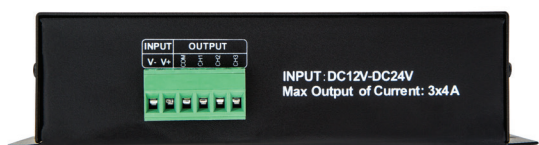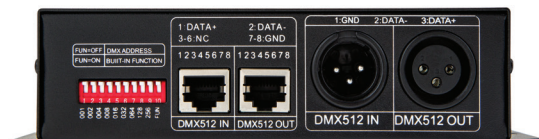*Important: Read all instructions prior to installation.*

DMX Decoder for LED DMX Controllers
3 Channel, 4A

Parts Included

1 - DMX Decoder
1 - Male XLR Connector
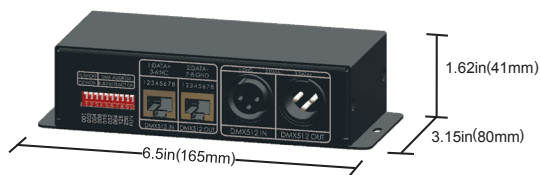1 - Female XLR Connector

Overview

DMX-3CH-4A Decoder converts the universal standard DMX512 signal into PWM signal to drive LED products. This compact decoder works with DMX512 Console, with 256 levels of gray scale output per channel. 0-100% brightness and various changing effects. DMX-3CH-4A is equipped with a DMX standard XRL-3, green terminal interface, RJ45, and it can control single color, two color, three color, or RGB LED lights.
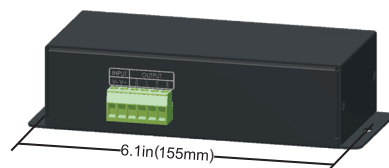
Specifications

Input Signal	DMX512
Input Voltage	DC12V ~ DC24V
Max Load Current	4A/CHx3 CH Max 12A
Max Output Power	144W / 288W (12V/24V)
Output Scale Level	256 Levels/CH(8bit/CH)
Output DMX Channel	3CH CV PWM
DMX512 Socket	XLR-3, Green Terminal, RJ45
Working Temperature	-20°C ~ 60°C
Dimension	6.53 in (166mm) x 2.24in(57mm) x 1.61 in (41mm)
Weight(G.W.)	13.40oz.(380g)

Product Dimensions

1.62in(41mm)
3.15in(80mm)
6.5in(165mm)
Side A

6.1in(155mm)

Setup

Accepts 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
Specifications										

DMX512 initial address code is equal to the total sum of the DIP switches numbered from 1 to 9, Placing the DIP switch in the DOWN position sets it's value to ON. Placing the DIP switch in the UP position sets it's value to OFF.

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
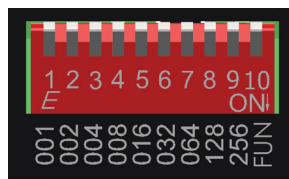When FUN=ON, Decoder is in self-test mode.
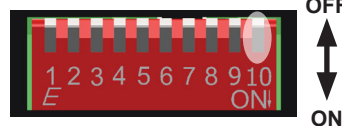

Figure 1

Figure 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 Figure 3). the summation from 1 to 9 is 8+64+256, so the DMX512 original address code is 328.

Figure 3

Testing Function.

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

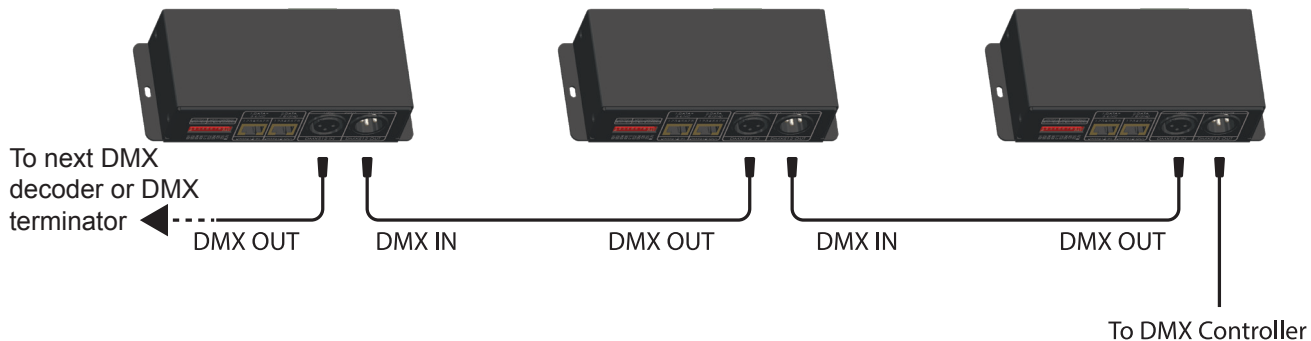| DIP 1	DIP 2	DIP 3	DIP 4	DIP 5	DIP 6	DIP 7	DIP 8	DIP 9
Red	Green	Blue	Yellow	Purple	Cyan	White	Jump	Gradual

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

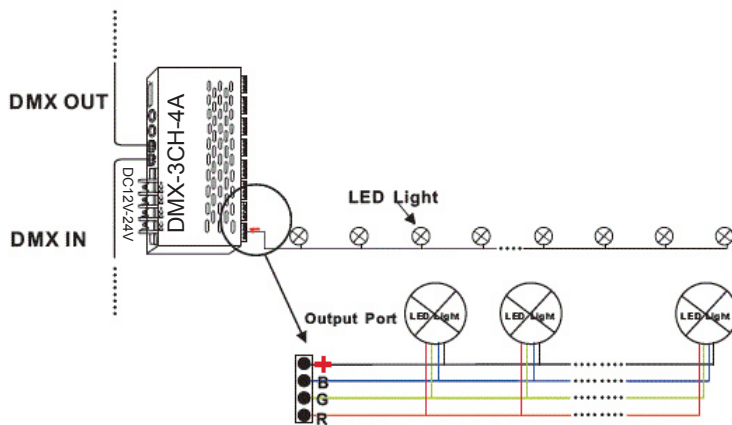| DIP 1	DIP 2	DIP 3	DIP 4	DIP 5	DIP 6	DIP 7
Speed 1	Speed 2	Speed 3	Speed 4	Speed 5	Speed 6	Speed 7

As figure, the color changing mode is selected with a speed level of 7 when all the dip switches=ON.

Connection Diagram for DMX signal

To next DMX decoder or DMX terminator

DMX OUT   DMX IN   DMX OUT   DMX IN   DMX OUT

To DMX Controller

Connection Diagram for LED Lights

DMX OUT

DMX-3CH-4A

DC12V-24V

DMX IN

LED Light

Output Port

+
B
G
R

LED Light   LED Light   LED Light

Warranty Agreement

1. A Lifetime Warranty is given from the date of purchase. The warranty is for free repair or replacement and covers manufacturing faults only.

2. Warranty exclusions:
   • 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 accidents.

3. Repair or replacement as provided under this warranty is the exclusive remedy to the customer. We shall not be liable for any incidental or consequential damages for breach of any stipulation in this warranty.

4. Lifetime warranty is valid for the original purchaser only and is not transferable.

Attention

1. The product shall be installed and serviced by a qualified person.

2. This product is non-waterproof. Avoid the sun and rain. When installed outdoors please ensure it is mounted in a waterproof enclosure.

3. Good heat dissipation will prolong the working life of the controller. Ensure good ventilation.

4. Check if the output voltage of any LED power supplies used comply with the working voltage of the product.

5. Ensure that adequate sized cable is used from the controller to the LED lights to carry the current. 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 return the product to your supplier. Do not attempt to fix the product by yourself.