ECO LED SERIES

E-CONTROL ™

LED DMX DIMMER PACK

4X4-V3.1
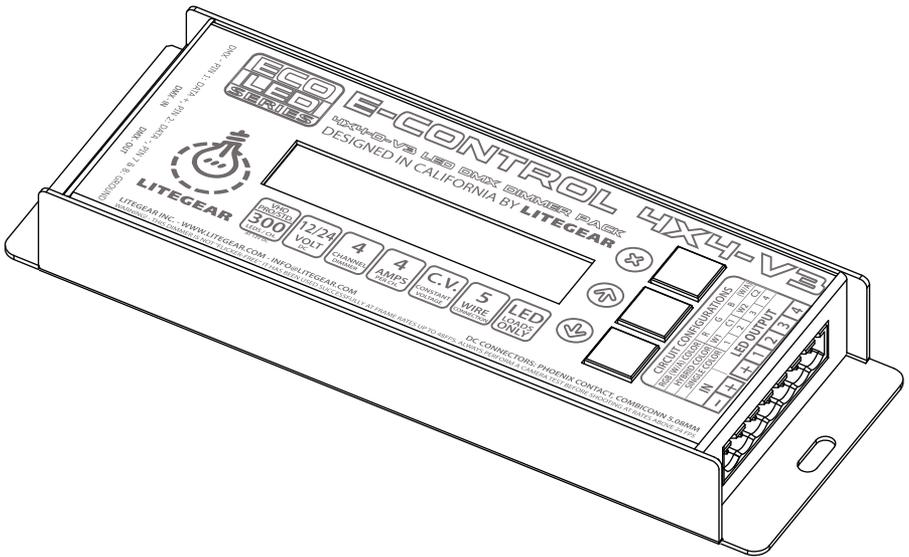
LITEGEAR

USER GUIDE

LITEGEAR

**Congratulations on your purchase of LiteGear's E-Control™, DMX Dimmer Pack, 4x4-V3.1!**

About E-Control 4x4-V3.1

E-Control 4x4-V3.1 is an economical DMX decoder that also allows for manual control. Its light weight and low profile lends itself to being built into nearly any rig and can adapt to many situations. It is capable of controlling multicolor LED LiteRibbon such as RGB-Amber, RGB-Tun, RGB-Day, RGB, and Hybrid (Bi-color), as well four circuits of Single-circuit LiteRibbon.

Note: When being used as part of a DMX rig, the 4x4-V3.1 requires the use of third party equipment (sold separately), such as a lighting console, that generates a DMX512 signal; Ethernet-based protocols are not supported at this time.

DMX Mode:

The 4x4-V3.1 DMX Controller can be addressed using the onboard control buttons (✖ ↑ ↓) that allow for setting the DMX start value. To access DMX Mode, press ✖ to unlock the device until you see "DMX ADDR: 001" appear. From this screen, use the ↑ ↓ buttons to set the desired start address. There is an additional DMX address (000) that acts as a test mode for the LED outputs. [see "**Troubleshooting**"].

Note: The process of addressing the 4x4-V3.1 only sets the start address for the first output. The three subsequent outputs are then automatically assigned to the three subsequent channels (i.e., addressing the 4x4-V3.1 to start address 217 would assign channels 217, 218, 219, and 220 to the unit).

DMX Bit Rate:

The 4x4-V3.1 offers adjustable DMX bit rates. For most situations, leave this set to 8-bit. 16-bit operation is intended for advanced console programmers and should be used only by qualified personnel.

Adjustable Local Mode (non-DMX):

The 4x4-V3.1 DMX Controller can be operated using the onboard control buttons (✖ ↑ ↓) that allow for setting individual brightness levels for LED outputs 1 through 4. To access Local Mode, press ✖ until you see "DIMMERCH1: 000%" appear on the digital display. From this screen, use the ↑ ↓ buttons to set the individual brightness for each channel from 0% to 100%. Repeat this process for the remaining channels. The unit must remain in any of the 4 manual channel settings for operation. When you are finished testing or wish to return to DMX Mode, press ✖ until the "DMX ADDR: 001" appears.

Note: To operate in Local Mode, the display must show DIMMERCH1, 2, 3, or 4.

Additional Features:

The 4x4-V3.1 DMX Controller has a built-in "lock out" function that will automatically save the current settings should there be a power outage. This function also protects the ↑ ↓ buttons from being accidentally activated. To unlock, press the ✖ button. The settings will only save once the 4x4-V3.1 has locked out, which takes a few seconds. The 4x4-V3.1 will return to the last saved settings on startup.

> ⚠ ***This dimmer is not "flicker-free." It has been used successfully at frame rates up to 48fps. Always perform a camera test before shooting at rates above 24fps.***
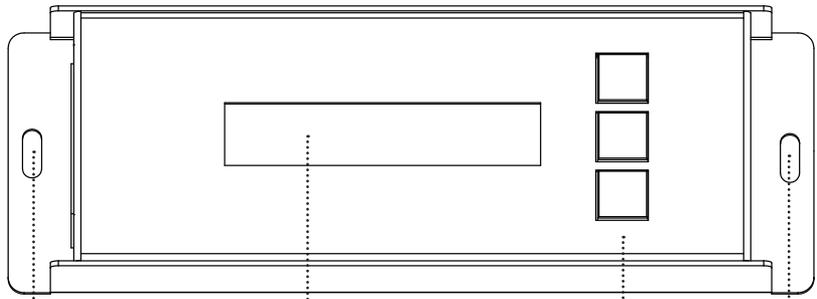
Rigging
Point

Digital
Display

Control
Buttons

Rigging
Point
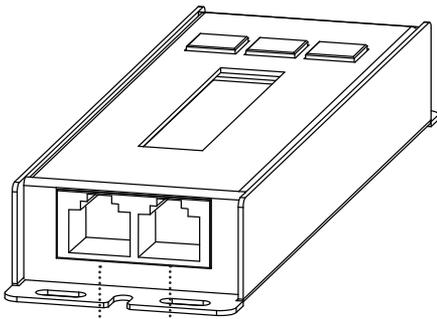
DMX
In

DMX
Out
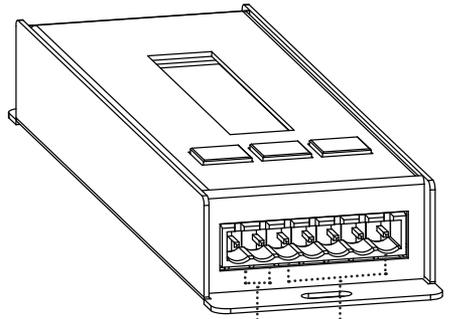
Power
In
(from DC)

Power
Out
(to LED)

Troubleshooting

If you are having trouble operating the unit:

Connect the 4x4-V3.1 to power (12V/24V DC only). (In DMX Mode, run a DMX signal to the DMX input using an RJ45 cable. Then, address the 4x4-V3.1 to the desired start address. Channel 000 will repeat a fixed RGBW/A [channels 1, 2, 3, 4] chase for approximately fifty seconds before holding all channels ON for approximately ten seconds. [Note: DMX 000 is not an addressable channel; it is for troubleshooting purposes only. See "**DMX Addressing**."]. In Local Mode, ensure that you have set the levels of each individual channel to your desired brightness [see "**Adjustable Local Mode**"].) Ensure that all power inputs and LED outputs are connected, clean, and that nothing is shorting out. Do not put more than 5 amps worth of LiteRibbon on a single channel or more than 16 amps worth of LiteRibbon on the entire 4x4-V3.1, whichever comes first. If the 4x4-V3.1 is at the end of the DMX line, a DMX terminator may be necessary (not included). The 4x4-V3.1 may be run through an optical isolator, if desired.

Note: The 4x4-V3.1 is suitable for both "pluggable" and "bare-end" applications (PH7-F connector included for bare-end connections; additional cables and adapters for pluggable connections sold separately).

Technical Specifications

SIZE: 6.75 in. x 2.5625 in. x .875 in.
WEIGHT: 0.682 lb, 10.912 oz, 309 g
INPUT: 12V/24V DC; Input voltage must match load voltage requirements!
OUTPUT: PWM
RATING: 5A max. per channel x 4 channels; 16A max. total current.
CONNECTOR: Phoenix Contact, Combiconn 5.08 mm, 7-pin (or 2+5)

Warnings

Stage and Studio Use Only
Dry Location Only
Hazardous Voltage
Risk of Electrical Shock
Disconnect Power Before Servicing
Not For Residential Use

Any questions? Comments? Concerns? Contact us at +1 818.358.8542 or info@litegear.com.

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