

# LT-880 DMX/RDM CV Decoder



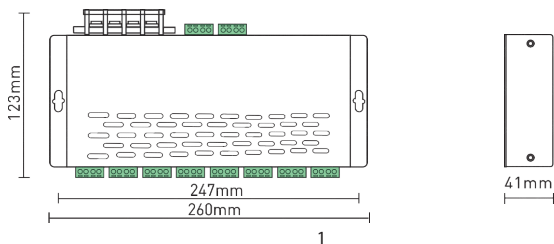
LT-880 with the standard RDM remote device management protocol, supports DMX512 signal bi-directional communication, achieves remote management of reading and writing DMX address (DMX master controller must recognize the RDM protocol).

This compact decoder works with DMX512 console. Realize 0-100% brightness and various changing effect. Equipped with DMX standard 3-pin XLR, RJ45 and green terminal interface, easy to operate. And it can control single color, bi-color, RGB LED lights.

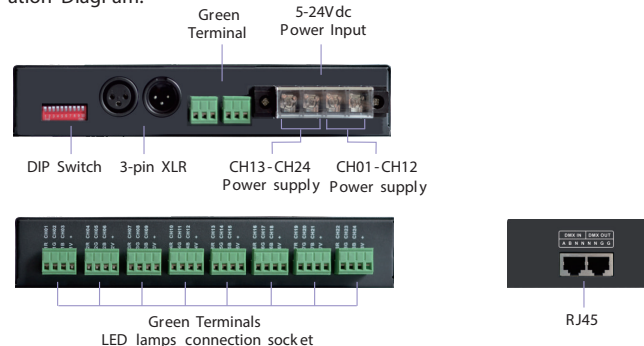
## 1. Product Parameter:

LT-880		
Input Signal:	DMX512/RDM	Output DMX Channel: 24CH
Input Voltage:	5~24Vdc	Working Temperature: -30 ~65
Max Current Load:	3A x 24CH Max 72A	Dimension s: L260xW123xH41mm
Max Output Power:	(0-15...72W) x 24CH Max. 1728W	Package Size: L276xW128xH46mm
DMX512 Socket:	3-pin XLR, RJ45, Green Terminal	Weight(G.W.): 885g
Photoelectric Isolate:	Yes	

## 2. Product Size:



## 3. Configuration Diagram:



## 4. Dip Switch Operation:

0 OFF  
1 ON

1 2 3 4 5 6 7 8 9 10  
DIP ON ↓

RDM Mode: The dip switch 1-10 are OFF.

0 OFF  
1 ON

1 2 3 4 5 6 7 8 9 10  
DIP ON ↓

DMX Mode: FUN=OFF (the 10th dip switch=OFF)  
Setting DMX addresses with dip switch 1-9

0 OFF  
1 ON

1 2 3 4 5 6 7 8 9 10  
DIP ON ↓

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

### 4.1 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. E.g.3: Set Initial Address To 178.

01 002 004 008 016 032 064 128 256 FUN  
DIP ON ↓

001 004 008 016 032 064 128 256 FUN  
DIP ON ↓

001 002 004 008 016 032 064 128 256 FUN  
DIP ON ↓

001+004+032=37

002+016+032+128=178

### 4.2 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	House Race	7 Colors Smooth

1 2 3 4 5 6 7 8 9 10  
DIP ON ↓

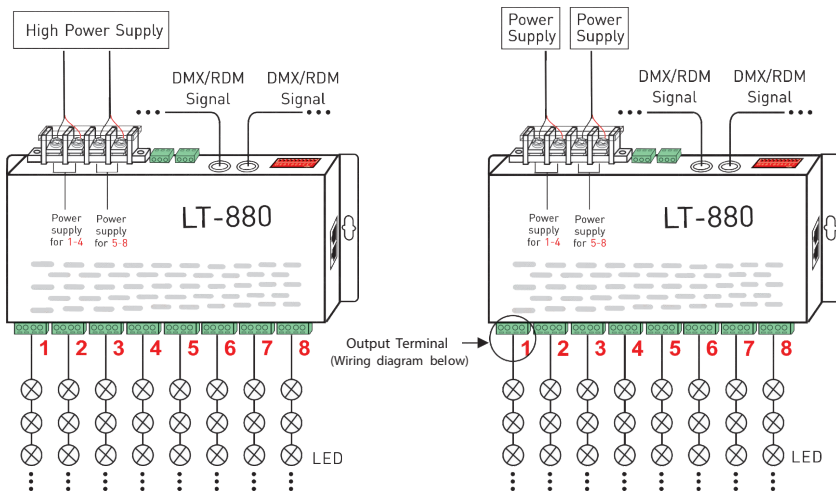
Static Red Static Green Static Blue Static Yellow Static Cyan House Race 7 Colors Smooth

For changing effects (Dip Switch 8/9=on):  
DIP switch 1-7 is used to realize 7 speed levels. (7=on, the fastest level)

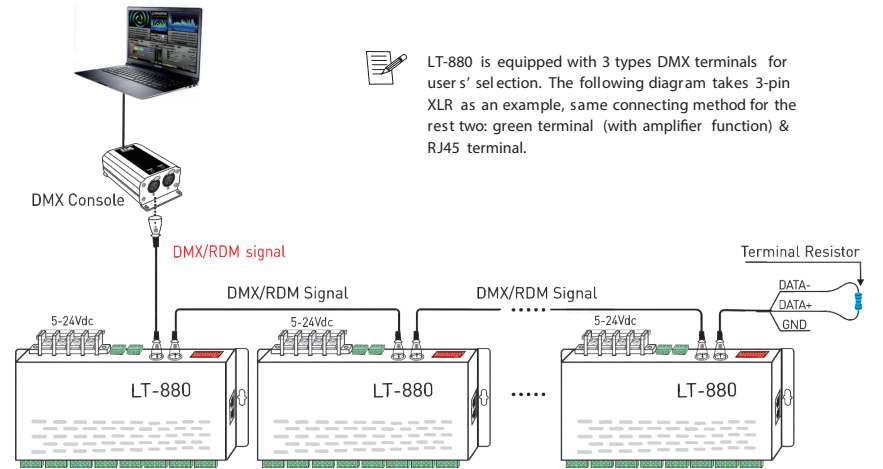
[Attn] When several dip switches are on, subjected to the highest switch value.  
As the figure above shows, the effect will be 7 colors smooth at 7 speed level.

5. Wiring Diagram:

5.1 Connecting LED lights:



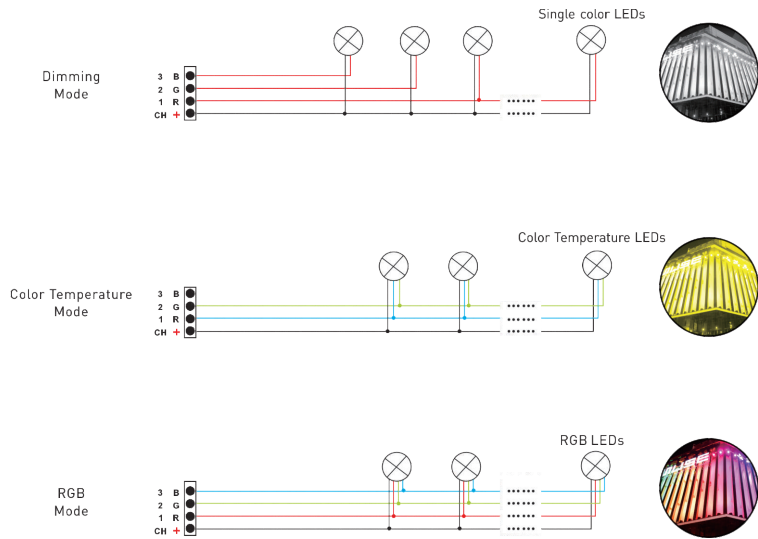
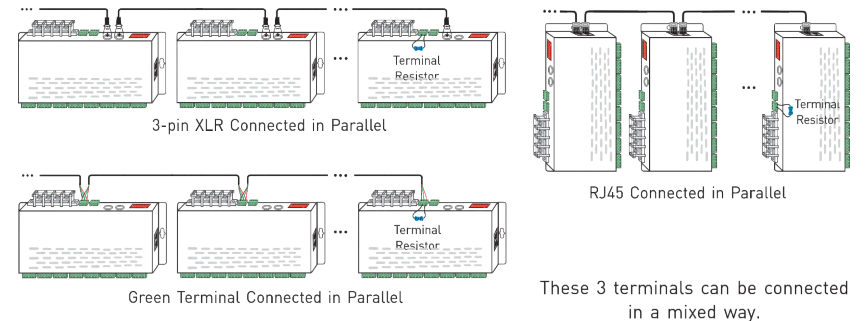
5.2 DMX console connection:



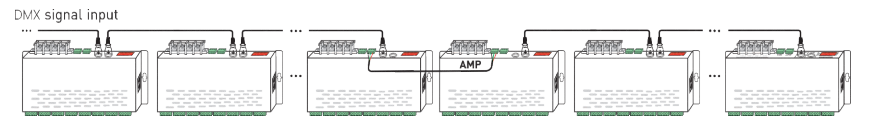
LT-880 is equipped with 3 types DMX terminals for user's selection. The following diagram takes 3-pin XLR as an example, same connecting method for the rest two: green terminal (with amplifier function) & RJ45 terminal.

- \* 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.
- \* An amplifier is needed when more than 32 decoders are connected, signal amplification should not be more than 5 times continuously.

5.3 The connection diagram of three DMX terminals:



5.4 The connection diagram of AMP signal amplifier terminal:



- \* AMP interface can be used for signal amplification when too many DMX decoders are connected or signal line is too long, signal amplification should be no more than 5 times continuously.