User Guide

4 Channel DMX512 Decoder

The DMX512 & RDM decoder D4 which features full support to the latest DMX512 protocols, is designed with 4 channels output. RDM bi-direction communication function enables the DMX512 master console to detect and display decoder information and set DMX address. A variety of features can be set via the numeric digital display and the buttons such as DMX address, DMX decoding mode, PWM output frequency and dimming curve value.

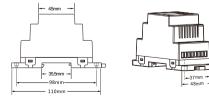
Feature

- Din rail mounted DMX512 decoder with 4 channel constant voltage output.
- DMX decode mode / Stand-alone RGB/RGBW controller mode / Stand-alone 4 channel dimmer mode.
- Standard DMX512 compliant interface, DMX address display, set DMX address freely.
- 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.
- . Compatial with our DMX master and any high quality DMX master from other supplier.
- Under stand-alone RGB/RGBW controller mode, built in 30 mode, include static color, jump, flash or gradual
 change style, adjustable speed and brightness.
- Under stand-alone 4 channel dimmer mode, each channel adjust brightness independently, and save up to 8 groups brightness.
- 1/2/4 DMX channel decode optional.
- High or low PWM frequency optional.
- Log or linear dimming curve optional.
- . Din rail or screw mounted optional.
- · Work with power repeater to expand output unlimitedly.

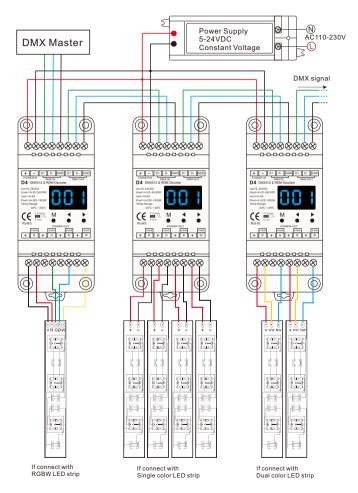
Technical parameter

Model	Name	Input voltage	Output current	Output power	Output type
D4	4CH CV DMX512 decoder	5-24VDC	4CH,5A/CH	4 x (25-120)W	Constant voltage

Dimension



Wiring diagram



Operation

System parameter setting

- Long press M and ◄ key for 2s, prepare for setup system parameter; decode mode. output PWM frequence, 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") or four-channel decode("d-4").
- Output PWM frequence: 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, guit 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.
- . If there is a DMX signal input, will enter DMX mode automatically.



DMX mode $(001 \sim 999)$

Stand-alone RGB/RGBW mode

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



Stand-alone RGB/RGBW mode

(P01~P30)

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

. Enter stand-alone RGB/RGBW mode only when DMX signal is disconnected or lost.

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 (100~1FF, 200~2FF, 300~3FF, 400~4FF).

Press

or

key to setup brightness value of each channel. Long press M key for 2s, or timeout 10s, guit setting.

• Enter stand-alone dimmer mode only when DMX signal is disconnected or lost.



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

Restore factory default parameter

- Factory default parameter: DMX decode mode, DMX first address is 1, four channel decode, high PWM frequence 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	No power. Wrong connection or insecure.	Check the power. Check the connection.
Wrong color	Wrong connection of R/G/B/W wires. DMX decode address error.	Reconnect R/G/B/W wires. Set corrrect decode address.
Uneven intensity between front and rear,with voltage drop	Output cable is too long. Wire diameter is too small. Overload beyond power supply capability. Overload beyond controller capability.	Reduce cable or loop supply. Change wider wire. Replace higher power supply. Add power repeater.

Safety information

- 1. The product shall be installed and serviced by a qualified person.
- 2. The 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
- 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.