LTECH

DMX512 DECODER

LT-905-OLED

5 CHANNELS

OLED display
8 bit / 16 bit
2 kinds of DMX interfaces
Dimming curve: 0.1~9.9
Short circuit/Over load/Over-heat protection

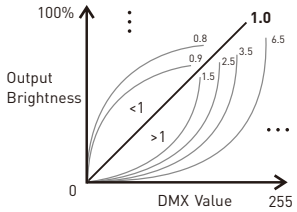
RDM
DMX

Photoelectric isolation

www.ltech-led.com

Product introduction:

1. Designed with 5 channels output, and Max. 5A per channel, up to 600W output.
2. Easy operation with OLED display and the touch buttons.
3. 5 modes optional: dimming, CT, RGB, RGBW, RGBWY.
4. 5-pin XLR, RJ45 DMX interface with photoelectric isolation.
5. With RDM remote management protocol, the operations can be completed via the RDM editor, 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, liner, LOG or custom 0.1-9.9 dimming curve



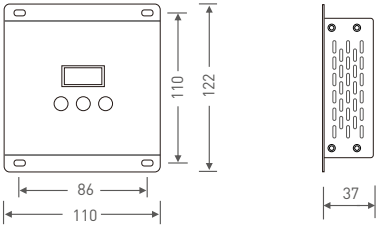
5-pin XLR | RJ45 | RDM | Photoelectric isolation | Short circuit protection | Over current protection | Over-heat protection | Display

Technical specs:

Model:	LT-905-OLED
Input signal:	DMX512/RDM
Input voltage:	12~24Vdc
Current load:	5A × 5CH Max. 25A
Output power:	(0~60W...120W) × 5CH Max. 600W
DMX interface:	5-pin XLR, RJ45
Control mode:	Dimming/CT/RGB/RGBW/RGBWY
Dimming curve:	0.1~9.9
Grey level:	8bit (256 levels) /16bit (65536 levels)
Protection:	Short circuit / Over load / Over-heat
Photoelectric isolation:	Yes
Working temp.:	-30℃~65℃
Dimensions:	L122×W110×H37mm
Package size:	L127×W123×H41mm
Weight (G.W.):	550g

Product size:

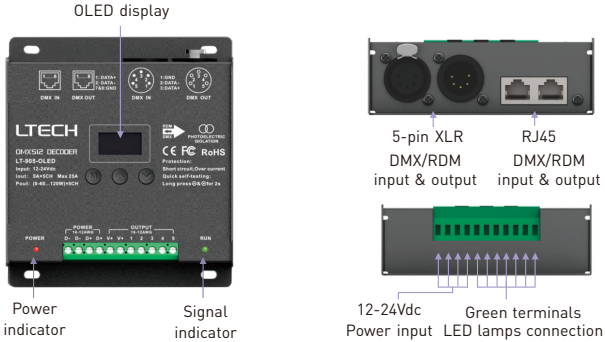
Unit: mm



warranty 5 years

ISO9001:2008

Main component description:



OLED display interface:

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

1. DMX address setting

Main page

Press "∧" or "∨" key to set DMX address.
Range: 001~512

2. PWM frequency

Press "∧" or "∨" key to choose.

Optional :

No flicker in video camera.

Std (standard)
High
Mid (middle)
Low

Smooth and delicate, human eye is comfortable.

✻ It is recommended to use standard.

3. Mode

Press "∧" or "∨" key to choose.

Optional: Dim / CT / RGB / RGBW / RGBWY

4. Grey scale

Press "∧" or "∨" key to choose.

Optional : 8bit

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

5. Dimming curve

Press "∧" or "∨" key to choose.

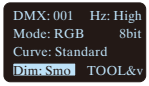
Optional : Standard

Linear

0.1~9.9

It is recommended to use standard, 0.1-9.9 is for special requirements.

6. Enhance dimming



Press "∧" or "∨" key to choose.

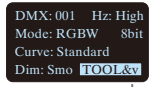
Optional : Std (standard)

Smo (smooth)

✻ It is recommended to use standard.

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

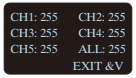
7. Tool



Press "∧" or "∨" key to enter submenu

Test

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



Brightness setting (range: 0~255)

Press"∨" to exit

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.

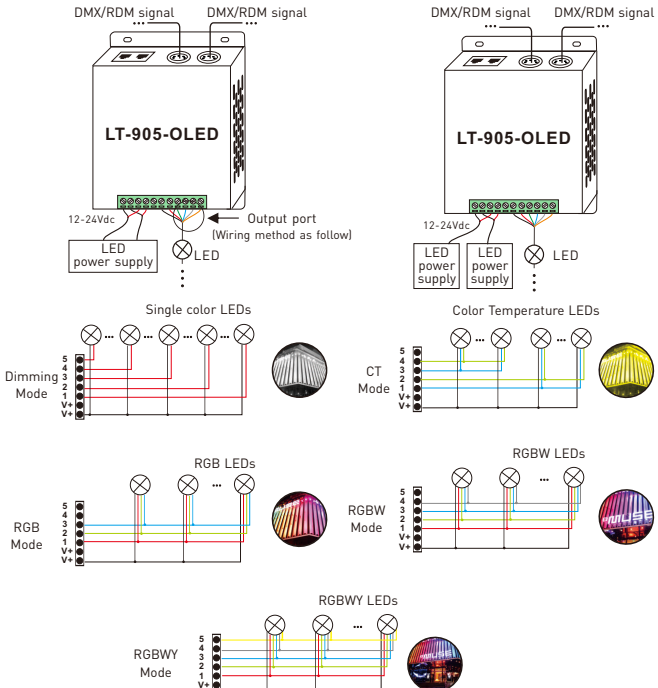
Screen: OFF

Screensaver not enable.

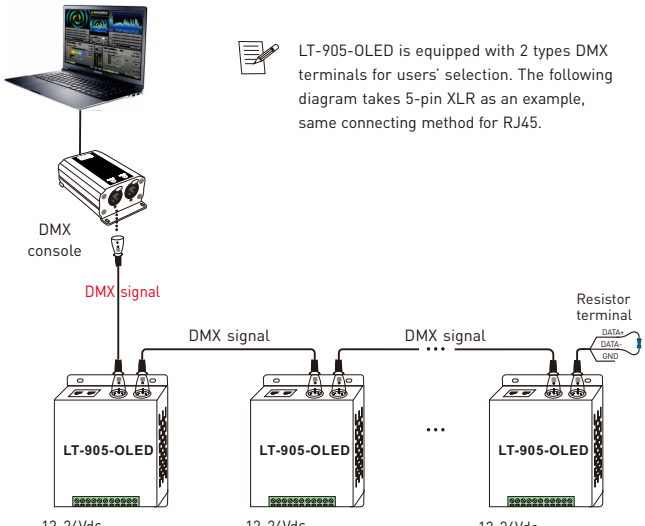
✻ Fast self-testing function: press "∧"or "∨" keys simultaneously for 2-3 seconds under any page, decoder will enter self-testing function.

Wiring diagram:

1 Connecting LED lights:



2. DMX console connection:

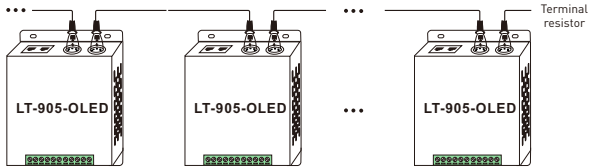


LT-905-OLED is equipped with 2 types DMX terminals for users' selection. The following diagram takes 5-pin XLR as an example, same connecting method for RJ45.

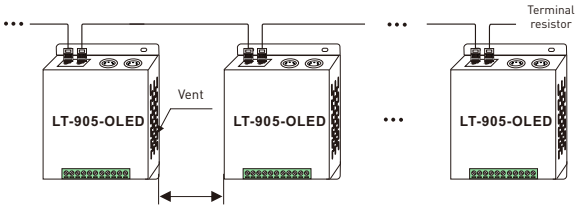
* An amplifier is needed if more than 32 decoders are connected or use overlong signal line, signal amplification should not be more than 5 times continuously.

* 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 2 kinds of DMX/RDM terminals:



5-pin XLR connected in parallel



RJ45 connected in parallel

These 2 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.

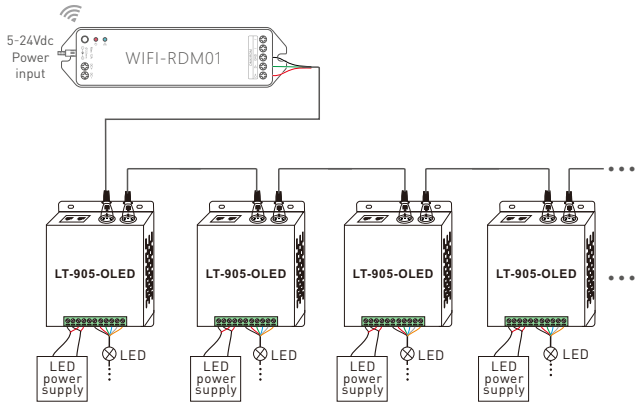
Address setting table

Mode		DIM	CT	RGB	RGBW	RGBWY
Address Quantity		1	2	3	4	5
Resolution		8bit	8bit	8bit	8bit	8bit
Channel	1	001	001	001	001	001
	2	001	002	002	002	002
	3	001	001	003	003	003
	4	001	002	003	004	004
	5	001	002	003	004	005

Mode		DIM	CT	RGB	RGBW	RGBWY
Address Quantity		2	4	6	8	10
Resolution		16bit	16bit	16bit	16bit	16bit
Channel	1	001 002	001 002	001 002	001 002	001 002
	2	001 002	003 004	003 004	003 004	003 004
	3	001 002	001 002	005 006	005 006	005 006
	4	001 002	003 004	005 006	007 008	007 008
	5	001 002	003 004	005 006	007 008	009 010

Work with RDM editor

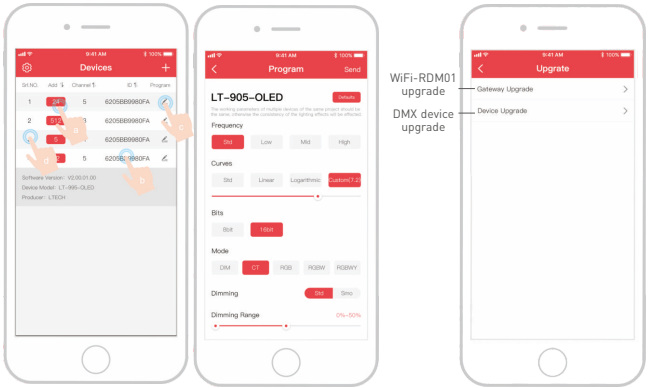
LT-905-OLED can work with LTECH RDM editor (Model: WiFi-RDM01) to realize changing the parameters by long-range setting, wiring diagram as below:



RDM editor App interface instruction

Download the App, setting the LT-905-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.

Update Time: 2018.06.06_A3