LTECH

DMX512 DECODER

LT-904-DIP

4 CHANNELS

2 kinds of DMX interfaces

Short circuit / Over current protection

RDM
DMX

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DMX512 DECODER
LT-904-DIP
Input: 12-24Vdc
Iout: 6A×4CH Max 24A
Pout: (0-72...144W)×4CH
Protection:
Short circuit,Over current

CE FC RoHS

Product Introduction:

1. Designed with 4 channels output, and Max. 6A current per channel, up to 576W output power.

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

3. 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.

4. With short circuit protection and over current protection, as well as warning function when fault.

3-pin XLR	RJ45	RDM	Short circuit Protection	Over current Protection

FC CE RoHS warranty 5 years ISO9001:2008

Technical Specs:

Model: LT-904-DIP

Input Signal: DMX512/RDM

DMX Interface: 3-pin XLR, RJ45

Input Voltage: 12~24Vdc

Current Load: 6A×4CH   Max. 24A

Output Power: (0~72W...144W)×4CH

                Max. 576W

Protection: Short circuit/ Over current

Working Temp.: -30℃~65℃

Dimensions: L122×W110×H37mm

Package Size: L127×W123×H41mm

Weight (G.W.): 550g

Product Size:

Unit: mm

Main Component Description:

Dip switch

Power indicator

12-24Vdc Power input

LED lamps connection

Signal indicator

3-pin XLR
DMX/RDM
input & output

RJ45
DMX/RDM
input & output

Dip Switch:

RDM Mode: The dip switch 1-10 are OFF.
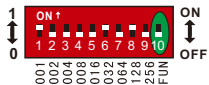
DMX Mode: FUN=OFF (the 10th dip switch = OFF)
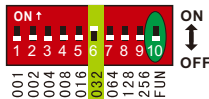Setting DMX addresses with dip switch 1-9
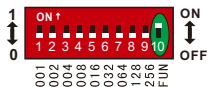
Self-testing Mode: FUN=ON (the 10th dip switch=ON)

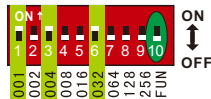**How to set DMX address via dip switch:**

FUN=OFF (the 10th dip switch=OFF)   **DMX Mode**

DMX address value = the total value of (1-9), to get the place value when in "on" position, otherwise will be 0.

E.g.1: Set initial address to 32.

E.g.2: Set initial address to 37.

001+004+032=37

E.g.3: Set initial address to 178.

002+016+032+128=178

＊When Dip switch 1-9 are OFF, the defaulted initial DMX address is 1.

Self-testing Mode:

FUN=ON (the 10th dip switch=ON)   **Self-testing Mode**

Dip Switch	1-9=off	1=on	2=on	3=on	4=on	5=on	6=on	7=on	8=on	9=on
Self-test Function	Static Black	Static Red	Static Green	Static Blue	Static Yellow	Static Purple	Static Cyan	Static White	7 Colors Jumping	7 Colors Smooth

Static Red Static Green Static Blue Static Yellow Static Purple Static Cyan Static White 7 Colors Jumping 7 Colors Smooth
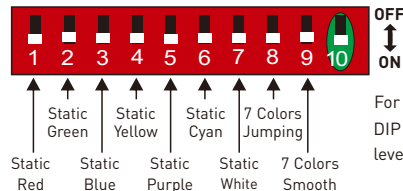
For changing effects (Dip Switch 8/9=on): DIP switch 1-7 is used to realize 7 speed levels. (7=on, the fastest level)

【Attn】 When several dip switches are on, subjected to the highest switch value.
As the figure above shows, the effect will be 7 colors smooth at 7 speed level.
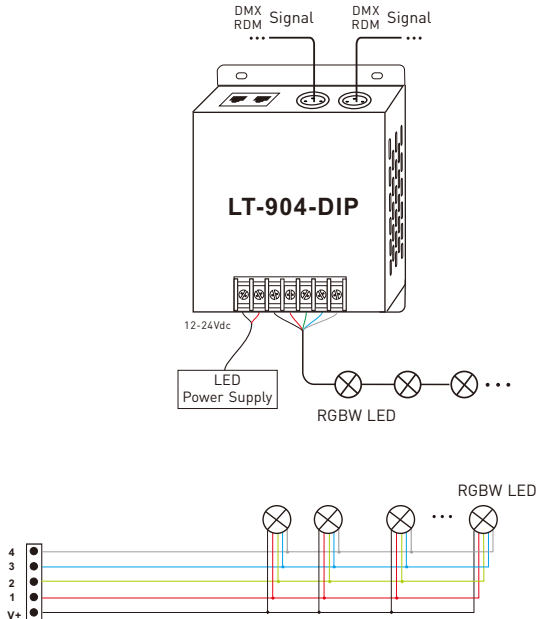
DMX Dimming Instruction:

Each LT-904-DIP DMX decoder occupied 4 DMX addresses when connecting the DMX console.

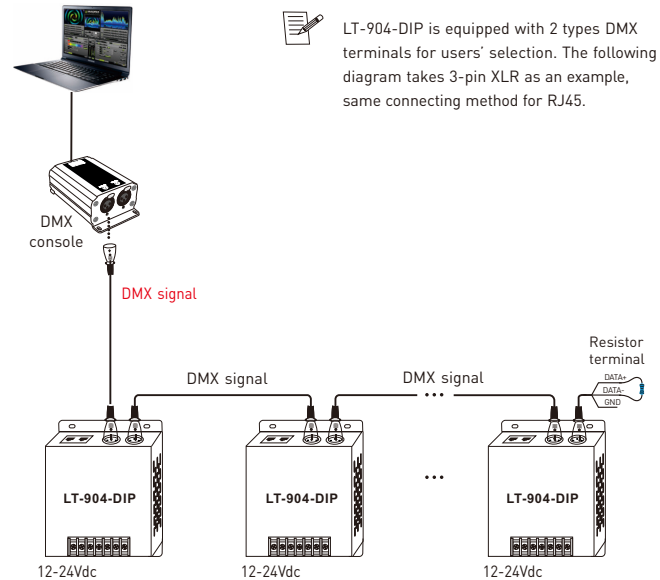E.g., the defaulted initial address is 1, please find their corresponding relationships in the form.

DMX Console	DMX Decoder
CH1 0-255	CH1 PWM 0-100% (LED R)
CH2 0-255	CH2 PWM 0-100% (LED G)
CH3 0-255	CH3 PWM 0-100% (LED B)
CH4 0-255	CH4 PWM 0-100% (LED W)

Wiring Diagram:

1 Connecting LED lights:

DMX RDM Signal   DMX RDM Signal

LT-904-DIP

12-24Vdc

LED Power Supply

RGBW LED

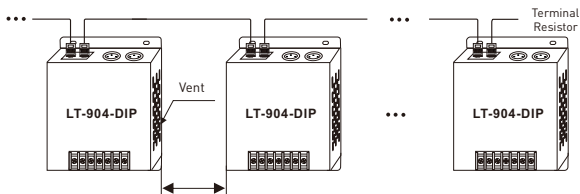RGBW LED

4
3
2
1
V+

2. DMX console connection:

LT-904-DIP 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

Resistor terminal

DATA+
DATA-
GND

DMX signal   DMX signal

LT-904-DIP   **LT-904-DIP**   **LT-904-DIP**

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.

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

Terminal Resistor

LT-904-DIP   LT-904-DIP   •••   LT-904-DIP
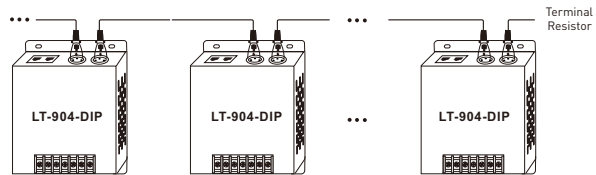
3-pin XLR Connected in Parallel

Terminal Resistor

Vent

LT-904-DIP   LT-904-DIP   •••   LT-904-DIP

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.

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