

4CH 12-24V 5A Constant Voltage DMX512 & RDM Decoder

CE ROHS



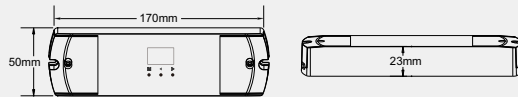
Technical Parameters

- Input voltage: 12-24VDC
- Output type: PWM constant voltage
- Output current: 4CH, 5A/CH
- Output power: 4 x (60-120)W
- Decode number: 1/2/4 DMX Channel
- Dimming range: 0-100%
- Working temperature: -30°C~55°C
- Product size: L170×W50×H23mm
- Packing size: L172×W53×H27(mm)
- Net weight: 130g

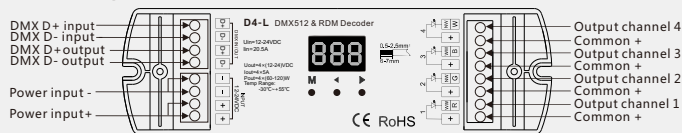
Summary

- DMX512 & RDM decoder, four channel constant voltage output, 5A per channel.
- Comply with the latest DMX512, DMX512(1990), DMX512-A, RDM V1.0 (E1.20 - 2006 ESTA Standard) standard protocols.
- RDM bi-directional communication function, can realize intercommunication between DMX master and decoder. for example, you can set DMX decoder address by DMX master console.
- DMX address can be set easily and shown on the digital numeric display.
- Compatial with our DMX masters such as T12,T13,T15,T16,T17, and any other high quality DMX master.
- It can also work as stand-alone RGB/RGBW controller, have 30 kinds dynamic mode, adjustable speed and brightness.
- It can also work as stand-alone 4 channel dimming controller, each channel adjust brightness independently, and save up to 8 groups brightness.
- Work with power repeater to expand output unlimitedly.

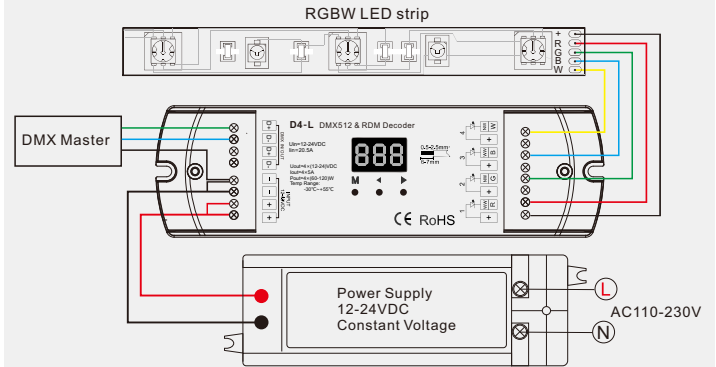
Dimension



Interface Specification



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 one-channel decode("d-1"), two-channel decode("d-2") and four-channel decode("d-4").
- 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("boF") automatic blank screen.
- Long press M key for 2s or timeout 10s, quit system parameter setting.

DMX mode

- Short press M key, when display 001~999, enter DMX mode.
- Press ◀ or ▶ key to change DMX decode address(001~999), long press for fast adjustment.



DMX mode
(001~999)

Stand-alone RGB/RGBW mode

- Short press M key, when display P01~P30, enter stand-alone RGB/RGBW mode.

- Press ◀ or ▶ key to change dynamic mode number(P01~P30).

- Each mode can adjust speed and brightness.

Long press M key for 2s, prepare for setup mode speed, brightness, W channel brightness.

Short press M key to switch three item.

Press ◀ or ▶ key to setup value of each item.

Mode speed : 1-10 level speed(S-1, S-9, S-F).

Mode brightness: 1-10 level brightness(b-1, b-9, b-F).

W channel brightness: 0-255 level brightness(400-4FF).

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



Stand-alone RGB/RGBW mode (P01~P30)



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

RGB change mode list

No.	Name	No.	Name	No.	Name
P01	Static red	P11	Green strobe	P21	Red yellow smooth
P02	Static green	P12	Blue strobe	P22	Green cyan smooth
P03	Static blue	P13	White strobe	P23	Blue purple smooth
P04	Static yellow	P14	RGB strobe	P24	Blue white smooth
P05	Static cyan	P15	7 color strobe	P25	RGB+W smooth
P06	Static purple	P16	Red fade in and out	P26	RGBW smooth
P07	Static white	P17	Green fade in and out	P27	RGBY smooth
P08	RGB jump	P18	Blue fade in and out	P28	Yellow cyan purple smooth
P09	7 color jump	P19	White fade in and out	P29	RGB smooth
P10	Red strobe	P20	RGBW fade in and out	P30	6 color smooth

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 four 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, four channel decode, high 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

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

Warranty Agreement

- 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.
- 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.