

## 4 Channel Constant Voltage DMX512 & RDM Decoder

Model No.: D4-M

RDM/DIP switch/XLR3 input/Logarithmic dimming



CE RoHS LVD

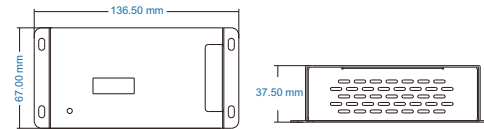
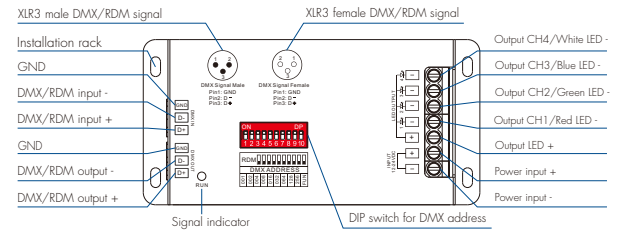
### Features

- Comply with the DMX512 standard protocols.
- Set DMX decode start address via DIP switch.
- RDM function can realize intercommunication between DMX master and decoder.  
For example, DMX decoder address can be set by DMX master console.
- 3-pin XLR and Green terminal DMX signal input & output.
- Over-heat / Over-load / Short circuit protection, recover automatically.

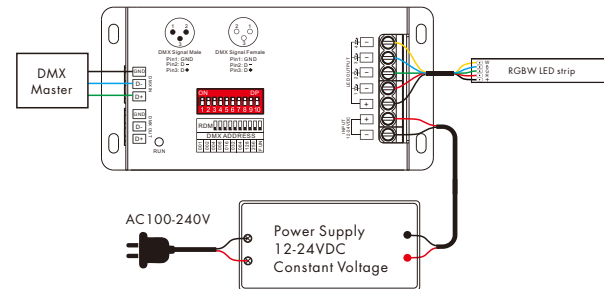
### Technical Parameters

Input and Output		Environment	
Input voltage	12-24VDC	Operation temperature	Ta: -30°C ~ +55°C
Input current	24A	Case temperature (Max.)	Tc: +85°C
Output voltage	4 x (12-24)VDC	IP rating	IP20
Output current	4CH, 6A/CH		
Output power	4 x (72-144)W		
Output type	Constant voltage		
Safety and EMC		Warranty and Protection	
EMC standard (EMC)	EN55032:2015, EN61000-3-2:2014, EN61000-3-2:2013, EN55024 :2010/A1:2015	Warranty	5 years
Safety standard(IVD)	EN 61347-1:2015 EN 61347-2-11:2015	Protection	Reverse polarity Over-heat Over-load Short circuit
Certification	CE, EMC, IVD		
Weight			
Net weight	0.328kg		
Gross weight	0.349kg		

### Mechanical Structures and Installations



### Wiring Diagram



**Note:**

1. An DMX signal amplifier is needed if more than 32 decoders are connected, or use overlong signal line, signal amplification should not be more than 5 times continuously.
2. If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each DMX signal line.

## DIP Switch



**RDM Mode:** The DIP switch 1-10 are all OFF.



**DMX Mode:** FUN=OFF (the 10th DIP switch = OFF)  
Setting DMX addresses with DIP switch 1-9.



**Self-testing Mode:** FUN=ON (the 10th DIP switch = ON)  
Setting self-testing mode with DIP switch 1-9.

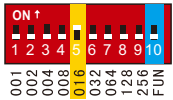
## RDM Mode

When change DIP switch 1-10 to OFF, the defaulted DMX start decode address become 1. then DMX start decode address can be set by DMX/RDM console.

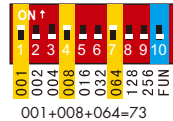
## DMX Mode

DMX start decode address value = the total value of (1-9), to get the place value when "on" position, otherwise will be 0.

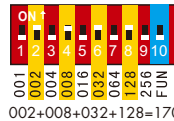
E.g. 1: Set start address to 16.



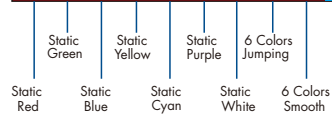
E.g. 2: Set start address to 73.



E.g. 3: Set start address to 170.



## Self-testing Mode



1. For dynamic effects (DIP Switch 8,9 = on) : DIP switch 1-7 is used to get 7 speed levels. (7=on, the fastest level)
2. When several DIP switches are on, subjected to the highest switch value.  
As the figure above shows, the effect will be 6 colors smooth at 7 speed level.

## DMX Dimming

Each D4-M DMX decoder occupy 4 DMX address when connecting the DMX console. For example, the defaulted start address is 1, their corresponding relationship in the form:

DMX Console	DMX Decoder Output
CH1 0-255	CH1 PWM 0-100% (LED R)
CH2 0-255	CH2 PWM 0-100% (LED G)
CH3 0-255	CH3 PWM 0-100% (LED B)
CH4 0-255	CH4 PWM 0-100% (LED W)

## Dimming curve

