

LT- 880-350 DMX512 CC Decoder



Thanks for choosing our LT-880-350 DMX512 decoder, LT-880-350 DMX512 decoder converts the universal standard DMX512 signal into PWM signal to drive LED. It creates exclamatory, soft & perfect color fade effect by adopting special L-PWM program technology, which makes the LED more colorful and vivid.

1. Product parameter

LT-880-350	
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)
Input signal	DMX512
Output signal	16 CH CC PWM
Working temperature	-30°C~65°C
DMX512 socket	XLR-3, Green terminal
Dimension	L260×W120×H40mm
Package size	L290×W130×H46mm
Weight(G.W)	860g

2. Basic Features

1. Special L-PWM program technology, with more functions;
2. 16 output channels, which can connect signal color or RGB full-color lamps;
3. 0-100% smooth brightness adjusting, 256 grey steps per channel;
4. Universal standard DMX512 input protocol, addresses can be set up by DIP switch;
5. Working voltage from DC12V~DC48V;
6. With 10 auto testing modes and 8 speed adjusting modes;

3. Decoder address setting

FUN at "OFF" is DMX512 signal mode FUN at "ON" is auto testing mode



Picture 1

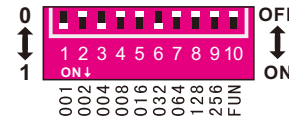
1. DMX initial address setting

FUN at "OFF" (the 10th DIP switch is upward) is DMX512 signal mode, pic 1

DIP Switch	Value	Remark
1	001	This decoder adopts Dip switch to set the address, the Dip switches from 1 to 9 are a kind of binary value coding switches which used for setting DMX512 initial address code, the correlative bits is the 1-9 bits of the DIP switch, the 1 st bit is LSC, the 9 th bit MSC, 511 addresses totally. DMX512 initial address is 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.
2	002	
3	004	
4	008	
5	016	
6	032	
7	064	
8	128	
9	256	

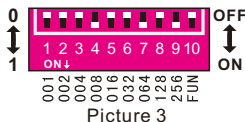
Example 1: Set initial address to 37

Set the 1st, 3rd, 6th, bit of the DIP switch downward to "1" the rest to "0" (picture 2), the summation from 1 to 9 is 1+4+ 32, so the DMX512 initial address code is 37.



Picture 2

Example 2: Set initial address to 328
 Set the 4th, 7th, 9th, 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:



Such as FUN at “ON” (the 10th DIP switch is downward) is testing function. DIP switch 1-9 at “OFF” is Black

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



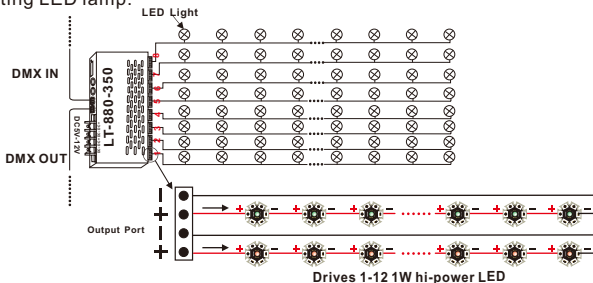
DIP8/DIP9 at “ON” (the 8th/9th DIP switch is downward) is changing mode. DIP switch 1-7 has 8 levels speed changing, DIP 7 is the fastest speed. DIP switch 1-7 at “OFF” is speed 0

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

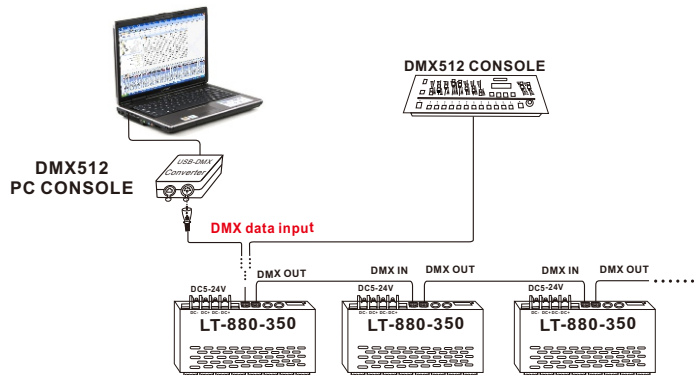
As the above pic, if several DIP switch at “ON”, it is subject to the maximum value. if all DIP switch at “ON”, it is color fade effect of testing function, the speed is 7.

4. Conjunction Diagram

1. Connecting LED lamp:



DMX console connection



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 to avoid the accidents due to overheat and poor contact on the wire.
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 3 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 3 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.