

# DMX/RDM CC Decoder



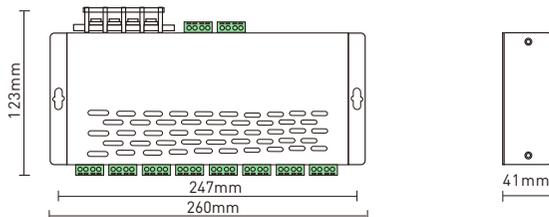
LT-880-350/LT-880-700 with the standard RDM remote device management protocol, supports DMX512 signal bi-directional communication, achieves remote management of reading and writing DMX address [DMX master controller must recognize the RDM protocol].

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.

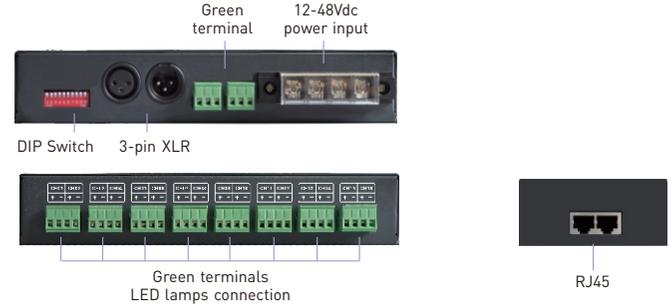
## 1. Product parameter:

Model	LT-880-350	LT-880-700
Input signal	DMX512/RDM	
Input voltage	12-48Vdc	
Output voltage	3-46Vdc	
Output current	CC 350mA×16CH	CC 700mA×16CH
Output power	1.05-16.1W×16CH Max. 257.6W	2.1-32.2W×16CH Max. 515.2W
Photoelectric isolate	Yes	
DMX512 socket	3-pin XLR, RJ45, Green terminal	
Working temp.	-30°C~65°C	
Dimension	L260×W123×H41mm	
Package size	L276×W128×H46mm	
Weight[G.W.]	950g	

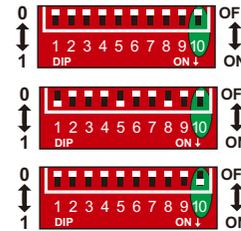
## 2. Product size:



## 3. Configuration diagram:



## 4. Dip switch operation:



**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

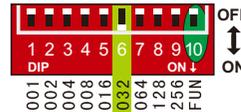
**Self-testing mode:** FUN = ON (the 10th dip switch = ON)

### 4.1 How to set DMX address via dip switch:

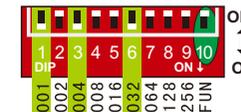
**FUN=OFF** (the 10th dip switch = OFF) **DMX mode**

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.

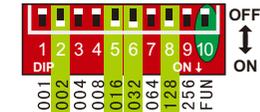


E.g.2: Set initial address to 37.



$001+004+032=37$

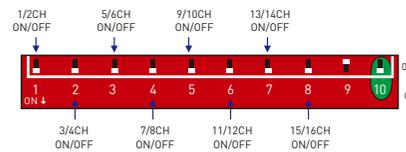
E.g.3: Set initial address to 178.



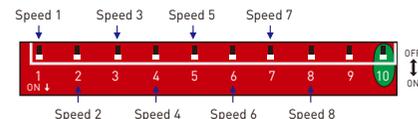
$002+016+032+128=178$

### 4.2 Self-testing mode:

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



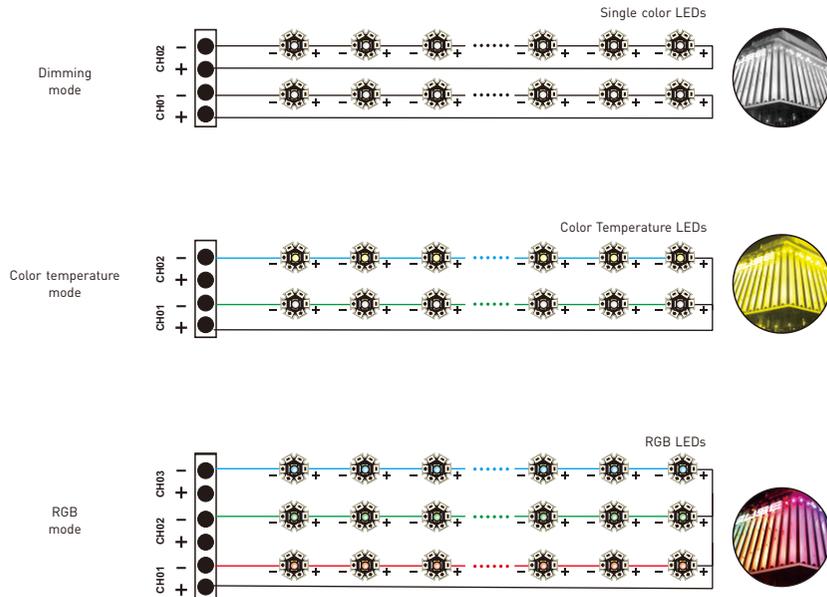
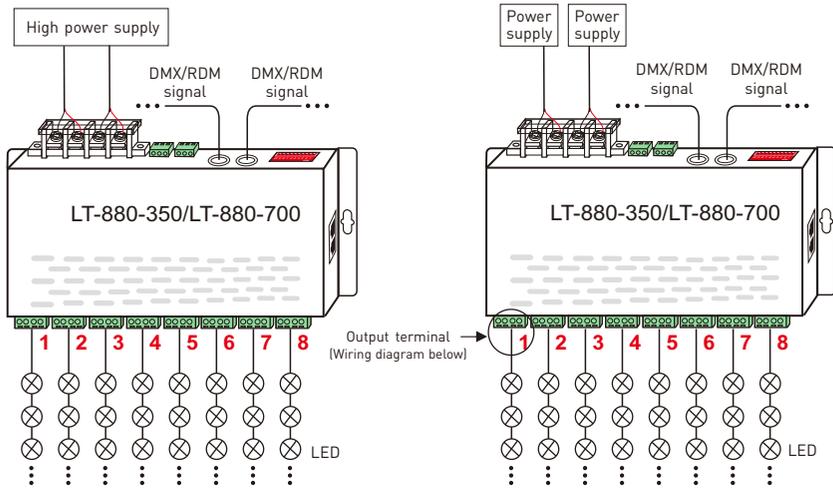
When Dip switch 9 is off, Dip switch 1-8 is to turn on/off 16 channels.



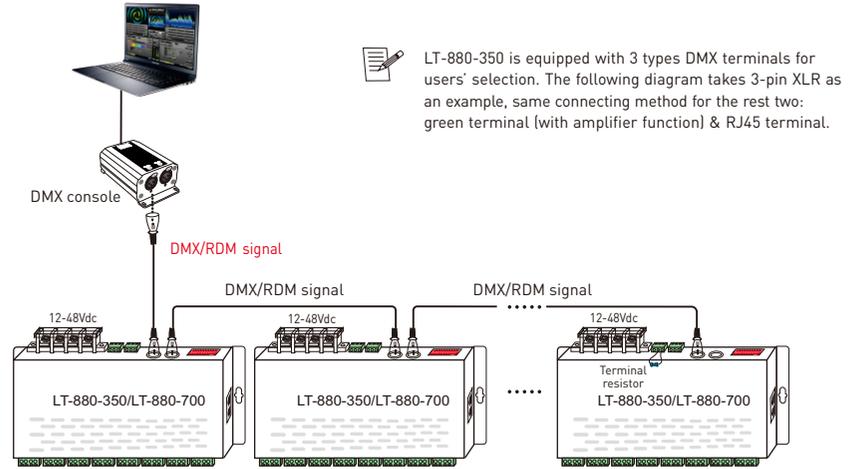
When Dip switch 9 = on, Dip switch 1-8 is to realize 8 speed levels (8=on, the fastest level). Channel 1 light up gradually then dark down; channel 2 light up gradually then dark down...every channel changes in this way until channel 16 light up then dark down.

5. Wiring diagram:

5.1 Connecting LED lights:



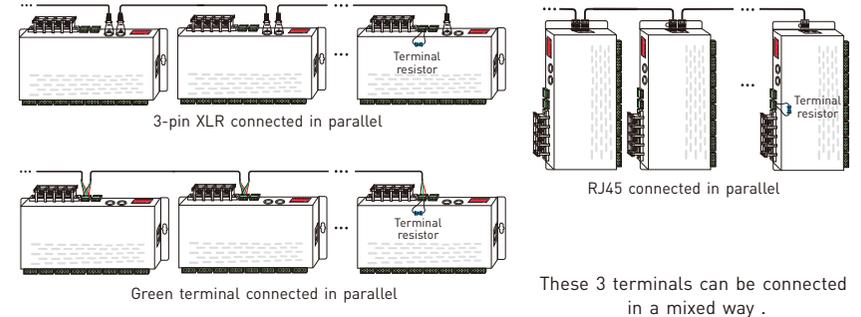
5.2 DMX console connection:



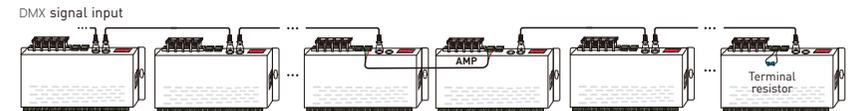
LT-880-350 is equipped with 3 types DMX terminals for users' selection. The following diagram takes 3-pin XLR as an example, same connecting method for the rest two: green terminal (with amplifier function) & RJ45 terminal.

- \* 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 decoder are connected or signal line is too long, signal amplification should be no more than 5 times continuously.