

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/Over-heat protection



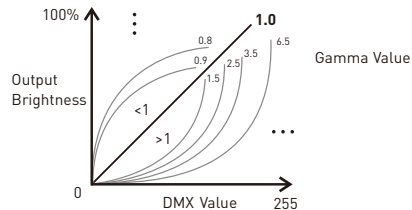
Photoelectric
isolation



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 optional: dimming, CT, RGB, RGBW, RGBYW.
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



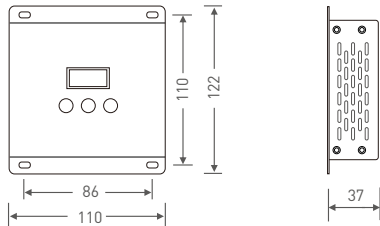
Display

Technical specs:

Model:	LT-905-OLED	Photoelectric isolation:	Yes
Input signal:	DMX512/RDM	Working temp.:	-30°C~65°C
Input voltage:	12~24Vdc	Dimensions:	L122×W110×H37mm
Current load:	5A × 5CH Max. 25A	Package size:	L127×W123×H41mm
Output power:	(0~60W...120W) × 5CH Max. 600W	Weight (G.W.):	550g
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 current / Over-heat		

Product size:

Unit: mm

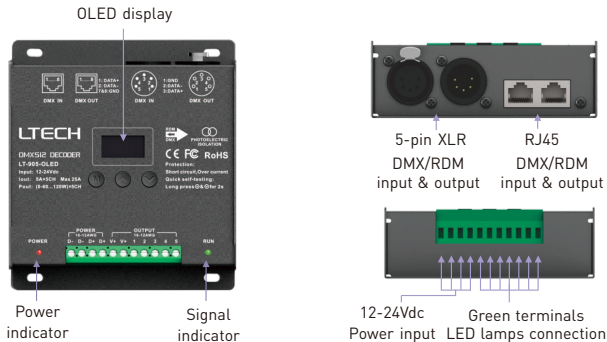


FC CE RoHS

warranty
5 years



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 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 "∨" key to choose.

Optional :

Std (standard)

High

Mid (middle)

Low

No flicker in video camera.

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 "∨" key to choose.

Optional: Dim / CT / RGB / RGBW / RGBWY

4. Grey scale

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

Press "∧" or "∨" 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 "∨" 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 "∨" 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

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

Press "∧" or "∨" key to enter submenu

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

Test

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

001

Screen: ON+Addr

Screensaver open and display address if undo for 2 minutes.

000

Screen: ON+black

Screensaver open and black if undo for 2 minutes.

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

Screen: OFF

Screensaver not enable.

CH1: 255 CH2: 255
CH3: 255 CH4: 255
CH5: 255 ALL: 255
EXIT&v

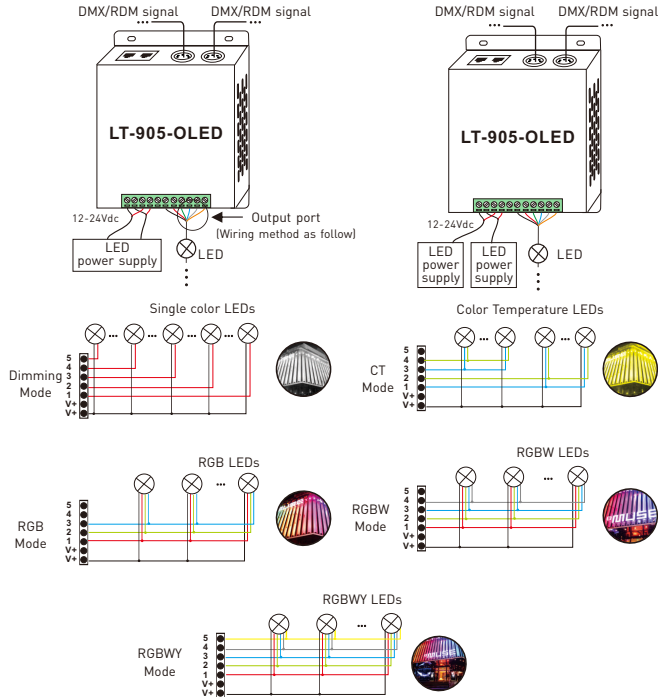
Brightness setting (range: 0~255)

Press "∨" to exit

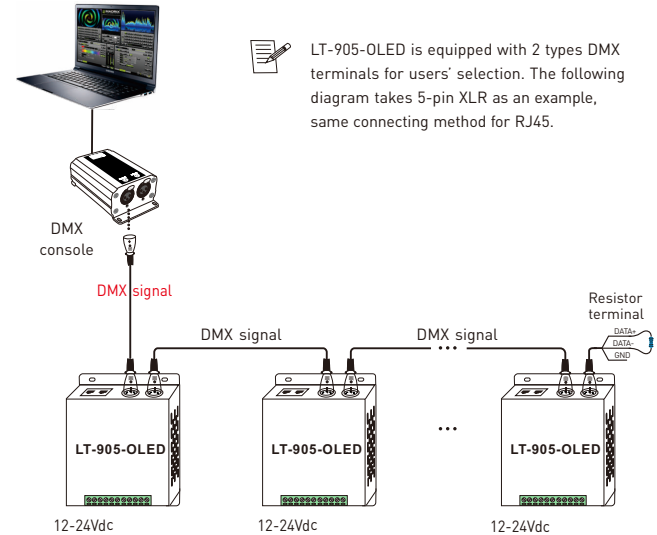
* Fast self-testing function: press "∧" or "∨" keys simultaneously for 2-3 seconds under any page, decoder will enter self-testing function.

Wiring diagram:

1 Connecting LED lights:

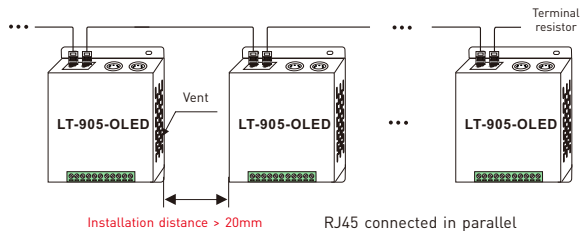
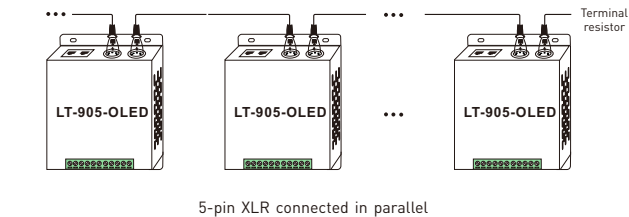


2. DMX console connection:



- * 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:



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.

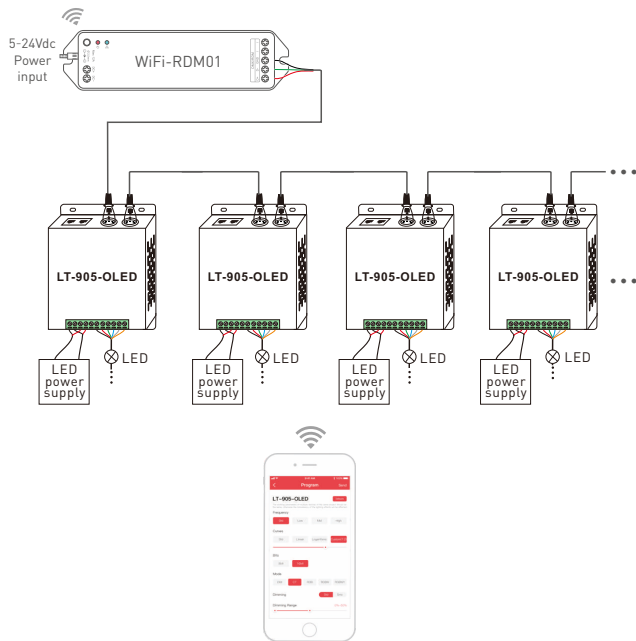
Address setting table

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

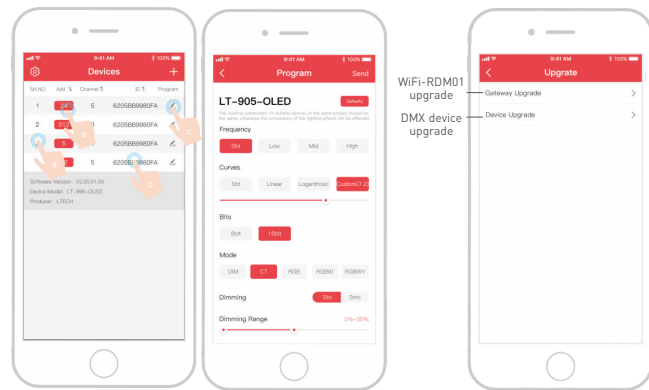
LT-905-OLED can work with LTECH RDM editor (Model: WiFi-RDM01) to realize changing the parameters by long-range setting, wiring diagram as below:



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.



- click "Add", edited the address in corresponding box.
- Click "ID", get more product details.
- Click "⚙️", enter edited interface
- Click "No.", issue the recognizing command.

Supporting WiFi-RDM01 upgrade and DMX driver upgrade.