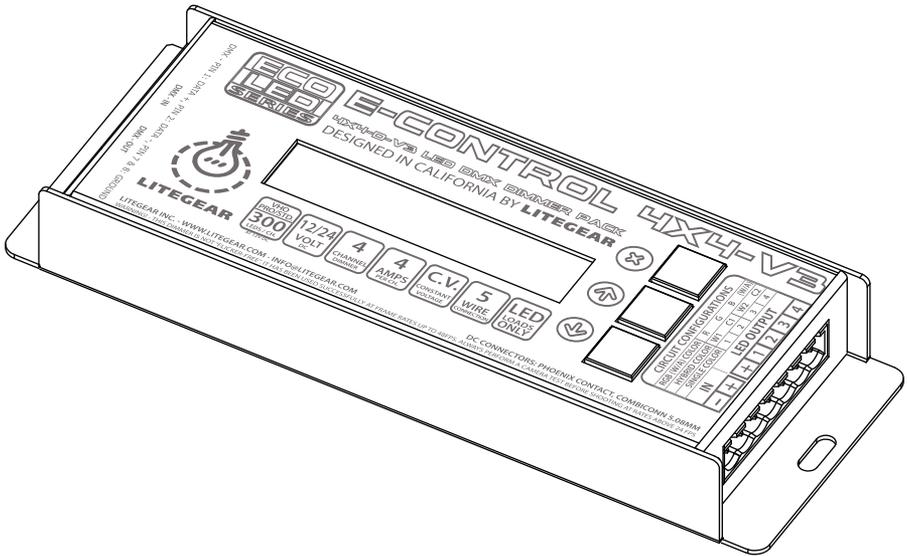




# E-CONTROL™

## LED DMX DIMMER PACK

# 4X4-V3



LITEGEAR

# USER GUIDE

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

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### About E-Control 4x4-V3

E-Control 4x4-V3 is one of LiteGear's economical DMX decoders that also allows for local, manual control. Its light weight and low profile lends itself to being built into nearly any rig and can adapt to any situation, whether DMX control is required or not, through the use of its onboard controls. The 4x4-V3 is adaptable to a number of situations, allowing for the control of multicolor red-green-blue-white/amber (RGBW/A) LED rigs in addition to one circuit of RGB LiteRibbon®, two circuits of Hybrid LiteRibbon, and four circuits of Single LiteRibbon.

*Note: When being used as part of a DMX rig, the 4x4-V3 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 DMX Controller can be addressed using the onboard control buttons (x ↑ ↓) that allow for setting the DMX start value. To access DMX Mode, press x until you see → appear next to "DMX ADDR" on the digital display. From this screen, use the ↑ ↓ buttons to set the desired start address for the 4x4-V3. There is an additional DMX address (000) that acts as a test channel for the LED outputs [see "**Troubleshooting**"].

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

### 4ch Dimm Mode (non-DMX):

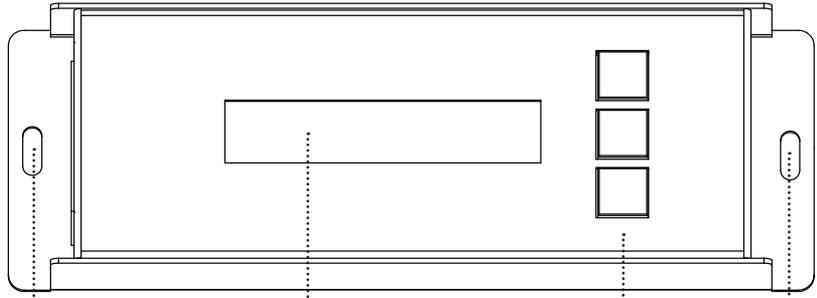
The 4x4-V3 DMX Controller can be operated using the onboard control buttons (x ↑ ↓) that allow for setting individual brightness levels for LED outputs 1 through 4. To access 4ch Dimm Mode, press x until you see → appear next to the desired LED output (DIMMERch1 through DIMMERch4) on the digital display. From this screen, use the ↑ ↓ buttons to set the individual brightness for each channel from 0 to 255.

### Additional Features:

The 4x4-V3 DMX Controller has a built-in "lock out" function that will automatically save the current settings should there be a power outage. The settings will only save once the 4x4-V3 has locked out, which takes approximately five seconds. The 4x4-V3 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.***

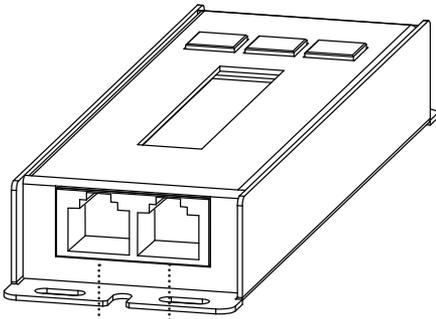


Rigging Point

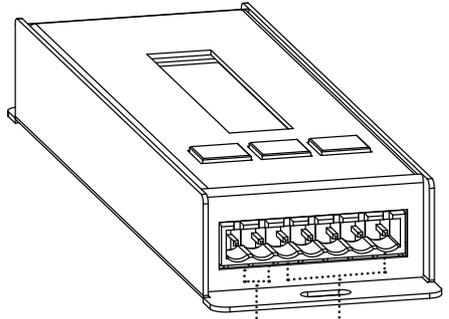
Digital Display

Control Buttons

Rigging Point



DMX In DMX Out



Power In Power Out  
(from DC) (to LED)

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## Troubleshooting

If you are having trouble operating the unit:

Connect the 4x4-V3 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 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 Manual Mode, ensure that you have set the levels of each individual channel to your desired brightness [see “**4ch Dimm 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, whichever comes first. If the 4x4-V3 is at the end of the DMX line, a DMX terminator may be necessary (not included). The 4x4-V3 may be run through an optical isolator, if desired.

*Note: The 4x4-V3 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](mailto:info@litegear.com).



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