

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 current / Overheat protection



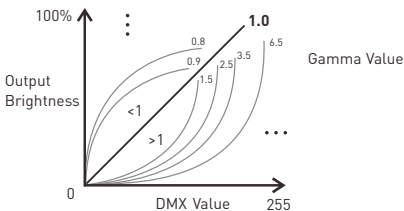

Photoelectric
isolation



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 available: DIM, CT, RGB, RGBW, RGBWY.
4. 5-pin XLR, RJ45 DMX interface with photoelectric isolation, improve signal transmission efficiency and anti-interference ability.
5. With RDM remote management protocol, the operations can be completed via the RDM editor, such as parameters browsing & settings, DMX address settings, equipment recognition, etc.
6. With firmware upgrade function.
7. With short circuit, over current and overheat 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, liner, LOG or custom 0.1-9.9 dimming curve.



5-pin XLR



RJ45



RDM

Photoelectric
isolationShort circuit
protectionOver current
protectionOverheat
protection

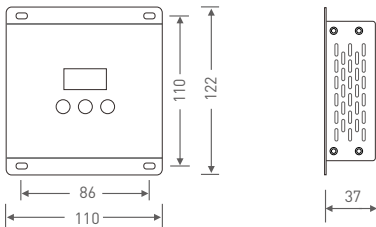
Display

Technical specs

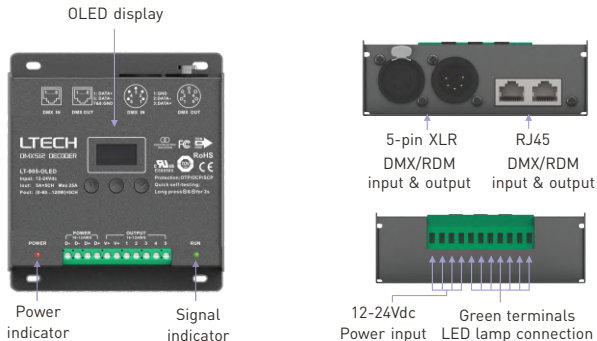
Model:	LT-905-OLED	Photoelectric isolation:	Yes
Input signal:	DMX512/RDM	Working temp.:	-30°C~65°C
Input voltage:	12~24Vdc	Dimensions:	122×110×37mm(L×W×H)
Current load:	5A × 5CH Max. 25A	Package size:	127×123×41mm(L×W×H)
Output power:	(0~60W...120W) × 5CH Max. 600W	Weight (G.W.):	550g
DMX interfaces:	5-pin XLR, RJ45		
Control modes:	DIM/CT/RGB/RGBW/RGBWY		
Dimming curves:	0.1~9.9, standard, linear, LOG		
Grey level:	8bit (256 levels) /16bit (65536 levels)		
Protection:	Short circuit / Overheat / Over current protection, recover automatically.		

Product size

Unit: mm



Main component description

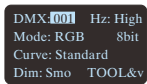


OLED display interface



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

1. DMX address settings



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.

Option :

Std (standard)

High

Mid (middle)

Low

No flicker in video camera.

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

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 / RGBW / RGBWV

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 it 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 “v” key to choose.

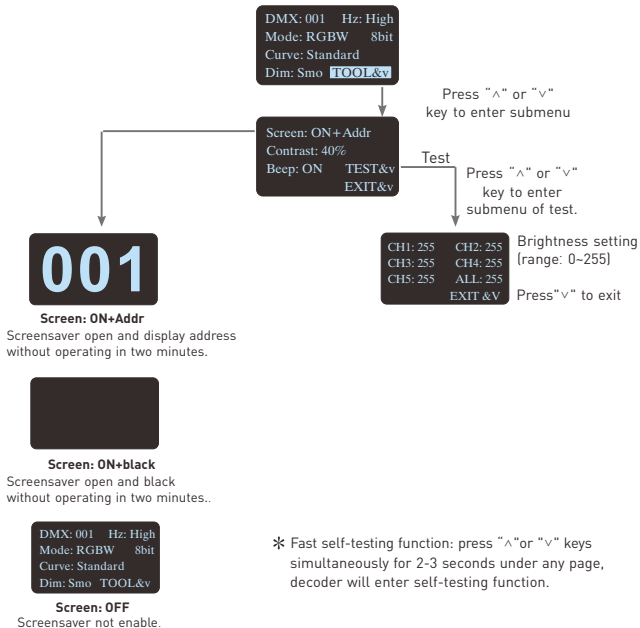
Available : **Std (standard)**

Smo (smooth)

* It is recommended to use standard.

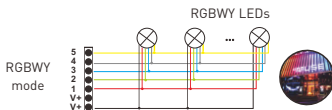
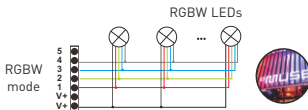
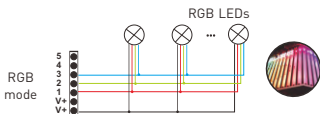
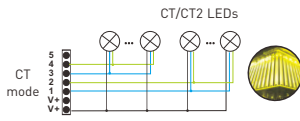
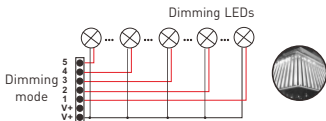
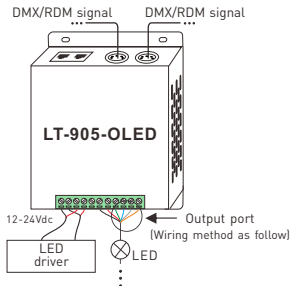
Smo: This option with smooth processing, realizes flicker-free dimming and smooth dynamic effects.

7. Tool

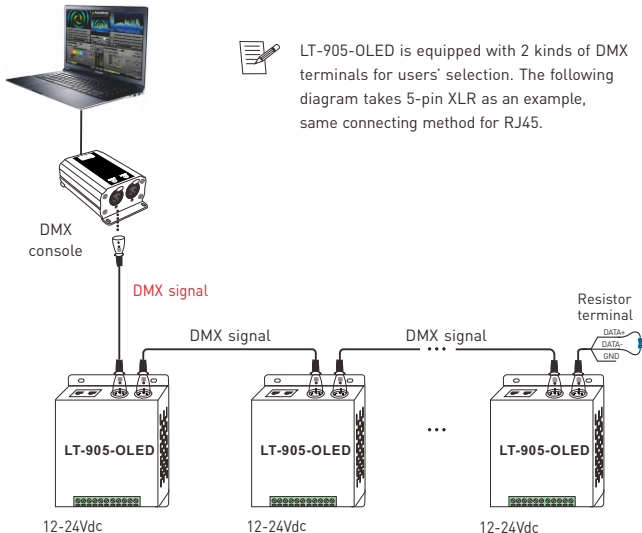


Wiring diagram

1. Connecting LED lights:



2. DMX console connection:

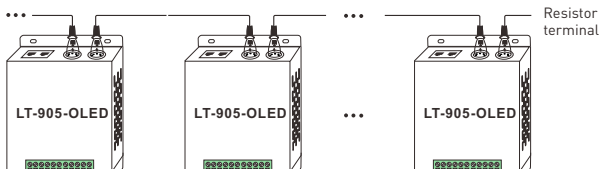


LT-905-OLED is equipped with 2 kinds of DMX terminals for users' selection. The following diagram takes 5-pin XLR as an example, same connecting method for RJ45.

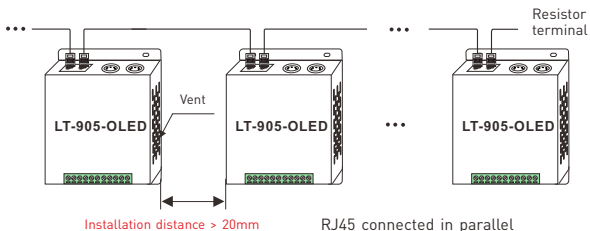
An amplifier is needed if more than 32 decoders are connected or use overlong signal line, signal amplification should not be more than 5 times continuously.

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 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.

Address setting table

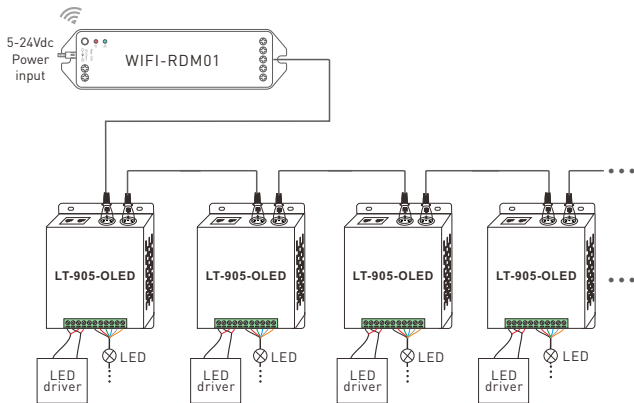
Mode	DIM	CT/CT2	RGB	RGBW	RGBWY	
Address quantity	1	2	3	4	5	
Resolution	8bit	8bit	8bit	8bit	8bit	
Channel	1	001	001	001	001	001
	2	001	002	002	002	002
	3	001	001	003	003	003
	4	001	002	003	004	004
	5	001	002	003	004	005

Mode	DIM	CT/CT2	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

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

Work with RDM editor

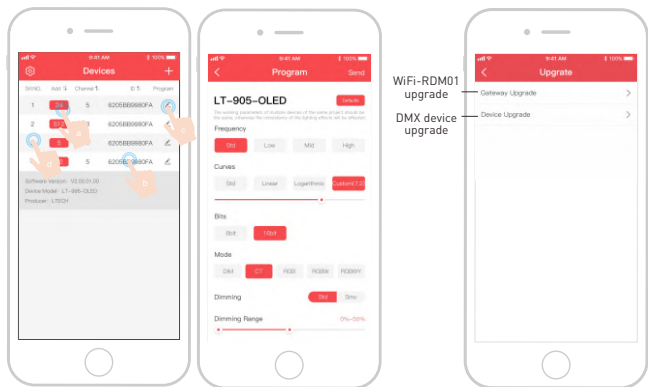
LT-905-OLED can work with LTECH RDM editor (Model: WiFi-RDM01) to realize changing the parameters by long-range setting, wiring diagram as below:



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", 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.

WiFi-RDM01
upgrade
DMX device
upgrade

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.