Back Enter Up Down



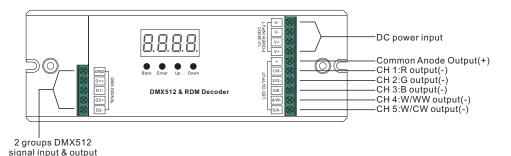






Important: Read All Instructions Prior to Installation

## **Function introduction**



### **Product Data**

Input Voltage	Output Current	Output Power	Remarks	Size(LxWxH)
12-36VDC	5x5A	5x(60-180)W	Constant voltage	170x59x29mm

- DMX512 RDM decoder, RDM function can realize intercommunication between DMX master and decoder. for example, you can set DMX decoder's address by DMX master console.
- Total 5 PWM output channels, common anode, DMX channel quantity from 1CH~5CH settable
- PWM output resolution ratio 8bit , 16bit settable.
- Output PWM frequency from 500HZ ~ 30K HZ settable.
- Output dimming curve gamma value from 0.1 ~ 9.9 settable.
- · Decoding mode settable.
- · Galvanic isolation

### Safety & Warnings

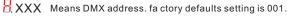
- DO NOT install with power applied to device.
- DO NOT expose the device to moisture.

## Operation

#### **Button introduction**

Up, Down button is for menu selection. After power on the decoder, if keep on clicking Up button, you will find below menu on display:

DMX signal indicator • :: When DMX signal input is detected, the indicator on the display following after 📮 turns on red 📮 XXX



XX Means DMX channels quantity, factory defaults setting is Ch05

Means Bit (8bit or 16bit). factory defaults setting is 16bit

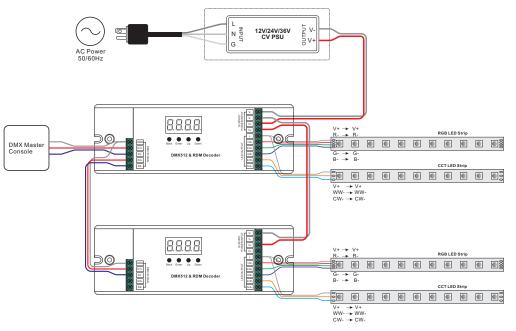
Real XX Means output PWM frequency. factory defaults setting is 1K HZ

Real XX Means output dimming curve gamma value, factory defaults setting is ga 1.5

Read Note 

Means Decoding mode, factory defaults setting is dp1.1

## Wiring Diagram



# Operation

By holding button Back + Enter together at the same time over 5 seconds until the display go off, it will restore default settings.

## 1. DMX address setting:

select menu KXXX, click button "Enter", display flashes, then click or hold button "Up" / "Down" to set DMX address (click is slow, hold is fast.), then click button "Back" to confirm.

## 2. DMX channel quantity setting:

Select menu 🖁 🖁 XX , click button "Enter", display flashes, then click button "Up" / "Down" to set DMX channel quantity, then click button "Back" to confirm. For example the DMX address is already set 001. CH01=1 DMX address for all the output channels, which are all address 001. CH02=2 DMX addresses, output 1&3 is address 001, output 2,4&5 is address 002 CH03=3 DMX addresses, output 1, 2 is address 001,002, output 3,4&5 is address 003 CH04=4 DMX addresses, output 1,2,3 is address 001,002,003, output 4&5 is address 004 CH05=5 DMX addresses, output 1,2,3,4,5 is address 001,002,003,004,005.

#### 3. PWM output resolution Bit setting:

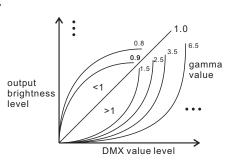
select menu **XX**, click button "Enter", display flashes, then click button "Up" / "Down" to choose 08 or 16 bit, then click button"Back" to confirm.

## 4. output PWM frequency setting:

select menu  $\bigcap XX$ , click button "Enter", display flashes, then click button "Up" / "Down" to choose 00~30, then click button "Back" to confirm. 00=500HZ, 01=1kHZ, 02=2kHZ.....30=30kHZ.

# 5. output dimming curve gamma value setting:

select menu RXX, click button "Enter", display flashes, then click or hold button "Up" / "Down" to choose 0.1~9.9, then click button "Back" to confirm.



## 6. DMX decoding mode setting:

Select menu XX, click button "Enter", display flashes, then click or hold button "Up" / "Down" to choose the decoding mode, then click button "Back" to confirm. "dPxx" means the DMX address quantity used for control of corresponding PWM output channel quantity. 1st "x" is DMX address quantity, 2nd "x" is PWM channel quantity.

Micro dimming: the micro dimming effect can only be visible when the dimming curve gamma value is set lower than 1.4, and the lower the value is, the more visible the micro dimming effect will be.

### DMX address is 001, CH01

# DMX address is 001, CH02

DMX Console Slider number DMX channel	dp1.1	dp2.1
1	for all output dimming	for all output dimming
2	No use	for all output micro dimming

DMX Console Slider number DMX channel	dp1.1	dp2.1	dp3.2
1	for output 1&3 dimming	for output 1&3 dimming	for output 1&3 dimming
2	for output 2,4 &5 dimming	for output 1&3 micro dimming	for output 2,4 &5 dimming
3		for output 2,4 &5 dimming	for all output dimming
4		for output 2,4&5 micro dimming	

### DMX address is 001, CH03

DMX Console Slider number DMX channel	dp1.1	dp2.1	dp4.3	dp5.3
1	for output 1 dimming	for output 1 dimming	for output 1 dimming	for output 1 dimming
2	for output 2 dimming	for output 1 micro dimming	for output 2 dimming	for output 2 dimming
3	for output 3,4 &5 dimming	for output 2 dimming	for output 3,4&5 dimming	for output 3,4&5 dimming
4		for output 2 micro dimming	for all output master dimming	for all output master dimming
5		for output 3,4 &5 dimming		strobe effects
6		for output 3,4&5 micro dimming		

### DMX address is 001, CH04

DMX Console Slider number	dp1.1	dp2.1	dp5.4	dp6.4
DMX channel				
1	for output 1 dimming	for output 1 dimming	for output 1 dimming	for output 1 dimming
2	for output 2 dimming	for output 1 micro dimming	for output 2 dimming	for output 2 dimming
3	for output 3 dimming	for output 2 dimming	for output 3 dimming	for output 3 dimming
4	for output 4&5 dimming	for output 2 micro dimming	for output 4&5 dimming	for output 4&5 dimming
5		for output 3 dimming	for all output master dimming	for all output master dimming
6		for output 3 micro dimming		strobe effects
7		for output 4 &5 dimming		
8		for output 4&5 micro dimming		

## DMX address is 001, CH05

Dinx address is out, office						
DMX Console Slider number DMX channel	dp1.1	dp2.1	dp6.5	dp7.5		
1	for output 1 dimming	for output 1 dimming	for output 1 dimming	for output 1 dimming		
2	for output 2 dimming	for output 1 micro dimming	for output 2 dimming	for output 2 dimming		
3	for output 3 dimming	for output 2 dimming	for output 3 dimming	for output 3 dimming		
4	for output 4 dimming	for output 2 micro dimming	for output 4 dimming	for output 4 dimming		
5	for output 5 dimming	for output 3 dimming	for output 5 dimming	for output 5 dimming		
6		for output 3 micro dimming	for all output master dimming	for all output master dimming		
7		for output 4 dimming		strobe effects		
8		for output 4 micro dimming				
9		for output 5 dimming				
10		for output 5 micro dimming				

### The data definitions for strobe channel are as follows:

{0, 7},//undefined

{8, 65},//slow strobe-->fast strobe

{66, 71},//undefined

{72, 127},//slow push fast close

{128, 133},//undefined

{134, 189}.//slow close fast push

{190, 195},//undefined

{196, 250},//random strobe

{251, 255},//undefined

## **Restore to Factory Default Setting**

Press and hold down both "Back" and "Enter" keys until the digital display turns off, then release the keys, system will reset and the digital display will turn on again, all settings will be restored to factory default. Default settings are as follows:

DMX Address Code: a001

DMX Address Quantity: SW1=0: ch05, SW1=1: ch04

PWM Resolution Mode: bt16 PWM Frequency: pf01

Gamma: ga1.5 Decoding Mode: dp1.1

## The supported RDM PIDs are as follows:

DISC\_UNIQUE\_BRANCH
DISC\_MUTE
DISC\_UN\_MUTE
DEVICE\_INFO
DMX\_START\_ADDRESS
IDENTIFY\_DEVICE
SOFTWARE\_VERSION\_LABEL
DMX\_PERSONALITY
DMX\_PERSONALITY\_DESCRIPTION
SLOT\_INFO
SLOT\_DESCRIPTION
MANUFACTURER\_LABEL
SUPPORTED\_PARAMETERS