24 Channel DMX512 & RDM Decoder LED Controller P 24-5

09.21812.04295

TUV CE FC RoHS COMPLIANT

Important: Read All Instructions Prior to Installation

Function introduction

12-24V DC power input

3/5 Pin male & female XLR terminal:
DMX512 signal input & output

2xRJ45 terminal:
DMX512 signal
input & output

DMX512 & RDM Decoder

Back Enter Up Down

LED Output 1 | + | 1- | 2- | 3- | 4-   LED Output 2 | + | 5- | 6- | 7- | 8-   LED Output 3 | + | 9- | 10- | 11- | 12-

Group 1:
4 channels output

Group 2:
4 channels output

Group 3:
4 channels output
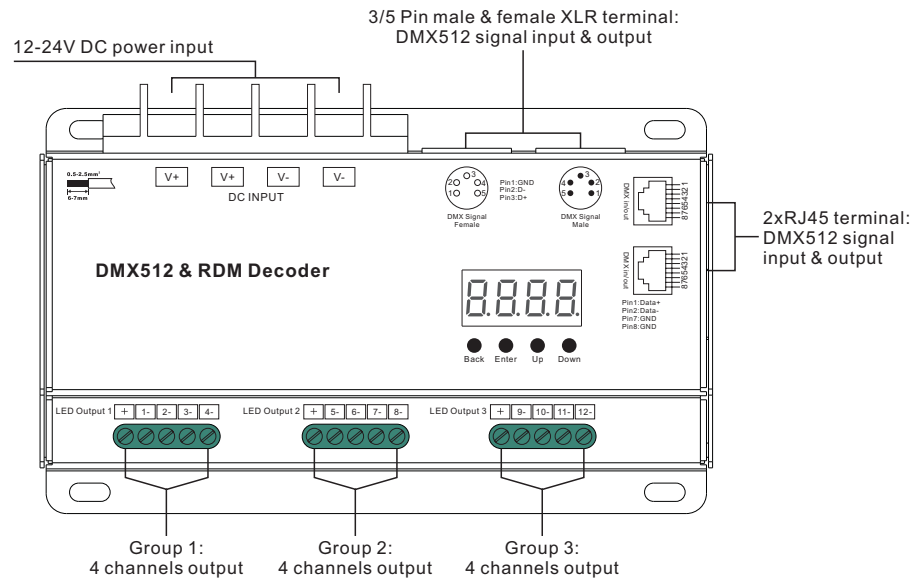
Product Data

Input Voltage	Output Current	Output Power	Remarks	Size(LxWxH)
12-24VDC	12x3A	12x(36-72)W	Constant voltage	165.5x99.7x38mm
12-24VDC	12x5A	12x(60-120)W	Constant voltage	165.5x99.7x38mm

• 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.

• Metal housing, digital display to show data directly, easily to set and show DMX address.

• With multiple kinds of DMX in/out ports: RJ 45, XLR , normal screws.

• Total 12 PWM output channels, common anode. DMX channel quantity from 8CH~12CH 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.

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,
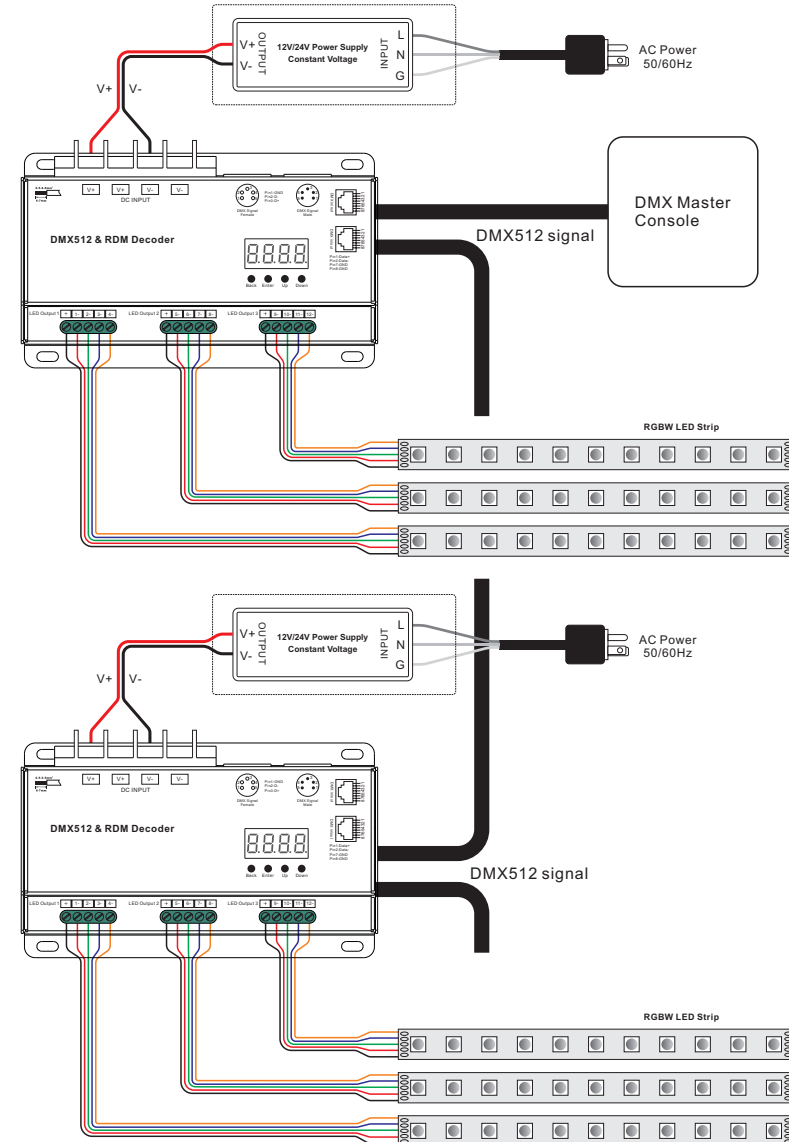if keep on clicking Up button, you will find below menu on display:

DMX signal indicator ● :: When DMX signal input is detected, the indicator on
the display following after 8 turns on red 8.XXX .

Back Enter Up Down

8.XXX Means DMX address. fa ctory defaults setting is 001.

88.XX Means DMX channels quantity. factory defaults setting is Ch05

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

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

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

8P.XX Means Decoding mode, factory defaults setting is dp1.1

Wiring diagram

V+ V-

12V/24V Power Supply
Constant Voltage

OUTPUT INPUT L N G

AC Power
50/60Hz

DMX Master Console

DMX512 signal

RGBW LED Strip

V+ V-

12V/24V Power Supply
Constant Voltage

OUTPUT INPUT L N G

AC Power
50/60Hz

DMX512 signal

RGBW LED Strip

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 𝐀.XXX , 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 𝐂.𝐇.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 𝐛.𝐄.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 𝐏.𝐅.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 𝐠.𝐀.XX , click button "Enter",
display flashes, then click or hold button "Up" / "Down"
to choose 0.1~9.9, then click button"Back" to confirm.
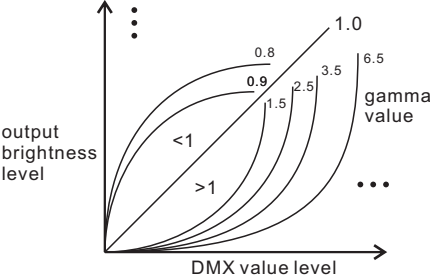
The data definitions for strobe channel are as follows:

{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

Product Dimension

output
brightness
level

1.0
0.8
0.9
1.5
2.5
3.5
6.5
<1
>1
gamma
value

DMX value level