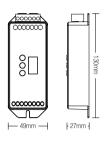
# MIBOXER<sup>®</sup> Subordinate New Brand

# Constant Voltage DMX512 & RDM Decoder

Model No.: D1-CX / D2-CX / D3-CX / D4-CX / D5-CX

### Features

- 1. Accord with DMX512 standard protocol.
- 2. Digital Display, Set DMX initial address through button.
- 3. Support RDM function.
- 4. 2000hz/500hz Output PWM frequency is optional.
- 5. Logarithm/Linear dimming curve is optional.
- 6. Anti-reverse protection function
- 7. Short circuit&Overcurrent protection and recover function.
- 8. self-testing protection function when power on.



#### Parameter

Model No.	D1-CX	D2-CX	D3-CX	D4-CX	D5-CX	
Output	20A/Channel	10A/Channel	6A/Channel	5A/Channel	4A/Channel	
Total Output	Max 20A		Max 18A	Max 20A		
Input Voltage	DC12~24V					
Input Signal	DMX512, RDM					
Connection	Common anode					
Working Temp.	-20~60°C					

### Function Settings

#### 1.Digital Display status description

Self-locking: Get into locking state when there is no operation over 30 seconds, digital display with low light or OFF

Unlock: Long press M button 2 seconds to make digital display with high light, guit self-locking state.

Address always ON: DMX signal valid.

Address flickering: DMX signal invaild.

Err: Short circuit/overcurrent protection; self-recover after 10 seconds.

#### 2. DMX initial address setting

Under unlock status, when digital display show 001-512( for example **3 8 8**), Short press **A** button or ▼ buttom, you can change the DMX initial address; Long press, you can change it quickly.

For Example: Set Initial address to 100

D1-CX	D2-CX	D3-CX	D4-CX	D5-CX
Occupy 1 address	Occupy 2 address	Occupy 3 address	Occupy 4 address	Occupy 5 address
100	100-101	100-102	100-103	100-104

#### 3. System Parameter Setting Instruction

Under unlock status: Long press M button 3 seconds to make digital display show 8.8.8 or 8.8.8 , then get into system parameter setting. By this time, short press M button to switch 4 different parameter setting circularly.

Parameter 1: PWM frequency setting(show 8.8.8. or 8.8.8. ; Short press ▲ button or ▼ button to switch.

Set to PWM high frequency output, 2000Hz. (Factory default parameter)

Set to PWM low frequency output,500Hz.

Parameter 2: Dimming Curve setting(Show	8.8.8. or	<mark>8.8.8</mark> .	), short press <b>A</b>	button or '	V
button to switch.					



E Dimming curve is logarithm dimming. (Factory default parameter) Dimming curve is linear dimming.

Parameter 3: Dimming smoothness setting(show 8.8.8 or 8.8.8 ), short press ▲ button or ▼ button to switch.

**BBB** Smooth dimming. (Factory defaut setting)

8.8.8. Standard dimming.

default parameter)

Parameter 4: Digital display showing setting(show 388 or 888 ) short press ▲ button or V button to switch.

Under self-locking status, digital display always ON (low lighting showing). (Factory

8.8.8. Under self-locking status, digital display OFF.

Exit system mode: long press M button 1 second to exit. Or it will be self exit if there is no operation over 8 seconds.

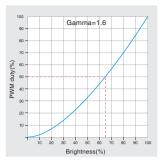
#### 4. Restore factory default.

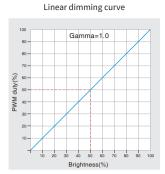
Under unlock status, long press M buttom 10 seconds until digital display show 8.8.5.



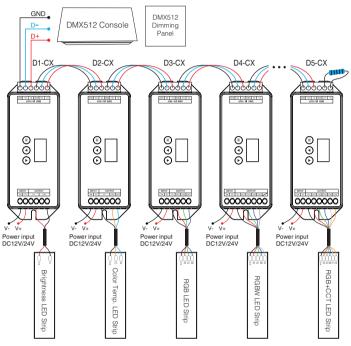
## **Dimming curve diagram**

Logarithmic dimming curve





### **Connection diagram**



#### Attention:

- 1. If the decoder is over 32pcs, or using the super long signal cable, you need DMX signal amplifier. Amplify signal cannot be over 5 times.
- 2. If there is overshoot effect due to the long signal cable or low quality circuit, please connect 0.25W 90-120 $\Omega$  terminal resistance at the end of each DMX sigbal cable.

# Attention

- 1. This product should be debugged and installed by professionals.
- 2. Please check whether the output voltage of the power supply meets the requirements of the product voltage range.
- 3. The product is not waterproof, please install it in the waterproof box when installed outdoors.
- 4. Before switching on the power, please ensure that all wiring is correct, so as not to cause damage to the devices.
- 5. If fault has occurred, non-professionals do not repair it without permission, otherwise the devices will be damaged.





