



1 Channel Decoder

User Manual

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Better Way Lighting

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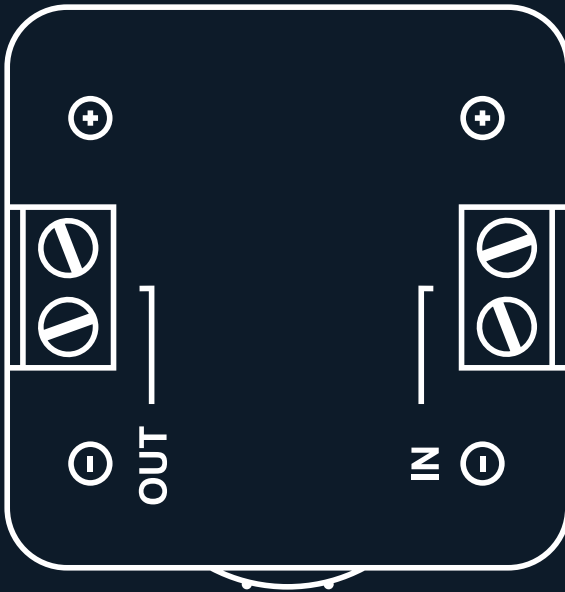
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Introduction

The 1-Channel Decoder is a device with a small form factor designed for use in theatrical and film productions.



Specifications

Output	1
Input Voltage	6 - 24VDC
Load Type	6 - 24 V LED, Constant voltage
Current Rating	6A
Dimming Control	PWM
PWM Frequency	5, 10, 20 kHz
Wire Gauge	16 -26 AWG
Ambient Temperature	0 - 45° C
Body Dimensions	H 16.77 mm x L 35.19 mm x W 35.36 mm
Weight	16 g

Safety

- No user serviceable parts
- Do not open the housing
- Not intended for permanent installation
- For use in dry location only
- Store in a cool, dry environment
- Do not operate outside of rated temperature
- Do not operate if broken or deformed

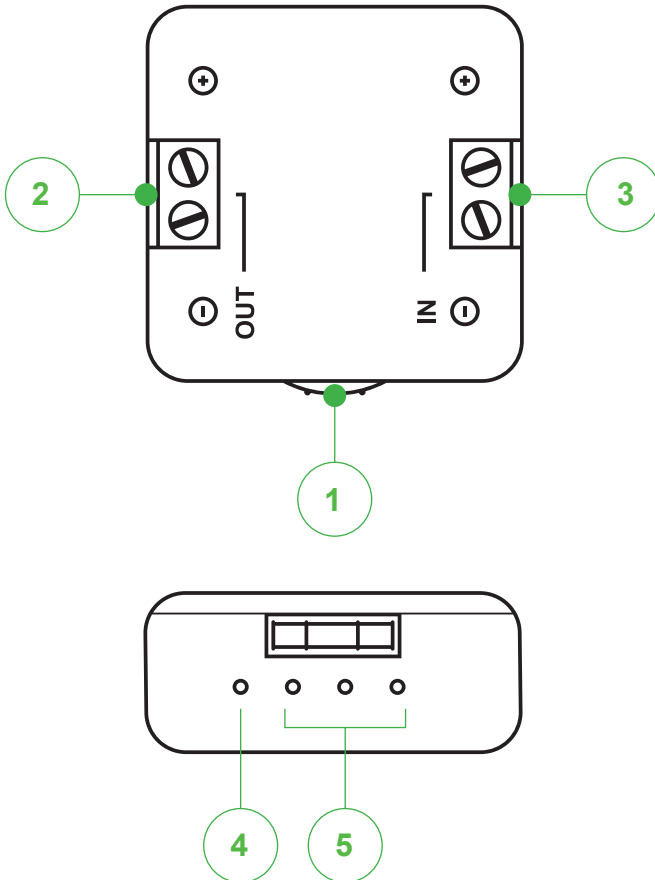
Factory Settings

Listed below are the default values each parameter is set to when using the device for the first time.

Brightness	0
Frequency	5 kHz
Locked	No

Device Overview

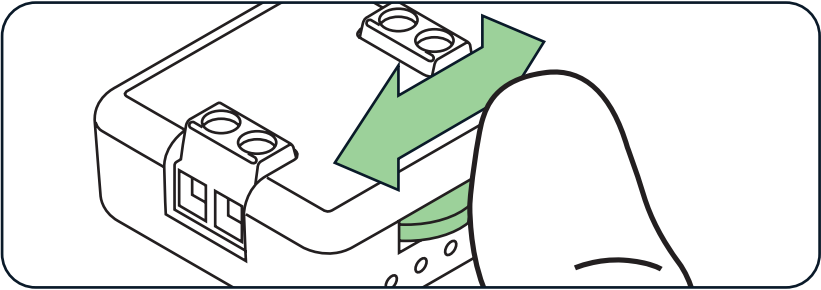
- 1 Scroll Wheel
- 2 PWM Output to LED
- 3 V-, V+ from Power Supply
- 4 “Lock” light indicator
- 5 “PWM Frequency” light indicators



Device Operation

Brightness

Use the scroll wheel to increase and decrease the intensity of the output. The device will remember its intensity after removing power.

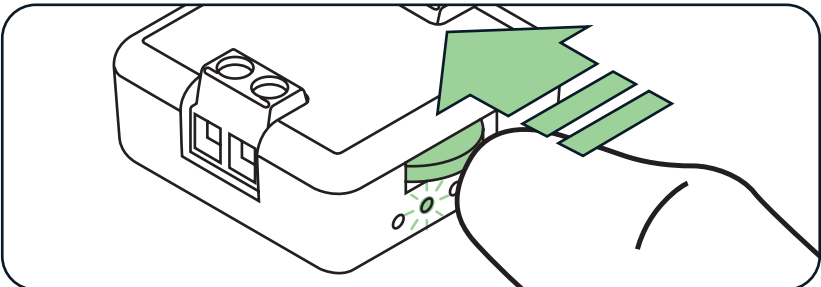


PWM Frequency

Adjust this setting to eliminate on-camera flicker caused by a mismatch between the speed of the LED's duty-cycle and the camera's frame rate and shutter speed settings.

Press the scroll wheel to cycle through the PWM frequencies 5 KHz, 10 KHz and 20 KHz. Three leds on the device body indicate the current frequency.

The device will remember its frequency after removing power.

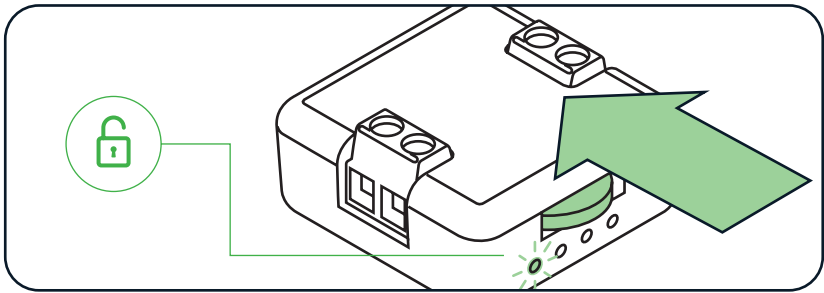


Locking

Hold the scroll wheel down for 1s to lock and unlock the device. The LED on the device body indicates the current locking state. If the LED is on, the device is locked.

When locked, pressing or scrolling the wheel will not adjust the brightness or frequency, you must hold the scroll wheel down for 1s to unlock the device again.

The device will remember its locked state after removing power.



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