

# LCDMXSD-D1-L

## Constant Voltage Single Colour DMX Decoder



### Features

- In compliance with DMX512 standard protocols
- Digital numeric display, start address can be set by using the buttons on the decoder
- RDM function can recognise communication between the DMX master and the decoder  
For example, the DMX decoder address can be set by the DMX master console
- PWM frequency 500-2000Hz selectable
- Logarithmic or linear dimming curve selectable
- Stand-alone dynamic mode and dimmer mode selectable
- Over-heat / short circuit protection

### Technical Parameters

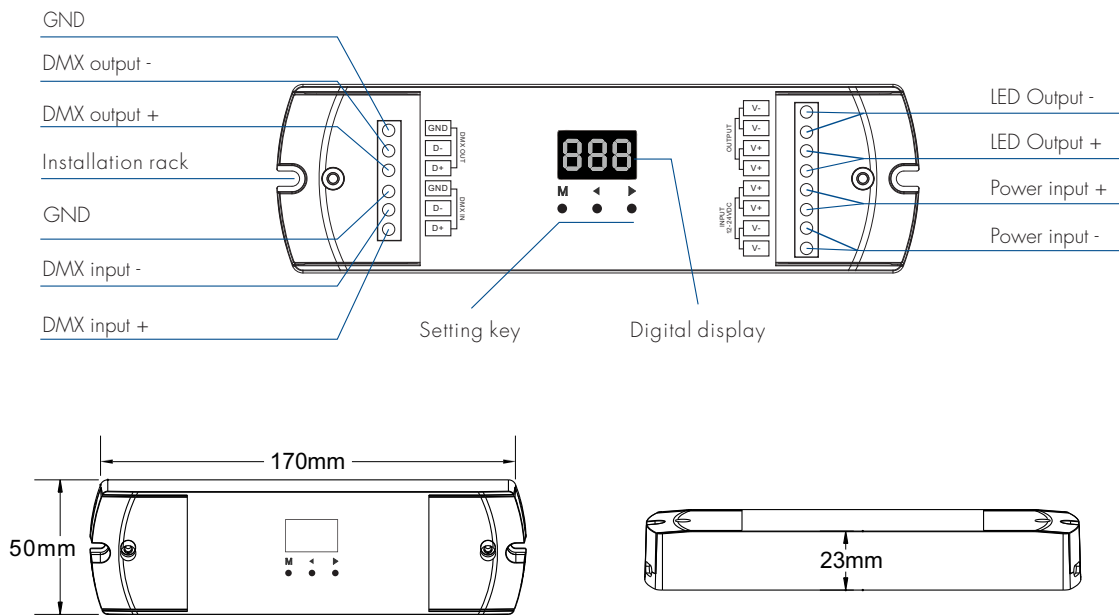
Input and Output	
Input voltage	12-24VDC
Input current	15.5A
Output voltage	12-24VDC
Output current	1CH, 1.5A
Output power	180-360W
Output type	Constant voltage

Environment	
Operation temperature	T <sub>a</sub> : -30°C ~ +55°C
Case temperature (Max.)	T <sub>c</sub> : +85°C
IP rating	IP20

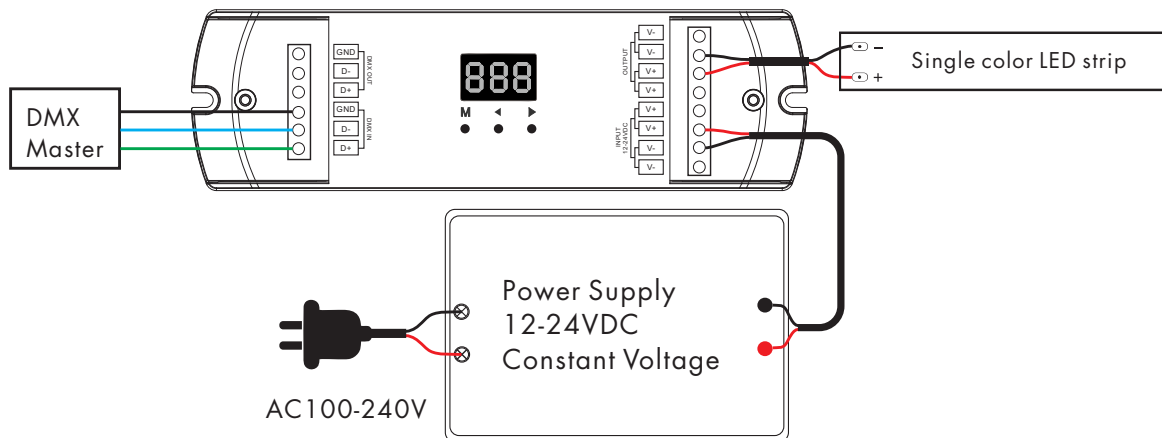
Safety and EMC	
EMC standard (EMC)	EN55032:2015, EN61000-3-2:2014, EN61000-3-2:2013, EN55024 :2010/A1:2015
Safety standard(LVD)	EN 61347-1:2015 EN 61347-2-11:2015
Certification	CE, EMC, LVD

Warranty and Protection	
Warranty	5 years
Protection	Reverse Polarity Over-heat Over-load Short circuit

## Mechanical Structures and Installations



## Wiring Diagram



### Note:

1. An DMX signal amplifier is needed if more than 32 decoders are connected, or by using an extended 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

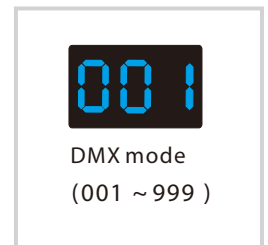
# Operation

## System Parameter Setting

- Long press M and ◀ key in the same time for 2s, prepare for setup system parameter: output PWM frequency, output brightness curve, automatic blank screen. short press M key to switch three item
- Output PWM frequency: short press ◀ or ▶ key to switch 500Hz(“F-L”) or 2KHz(“F-H”) Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera (No flickering for videos)
- 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

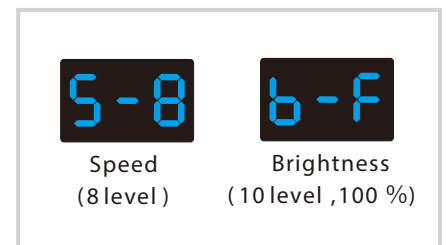
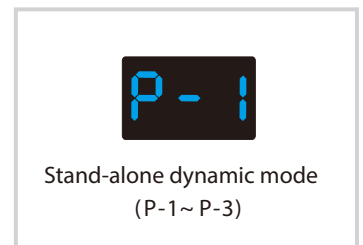
## DMX Mode

- Short press M key, when it displays 001-999, enter DMX
- Press mode ◀ or ▶ key to change DMX decode start address(001-999), long press for fast adjustment
- If there is a DMX signal input, it will enter DMX mode automatically
- DMX Dimming: Each D1-L DMX decoder occupy 1 DMX address when connecting the DMX console



## Stand-alone Dynamic Mode

- Enter stand-alone dynamic mode only when DMX signal is disconnected or lost
- Short press M key, when display P-1-P-3, enter stand-alone dynamic mode
- Press ◀ or ▶ key to change dynamic mode number(P-1-P-3) Each mode can adjust speed and brightness Long press M key for 2s, prepare for setup mode speed and brightness. Short press M key to switch two 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). Long press M key for 2s, or timeout 10s, quit setting

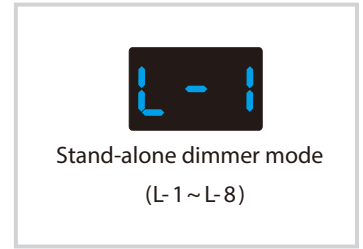


## Dynamic Mode List

No.	Name
P-1	White fade in and fade out
P-2	White jump
P-3	White flash

## Stand-alone Dimmer Mode

- Enter stand-alone dimmer mode only when DMX signal is disconnected or lost
- 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 brightness independently  
Long press M key for 2s, prepare for setup brightness(b00~bFF)  
Press ◀ or ▶ key to adjust brightness value  
Short press M key, or timeout 10s, quit setting

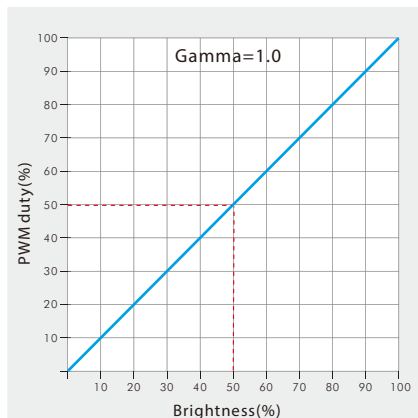


## Restore Factory Default Parameter

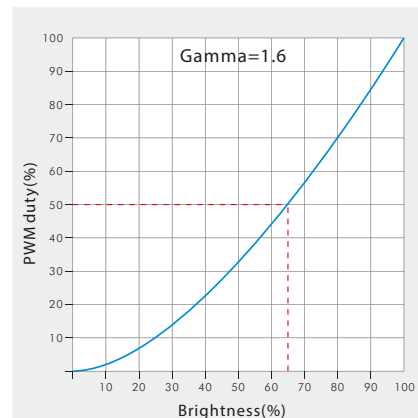
- Long press ◀ and ▶ key for 2s, restore factory default parameter, display"RES".
- Factory default parameter: DMX decode mode, DMX decode start address is 1, high PWM frequency output, logarithmic brightness curve, dynamic mode number is 1, dimmer mode number is 1, disable automatic blank screen.

## Dimming Curve Setting

Linear dimming curve



Logarithmic dimming curve



## Malfunctions Analysis & Troubleshooting

Malfunctions	Causes	Troubleshooting
No light	<ol style="list-style-type: none"> <li>1. No power</li> <li>2. Wrong connection or insecure</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the power</li> <li>2. Check the connection</li> </ol>
Wrong colour	<ol style="list-style-type: none"> <li>1. Wrong connection of R/G/B/W wires</li> <li>2. DMX decode address error</li> </ol>	<ol style="list-style-type: none"> <li>1. Reconnect R/G/B/W wires</li> <li>2. Set correct decode address</li> </ol>
Uneven intensity between front and rear, with voltage drop	<ol style="list-style-type: none"> <li>1. Output cable is too long</li> <li>2. Wire diameter is too small</li> <li>3. Overload beyond power supply capability</li> <li>4. Overload beyond controller capability</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce cable or loop supply</li> <li>2. Change wider wire</li> <li>3. Replace higher power supply</li> <li>4. Add power repeater</li> </ol>

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