

# LTECH

## DMX512 DECODER

LT-903



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

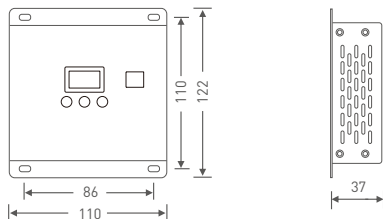
RDM

Short circuit  
protectionOverheat  
protectionOver current  
protection

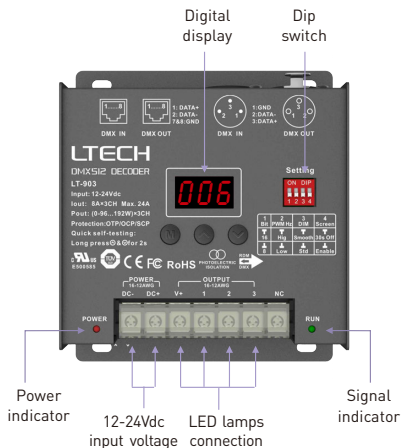
## Technical specs

|                          |                                                                               |
|--------------------------|-------------------------------------------------------------------------------|
| 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,<br>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 "▲" "▼" key to adjust value.



3-pin XLR  
DMX/RDM  
input & output

RJ45  
DMX/RDM  
input & output

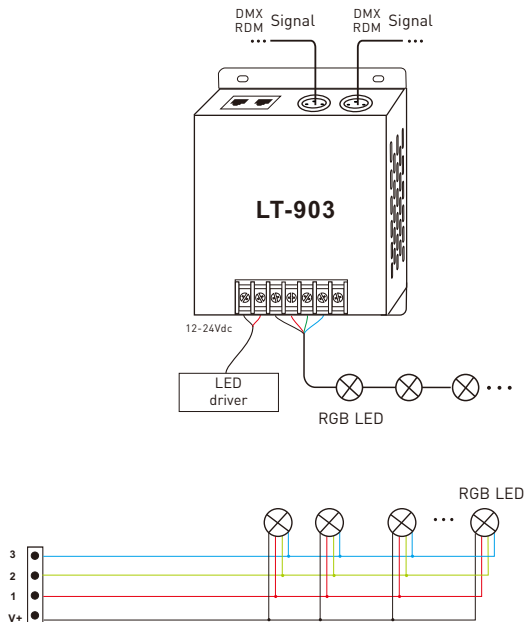
Dip switch



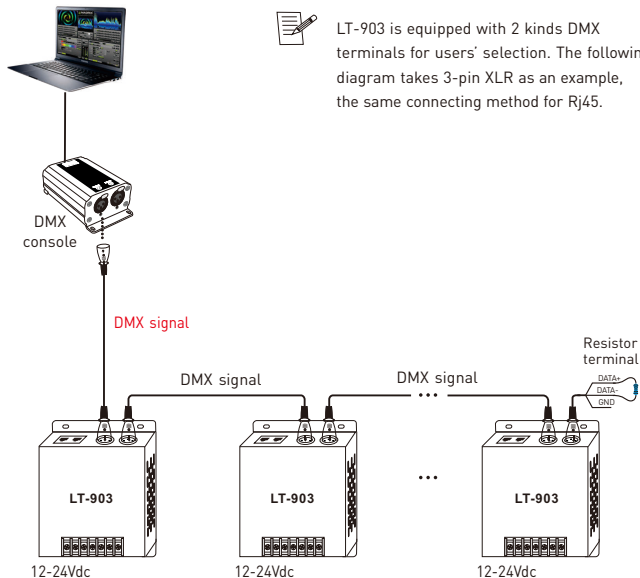
| 1<br>Bit | 2<br>PWM Hz | 3<br>DIM | 4<br>Screen |
|----------|-------------|----------|-------------|
| 16       | High        | Smooth   | 30S off     |
| 8        | Low         | Standard | Enable      |

## Wiring diagram

### 1 Connecting LED lights:

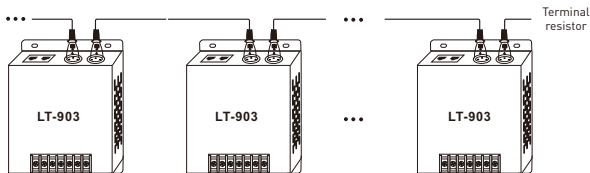


## 2. DMX console connection:

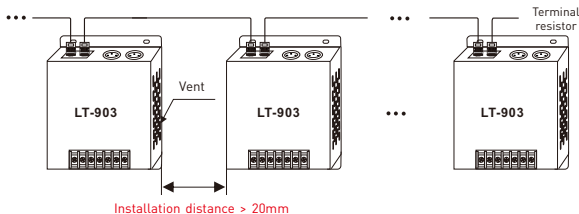


- \* An amplifier is needed if more than 32 decoders are connected or use overlong signal line, signal amplification should not be more than 5 times continuously.
- \* If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor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

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



3-pin XLR connected in parallel



Rj45 connected in parallel

These 2 terminals can be connected in a mixed way.

**\* Installation Attention :** 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.