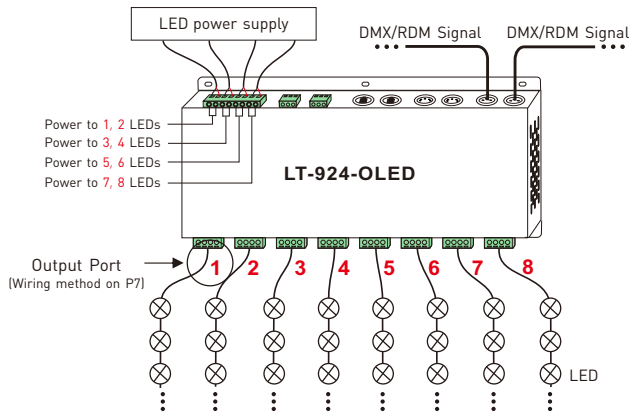


Screen: OFF
 Screensaver not enable.

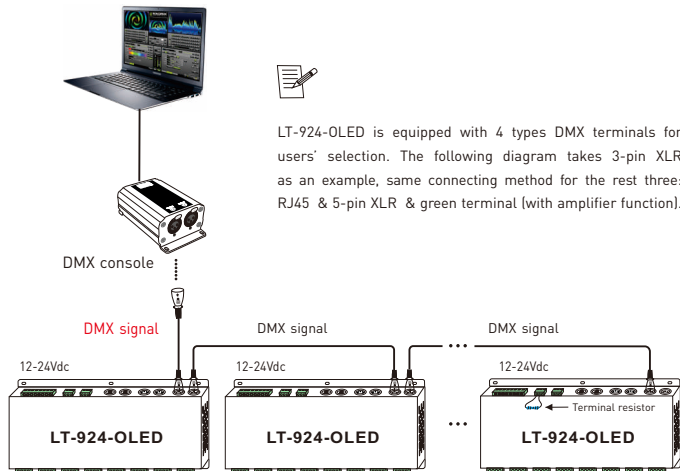
* Fast self-testing function: press "^" or "v" keys simultaneously for 2-3 seconds under any page, decoder will enter self-testing function.

Wiring diagram

1 Connecting LED lights:

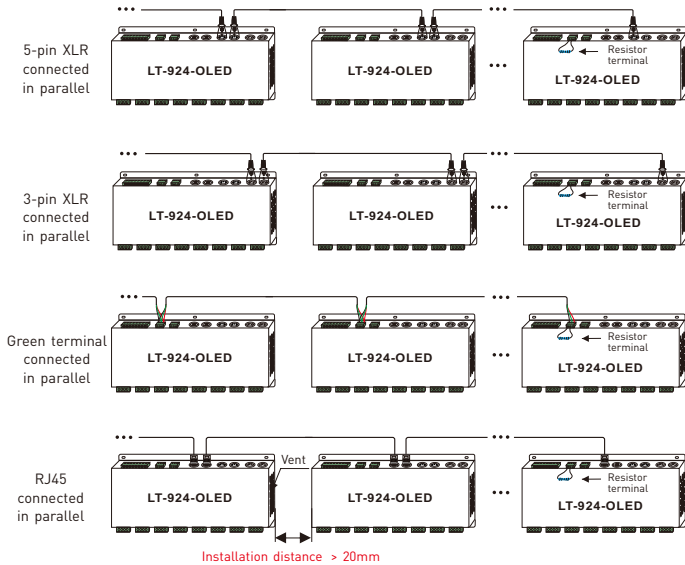


2. DMX console connection:



* 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:

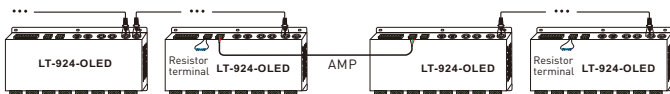


These 4 terminals can be connected in a mixed way.

- * **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

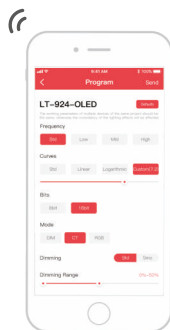
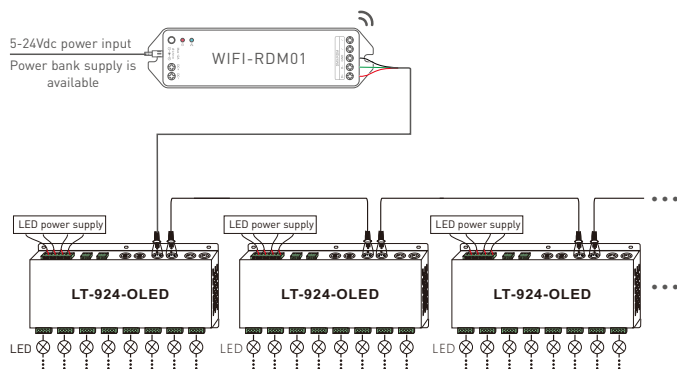
Mode	DIM	CT	RGB
Address Quantity	16	32	48
Resolution	16bit	16bit	16bit

Channel	Mode	DIM	CT	RGB
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	

Channel	Mode	DIM	CT	RGB
1	001	002	001	001
2	001	002	003	003
3	001	002	003	005
4	003	004	005	007
5	003	004	007	009
6	003	004	007	011
7	005	006	009	013
8	005	006	011	015
9	005	006	011	017
10	007	008	013	019
11	007	008	015	021
12	007	008	015	023
13	009	010	017	025
14	009	010	019	027
15	009	010	019	029
16	011	012	021	031
17	011	012	023	033
18	011	012	023	035
19	013	014	025	037
20	013	014	027	039
21	013	014	027	041
22	015	016	029	043
23	015	016	031	045
24	015	016	031	047

Work with RDM editor

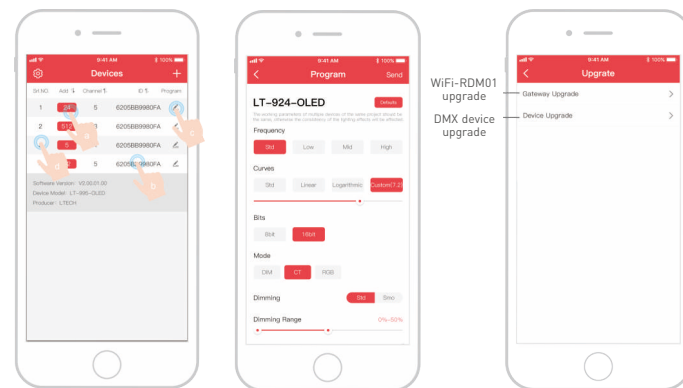
LT-924-OLED can work with LTECH RDM editor (Model: WiFi-RDM01) to realize changing the parameters by long-range setting, wiring diagram as below:



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.



- click "Add", edited the address in corresponding box.
- Click "ID", get more product details.
- Click " ", enter edited interface
- Click "No.", issue the recognizing command.

Supporting WiFi-RDM01 upgrade and DMX driver upgrade.