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# DMX102 DMX Decoder

## Product Specifications



# Catalogue

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## 1. Summarization

The DMX decoder adopts the advanced micro control unit, it receives standard DMX-512 digital control signal that is widely used in the and transform it into PWM signal to drive LED; the port of DMX signal has lightning protection measures, while the load output has over-current protection circuit; You could connect the DMX decoder with DMX digital console to achieve dimming or various changes in procedures. Not connected with DMX console, you can choose select the built-in 21 kinds of default patterns through the wireless remote control.

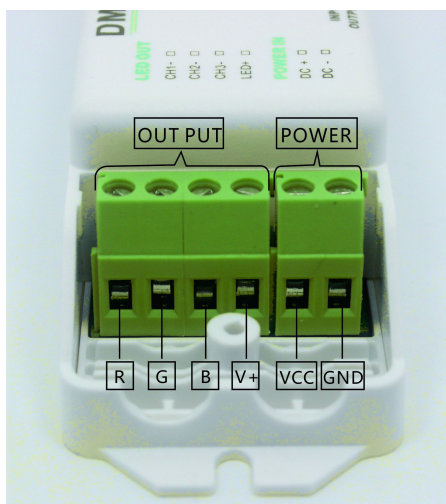
## 2. Technical Parameters

- 2.1 Input voltage: : -20~60℃
- 2.2 Input voltage: : DC5~24V
- 2.3 output: 3 channels
- 2.4 Connection mode: common anode
- 2.5 Standby current:<0.7W
- 2.6 Output current:<=5A (each channel)
- 2.7 Standby power consumption:5V<25W, 12V<60W, 24V<120W (each channel)
- 2.8 External dimension:L165×W39.5×H30.3mm
- 2.9 Packing size: : ?
- 2.10 Net weight:?
- 2.11 Gross weight: ?

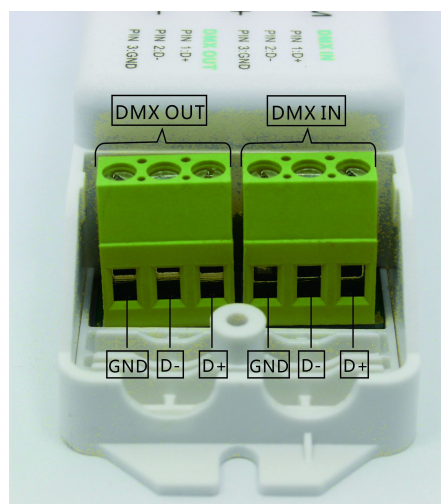
## 3. External Dimension



## 4. Remote Control External Dimension



Power & RGB Interface



DMX IN&DMX out Interface

**POWER:** input interface of power, VCC should be connected with positive of power, GND connected with negative of power, the range of supply voltage is DC5–24V.

**OUT PUT:**load output interface,V+ should be connected with the positive of light, R, G, B connected with negative,correspond to the three channels.

**DMX IN:** input interface of DMX signal, D+ should be connected with positive of signal, D- connected with negative of signal, Gnd connected with ground.

**DMX OUT:**output interface of DMX signal, D+ should be connected with positive of signal, D- connected with negative of signal, Gnd connected with ground.

## 5.Direction for use

### 5.1 Keys

DMX Three keys on DMX Decoder:



“M” sign for switching mode,brightness,speed and DMXj’ s address



“+” sign for forward switching ,brighten up ,speed up and increasing DMX’ s address code



“–” sign for backward switching, brighten down ,speed down and reducing DMX’ s address code

### 5.2 Menu

DMX Decoder menu including built-in Modes,brightness adjustment ,speed regulation and DMX’ s address code setting .Pressing the “Mode” key can switch different menus, with respectively corresponding “M” , “B” , “S” and “D” sign as shown on the top left corner of top cover.

In the menu “M” , freely switch different modes with pressing plus&minus key ,totally

including 21 built-in modes.

In the menu “B”, total 100 grades for adjusting brightness with pressing plus&minus key. It can not be set when the “\*” sign shown on the screen.

In the menu “S”, total 100 grades for changing speed mode with press plus&minus key, It can not be set when the “\*” sign shown on the screen.

In the menu “D”, total 500 address’ s code for switching with pressing plus&minus key.

It will automatically switch to the menu “M” if you don’ t operate the menu “B”, “S” and “D” for a long time.

The decoder will automatically switch to the menu “D” after receiving DMX signal, and it allow to be set the address’ s code at this time, but the built-in modes can’ t be operated. It will automatically return to the built-in mode patter after removing the DMX signal.

### 5.3 DMX address code settings

Each DMX decoder is occupied by 3 DMX’ S address code of setting by menu. Pressing the mode key to DMX’ s address code setting till displaying D on the top left corner, then switching to the address’ s code needed to decode with pressing the plus&minus key, total 510pcs code are available to be set .

For example:

If the DMX controller with start code NO. 37, then Press the plus&minus key of decoder for switching to 37 in the menu D, the decoder will be occupied by NO. 37, 38, 39,

If DMX controller with start code NO. 38, pressing the plus&minus key of decoder for switching to NO. 38, in the menu D. then the decoder will be occupied by NO. 38, 39, 40.

### 5.4 The Built-in Mode

The DMX decoder including 21 built-in modes, each one with different light effect. Pressing the Mode key to the built-in patter and pressing plus&minus key to switch different built-in patter while seeing “M” on the top left corner. For example , it is the sixth built-in patter while shown “M 06” in the menu.

The built-in mode way as below

Item	Function	Remark
1	Static red	Brightness is adjustbale, speed is unadjustable
2	Static green	
3	Static blue	
4	Static yellow	
5	Static purple	
6	Static cyan	

7	Static white	
8	Red light flashing	Brightness and speed are adjustable
9	Green light flashing	
10	Blue light flashing	
11	R/G/B Three-color jumpy changing	
12	Yellow light flashing	
13	Purple light flashing	
14	Cyan light flashing	
15	White light flashing	
16	Seven-color jumpy change	Speed is adjustable, brightness is unadjustable
17	B/R gradual changing	
18	B/G gradual changing	
19	R/G gradual changing	
20	Three color gradual changing	
21	Seven color gradual changing	
0	OFF	

## 6. Typical Applications

