LTECH

DMX512 DECODER

LT-912

12 CHANNELS

8 bit / 16 bit

3 kinds of DMX interfaces

OTP/OCP/SCP protection

RDM → DMX

Photoelectric isolation

Product introduction

1. Designed for Hi-power multiple channels application, 12 channels output, and up to 1152W output power.

2. Easy operation with digital display and the touch buttons.

3. 3-pin XLR, RJ45 and green terminal DMX interface with photoelectric isolation, improve signal transmission efficiency and anti-interference ability, the green terminal also has signal amplifier function.

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 temp. / 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.

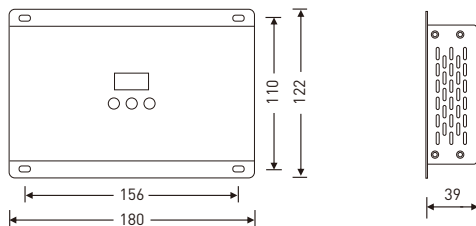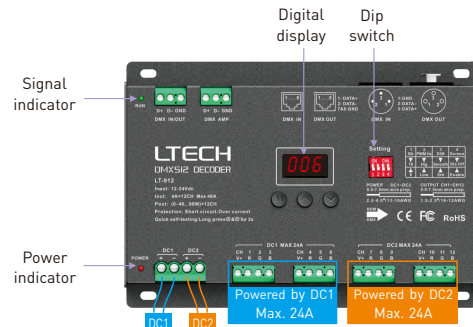| 3-pin XLR | RJ45 | Photoelectric isolation | RDM | Short circuit protection | Over temp. protection | Over current protection |

Technical specs

Model :	LT-912
Input signal :	DMX512/RDM
DMX interface :	3-pin XLR, RJ45, green terminal
Input voltage :	12~24Vdc
Current load :	4A × 12CH Max 48A
Output power :	(0~48W...96W) × 12CH Max. 1152W
Grey level :	8bit (256 levels) / 16bit (65536 levels)
Photoelectric isolation :	Yes
Protection :	Short circuit / Over temp. / Over current protection, recover automatically.
Working temperature :	-30°C~65°C
Dimensions :	L180×W122×H39mm
Package size :	L193×W127×H41mm
Weight (G.W.) :	730g

Unit: mm

110
122
156
180
39

c UL us
E500585
FC CE RoHS
warranty
5 years
ISO9001:2008

Main component description

Digital display   Dip switch

Signal indicator

Power indicator

LTECH
DMX512 DECODER
LT-912

Powered by DC1
Max. 24A

Powered by DC2
Max. 24A

DC1   DC2

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.
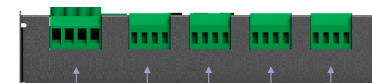- Press "^"''v" key to adjust value.

M   ^   v

DIP switch

ON   CHA

1 2 3 4

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

3-pin XLR   RJ45   Green terminals
(with signal amplifier function)
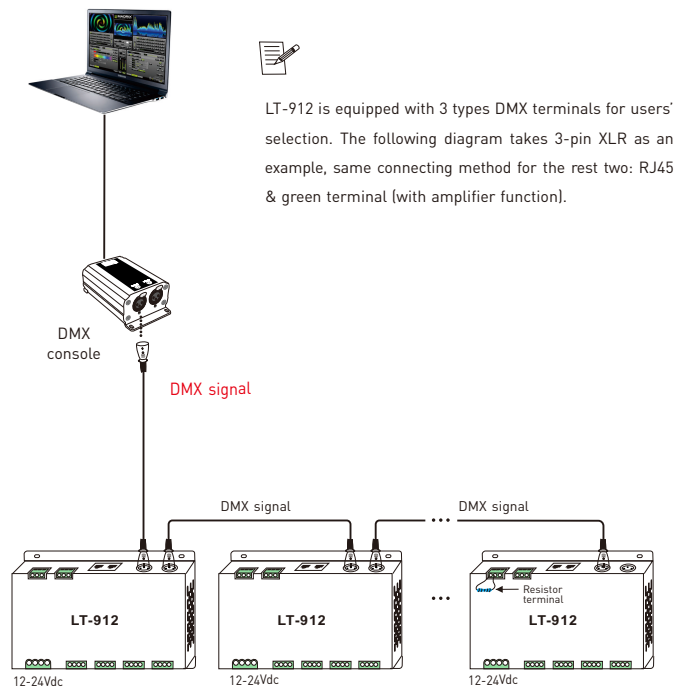
DMX/RDM input & output

12-24Vdc
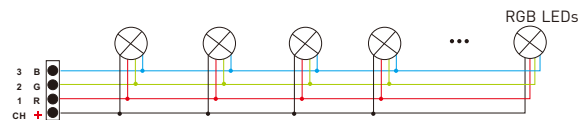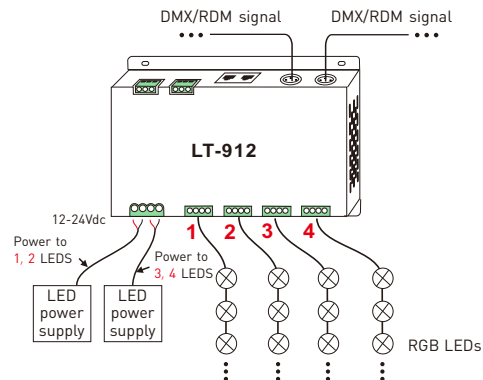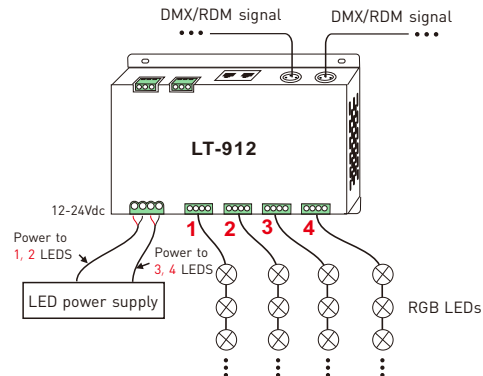input voltage   Green terminals
LED lamps connection

Wiring diagram

1. DMX console connection:

LT-912 is equipped with 3 types DMX terminals for users' selection. The following diagram takes 3-pin XLR as an example, same connecting method for the rest two: RJ45 & green terminal (with amplifier function).

DMX console

DMX signal

DMX signal

DMX signal

Resistor terminal
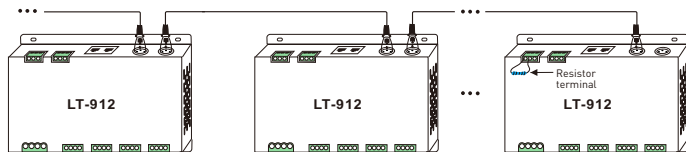
LT-912

LT-912

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12-24Vdc

12-24Vdc

12-24Vdc

✳ 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.
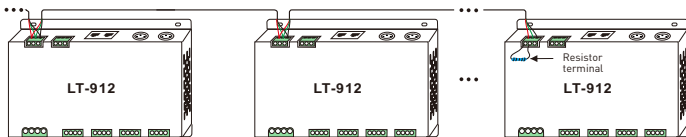
2 Connecting LED lights:

DMX/RDM signal   DMX/RDM signal

LT-912

12-24Vdc

Power to 1, 2 LEDS

Power to 3, 4 LEDS

LED power supply

RGB LEDs

DMX/RDM signal   DMX/RDM signal

LT-912

12-24Vdc

Power to 1, 2 LEDS

Power to 3, 4 LEDS

LED power supply

LED power supply

RGB LEDs
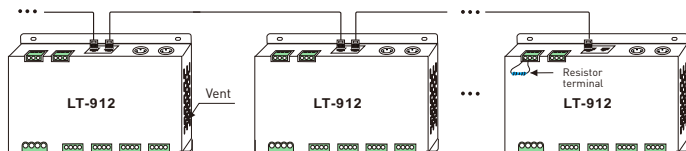
RGB LEDs

3 B
2 G
1 R
CH +

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

3-pin XLR connected in parallel

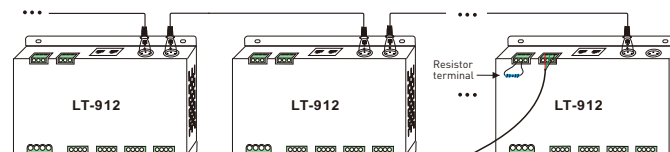Green terminal connected in parallel

Installation distance > 20mm

Rj45 connected in parallel
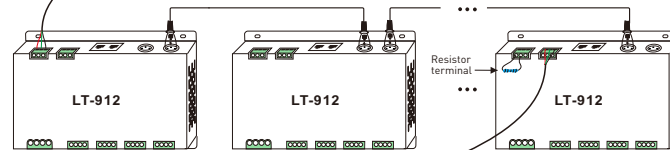
These 3 terminals can be connected in a mixed way**.**

✳ **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.

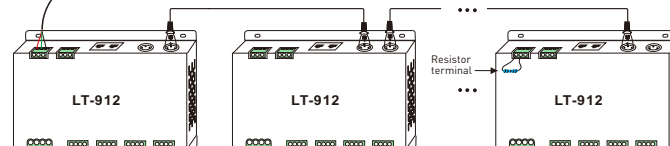## 4. The connection diagram of AMP signal amplifier terminal:

✳ Connecting with green terminal or an extra amplifier will be needed when more than 32 decoders are connected or use overlong signal wire(as shown below).
Signal amplifier should not be more than 5 times continuously.
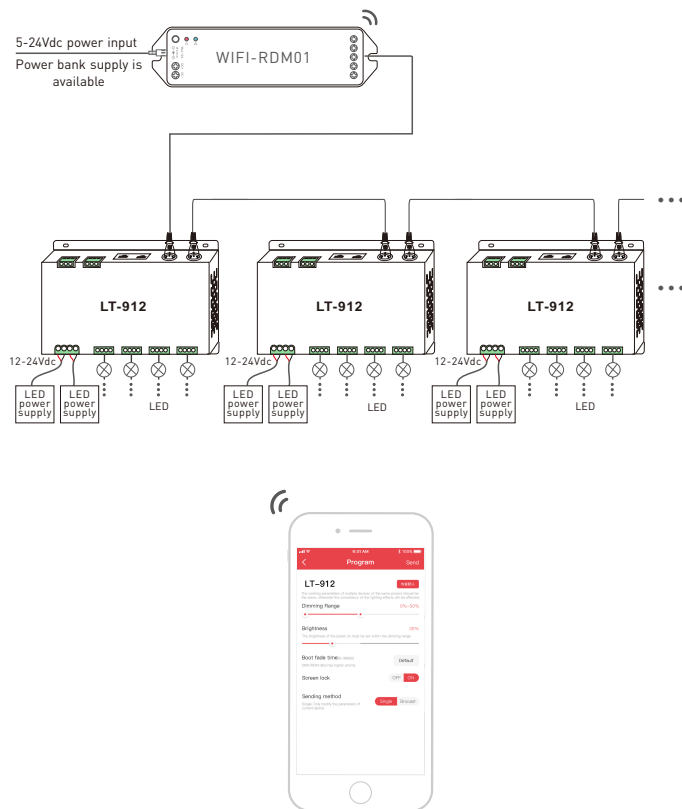

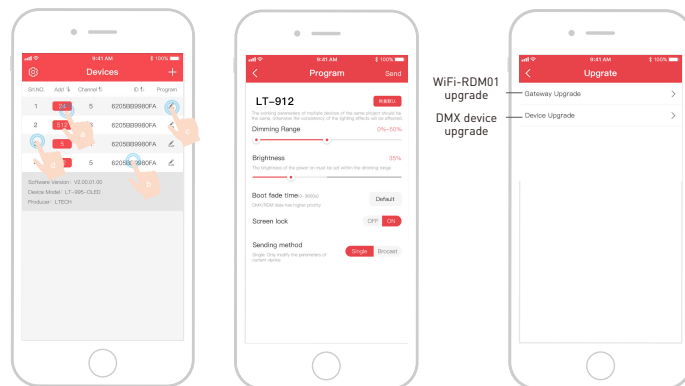AMP

AMP

Work with RDM editor

LT-912 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-912 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.

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.

Attention

1. The product shall be installed and serviced by the qualified person.

2. This product is non-waterproof. Please avoid the sun and rain. When installed outdoors, please ensure it is mounted in a water proof enclosure.

3. Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.

4. Please check if the output voltage of the LED power supply used comply with the working voltage of the product.

5. Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.

6. Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.

7. If a fault occurs, please return the product to your supplier. Do not attempt to fix this product by yourself.

Warranty agreement

1. We provide lifelong technical assistance with this product:

   • A 5-year warranty is given from the date of purchase. The warranty is for free repair or replacement if cover manufacturing faults only.

   • For faults beyond the 5-year warranty, we reserve the right to charge for time and parts.

2. Warranty exclusions below:

   • Any man-made damages caused from improper operation, or connecting to excess voltage and overloading.
   • The product appears to have excessive physical damage.
   • Damage due to natural disasters and force majeure.
   • Warranty label, fragile label and unique barcode label have been damaged.
   • The product has been replaced by a brand new product.

3. Repair or replacement as provided under this warranty is the exclusive remedy to the customer. We shall not be liable for any incidental or consequential damages for breach of any stipulation in this warranty.

4. Any amendment or adjustment to this warranty must be approved in writing by our company only.

✳ 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.