LTECH D4B DMX

NOVA FLEX

Constant Voltage 4 Channel DMX/RDM Decoder

- Standard DMX/RDM interfaces; Set addresses via the digital display and buttons. RDM protocol;
- Browse parameters and change DMX addresses via a RDM master or via the mobile APP .
- DMX mode and customized mode can be switched.
  PWM frequency options: 300/600/1200/1500/1800/2400/3600/7200/10800/14400/18000Hz.
- 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.
- Provide 10 lighting effects, 8 speed levels of dynamic modes, and 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.
- 16.4 feet Max recommended distance to LED load, output side, consult factory on longer distances



D4B

CE FC RDM DMX 16bit RoHS

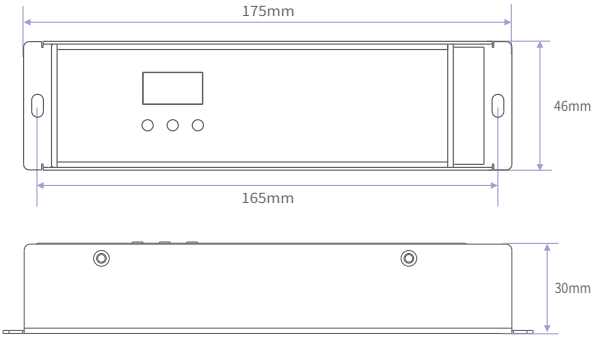
Product Parameters

Model	D4B
Input Signal	DMX512,RDM
Input Voltage	12-48V ⎓
Output Type	Constant Voltage/PWM frequency 1800 Hz default, user selectable options between 300 Hz and 18000 Hz.
Output Current	NEC Class 2 limits apply; to maintain Nova Flex UL listing on attached LEDs. Only power with Class 2 compliant power source.
Output Voltage	4× (12-48V ⎓)
Output Power	NEC Class 2 limits apply; to maintain Nova Flex UL listing on attached LEDs. Only power with Class 2 compliant power source.
Dimming Range	0-100%
DMX Signal Port	RJ45
Working Temp.	-25°C - 55°C
Safety & Emc	CE, EN 55015: 2019/A11: 2020, EN IEC 61000-3-2:2019+A1: 2021, EN 61000-3-3: 2013+A1: 2019+A2: 2021, EN 61547-1: 2021
	FCC Part 15 Class B
Max Run Length	16.4 feet Max recommended distance to LED load, output side, consult factory on longer distances.*
Dimensions	L175×W46×H30mm
Package Size	L187×W52×H36mm
Weight [G.W.]	[325g±5g]
Protection	Short Circuit, over temperature, over current protection, auto recovery

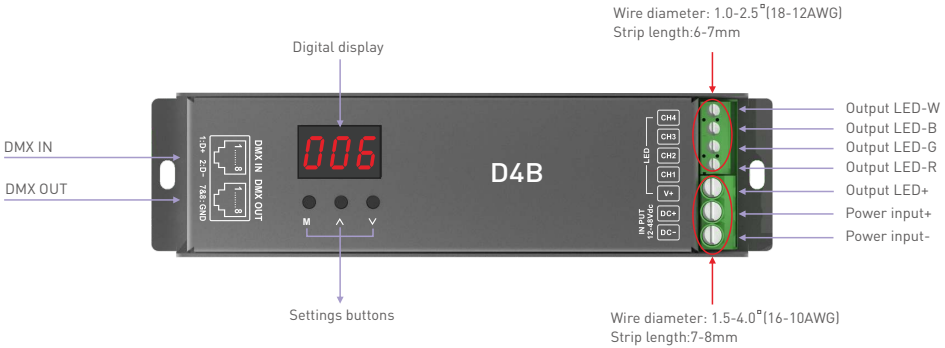
*DMX cable <= 500 feet total without amplification.
Power Supply to decoder input, consult voltage drop tables limit to < 5% drop at full anticipated load.

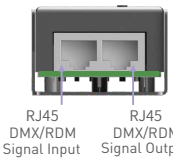
Product Size

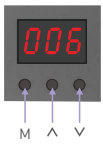
Unit: mm



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∧ and ∨ 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.

To switch between mode L1 and L2:
Press M and ∧ for >2s to select L1
Press M and ∨ for >2s to select L2

OLED Display Interface

DMX decoder mode



Long press M and ∨ button simultaneously. When the screen displays "L-1", it enters the DMX decoder mode. Long press M button for 2s to enter the menu.
Press M and ∧ switches from L-2 to L1
Press M and ∨ for >2s then ∧ to go from L-1 to L2

1. DMX address settings



Press ∧ or ∨ button to set the DMX address.
DMX address range: 001~512

2. Resolution



Short press M button to switch the menu to "r".
Press ∧ or ∨ 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 ∧ or ∨ button to select PWM frequency and the third value on the screen will display H or L.
Options: F-4 (1800Hz) F-0 (300Hz) F-1 (600Hz) F-2 (1200Hz)
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 ∧ or ∨ 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 ∧ or ∨ 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) *See Address Setting Table on Page 5*
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)
Does not increase # of address (fixtures) to choose an option less than 4

6. Screen timeout



Short press M button to switch the menu to "n".
Press ∧ or ∨ 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



Custom Mode Interface

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

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 ∧ or ∨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 ∧ or ∨ 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-2·····S-7 / S-8

Speed levels, speed increases one by one

3. Brightness



Short press M button to switch the menu to "B".
Press ∧ or ∨ 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 level is 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 ∧ or ∨ 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)

Fault code

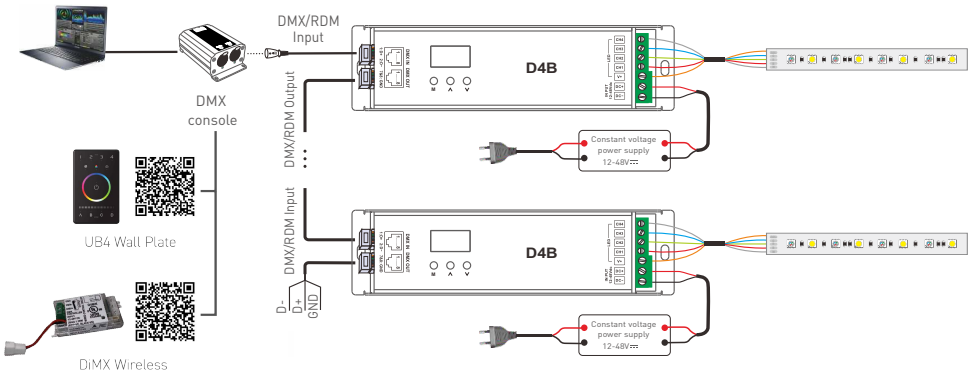


F-0: Over-temperature protection
F-1: Over-temperature warning
F-2: Short circuit/over-current protection

Address setting table

DMX Channel Addresses ↓				
Mode	C-1(Dimming)	C-2(CT/CT2)	C-3(RGB)	C-4(RGBW)
Channel 1	001	001	001	001
Channel 2	001	002	002	002
Channel 3	001	001	003	003
Channel 4	001	002	003	004

D4B 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.

Important

- This product must be installed and adjusted by a qualified professional.
- LTECH products are not lightning-proof or waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a waterproof 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.