

# DMX decoder Series



**DE8018**

## SUMMARIZE:

Thank you for using DMX512 Decoder series. It adopts the advanced micro-computer control technology, it converts the DMX-512/1990 standard digital signal adopted widely in international to the analog control signal. Output 1~3 Channels for option and each channel able to achieve 256 levels of brightness controlling, and also it can be used as the connector of PC digital-light controller and analog light modulator. It is mainly used for the controlling of buildings & lights applied LED.

## Features:

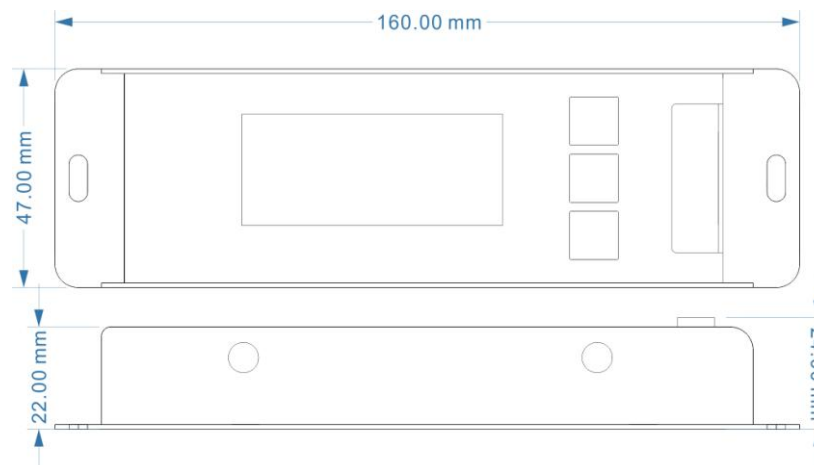
- ◆ Meets DMX512/1990, with RJ45 interface.
- ◆ 256-levels brightness, full-color with driver controls
- ◆ Output 3 channels, Max 6A per channel, Total current is 18A.
- ◆ Can achieve asynchronous color changes effect under working with controller.
- ◆ With the light color selected mechanism, and be able to control the light with 1~3 colors;
- ◆ Setting the DMX address freely
- ◆ Modularizing and can be matched with different LED module neatly.
- ◆ Custom-made.

## Tech-parameter:

Input: DC12-24V	Output: <18A(6A/CH)	Control channels: 3CH
MAX Power: <432W	Frequency: 5000HZ	Signal Input: DMX-512/1990 Digital signal
Work Temp.: 0~70°C	The light gray level: 256	Protection grade: IP40
Gross Weight: 230g	Product size: L160*W47*H 24(mm)	

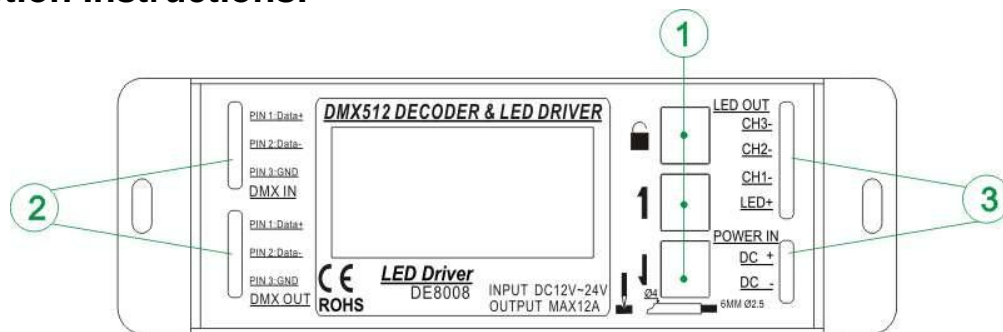
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## Size:



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## Function Instructions:



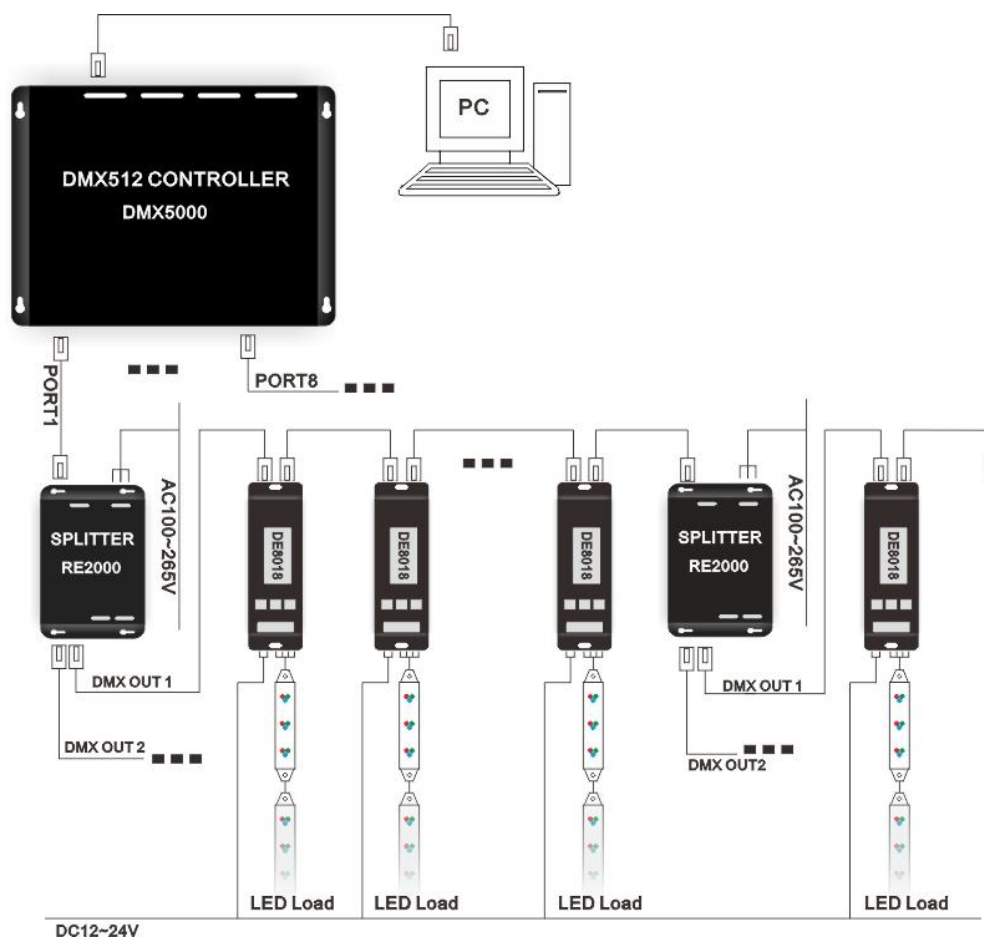
① : Product panel operation instructions, through the digital tube display the address, through the switch control address code, when adjust to the address code of you need, can press lock key and lock the current address code, if in the current state not press the lock key, in 3 seconds the system self-locking address, demand reset address code, first press the unlock key, then set the address code. (in the lock key operation, the third paragraph digital tube will show the corresponding instructions), if in 5 minutes didn't any operation with the switch, so digital tube will close, If want to see the show again, then press the unlock key.

◆ With self test procedures, numerical Settings to 511 address, so is 3 channel CH1 and CH2, CH3 change, if is 512 address, then is colorful gradient effect.

② the DMX input and output of RJ45 cable, PIN1: DATA+ PIN2: DATA- PIN7.8: GND, DMX signals in parallel connection.

③ : 4PIN is driver output interface (of altogether anode output driver, with a LED + interface and 3 channels CH1-CH2-CH3-output interface, may meet all kinds of full-color module and monochrome module automatically according to the lamps module load regulation output pulse). 2 PIN is the power input interface (supply the power for decoder itself and decoder with lamps).

## Wiring Diagram:



## **DMX-512 control signal connection**

◆ DMX signal cable is using shielding twisted-pair cable (microphone cable) or three core cables, DMX signal includes positive and negative, in welding or pressure welding DMX signal cable plug should pay special attention to polarity. DMX512 controller output signal positive, signal negative, signal ground with DE8018 input interface corresponding connection.

◆ DMX5000 each interface can with not more than 170 pieces of DE8018. Through the JBLED FLASH light making software and can with computer on line control. Realize infinite contact the DMX lights.

◆ When contacting 32 pieces of DE8018, DMX signal must add a signal amplifier RE2000 . Cascade can't more than 4 PCS.

◆ At the end of the whole connection, we should connect a DMX signal finalizer (120 Ohm resistor).