

4 CH DMX Decoder

Model: LED-410 Decoder

Control: DMX512-A (Meets USITT DMX512/1990)

MAX Output: (10A/Ch1-4) @ DC 12V (3A/Ch1-3)(5A/Ch4) @ DC 24V, 436W total

Applies to all kinds of LEDs controlled by voltage.



LED-410 Decoder Data Sheet

Summary

Thank you for choosing our series of LED-410 Decoder. This new revision of the LED-410 Decoder has a frequency of 5.2 kHz which allows it to be used for video applications with no camera flickering, as well as 10 amps per channels 1-4 @ 12 V DC with a total power of 426W. This LED Driver provides you with the freedom to control 4 channels of LED Strips, LED modules, and other types of 12-24 V LED lighting. Each channel provides you control from 1-256 levels of intensity. This driver complies with DMX 512/1990 Protocol. This controller was designed with the A-Grade RGBW Strips in mind. This controller can handle the high amp draw of the RGBW and RGBA Strips.

Product Features

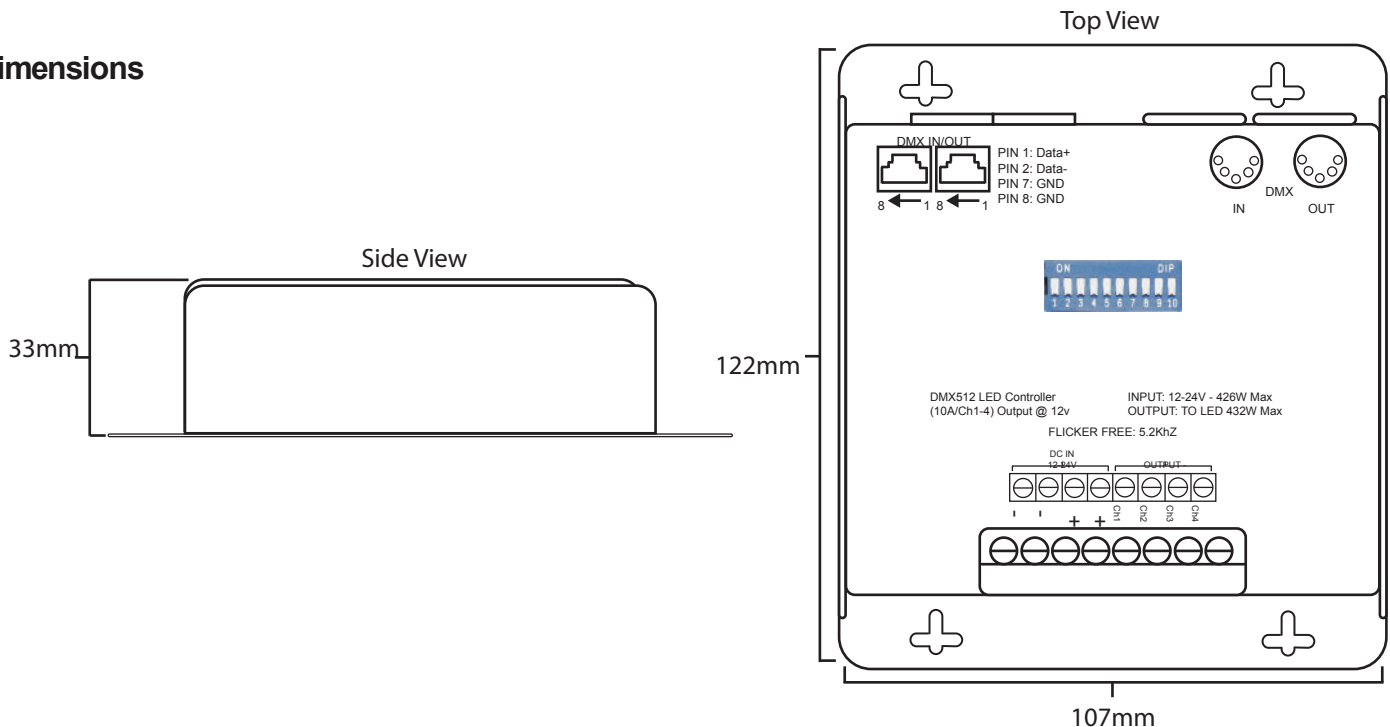
- Meets DMX512/1990
- 256-levels of brightness, full-color with driver controls
- 4 output channels, max 10A for Ch 1- 4
- Can achieve asynchronous color changes effects
- Capable of controlling LED light with 1-4 colors
- Freely set the DMX address 1-512
- Modularizing can be matched with different LED modules

Tech-parameters

Decode CH: 1-4
Signal Input: DMX512-A Digital Signal
Signal Output: 0~V+(V+ is power supply) max 10A/Ch1-4, @ DC12 V output drive
Power Supply: DC 12V-24V
Power Dis. : <1W
Power Output: 12-24 V DC, <426W Total
Ambient Temp. : -10°C~55°C
Size: 122(mm)*107(mm)*33(mm)
Net Weight: 320 Grams
Frequency: 5.2 kHz

***Note: This model of LED-410 is non waterproof, please keep dry at all times.**

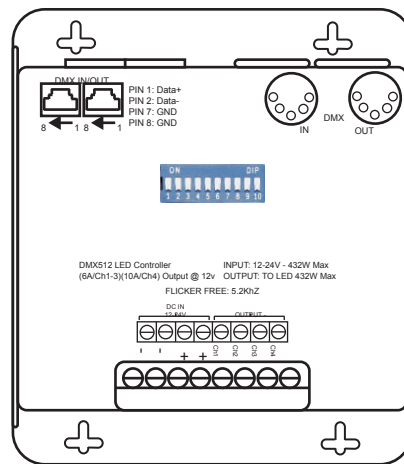
Dimensions



Application Tips

- Place LED-410 Decoder in a ventilated area, Do not install in air tight locations.
- LED-410 Decoder can be installed on top of a metal plate to aid in the heat sinking process.
- Never exceed the limits in the specifications.
- Do not install where moisture is present.
- Always have LED fixtures as close as possible to the LED-410 Decoder to minimize voltage drop due to cable resistance.
- If distance between LED-410 Decoder and LED fixture is greater than 3 meters use at least 14 AWG wire.

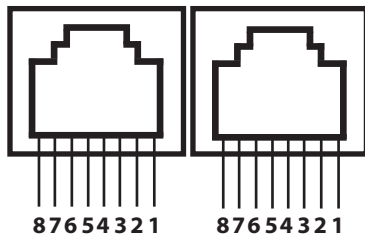
Physical Layout



Legend

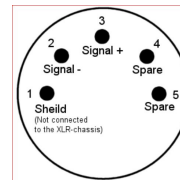
1. RJ45 DMX IN/OUT
2. 5 PIN XLR DMX IN/OUT
3. DMX DIP SWITCH ADDRESS SELECTOR
4. DC 12 V INPUT
5. OUTPUT CHANNELS 1-4 AND COMMON POSITIVE

RJ45 DMX Pinout



Pin1: Data+
Pin2: Data-
Pin7: GND
Pin8: GND

XLR DMX Pinout



DMX pinout consists of 5 pins in most cases.

Pin 2 from the DMX XLR is correspondant to pin 2 in the RJ-45 connector as Data -.

Pin 3 from the DMX XLR is correspondant to pin 1 in the RJ-45 connector as Data +.

Pin 1 from the DMX XLR is correspondant to pin 7 and 8 in the RJ-45 Connector as Ground.

Dip Switch Addressing Samples

The LED-410 Decoder is equipped with a dip switch system which allows you to set your unit to the desired address using a binary code method. Binary code can be tricky to figure out at first, but once it's been mastered, it becomes a really efficient way to address your units.

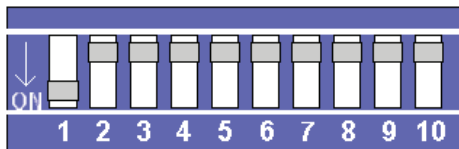
Dip Switch Value Chart

Dip	1	2	3	4	5	6	7	8	9
Value	1	2	4	8	16	32	64	128	256

The chart above can be used to determine the value of each dip switch. Binary code works by adding dip switch values to achieve the desired address.

Addressing Samples

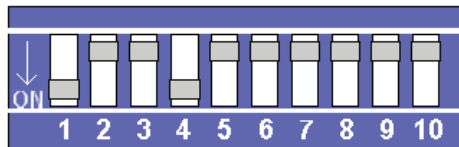
Address 001



Address 005



Address 009



The samples above are intended to help you understand the way binary code works. If you are still having issues addressing your units, you can use this dip switch calculator found online under this link:

<http://www.sabretechnology.co.uk/calc.asp?dmx>

You can also download the DMX2DIP iphone app to aid you in the calculating process.

<https://itunes.apple.com/us/app/dmx2dip/id514122166?mt=8>

***Note**

**We recommend you hire a licensed electrician for any electrical connection, and or installation.
We reserve the right to make changes without any prior notice.

Last revised on 1/19/2015

