

# LTECH

## DMX512 DECODER

LT-903

**3**  
CHANNELS

8 bit / 16 bit

2 kinds of DMX interfaces

Short circuit /overheat /over current protection



Photoelectric  
isolation



[www.ltech-led.com](http://www.ltech-led.com)

## Product introduction

1. Designed with 3 channels output, maximum 8A current per channel, and up to 576W output power.
2. Easy operation with digital display and the touch buttons.
3. 3-pin XLR, RJ45 DMX interface with photoelectric isolation, improve signal transmission efficiency and anti-interference ability.
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 short circuit / overheat / over current protection, as well as warning function when faults occur.
6. With fast self-testing function.
7. Available in high and low PWM frequency.
8. Available in 16bit (65536 levels) and 8bit (256 levels).



3-pin XLR



RJ45



Photoelectric  
isolation



RDM



Short circuit  
protection



Overheat  
protection



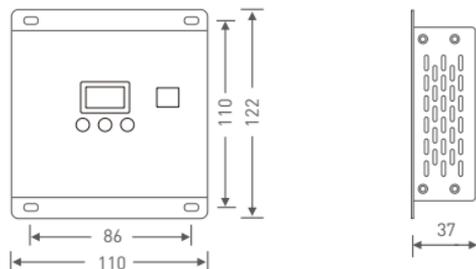
Over current  
protection



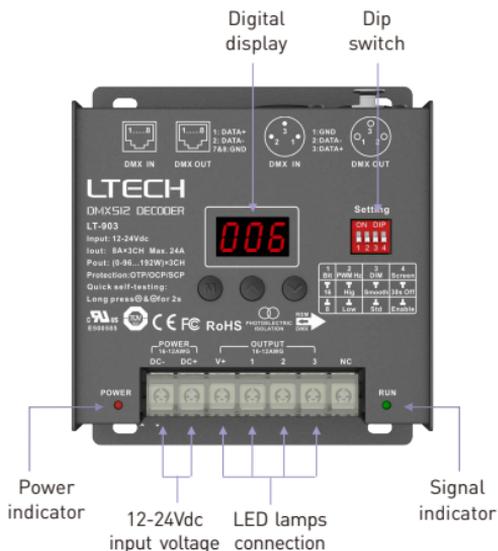
## Technical specs

Model:	LT-903
Input signal:	DMX512/RDM
DMX interfaces:	3-pin XLR, RJ45
Input voltage:	12~24Vdc
Current load:	8A × 3CH Max. 24A
Output power:	(0~96W...192W) × 3CH Max. 576W
Grey levels:	8bit (256 levels) / 16bit (65536 levels)
Photoelectric isolation:	Yes
Protection:	Short circuit / overheat / Over current protection, recover automatically.
Working temp.:	-30°C~65°C
Dimensions (L×W×H):	122×110×37mm
Package size(L×W×H):	127×123×41mm
Weight (G.W.):	550g

Unit: mm



# Main component descriptions



Digital display



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



3-pin XLR  
DMX/RDM  
input & output

RJ45  
DMX/RDM  
input & output

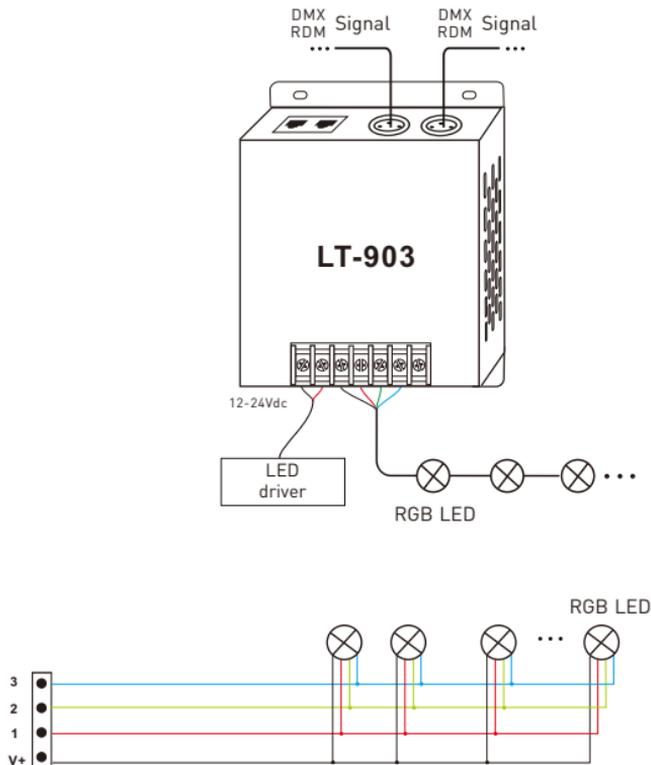
Dip switch



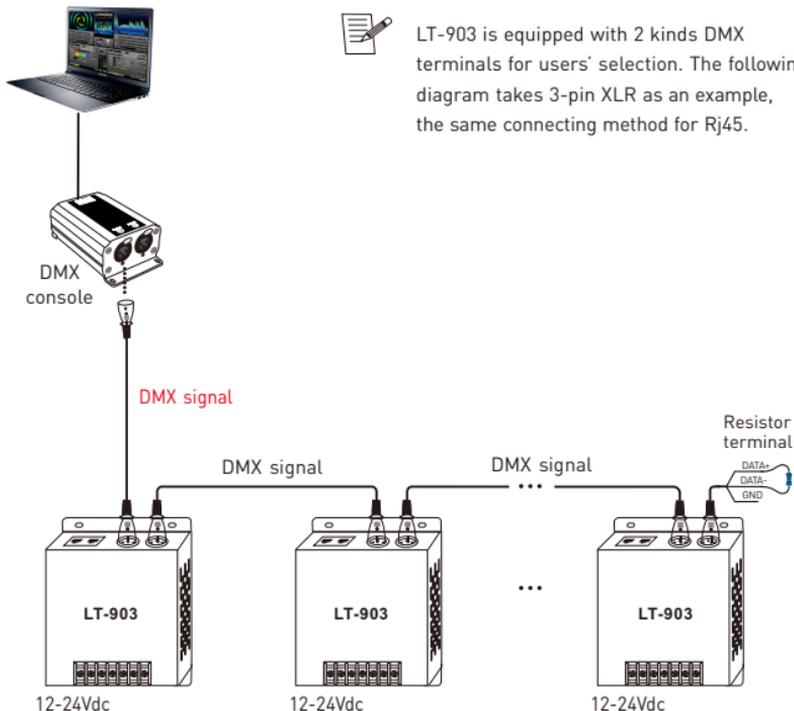
1 Bit	2 PWM Hz	3 DIM	4 Screen
⬇️ 16	⬇️ High	⬇️ Smooth	⬇️ 30S off
⬇️ 8	⬇️ Low	⬇️ Standard	⬇️ Enable

## Wiring diagram

### 1 Connecting LED lights:



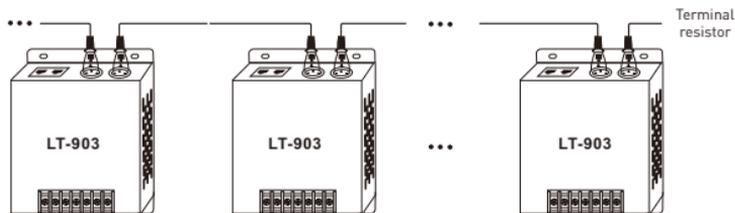
## 2. DMX console connection:



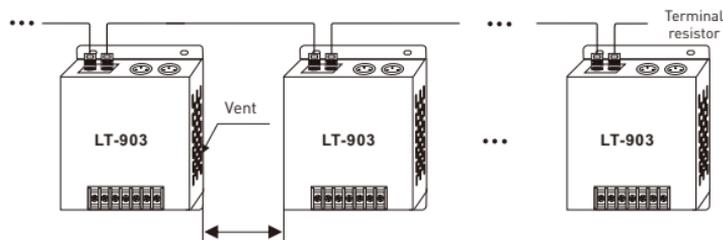
LT-903 is equipped with 2 kinds DMX terminals for users' selection. The following diagram takes 3-pin XLR as an example, the same connecting method for RJ45.

- \* 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:



3-pin XLR connected in parallel



Installation distance > 20mm

Rj45 connected in parallel

These 2 terminals can be connected in a mixed way.

**\* Installation Attentions :** Please reserve enough ventilation distance between decoders ( no less than 20mm). Be sure not to block the vent, or it may affect the lifetime of decoders for poor heat dissipation.

\* This manual is subject to changes without further notice.  
Product feel free to contact our official distributors if you have any question.