LTECH

DMX512 DECODER

LT-905

5 CHANNELS

8 bit / 16 bit

2 kinds of DMX interfaces

OTP/OCP/SCP protection

RDM
DMX

Photoelectric Isolation

Product Introduction

1. Designed with 5 channels output, and Max. 5A current per channel, up to 600W output power.

2. Easy operation with digital display and touch buttons.

3. Support 2 kinds of DMX ports: 3-pin XLR, RJ45.

4. 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.

5. With firmware upgrade function.

6. With short circuit / over-heat / over current protection, as well as warning function when fault.

7. With power-on state management and fast self-testing function.

8. High/low PWM frequency for optional.

9. 16bit (65536 levels) / 8bit (256 levels) grey level optional.

c �macUS
E500585

FC CE RoHS

warranty 5 years

ISO9001:2008

3-pin XLR RJ45 Photoelectric isolation RDM Short circuit Protection Over-heat protection Over current Protection

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Technical Specs

|	
Model:	LT-905
Input Signal:	DMX512/RDM
DMX Interface:	3-pin XLR, RJ45
Input Voltage:	12~24Vdc
Current Load:	5A × 5CH Max. 25A
Output Power:	(0~60W...120W) × 5CH Max. 600W
Grey Level:	8bit (256 levels) / 16bit (65536 levels)
Photoelectric Isolation:	Yes
Protection:	Short circuit / Over-heat / Over current protection, recover automatically.
Working Temp.:	-30°C~65°C
Dimensions:	L122×W110×H37mm
Package Size:	L127×W123×H41mm
Weight (G.W.):	550g

Unit: mm

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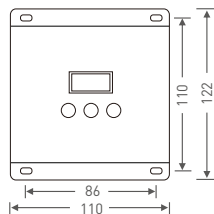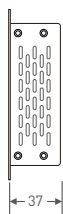
Main Component Description

Digital
display

Dip
switch

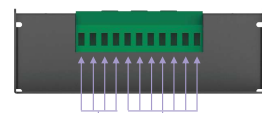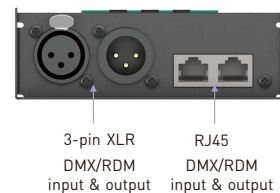
Power
indicator

Signal
indicator
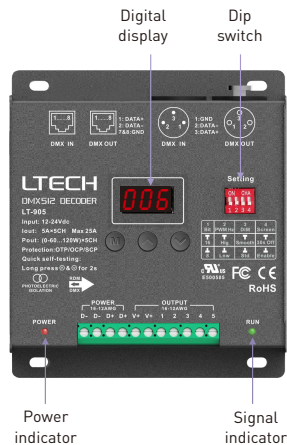
Digital display

- Digital display will enter the locked mode without operating after 15S.
- Long press "M" key to unlock.
- Short press "M" key to switch numbers.
- Press "∧""∨" key to adjust value.

M   ∧   ∨

Dip switch

	1 Bit	2 PWM Hz	3 DIM	4 Screen
	16	Hig	Smooth	30S off
	8	Low	Std	Enable

3-pin XLR
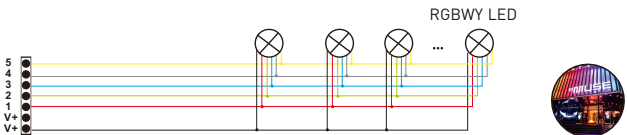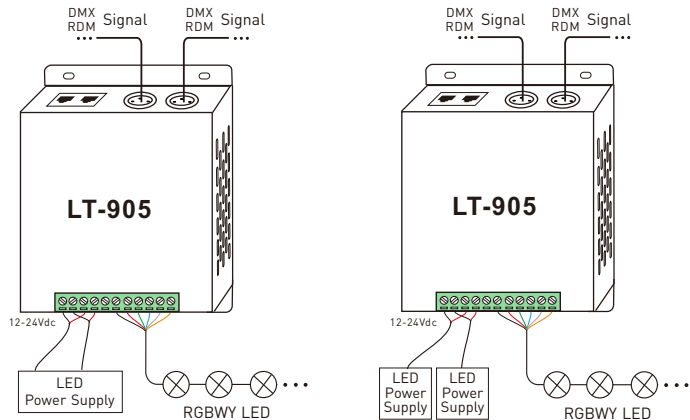DMX/RDM
input & output

RJ45
DMX/RDM
input & output

12-24Vdc
Power input

Green terminals
LED lamps connection

Wiring Diagram

1 Connecting LED lights:

DMX RDM Signal   DMX RDM Signal

LT-905

12-24Vdc

LED Power Supply

RGBWY LED

DMX RDM Signal   DMX RDM Signal

LT-905

12-24Vdc

LED Power Supply   LED Power Supply

RGBWY LED

RGBWY LED

5
4
3
2
1
V+
V+

2. DMX console connection:
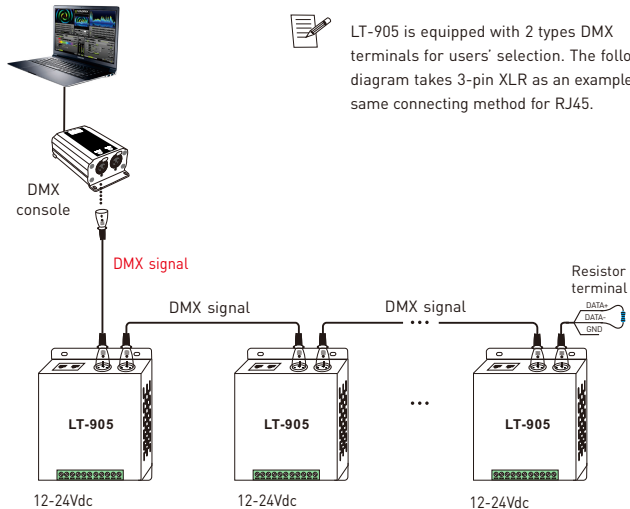
LT-905 is equipped with 2 types DMX terminals for users' selection. The following diagram takes 3-pin XLR as an example, same connecting method for RJ45.

DMX console

DMX signal

DMX signal   DMX signal

Resistor terminal

DATA+
DATA-
GND

LT-905   **LT-905**   **LT-905**

12-24Vdc   12-24Vdc   12-24Vdc

✱ 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:
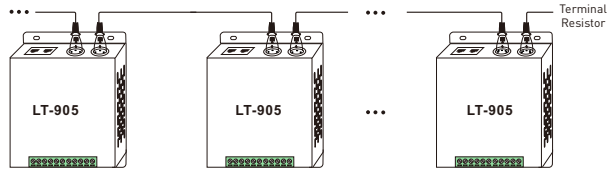
3-pin XLR Connected in Parallel
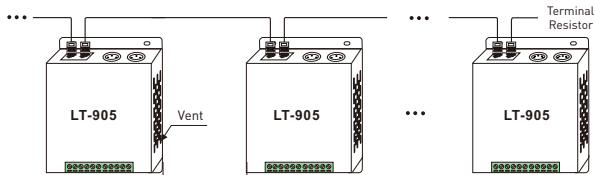
Installation distance > 20mm

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.

Work with RDM editor

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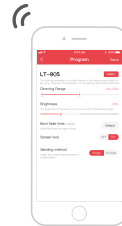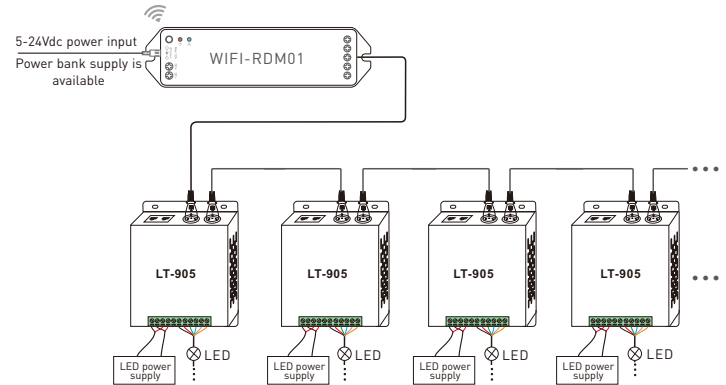
RDM editor App interface instruction

Download the App, setting LT-905 parameters (dimming range, brightness, boot fade time 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.

WiFi-RDM01 upgrade

DMX device upgrade
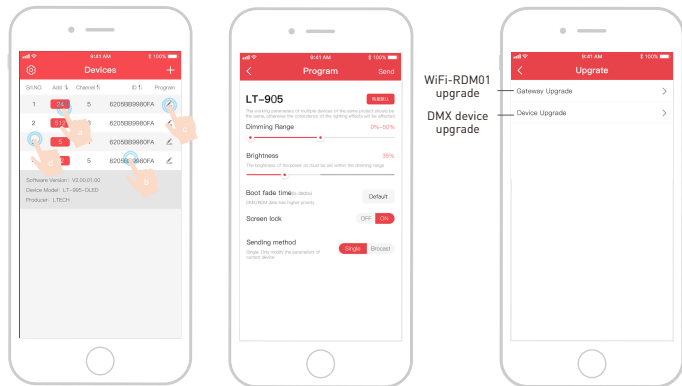
a: click"Add", edited the address in corresponding box.
b: Click"ID", get more product details.
c: Click" ✎ ", enter edited interface
d: Click"No.", issue the recognizing command.

Supporting WiFi-RDM01 upgrade and DMX driver upgrade.

＊ No further notice if any changes in the manual.
   Product function depends on the goods.
   Please feel free to contact your supplier if any question.