

# LT-880-350 DMX512 CC Decoder

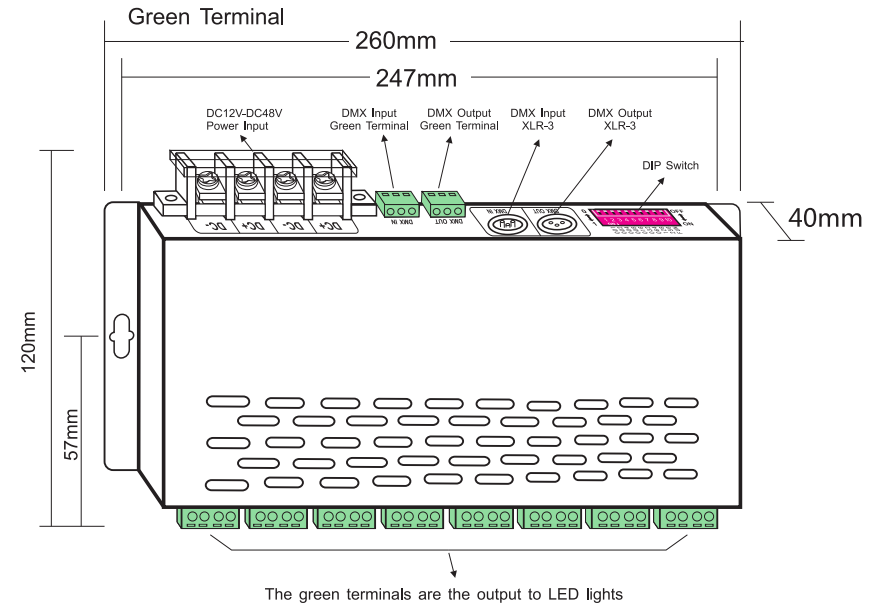


LT-880-350 DMX512 decoder converts the universal standard DMX512 signal into PWM signal to drive LED. this compact decoder work with DMX512 Console, with 256 levels gray scale output per channel. Realize 0-100% brightness and various changing effect. equipped with DMX standard XLR-3, green terminal interface, easy to operate. And it can control single color, two color, RGB LED light.

## 1. Product Parameter:

LT-880-350	
Input Signal	DMX512
Power Supply Chosen	DC CV SMPS
Input Voltage	DC12V~DC48V
Output Voltage	DC3V~DC42V
Output Current	350mA/CH×16CH
Driving LEDs	1~12 pcs 1W LED/CH x16
Output Scale Level	256 Levels/CH(8Bit/CH)
Working Temperature	-30℃~65℃
DMX512 Socket	XLR-3, Green Terminal
Dimension	L260×W120×H40mm
Package Size	L290×W130×H46mm
Weight(G.W.)	860g

## 2. Configuration Diagram:



## 3. How to Set DMX Address Via Dip Switch:

### 1) Set DMX512 Original Address.

Accept DMX512 signal only when the DIP switch FUN=OFF, as Figure 1										
DIP	1	2	3	4	5	6	7	8	9	10
Address	001	002	004	008	016	032	064	128	256	FUN
Specification										
DMX512 initial address code is equal to the total amount of the Dip switches' number from 1 to 9, press Dip switch downward(ON.: at position : "1"), user can get the number of its position, if pressing upward (at position "0"), the number of its position is 0.										



For example, Set initial address to 37:

As figure 2, set the 6th, 3rd and 1st bit of the DIP switch downward to "1", the rest to "0", the total sum from 1 to 9 is 32+4+1, so the DMX512 initial address code is 37.

When FUN=OFF, Decoder is DMX controlling mode, when FUN=ON, Decoder is self-test mode.

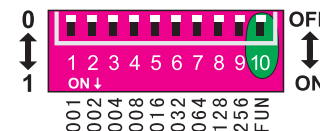


Figure 1

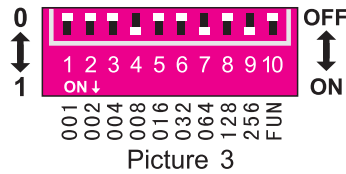


Figure 2

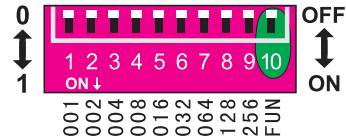


### Example 2: Set initial address to 328

Set the 4<sup>th</sup>, 7<sup>th</sup>, 9<sup>th</sup>, bit of the DIP switch downward to “1” the rest to “0” (as picture 3), the summation from 1 to 9 is 8+64+256, so the DMX512 original address code is 328.



### 2) Testing Function:



As figure, FUN=ON: test function; 1-9DIP switch=OFF: BLACK

DIP1	DIP2	DIP3	DIP4	DIP5	DIP6	DIP7	DIP8	DIP9
Red	Green	Blue	Yellow	Purple	Cyan	White	Scan	Color changing



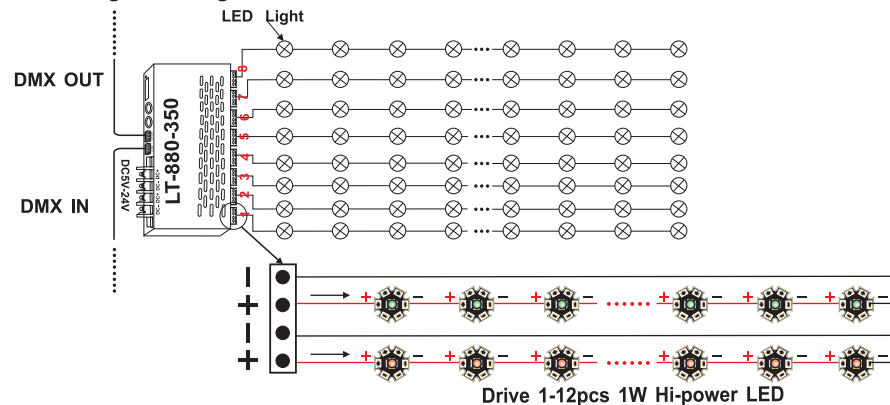
1-7 is to realize 8 speed levels. 7 is the fastest levels while dip switch 1-7=OFF: the speed is 0.

DIP1	DIP2	DIP3	DIP4	DIP5	DIP6	DIP7
Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	Speed 6	Speed 7

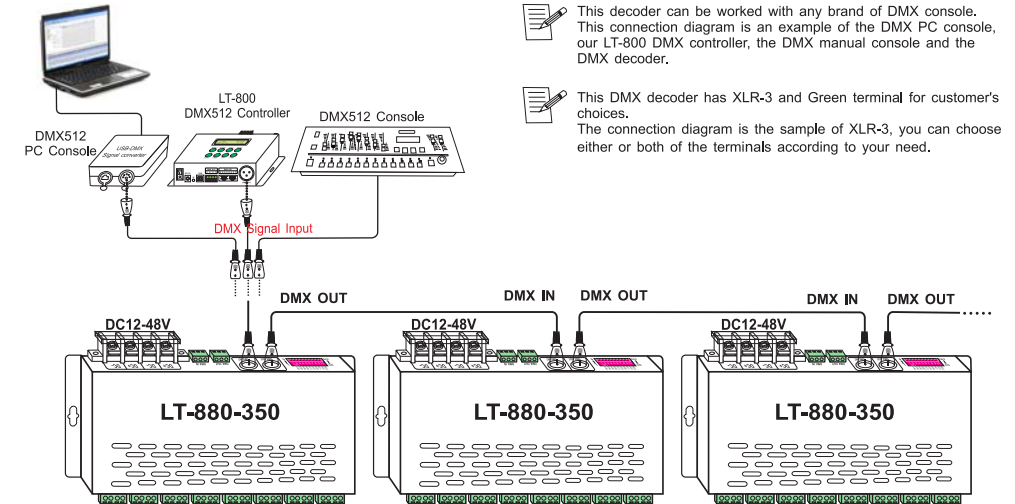
As figure, when several dip switches are on, subjected to the highest switch value, when all the dip switches=ON, it's the color gradual in the test mode, 7 speed level

### 4. Connection Diagram:

#### 1) Connecting LED Light:



### 2) DMX Console Connection



This decoder can be worked with any brand of DMX console. This connection diagram is an example of the DMX PC console, our LT-800 DMX controller, the DMX manual console and the DMX decoder.

This DMX decoder has XLR-3 and Green terminal for customer's choices. The connection diagram is the sample of XLR-3, you can choose either or both of the terminals according to your need.

### 5. Attention:

- 1) The product shall be installed and serviced by a 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 any LED power supplies 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.

### 6. 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 and covers 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. LTECH 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 LTECH only.

★This manual only applies to this model. LTECH reserves the right to make changes without prior notice.