

# High Voltage DMX Decoder

## DMX-S3-DX



Welcome to the DMX-S3-DX High Voltage Decoder. The high voltage decoder is specially designed for high voltage LED strips and LED strings. It can control the high voltage light strips through DMX controller without power supply, so as to increase the control effect for Christmas beauty and street lighting. At the same time, high-voltage products, without the problem of voltage drop, can control longer and farther LED products.

The high voltage decoder inputs 110-240VAC and outputs 3 channels of 110-240VDC, with a maximum load of 1.5A per channel. It can not only control monochrome led strip, but also directly control RGB products, presenting richer lighting effects. High-voltage decoder, supporting DMX/RDM protocol, can remotely modify address parameters through RDM controller, making debugging easier.

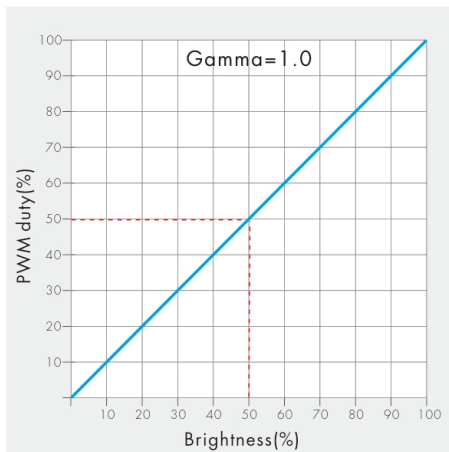
### 1. Specification

Model No.	DMX-S3-DX
Input Voltage	110~240V AC
Input Current	4.6A
Output Voltage	110~240V DC
Output Current	3CH x 1.5A
Output Power	3CH x 165W(110V) / 360W(240V)
Temperature	-30°C ~55°C
IP Rate	IP20
Protection	Over Load

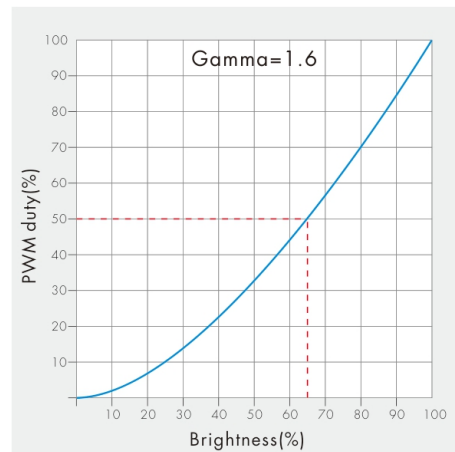
### 2. Feature

- Comply with the DMX512 Standard Protocol
- Support RDM (Remote Device Management), Read/Change the DMX Parameter
- LED Display, Set DMX Address by Buttons
- PWM Frequency (1000/2000/4000/8000Hz)
- Logarithmic or Linear Dimming Curve
- Multi DMX Port: Screw Port, XLR3, RJ45
- Stand Alone RGB Mode

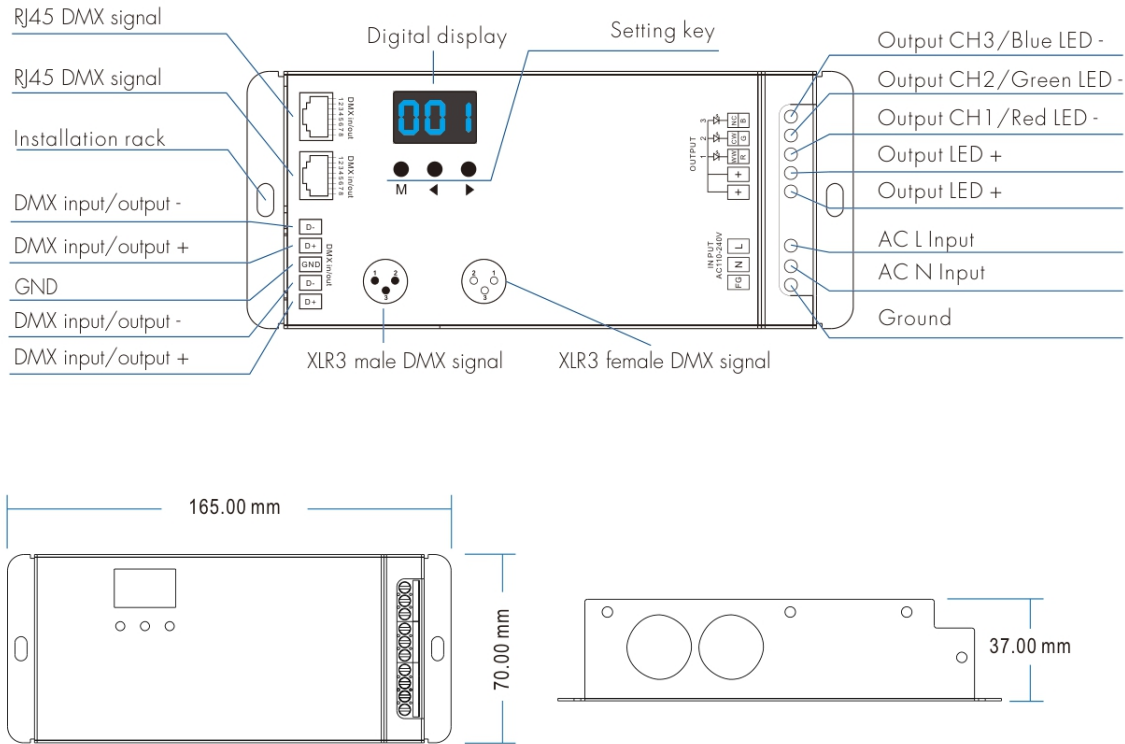
Linear dimming curve



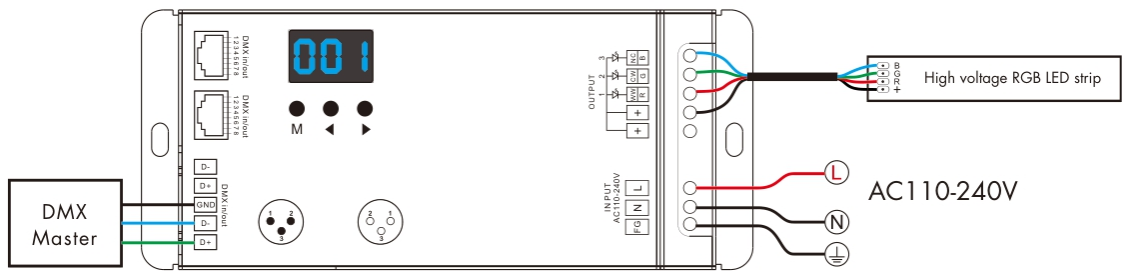
Logarithmic dimming curve



**3. Dimension**



**4. Application**



**Caution:**

This controller apply for high voltage LED strip, please carefully ensure all wire connections and polarities are correct and secure before applying power, otherwise this controller or high voltage LED strip will be damaged.

### 5. System Setting

Long press M and ◀ key in the same time for 2s, prepare for setup system parameter. Short press M key to switch 5 parameters. Short press ◀ or ▶ key, can change the parameter. Long press M key for 2s or timeout 10s, quit system parameter setting.

- Decoder Mode: 1 channel mode(d-1), RGB mode(d-3). 1 channel mode, the decoder occupy only 1 DMX channel, the 3 channel output the same brightness;
- Output PWM frequency: 1000Hz(F10), 2000Hz(F20), 4000Hz(F40), 8000Hz(FF80). Higher PWM frequency, will cause lower output current, but more suitable for camera(No flickers for video);
- Output brightness curve: linear curve(C-L), logarithmic curve(C-E);
- Default output level: 0%(d00), 100%(dFF) when no DMX input signal;
- Automatic turn off the screen: enable(bon), disable(boF)

### 6. DMX Mode

If there is a DMX signal input, will enter DMX mode automatically.

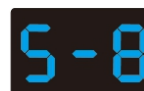


Press ◀ or ▶ key to change DMX address. Long press for fast adjustment.

### 7. Stand Alone RGB Mode

Enter stand-alone RGB mode when DMX signal is disconnected.

- Short Press ◀ or ▶ key can switch the mode: Dimmer(P-H), RGB Mode(P01~P10).
- In P-H Mode, you can adjust the brightness respectively
  - Long press M key for 2s, enter the dimmer mode;
  - Press M key, switch the channels: 100~1FF, 200~2FF, 300~3FF, short press ◀ or ▶ to change the brightness;
- In P01~P10 RGB Mode, you can change speed and brightness:
  - Long press M key for 2s, enter the RGB mode;
  - Press M key, switch the brightness or speed
    - ◆ Speed: 1-10 level (S-1~S-F)
    - ◆ Brightness: 1-10 level (b-1~b-F)



<b>No.</b>	<b>P01</b>	<b>P02</b>	<b>P03</b>	<b>P04</b>	<b>P05</b>
<b>Name</b>	RGB Jump	RGB Fade	6 Color Jump	6 Color Fade	Yellow, Cyan, Purple Fade
<b>No.</b>	<b>P06</b>	<b>P07</b>	<b>P08</b>	<b>P09</b>	<b>P10</b>
<b>Name</b>	RGB Fade	Red Fade	Green Fade	Blue Fade	White Fade