

# DMX-CV-DECODER-120V

## Installation Instructions



## IMPORTANT SAFEGUARDS READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

When using electrical equipment, basic safety precautions should always be followed including the following:

- **DISCONNECT POWER SUPPLY BEFORE SERVICING.**
- Installation and servicing of this equipment should be performed by qualified service personnel only.
- Ensure that the electrical wiring conforms to the National Electrical Code NEC® and local regulations if applicable.
- Only power with a regulated (listed) constant voltage Class 2 power supply (12-24V DC)
- Ensure applicable wire is installed between driver, fixture and any controls in between. When choosing wire, factor in voltage drop, amperage rating and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overheat wires and cause fire.
- When you install this product, please avoid being near a large area of metal objects or stacking them to prevent signal interference.
- Good heat dissipation will extend the life the product. Please install the product in a environment with good ventilation.
- Do not mount near gas or electrical heaters.
- Keep the product away from a intense magnetic field, a high pressure area or a place where lightning is easy to occur.
- Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.
- Check whether the working voltage used complies with the parameter requirements of the product.
- Before you power on the product, 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, do not attempt to fix the product by yourself. If you have any question, contact the supplier.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Any modification or use of non-original components will void the warranty and product liability.
- Do not use this equipment for other than intended use.

## SAVE THESE INSTRUCTIONS!

Technical Support ■ (623) 580-8943 ■ [technicalsupport@barronltg.com](mailto:technicalsupport@barronltg.com)

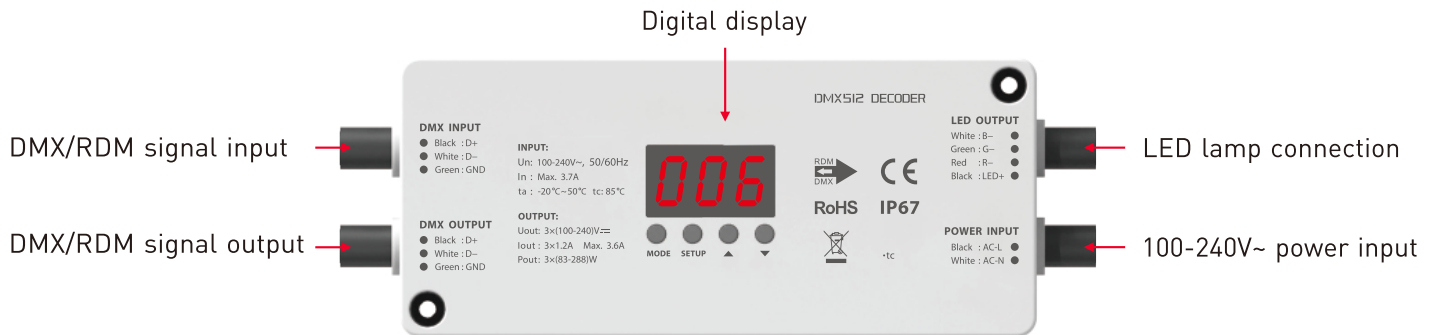
# DMX-CV-DECODER-120V

## Installation Instructions

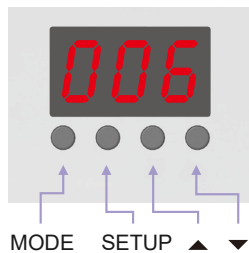
### Product Parameters

Input Signal:	DMX512, RDM
Input Voltage:	100-240VAC
Input Current:	Max. 3.7A
Output Voltage:	3x(100-240)V
Output Current:	Max: 1.2A/CH Max Total: 3.6A(3CH)
Output Power:	(83-288)W/CH Max Total: 864W(3CH)
Working Temp.:	-20°C to 50°C (-4°F to 122°F)
Weight (N.W.):	670g (1.47 lbs)
Dimensions (LxWxH):	164mm x 70mm x 36mm (6.5" x 2.8" x 1.4")
Packaging Size (LxWxH):	230mm x 95mm x 47mm (9.1" x 3.7" x 1.9")
Waterproofing (IP Rating):	IP67
Protection:	Short Circuit, Over Temperature, Over Current, Auto Recovery

### Main Component Description



#### Digital Display

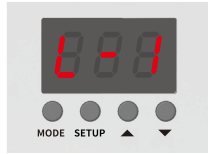


- **Access Configuration:** Long press the MODE button for more than 2s.
- **Adjust Value:** Short press ▲ or ▼ button.
- **Back to Start Page:** Long press the MODE button for 2s again or after 15 seconds of inactivity.
- **Save Configuration:** Long press the SETUP button for more than 2s.
- **Reset It to Factory Defaults:** Long press MODE, ▲, ▼ button simultaneously for 2s.

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## Installation Instructions

### DMX Mode



Interface of DMX mode

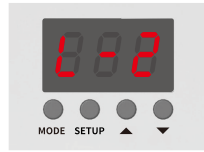
Short press the MODE button and ▲ button simultaneously. When the screen displays "L-1", it enters the DMX mode. Long press Mode button for 2s to enter the menu. After parameter settings are completed, Long press the SETUP button for more than 2s to save the configuration.

1. DMX address setting		<p>Press ▲ or ▼ button to set the DMX address. DMX address range: 1-512</p>
2. Resolution		<p>Short press MODE 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)</p>
3. PWM frequency		<p>Short press MODE 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-H (3600Hz) / F-L (300Hz)</p>
4. Dimming mode		<p>Short press MODE 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)</p>
5. DMX channels		<p>Short press MODE 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 (1st and 3rd channel output occupy DMX address 1; 2nd and 4th channel output occupy DMX address 2) C-3 (1st channel output occupies DMX address 1; 2nd channel output occupies DMX address 2; 3rd and 4th channel output occupy DMX address 3)</p>
6. Screen timeout		<p>Short press MODE 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)</p>

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## Installation Instructions

### Custom Mode



Interface of customized mode

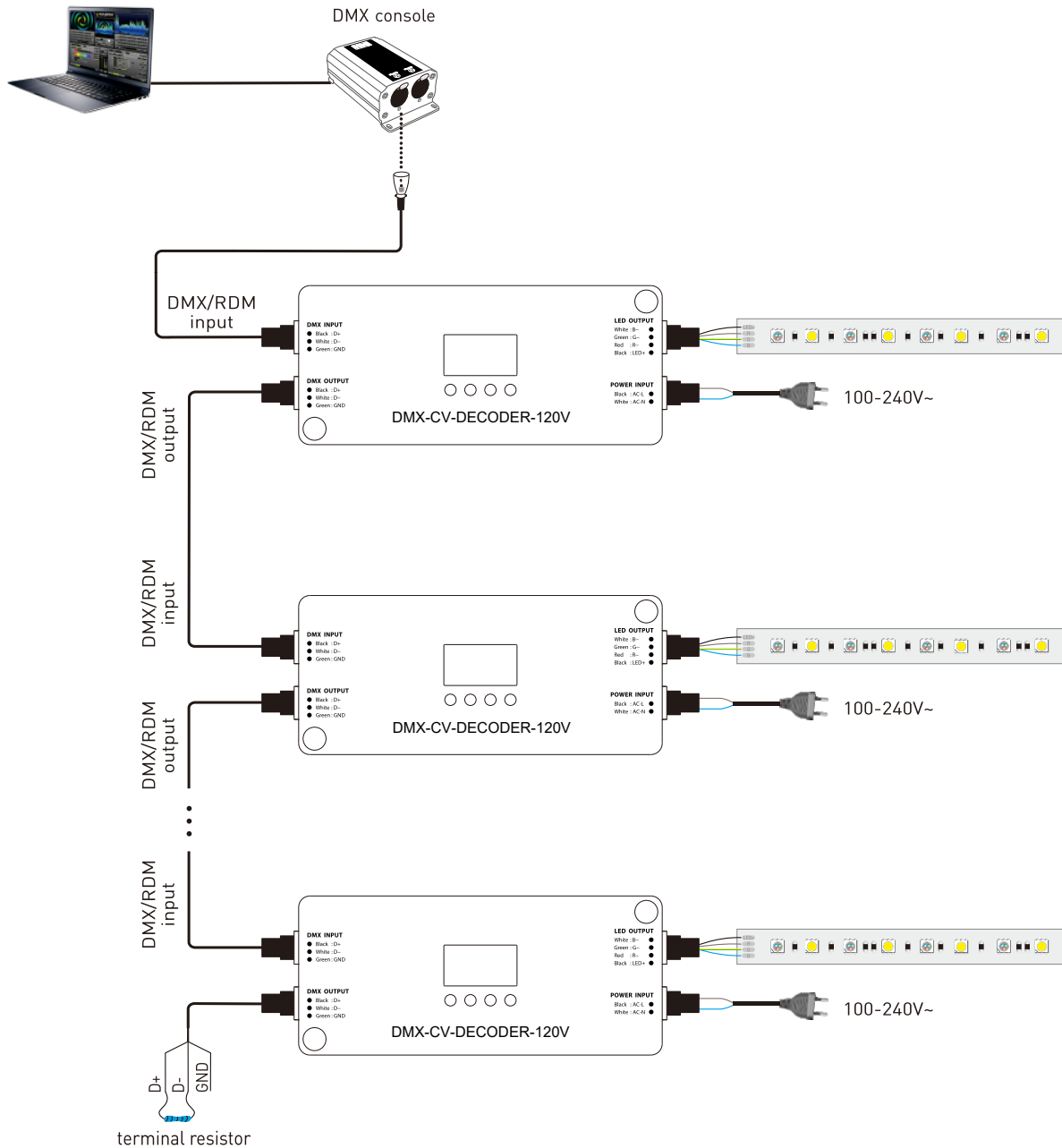
Short press the MODE and ▼ button simultaneously. When the screen displays "L-2", it enters the customized mode. Long press the MODE button for 2s to enter the menu. After parameter settings are completed, Long press the SETUP button for more than 2s to save the configuration.

<p>1. Lighting effects</p>	<p>e.g. E-1 (no lighting effect)</p> <p>e.g. E-A (7-color gradient)</p>	<p>Short press MODE 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.</p> <p>Options:</p> <table border="0"> <tr> <td>E-1 (no lighting effect)</td> <td>E-6 (Purple)</td> </tr> <tr> <td>E-2 (Red)</td> <td>E-7 (Cyan)</td> </tr> <tr> <td>E-3 (Green)</td> <td>E-8 (White)</td> </tr> <tr> <td>E-4 (Blue)</td> <td>E-9 (7-color jumping)</td> </tr> <tr> <td>E-5 (Yellow)</td> <td>E-A (7-color gradient)</td> </tr> </table>	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)
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)											
<p>2. Color-changing speed</p>		<p>Short press MODE 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.</p> <p>Default: S-5</p> <p>Options: S-1 / S-2    ······    S-7 / S-8</p> <p style="text-align: center;">→</p> <p>Speed levels, speed increases one by one</p>										
<p>3. Brightness</p>		<p>Short press MODE 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.</p> <p>Default: B-8</p> <p>Options: B-1 / B-2    ······    B-7 / B-8</p> <p style="text-align: center;">→</p> <p>Brightness levels, brightness increases one by one</p>										
<p>4. Screen timeout</p>		<p>Short press MODE 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.</p> <p>Options: n-1 (Screen stays on)</p> <p style="padding-left: 40px;">n-2 (Screen turns off after 30 seconds of inactivity)</p>										

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### Wiring Diagram



#### NOTE:

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.