LTECH

DMX512 DECODER

LT-904-DIP

4 CHANNELS

2 kinds of DMX interfaces
Shortcut / Over load protection

RDM
DMX

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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 shortcut protection and over load protection, as well as warning function when fault.

3-pin XLR | RJ45 | RDM | Shortcut Protection | Over load Protection

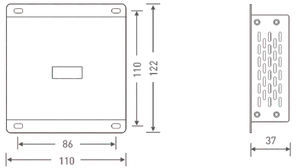
FC CE RoHS warranty 5 years ISO9001:2008

Technical Specs:

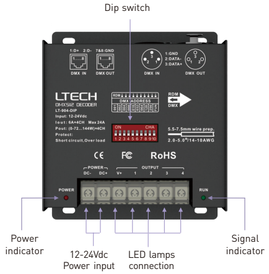
Model:	LT-904-DIP	Protection:	Shortcut / Over load
Input Signal:	DMX512/RDM	Working Temp.:	-30℃~65℃
DMX Interface:	3-pin XLR, RJ45	Dimensions:	L122×W110×H37mm
Input Voltage:	12~24Vdc	Package Size:	L127×W123×H41mm
Current Load:	6A × 4CH Max. 24A	Weight (G.W.):	550g
Output Power:	(0~72W...144W) × 4CH Max. 576W		

Product Size:

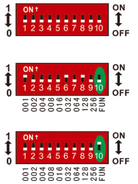
Unit: mm



Main Component Description:



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**

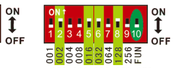
DMX address value = the total value of (1-9), to get the place value when in "on" position, otherwise will be 0.

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.



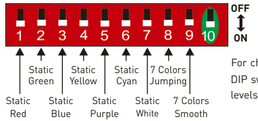
002+016+032+128=178

✻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



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:

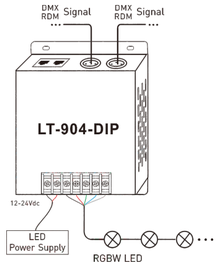
Each LT-904-DIP DMX decoder occupied 4 DMX addresses when connecting the DMX console.

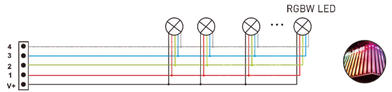
E.g., the defaulted initial address is 1, please find their corresponding relationships in the form.

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)

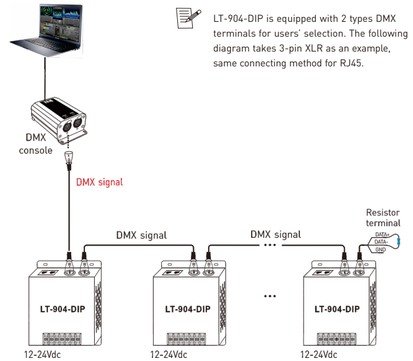
Wiring Diagram:

1 Connecting LED lights:





2. DMX console connection:

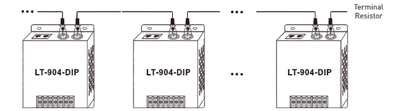


LT-904-DIP is equipped with 2 types DMX terminals for users' selection. The following diagram takes 3-pin XLR as an example, same connecting method for RJ45.

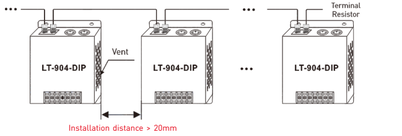
✻ An amplifier is needed if more than 32 decoders are connected or use overlong signal line, signal amplification should not be more than 5 times continuously.

✻ 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 (>20mm), be sure not to block the vent, or will affect lifetime of decoder for poor heat dissipation.

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