



# MIBOXER D5-CX Constant Voltage and RDM Decoder User Manual

[Home](#) » [MiBOXER](#) » MIBOXER D5-CX Constant Voltage and RDM Decoder User Manual 

## Contents

- [1 MIBOXER D5-CX Constant Voltage and RDM Decoder](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 Features](#)
- [5 Function Settings](#)
- [6 Parameter 1](#)
- [7 Parameter 2](#)
- [8 Parameter 4](#)
- [9 Connection diagram](#)
- [10 Documents / Resources](#)
- [11 Related Posts](#)



**MIBOXER D5-CX Constant Voltage and RDM Decoder**



## Product Information

The Subordinate New Brand Constant Voltage DMX512 & RDM Decoder, Model No.: D5-CX, is a versatile device that allows for easy control and management of LED lighting systems. It is designed to comply with the DMX512 standard protocol and supports RDM functionality. With various optional features such as adjustable PWM frequency, dimming curve options, and protective functions, this decoder provides a reliable and flexible solution for your lighting needs.

## Features

- Accordance with DMX512 standard protocol.
- Digital Display: Allows for easy configuration and setup.
- Supports RDM function: Enables bidirectional communication between the decoder and the controller.
- Optional Output PWM Frequency: Choose between 2000 Hz or 500 Hz for optimal performance.
- Optional Dimming Curve: Select between logarithmic or linear dimming for desired lighting effects.
- Anti-reverse protection function: Safeguards against reverse polarity connection.
- Short circuit and overcurrent protection: Ensures the safety of the connected devices.
- Self-testing protection function: Automatically tests the system upon power-on to detect any issues.

## Parameter:

- Model No.: D5-CX
- Output (A/Channel): 4A
- Total Output: 27mm
- Input Voltage: Input DC12~24V
- Input Signal Connection: DMX512

- Working Temperature: –

## Product Usage Instructions

### Digital Display Status Description:

The digital display provides status information about the decoder. Here are the different status indications:

- Self-locking: The display locks when there is no operation for 30 seconds.
- Unlock: Long press the “M” button for 2 seconds to make the digital display high light and exit the self-locking state.
- Address always ON: Indicates that the DMX signal is valid.
- Address flickering: Indicates that the DMX signal is invalid.
- Err: Indicates a short circuit/overcurrent protection issue, which will automatically recover after 10 seconds.

### DMX Initial Address Setting:

To set the DMX initial address, follow these steps:

1. Under unlock status, observe the digital display showing “001-512” (e.g., “001”).
2. Press the “M” button to change the DMX initial address. Long press for quick address change.
3. For example, set the initial address to 100. The D5-CX decoder will occupy 5 addresses (100-104).

### System Parameter Setting Instruction:

To adjust system parameters, follow these steps:

1. Under unlock status, long press the “M” button for 3 seconds to enter the system parameter setting mode.
2. The digital display will show either “<1>” or “<2>”.
3. Short press the “M” button to switch between 4 different parameter settings.
4. Parameter 1: PWM frequency setting  
 (“<1>” shows 2000 Hz,  
 “<2>” shows 500 Hz).
5. Parameter 2: Dimming Curve setting  
 (“<1>” shows logarithmic dimming,  
 “<2>” shows linear dimming).
6. Parameter 3: Dimming smoothness setting  
 (“<1>” shows smooth dimming,  
 “<2>” shows standard dimming).
7. Parameter 4: Digital display showing setting  
 (“<1>” shows always ON,  
 “<2>” shows OFF).
8. To exit the system mode, long press the “M” button for 1 second. The system will also self-exit after 8 seconds

of no operation.

## Restore Factory Default:

To restore the decoder to factory default settings, follow these steps:

1. Under unlock status, long press the “M” button for 10 seconds until the digital display shows “ <RST>”.

## Connection Diagram:

Refer to the diagram below for proper connections:



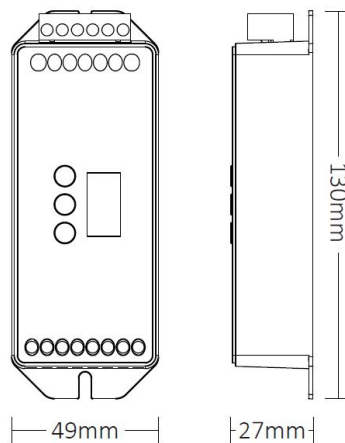
## Important Notes:

- This product should be debugged and installed by professionals.
- Ensure that the output voltage of the power supply meets the product's voltage range.
- The product is not weatherproof, so install it in a weatherproof or waterproof box when used outdoors.
- Before switching on the power, verify that all wiring is correct to prevent damage to connected devices.

DMX and RDM are trademarks of their respective owners. Made in China.

## Features

1. Accord with DMX512 standard protocol.
2. Digital Display, Set DMX's initial address through the button.
3. Support RDM function.
4. 2000 Hz/500 Hz Output PWM frequency is optional.
5. Logarithm/Linear dimming curve is optional.
6. Anti-reverse protection function
7. Short circuit, overcurrent protection, and recovery function.
8. Self-testing protection function when powered on.



## Parameter

Model No.	D5-CX
Output (A/Channel)	4A
Total Output	Max 20A
Input Voltage	DC12~24V
Input Signal	DMX512, RDM
Connection	Common anode
Working Temp.	-20~60°C

## Function Settings

### Digital Display status description

- **Self-locking:** Display locks when there is no operation for 30 seconds.
- **Unlock:** Long press the M button for 2 seconds to make a digital display with high light, and quit the self-locking state.
- **Address always ON:** DMX signal valid.
- **Address flickering:** DMX signal invalid.
- **Err :** Short circuit/overcurrent protection; self-recover after 10 seconds.



### DMX initial address setting

Under unlock status, when the digital display shows 001-512( for example 001 ), short press ▲ button or ▼ button , you can change the DMX initial address; Long press, you can change it quickly.





**For Example:** Set the Initial address to 100

**D5-CX:** Occupy 5 address 100-104





## System Parameter Setting Instruction

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





## Parameter 1

- PWM frequency setting(show  or  short press ▲ button ▼ or button to switch.
  -  Set to PWM high-frequency output, 2000 Hz. (Factory default parameter)
  -  Set to PWM low-frequency output, 500 Hz.





## Parameter 2

- Dimming Curve setting(show  or  short press ▲ button or ▼ button to switch.
  -  The dimming curve is logarithm dimming. (Factory default parameter)
  -  The dimming curve is linear dimming.


## Parameter 3

- Dimming smoothness setting(show  or , short press A button or
- button to switch:
  -  Smooth dimming. (Factory default setting)
  -  Standard dimming.

## Parameter 4

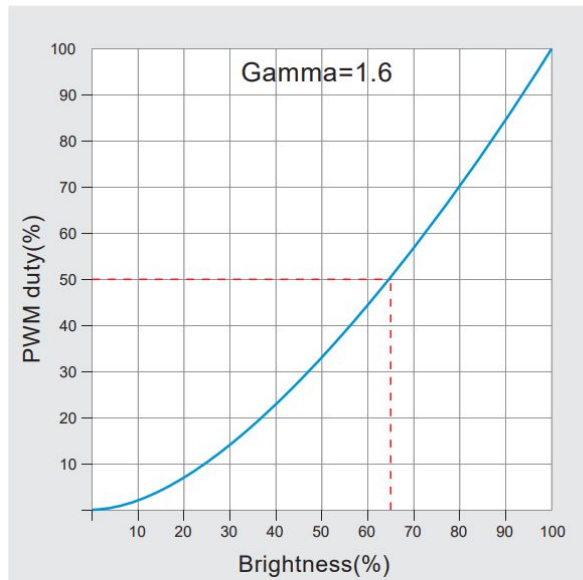
- Digital display showing setting(show  or , short press ▲ button or button ▼ to switch.
  -  Under self-locking status, the digital display is always ON (low lighting showing). (Factory default parameter)
  -  Under self-locking status, digital display OFF.
- Exit system mode: Long press the M button for 1 second to exit. Or it will be self-exit if there is no operation over 8 seconds.

## Restore factory default

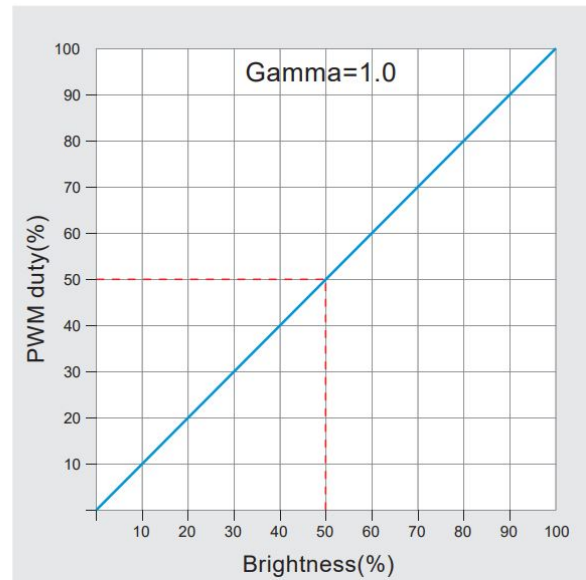
Under unlock status, long press the M button for 10 seconds until the digital display show 

## Dimming curve diagram

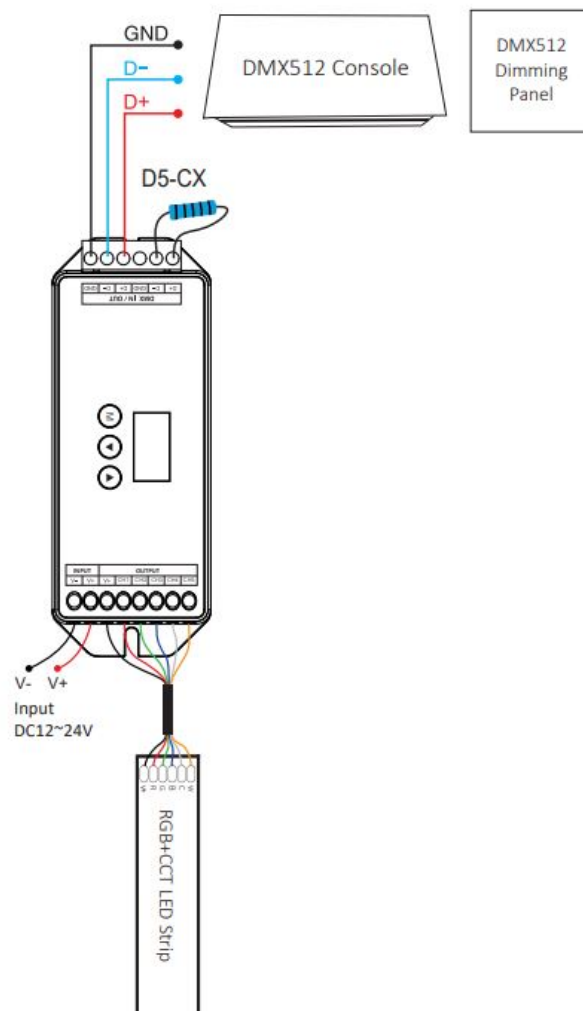
Logarithmic dimming curve



Linear dimming curve



## Connection diagram



## 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 weatherproof, please install it in the weatherproof or waterproof box when installing outdoors.
4. Before switching on the power, please ensure that all wiring is correct, so as not to cause damage to any connected device.

Made in China



Documents / Resources

	<p><a href="#">MIBOXER D5-CX Constant Voltage and RDM Decoder</a> [pdf] User Manual</p> <p>D5-CX Constant Voltage and RDM Decoder, D5-CX, Constant Voltage and RDM Decoder, Voltage and RDM Decoder, RDM Decoder, Decoder</p>
--	---