

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
Shortcut / Over load protection



Photoelectric
Isolation



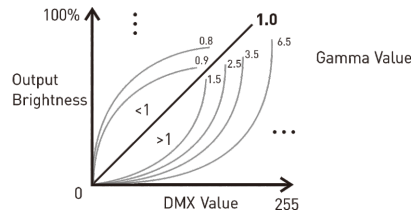
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Product Introduction:

1. Designed with 5 channels output, and Max. 5A current per channel, up to 600W output power.
2. Easy operation with OLED screen and the touch buttons.
3. 5 kinds of mode optional: single color, color temperature, RGB, RGBW, RGBWY.
4. Support 2 kinds of DMX ports with signal isolation function: 5-pin XLR, RJ45.
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 photoelectric isolation function.
7. With shortcut protection and over load protection, as well as warning function when fault.
8. With fast self-testing function.
9. 16bit (65536 levels) / 8bit (256 levels) grey level optional.
10. Multiple dimming curve (0.1~9.9) optional.



5-pin XLR



RJ45



RDM



Photoelectric
Isolation



Shortcut
Protection



Over load
Protection



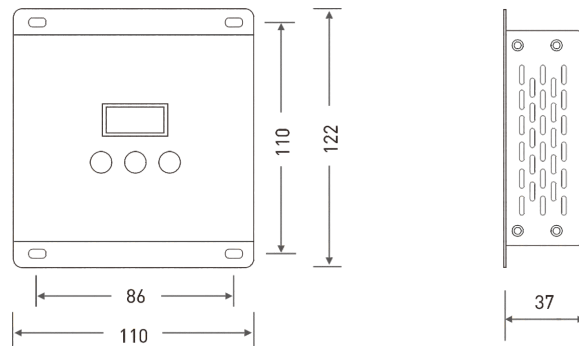
Display

Technical Specs:

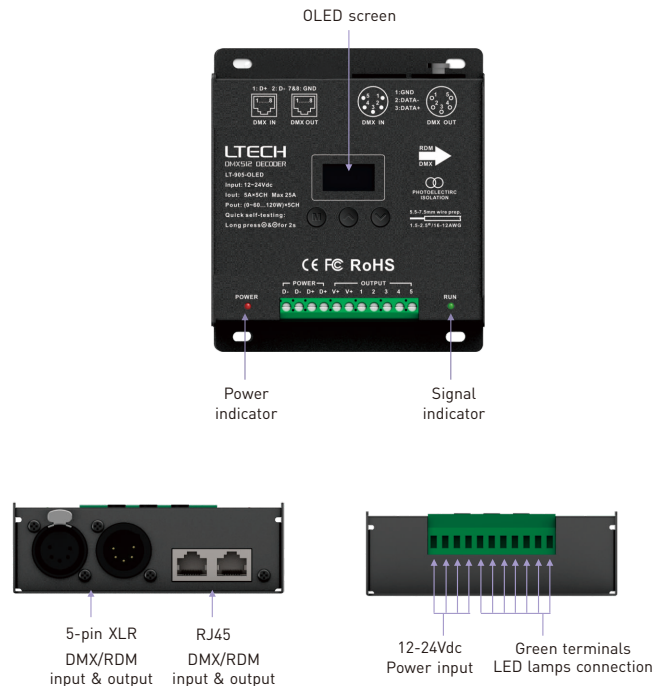
Model :	LT-905-OLED
Input Signal :	DMX512/RDM
Input Voltage :	12~24Vdc
Current Load :	5A × 5CH Max. 25A
Output Power :	(0~60W...120W) × 5CH Max. 600W
DMX Interface :	5-pin XLR, RJ45
Control Mode :	Dimming/CT/RGB/RGBW/RGBWW
Dimming Curve :	0.1~9.9
Grey Level :	8bit [256 levels] / 16bit [65536 levels]
Photoelectric Isolation :	Yes
Protection:	Shortcut / Over load
Working Temperature :	-30°C~65°C
Dimensions :	L122×W110×H37mm
Package Size :	L127×W123×H41mm
Weight (G.W.) :	550g

Product Size:

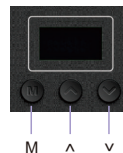
The Unit: mm



Main Component Description:



OLED Screen 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 Setting

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

Main page

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

2. PWM Frequency

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

Press "^" or "v" 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

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

Press "^" or "v" key to choose.
Optional : Dim
CT
RGB
RGBW
RGBWY

4. Grey Level

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

Press “^” or “v” key to choose.

Optional : 8bit

16bit [choose it if the master
 controller support this function]

5. Dimming
Curve

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

Press “^” or “v” 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

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

Press “^” or “v” key to choose.

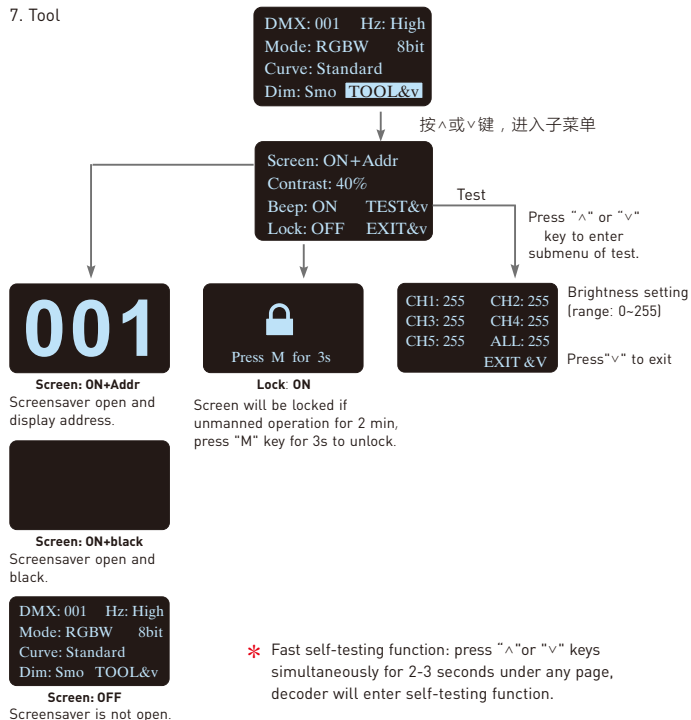
Optional : Std (standard)

Smo (smooth)

* It is recommended to
 use standard,

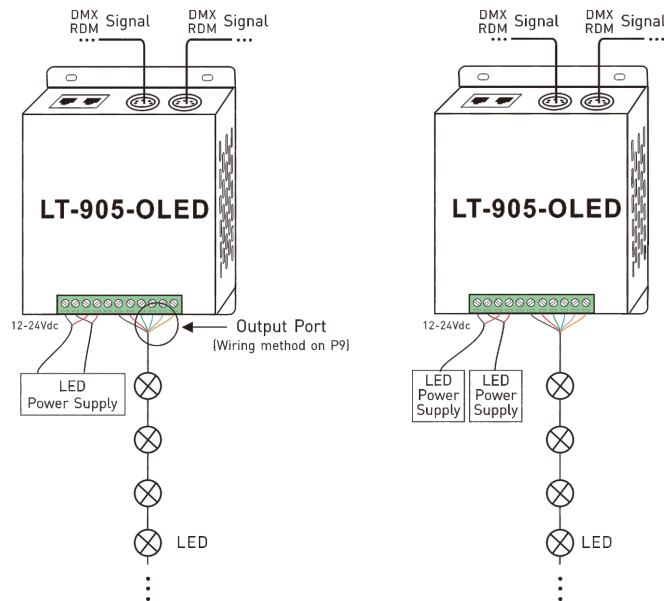
Smo: This option with smooth processing, realize
 the dimming flicker-free and dynamic effects
 more downy.

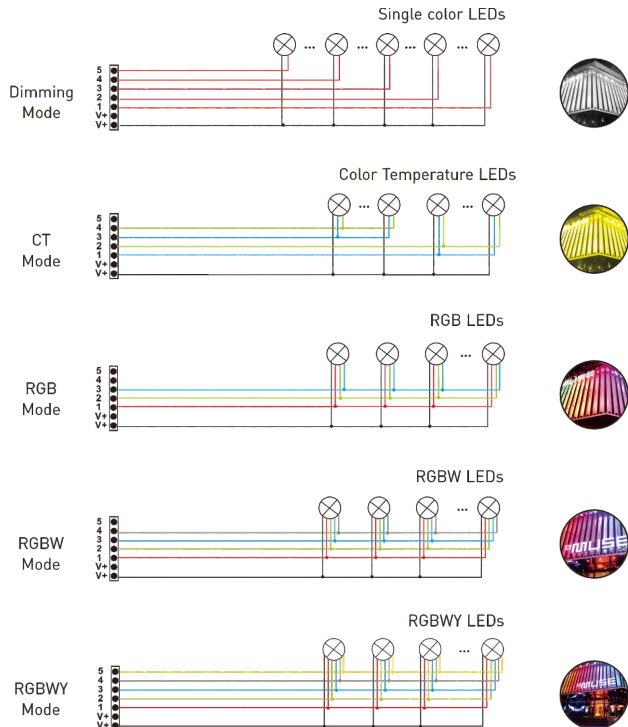
7. Tool



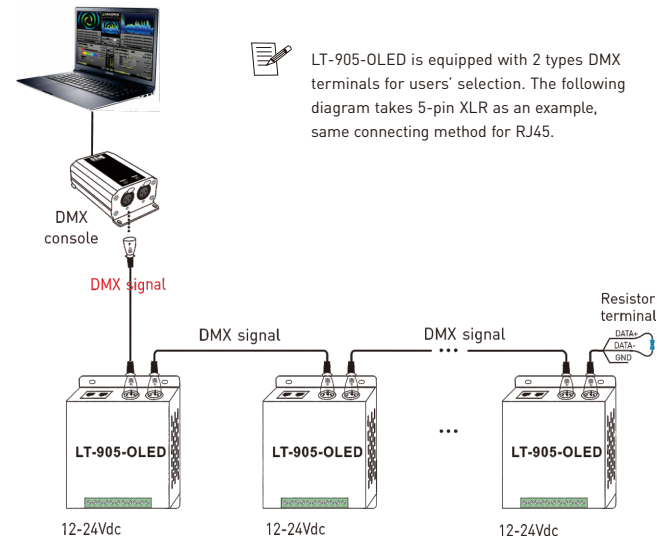
Wiring Diagram:

1 Connecting LED lights:



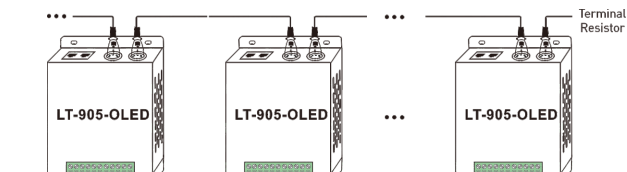


2. DMX console connection:

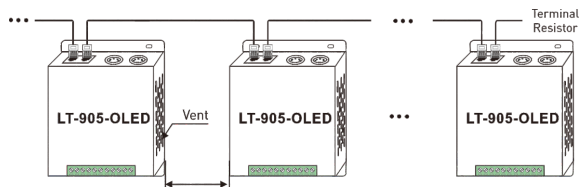


- * An amplifier is needed if more than 32 decoders are connected or use overlong signal line, signal amplification should not be more than 5 times continuously.
- * If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each line.

3. The connection diagram of 2 kinds of DMX/RDM terminals:



5-pin XLR Connected in Parallel



Installation distance > 20mm

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
	2	001	002	002	002
	3	001	001	003	003
	4	001	002	003	004
	5	001	002	003	004

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
	2	001 002	003 004	003 004	003 004
	3	001 002	001 002	005 006	005 006
	4	001 002	003 004	005 006	007 008
	5	001 002	003 004	005 006	007 008