

LTECH M4-E DMX/RDM Constant Voltage Decoder User Manual

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Product Introduction

- Standard DMX/RDM interfaces; Set address via the LCD screen and buttons;
- DMX mode and customized mode can be switched;
- PWM frequency options: 300/600/1200/1500/1800/2400/3600/7200/10800/14400/18000Hz (default is 1800Hz);
- 16bit (65536 levels)/8bit (256 levels) gray scale optional;
- Two dimming mode options: standard and smooth dimming;
- Set 1/2/3/4 DMX channel output (default is 4 channel output);
- Provide 10 lighting effects, 8 levels of dynamic mode speed, 255 brightness levels;
- · Set screen timeout, LCD screen always on, and screen turning off after 30s of inactivity;
- Short circuit, over-temperature, over-current protection and auto recovery;
- M4-C has green terminal DMX interfaces, M4-E has RJ-45 DMX interfaces.
- RDM protocol; Browse and set parameters, change DMX address, and recognize devices via a RDM master;

Product Parameters

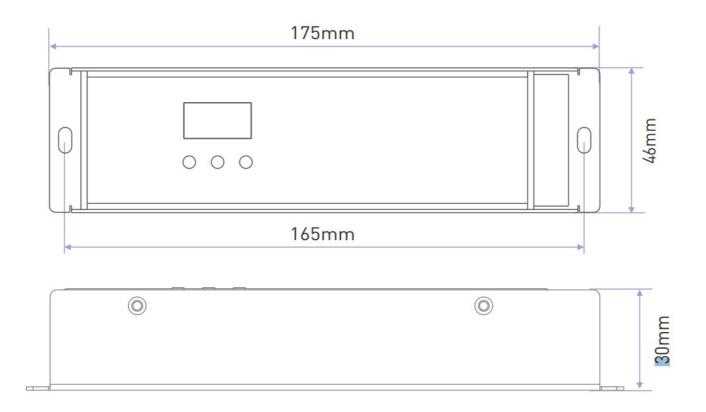
Model	M4-E	M4-C	
Input Signal	DMX512, RDM	DMX512, RDM	
Input Voltage	12-48V	12-48V	
Input Voltage	Max.8A/CH —— Max.24A(4CH)	Max.8A/CH === Max.24A(4CH)	
Output Power	0-96W384W/CH Max.1152W(4CH)	0-96W384W/CH Max.1152 W(4CH)	
Dimming Range	0-100%	0-100%	
DMX Signal Port	RJ45	Green termina	
Working Temp.	-30°C-55°C	-30°C-55°C	
Package Size	L175×W46×H30mm	L175×W46×H30mm	
Dimensions	L187×W52×H36mm	L187×W52×H36mm	
Weight(G.W.)	325g±5g	325g±5g	
Protection	Short circuit, over temperature, over current protection, auto recovery.		

Load parameters

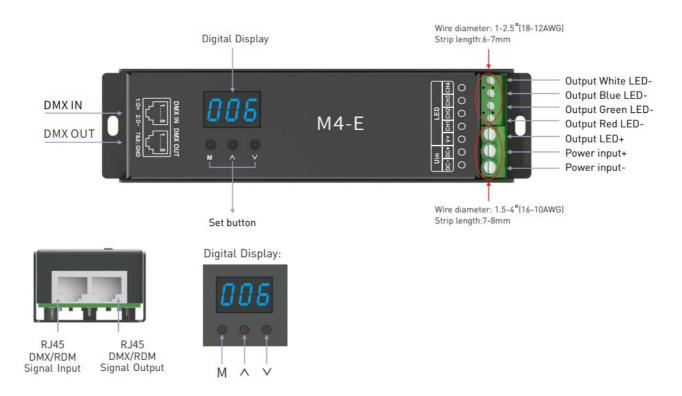
Frequency Curr ent/power Volta ge	300Hz (F=0)	600Hz (F=1)	1.2kHz (F=2)	1.5kHz (F=3)	1.8kHz (F=4)	2.4kHz (F=5)
12V	6A×4CH/288 W 8A×3CH/288 W	6A×4CH/288 W 8A×3CH/288 W	6A×4CH/288 W 8A×3CH/288 W	6A×4CH/288 W 8A×3CH/288 W	6A×4CH/288 W	6A×4CH/288 W
24V	6A×4CH/576 W 8A×3CH/576 W	6A×4CH/576 W 8A×3CH/576 W	6A×4CH/576 W 8A×3CH/576 W	6A×4CH/576 W 8A×3CH/576 W	6A×4CH/576 W	6A×4CH/576 W
36V	6A×4CH/864 W	6A×4CH/864 W	6A×4CH/864 W	6A×4CH/864 W	6A×4CH/864 W	5A×4CH/720 W
48V	6A×4CH/115 2W	6A×4CH/115 2W	6A×4CH/115 2W	6A×4CH/115 2W	6A×4CH/115 2W	5A×4CH/960 W
Frequency Curr ent/power Volta ge	3.6kHz (F=6)	7.2kHz (F=7)	10.8kHz (F=8	14.4kHz (F=9	18kHz (F=A)	
12V	6A×4CH/288 W	4A×4CH/192 W	3.5A×4CH/16 8W	3A×4CH/144 W	2.5A×4CH/12 0W	
24V	5A×4CH/480 W	3.5A×4CH/33 6W	3A×4CH/288 W	2.5A×4CH/24 0W	2.5A×4CH/24 0W	/
36V	4.5A×4CH/64 8W	3A×4CH/432 W	2.5A×4CH/36 0W	2.5A×4CH/36 0W	2A×4CH/288 W	
48V	4A×4CH/768 W	3A×4CH/576 W	2.5A×4CH/48 0W	2.5A×4CH/48 0W	2A×4CH/384 W	

Product Size

Unit: mm

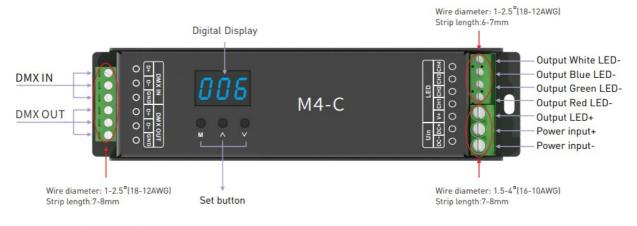


Main Component Description



- Access configuration: Long press the M button for more than 2s.
- Adjust Value: Short press ∧ or ∨ button.
- Exit Menu: Long press M button for 2s again to save the setting, then exit the menu.
- Long press M ∧, Vand ∨ button simultaneously for 2s. When the screen displays RES, it has been reset to
 factory defaults.
- The display locks automatically after 15 seconds of inactivity.

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Digital Display:



Access configuration: Long press the M button for more than 2s.

- Adjust Value: Short press ∧ or ∨ button.
- Exit Menu: Long press M button for 2s again to save the setting, then exit the menu.
- Long press M, ∧ and v button simultaneously for 2s. When the screen displays RES, it has been reset to factory defaults.
- The display locks automatically after 15 seconds of inactivity.

OLED Display Interface

DMX decoder mode



Long press M and \land button simultaneously. When the screen displays "L-1", it enters the DMX decoder mode. Long press M button for 2s to enter the menu.

1. DMX address settings



Press A or V button to set the DMX address.

DMX address range: 001~512

2. Resolution



Short press M button to switch the menu to "r".

Press A or V button to select resolution and the third value on the screen will display 1 or 2.

Options: r-1 (8bit)

r-2 (16bit)

3. PWM frequency



Short press M button to switch the menu to "F".

Press A or V button to select PWM frequency and the third value on the screen will display H or L.

	F-4 (1800Hz)	F-0 (300Hz)	F-1 (600Hz)	F-2 (1200Hz)
Options:	F- 3 (1500Hz)	F-5(2400Hz)	F-6(3600Hz)	F-7(7200Hz)
	F- 8 (10800Hz)	F-9 (14400Hz)	F-A (18000Hz)	

4. Dimming mode



Short press M button to switch the menu to "d".

Press \wedge or \vee button to select the dimming mode and the third value on the screen will display 1 or 2.

Options: d-1 (Smooth dimming)

d-2 (Standard dimming)

5. DMX channels



Short press M button to switch the menu to "C".

Press A or V button to select the channels and the third value on the screen will display 1, 2, 3 or 4.

Options: C-4 (4 channel output occupies corresponding 4 DMX addresses)

C-1 (4 channel output occupies DMX address 1)

C-2 (1 and 3 channel output occupy DMX address 1, 2 and 4 channel output occupy DMX address 2)

C-3 (1 channel output occupies DMX address 1, 2 channel output occupies

DMX address 2, 3 and 4 channel output occupy DMX address 3)

6. Screen timeout



Short press M button to switch the menu to "n".

Press A or V button to select screen timeout and the third value on the screen will display 1 or 2.

Options: n-1 (Screen stays on)

n-2 (Screen turns off after 30seconds of inactivity)

Customized mode



Long press M and \vee button simultaneously. When the screen displays "L-2", it enters the . Long press M button for 2s to enter the menu. Customized mode

1. Lighting effects



e.g. E-1 (no lighting effect)



e.g. E-A (7-color gradient)

Short press M button to switch the menu to "E".

Press \land or \lor button to select the lighting effect and the third value on the screen will display 1, 2, 3, 4, 5, 6, 7, 8, 9 or A.

Options:

E-1 (no lighting effect)	E-6 (Purple)
E-2 (Red)	E-7 (Cyan)
E-3 (Green)	E-8 (White)
E-4 (Blue)	E-9 (7-color jumping)
E-5 (Yellow)	E-A (7-color gradient)

2. Color-changing speed



Short press M button to switch the menu to "S".

Press \wedge or v button to select speed and the third value on the screen will display 1, 2, 3, 4, 5, 6, 7 or 8.

Default: S-5

Options: S-1 / S-2S-7 / S-8



Short press M button to switch the menu to "B".

Press \wedge or \vee button to select the brightness level and the third value on the screen will display 1, 2, 3, 4, 5, 6, 7 or 8.

B00-BFF, 255 levels, default maximum of 255

Options:

B00 / B01 BFF

Brightness levels, brightness increases one by one

4. Screen timeout



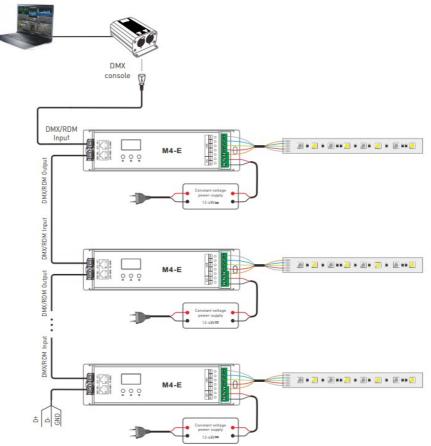
Short press M button to switch the menu to "n".

Press A or V button to select screen timeout and the third value on the screen will display 1 or 2.

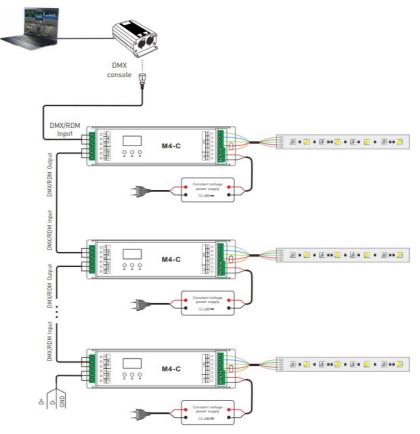
Options: n-1 (Screen stays on)

n-2 (Screen turns off after 30 seconds of inactivity)

M4-E Wiring Diagram



- * When more than 32 DMX decoders are connected, DMX signal amplifiers are needed and signal amplification should not be more than 5 times continuously. If you need to modify the parameter settings of connected DMX/RDM decoders that exceed 32, you can add 1 RDM signal amplifier. Or you can add 1-5 DMX signal amplifiers after completing the parameter settings.
- * If the recoil effect occurs because of long signal line or poor quality wires, please try to connect a 0.25W 90- 120Ω terminal resistor at the end of each line.



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amplifiers after completing the parameter settings.

* If the recoil effect occurs because of long signal line or poor quality wires, please try to connect a 0.25W 90- 120Ω terminal resistor at the end of each line.

Attentions

• This product must be installed and adjusted by a qualified professional.

• LTECH products are and not lightningproof non-waterproof (special models excepted). Please avoid the sun

and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area

equipped with lightning protection devices.

• Good heat dissipation will extend the life the product. Please install the product in a environment with good

ventilation.

• When you install this product, please avoid being near a large area of metal objects or stacking them to prevent

signal interference.

• Please keep the product away from a intense magnetic field, a high pressure area or a place where lightning is

easy to occur.

• Please check whether the working voltage used complies with the parameter requirements of the product.

• Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that

may cause a short circuit and damage the components, or trigger a accident.

• If a fault occurs, please do not attempt to fix the product by yourself. If you have any question, please contact

the supplier.

* This manual is subject to changes without further notice. Product functions depend on the goods. Please feel

free to contact our official distributors if you have any question.

Warranty Agreement

Warranty periods from the date of delivery: 5 years.

Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

Beyond warranty periods.

• Any artificial damage caused by high voltage, overload, or improper operations.

· No any contract signed by LTECH.

• Warranty labels and barcodes have been damaged.

Damage caused by natural disasters and force majeure.

· Products with severe physical damage.

1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or

consequential damage unless it is within the law.

2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.

Documents / Resources



LTECH M4-E DMX/RDM Constant Voltage Decoder [pdf] User Manual

M4-E DMX RDM Constant Voltage Decoder, M4-E, DMX RDM Constant Voltage Decoder, RDM Constant Voltage Decoder, Constant Voltage Decoder, Voltage Decoder, Decoder

References

- LED | LED | LTECH
- User Manual

Manuals+, Privacy Policy