

# 24 Channel Constant Voltage DMX512 Decoder

CE ROHS



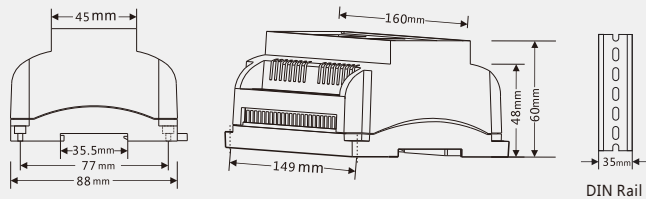
## Technical parameters

- Input voltage: 5-24VDC
- Input signal: DMX512
- Output type: PWM constant voltage
- Output current: 24CH,3A/CH
- Output power: 360-1728W
- Decode number: 1/3/6/24 DMX Channel
- Grey levels: 4096/CH
- Dimming range: 0-100%
- Working temperature: -30°C~55°C
- Dimension: L160×W88×H60mm
- Weight: 263g

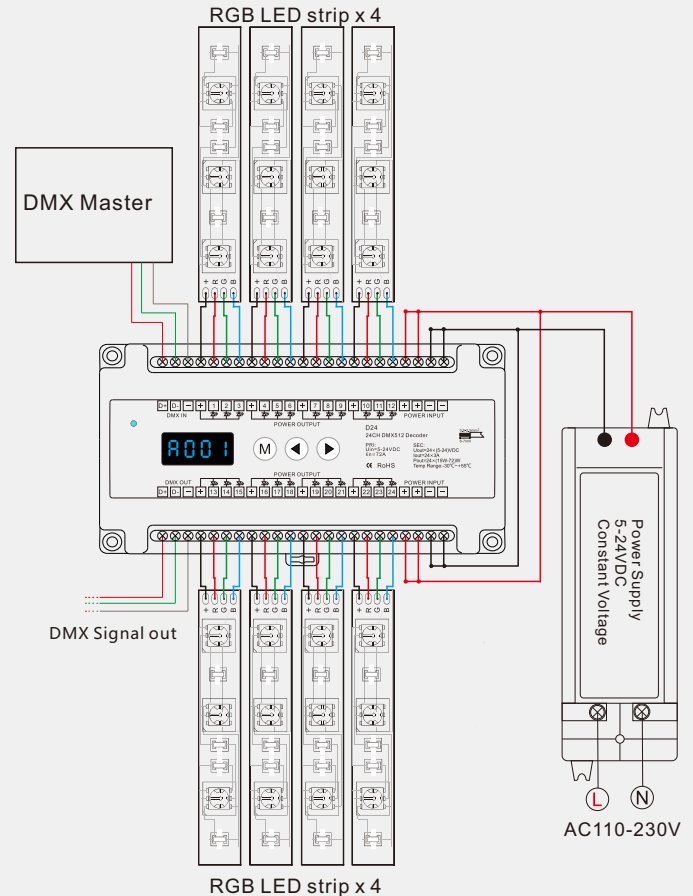
## Summary

- Din rail mounted DMX512 constant voltage decoder, 24 channel output, 3A per channel.
- With standard DMX512 compliant interface, DMX address can be set easily and shown on the digital numeric display.
- It also can work as stand-alone 24ch RGB controller, have 4 kinds dynamic mode.
- It also can work as stand-alone 24ch dimming controller, each channel adjust brightness independently, and save up to 8 groups brightness.
- Work with power repeater to expand output unlimitedly.

## Dimension



## Wiring diagram



## Key Function

### System parameter setting

- Long press M and ◀ key for 2s, prepare for setup system parameter: decode mode, output PWM frequency, output brightness curve, automatic blank screen. short press M key to switch four item.
- Decode mode: short press ◀ or ▶ key to switch 1-channel decode("d--1"), 3-channel decode("d--3"), 6-channel decode("d--6"), and 24-channel decode("d-24").
- Output PWM frequency: short press ◀ or ▶ key to switch 500Hz("F--L") or 2KHz("F--H").
- Output brightness curve: short press ◀ or ▶ key to switch linear curve("C--L") or logarithmic curve("C--E").
- Automatic blank screen: short press ◀ or ▶ key to switch enable ("bon") or disable("boFF") automatic blank screen.
- Long press M key for 2s or timeout 10s, quit system parameter setting.

### DMX mode

- Short press M key, when display A001~2048, enter DMX mode.
- Press ◀ or ▶ key to change DMX decode address(001~2048), long press for fast adjustment.



DMX mode  
(A001~2048)

### Stand-alone RGB mode

- Short press M key, when display P--1~P--4, enter stand-alone RGB mode.
- Press ◀ or ▶ key to change dynamic mode number(P--1~P--4).
- Each mode can adjust speed and brightness.



Stand-alone RGB mode  
(P--1~P--4)

Long press M key for 2s, prepare for setup mode speed, brightness. Short press M key to switch two item.  
Press ◀ or ▶ key to setup value of each item.  
Mode speed: 1-10 level speed(SP-1, SP-9, SP-F).  
Mode brightness: 1-10 level brightness(br-1, br-9, br-F).  
Long press M key for 2s, or timeout 10s, quit setting.



Speed (8 level)      Brightness (10 level,100%)

### RGB change mode list

No.	Name
P--1	White forward jump chase
P--2	White forward smooth float
P--3	Red,yellow, green,cyan,blue,purple forward jump chase
P--4	Red,yellow, green,cyan,blue,purple forward smooth float

### Stand-alone dimmer mode

- Short press M key, when display L--1~L--8, enter stand-alone dimmer mode.
- Press ◀ or ▶ key to change dimmer mode number(L--1~L--8).
- Each dimmer mode can adjust each channel brightness independently.

Long press M key for 2s, prepare for setup four channel brightness. Short press M key to switch 24 channel.

Press ◀ or ▶ key to setup brightness value of each channel.

Long press M key for 2s, or timeout 10s, quit setting.

- Another way to setup channel brightness: Enter DMX mode, long press M key for 2s will save current decode value.



Stand-alone dimmer mode  
(L--1~L--8)

### Restore factory default parameter

- Long press ◀ and ▶ key for 2s, restore factory default parameter, display"RES".
- Factory default parameter: DMX decode mode, DMX first address is 1, 24 channel decode, low PWM frequency output, logarithmic brightness curve, RGB mode number is 1, dimmer mode number is 1, disable automatic blank screen.

## Malfunctions analysis & troubleshooting

Malfunctions	Causes	Troubleshooting
No light	1. No power. 2. Wrong connection or insecure.	1. Check the power. 2. Check the connection.
Wrong color	1. DMX decode address error.	1. Set correct decode address.
Uneven intensity between front and rear,with voltage drop	1. Output cable is too long. 2. Wire diameter is too small. 3. Overload beyond power supply capability. 4. Overload beyond controller capability.	1. Reduce cable or loop supply. 2. Change wider wire. 3. Replace higher power supply. 4. Add power repeater.

## Safety & Warnings

1. The product shall be installed and serviced by a qualified person.
2. This product is non-waterproof. Please avoid the sun and rain.
3. Good heat dissipation will prolong the working life of the controller, please ensure good ventilation.
4. Please check if the output voltage of any power supplies used comply with the working voltage of the product.
5. Ensure all wire connections and polarities are correct and secure before applying power to avoid any damages to the LED lights.
6. If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.

## Warranty Agreement

### 1.5-year warranty:

- The warranty is for free repair or replacement and covers manufacturing faults only.
- Do not include fees of on site maintenance and consumable parts.

### 2. Limited Warranty

- Artificial damage caused by improper use, such as use inappropriate power supply, improper accessories, improper installation, did not follow the instructions, error using or negligence.
- Any damages caused by force majeure, such as natural disaster, abnormal voltage.
- The normal use of products caused by aging, wear and tear, but it does not affect the normal use.