

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



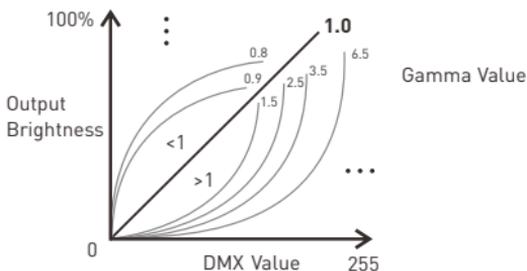

Photoelectric
isolation



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

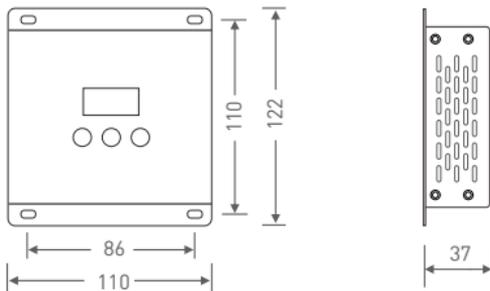
Display

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



UL[®] E500585



FC

CE

RoHS

5-Year Warranty

Main component description

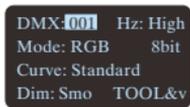


OLED display interface



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.

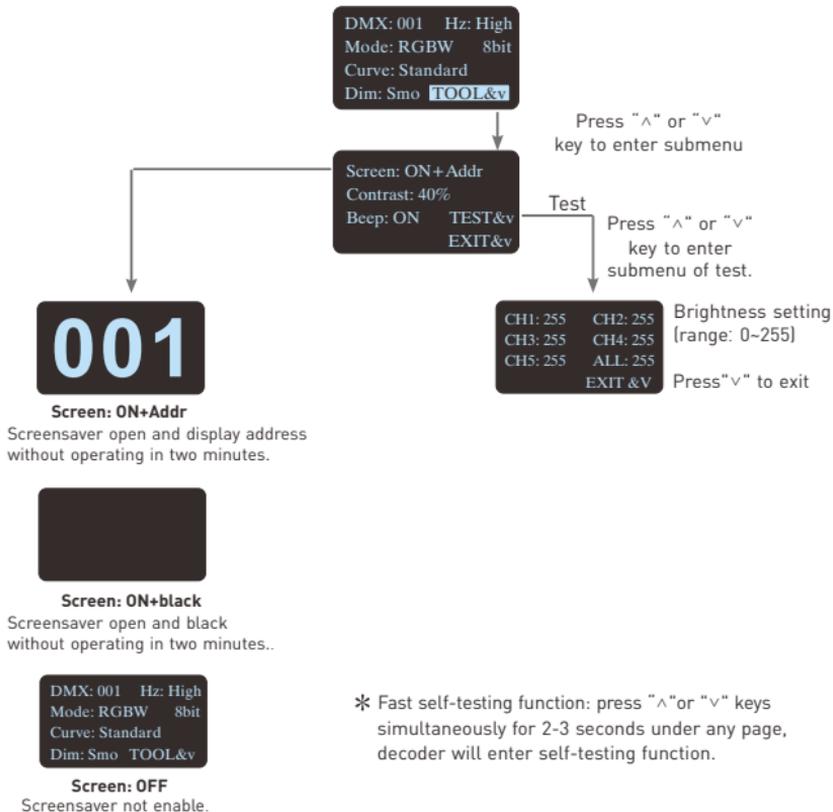
Available : **Std (standard)**

Smo (smooth)

* It is recommended to use standard.

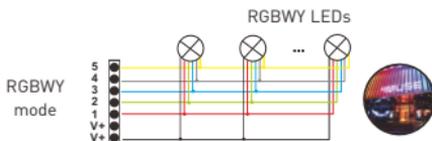
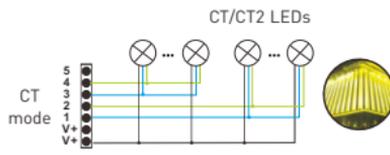
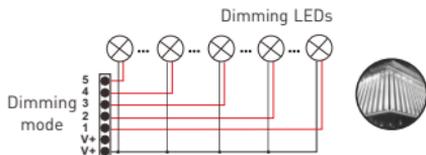
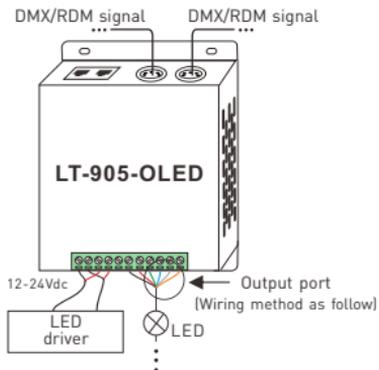
Smo: This option with smooth processing, realizes flicker-free dimming and smooth dynamic effects.

7. Tool

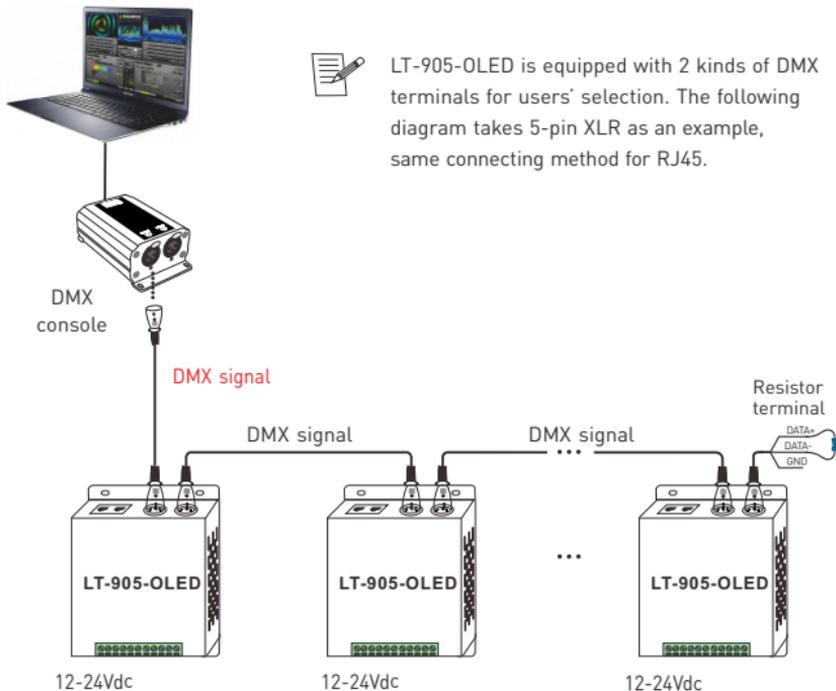


Wiring diagram

1. Connecting LED lights:



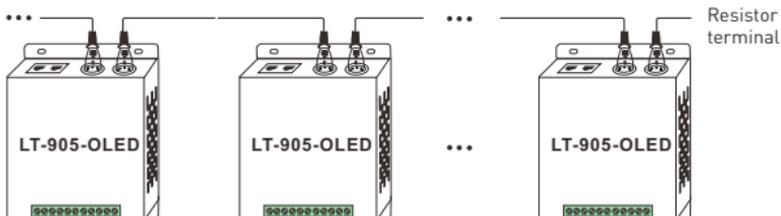
2. DMX console connection:



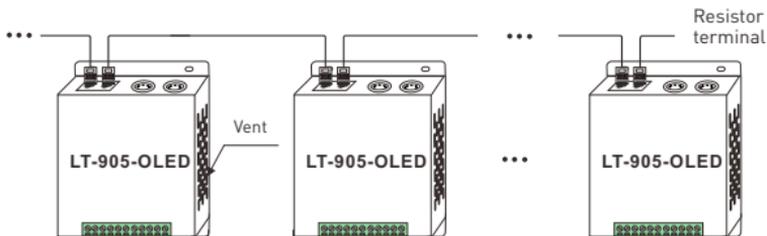
An amplifier is needed if more than 32 decoders are connected or use overlong signal line, signal amplification should not be more than 5 times continuously.

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

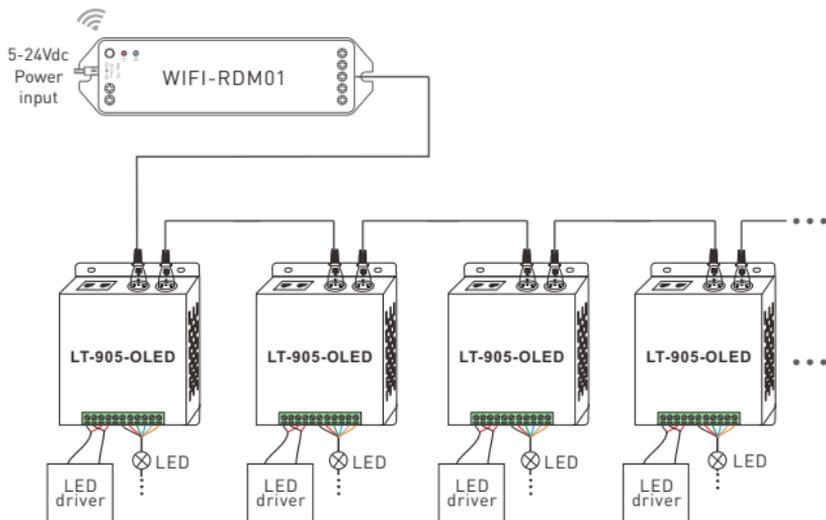
Mode		DIM	CT/CT2	RGB	RGBW	RGBWY
Address quantity		1	2	3	4	5
Resolution		8bit	8bit	8bit	8bit	8bit
Channel	1	001	001	001	001	001
	2	001	002	002	002	002
	3	001	001	003	003	003
	4	001	002	003	004	004
	5	001	002	003	004	005

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

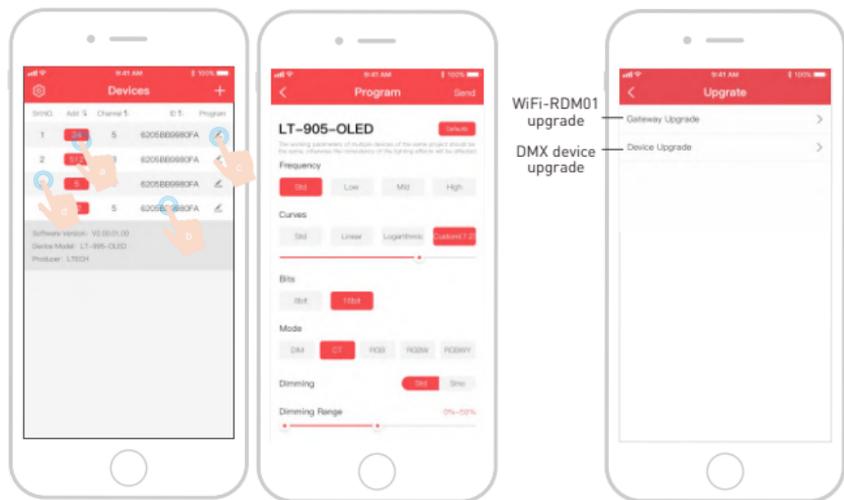
LT-905-OLED can work with LTECH RDM editor (Model: WiFi-RDM01) to realize changing the parameters by long-range setting, wiring diagram as below:



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.