

LTECH

DMX512 DECODER

LT-924-OLED

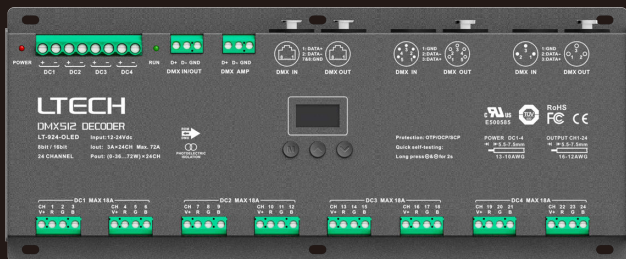
24
CHANNELS

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

CE **RoHS**
E500585

RDM
DMX

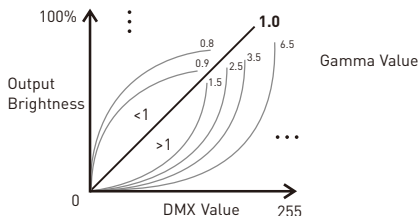
Photoelectric
isolation



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 touch buttons.
3. 3 kinds of modes available: DIM, CT, RGB.
4. 3-pin XLR, 5-pin XLR, RJ45 and green terminal DMX interface with photoelectric isolation, improve signal transmission efficiency and anti-interference ability, the green terminal also has signal amplifier function.
5. With RDM remote management protocol, the operations can be completed via the RDM master console, such as parameters browsing & settings, DMX address settings, equipment recognition, etc.
6. With firmware upgrade function.
7. With short circuit, over current and over temp. protection, as well as warning function when a fault occurs.
8. With power-on state management and fast self-testing function.
9. 16bit (65536 levels) / 8bit (256 levels) grey level available.
10. Available for standard, linear, LOG or custom 0.1-9.9 dimming curve.



3-pin XLR



5-pin XLR



RJ45



RDM

Photoelectric
isolationShort circuit
protectionOverheat
protectionOver current
protection

Display

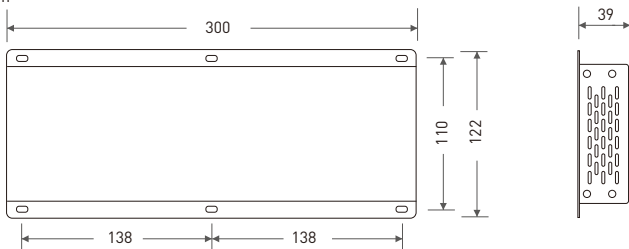
Technical specs

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 interfaces :	3-pin XLR, 5-pin XLR, RJ45, Green terminal
Control modes :	DIM/CT/RGB
Dimming curves :	0.1~9.9, standard, linear, LOG
Grey level :	8bit (256 levels) / 16bit (65536 levels)
Photoelectric isolation :	Yes
Protection :	Short circuit / Overheat / Over current protection, recover automatically.
Working temperature :	-30°C~65°C
Dimensions :	300×122×39mm(L×W×H)
Package size :	313×127×41mm(L×W×H)
Weight (G.W.) :	1180g

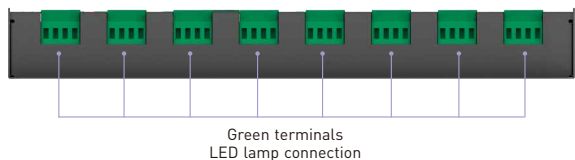
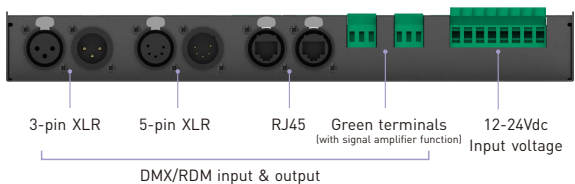
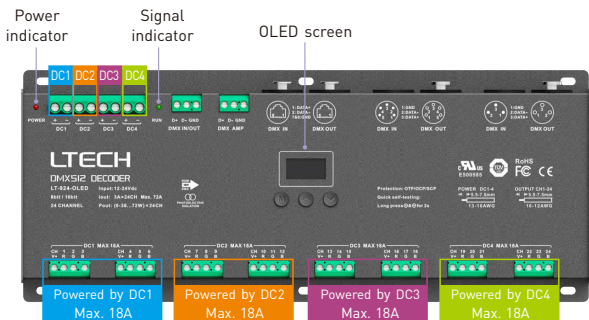


Product size

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 settings

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

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

Main page

2. PWM frequency

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

Press "^" or "v" key to choose. **No flicker in video camera.**
 Available : Std (standard)
 High
 Mid (middle)
 Low

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

3. Modes

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

Press "^" or "v" key to choose.
 Available : DIM
 CT/CT2
 RGB

4. Grey scale

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

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

5. Dimming curves

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

Press "^" or "v" key to choose.
 Available : **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 "∨" key to choose.

Available : Std (standard)

Smo (smooth)

* It is recommended to use standard.

Smo: This option with smooth processing, realizes flicker-free dimming and smooth dynamic effects.

7. Tool

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

Press "∧" or "∨" key to enter submenu.

```
Screen: ON+Addr
Contrast: 40%
Beep: ON TEST&v
EXIT&v
```

Press "∧" or "∨" key to enter submenu of test.

001

Screen: ON+Addr

Screensaver open and display address without operating in two minutes .

Screen: ON+black

Screensaver open and black without operating in two 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 [∧&∨]
EXIT &∨
```

Brightness setting (range: 0-255)
Press "∧" or "∨" to next page.
Press "∨" to exit.

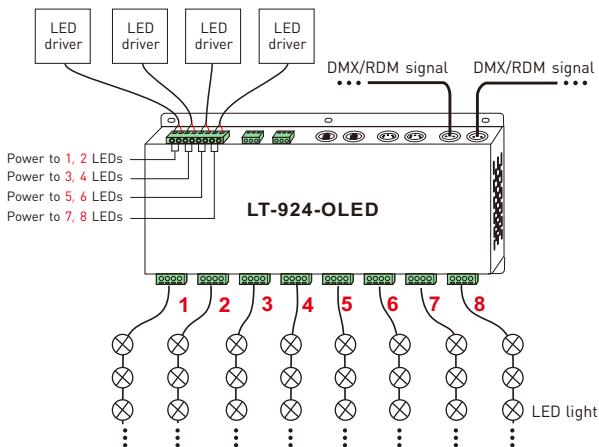
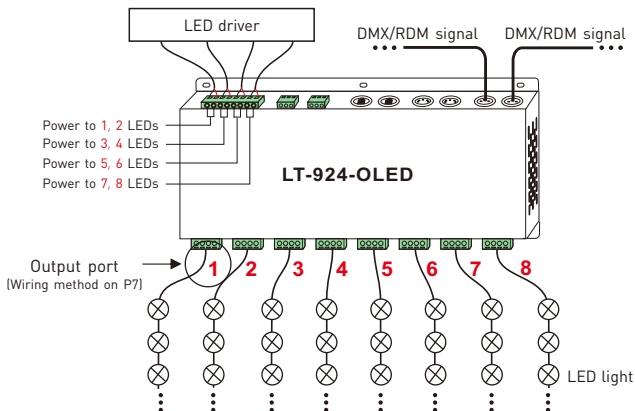
```
ALL: 255
[∧&∨]
EXIT &∨
```

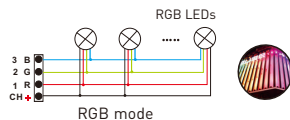
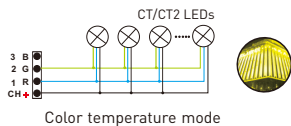
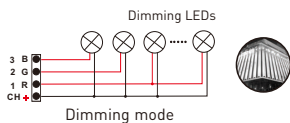
Change all value simultaneously. (on the last page)

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

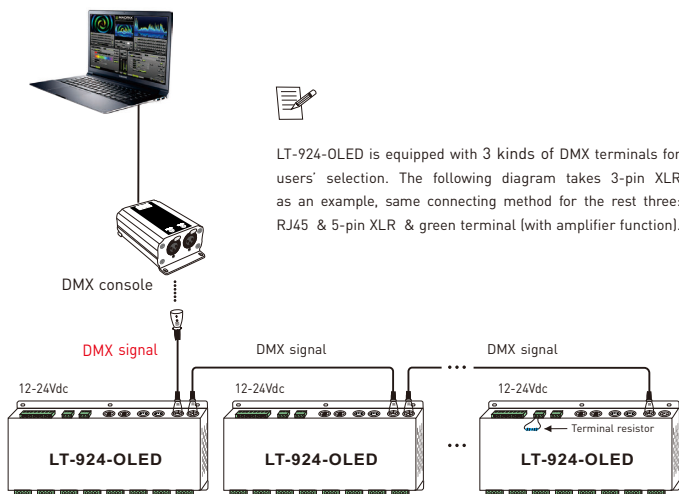
Wiring diagram

1. Connecting LED lights:



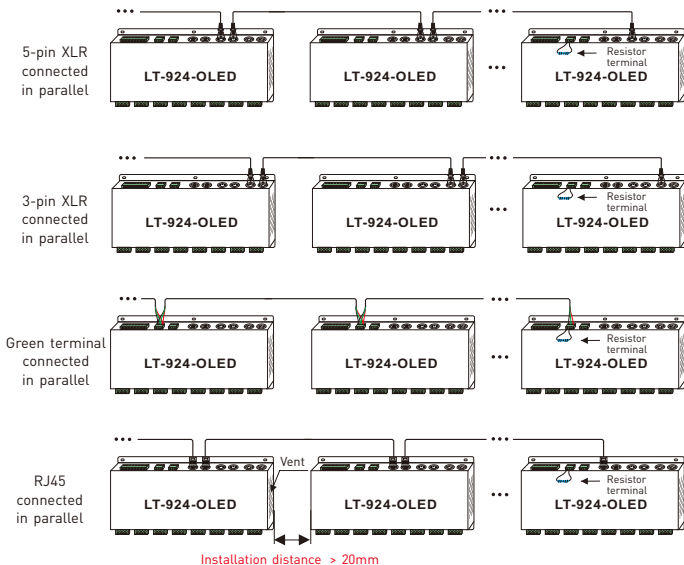


2. DMX console connection:



* 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:

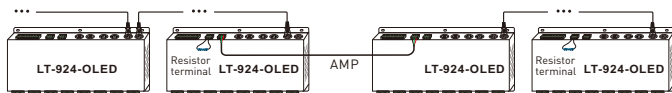


These 4 terminals can be connected in a mixed way.

- * **Installation attentions:** Please reserve enough ventilation distance between decoders (>20mm), be sure not to block the vent, or it 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

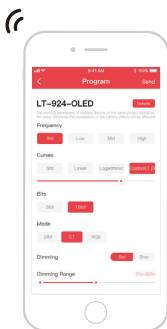
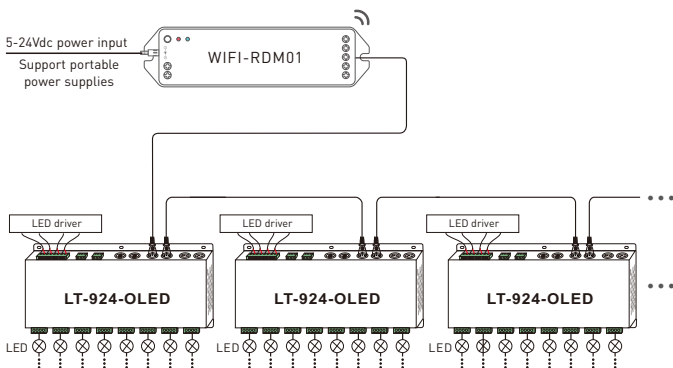
Mode	DIM	CT/CT2	RGB
Address quantity	8	16	24
Resolution	8bit	8bit	8bit
Channel	1	001	001 001
	2	001	002 002
	3	001	002 003
	4	002	003 004
	5	002	004 005
	6	002	004 006
	7	003	005 007
	8	003	006 008
	9	003	006 009
	10	004	007 010
	11	004	008 011
	12	004	008 012
	13	005	009 013
	14	005	010 014
	15	005	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/CT2	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

* When you select CT2, the DMX address represents brightness, color temperature and constant power output respectively.

Work with RDM editor

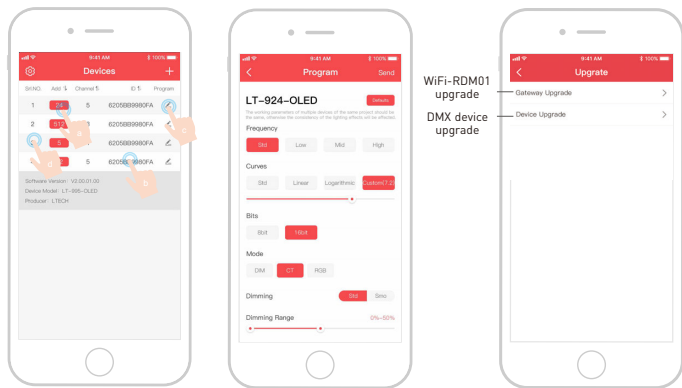
LT-924-OLED can work with LTECH RDM editor (Model: WiFi-RDM01) to realize changing the parameters by long-range setting, wiring diagram as below:



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", edit 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.

* This manual is subject to changes without further notice.
 Product functions depend on the goods.
 Please feel free to contact our official distributors if you have any question.