LED DRIVER RGB 8 WAY

Quick Start Guide

Rev 1.0

Version 2 Lights Limited
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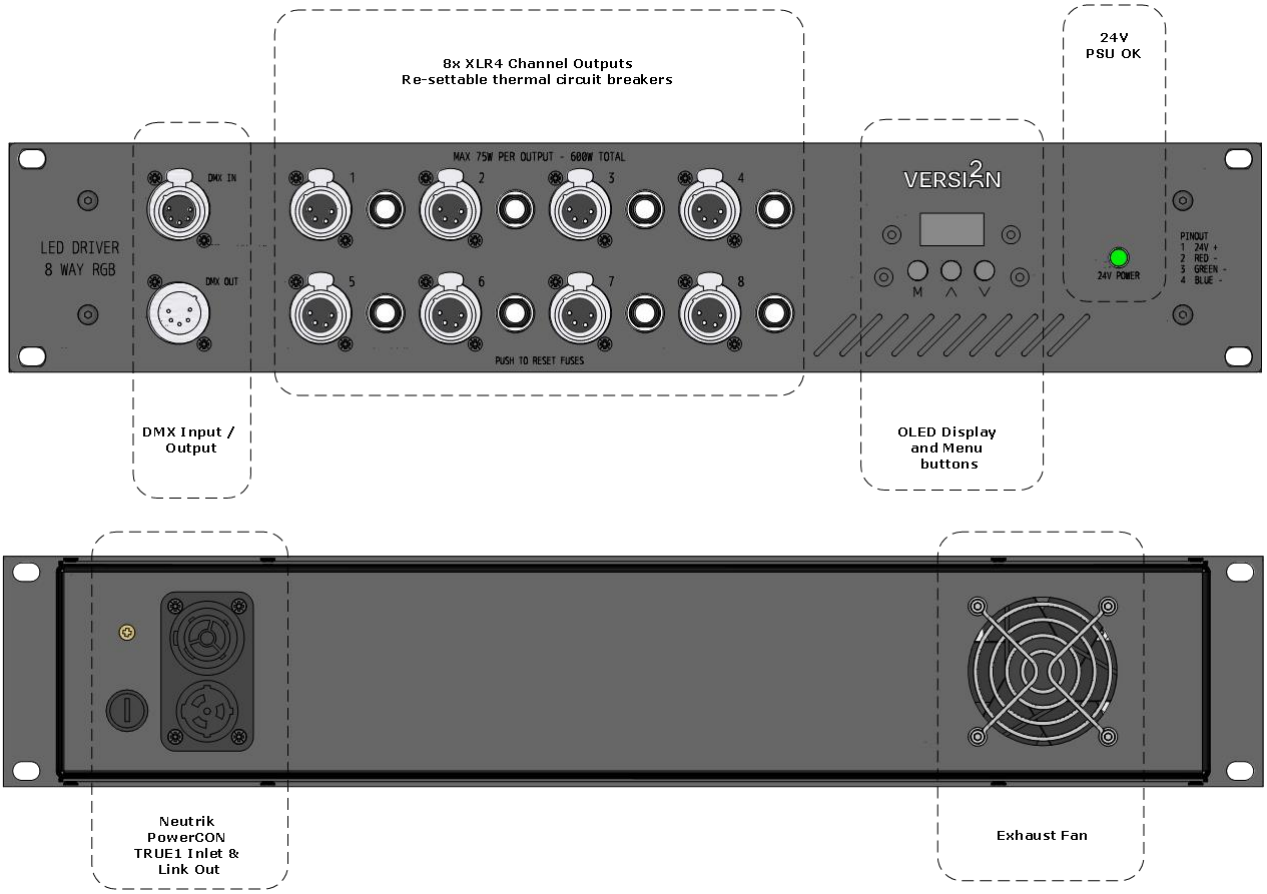
Overview

Version 2 custom built 8 output LED driver specifically designed for constant voltage LED products.

Ideally suited to TV and Film applications due to its high frequency and high resolution PWM enabling users to control fixtures in 8-bit or 16-bit mode giving unprecedented accuracy of dimming and colour control.

Control modes for RGB, Bi-Colour and Single Colour systems.

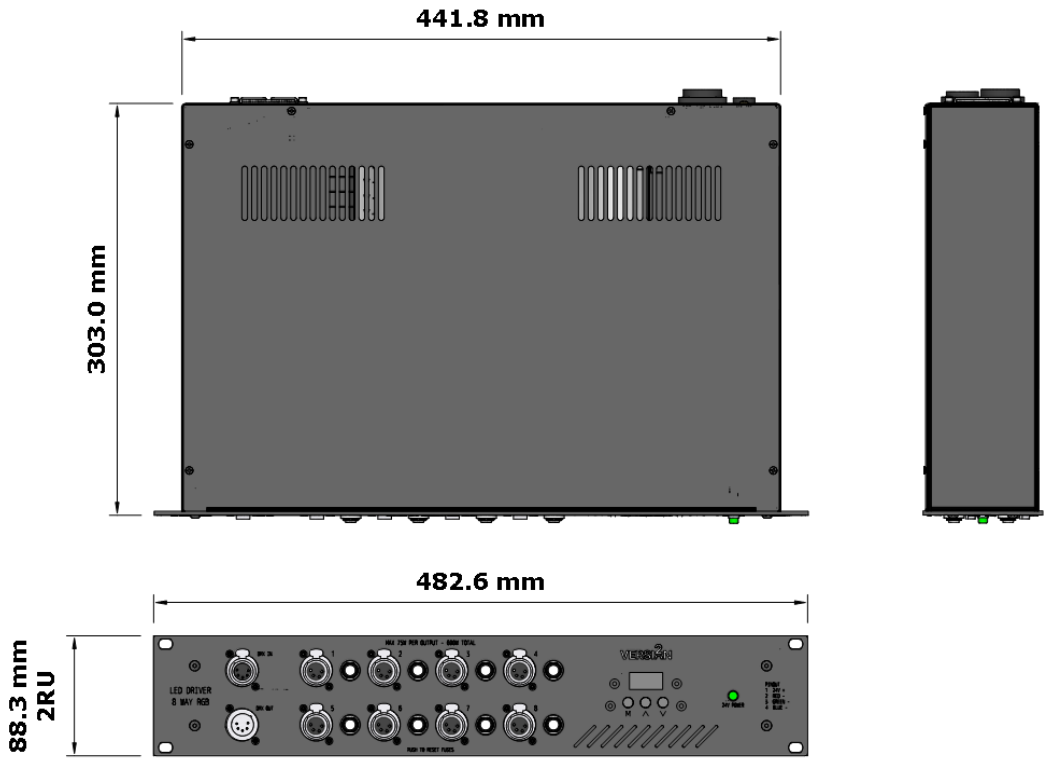
Easy to navigate menu structure with backlit OLED screen, local manual control and dimming curve selection.



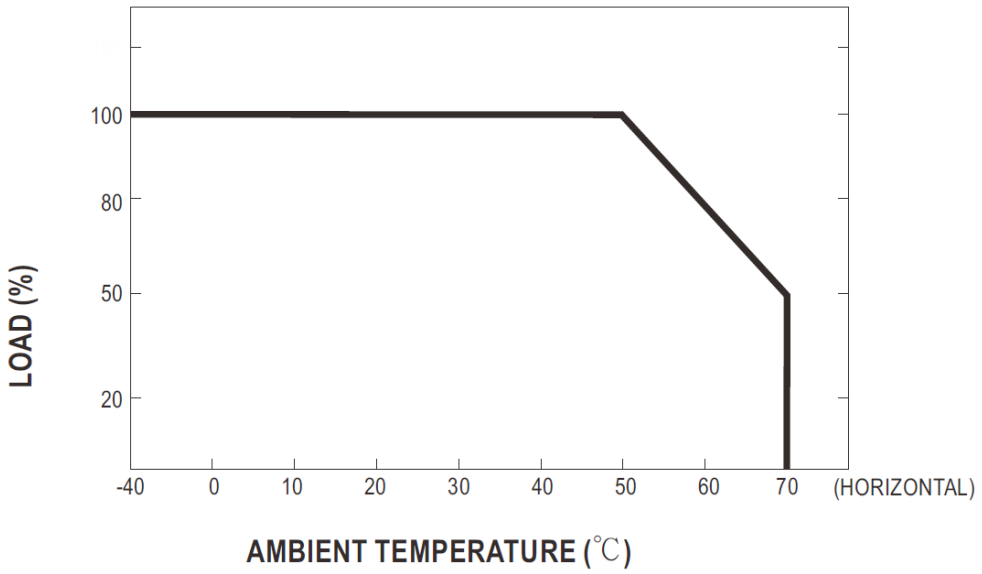
Specifications

AC Power	
Input Voltage:	85 – 264V AC (47-63 Hz)
Power:	650W
Current:	2.7A @ 240V
Leakage Current:	<1.2mA @ 240VAC
Connector:	Neutrik powerCON TRUE1 Combination (Maximum of 5x Drivers linked)
Efficiency:	~88%
DC Outputs	
Voltage:	24V ±1.0%
Power:	75W per output XLR, maximum 600W
Current:	Maximum 3.00A per output XLR (24 Channel x 1A)
Protection:	5A resettable circuit breaker
Configuration:	Common Anode
Control	
Protocol:	DMX512-A
Control Modes:	RGB, CT (Bi-Colour), Dim (Single Colour)
Resolution:	8 bit (256 levels) & 16 bit (65536 levels)
Connectors:	Neutrik XLR 5 Pin Male & Female Link Out
RDM Ready:	Yes
Optical Isolation:	Yes
Environmental	
Size:	19" (482mm) x 2U (88mm) x 300mm
Weight:	9Kg + 2U Rack Sleeve
Protection:	IP20
Working Temperature:	-30 ~ +65 °C (De-rating curve above 50°C, see below)
Fan noise levels:	19dBA

Dimensions



Output Current Temperature De-rating



Quick Start Guide

1. Screen Interface

To edit menu items:

Press "M" key to switch entries.
Press "∧" or "∨" key to adjust parameter

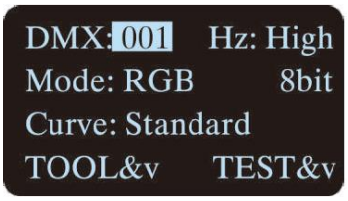
Long press "M" key to return to main page

To unlock menu:

Press "M" key for 3 seconds

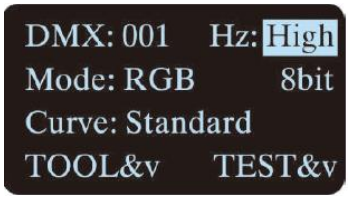
Screen will lock after 2 minutes

2. DMX Address Setting



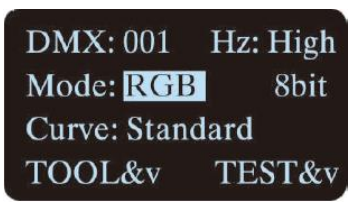
Press "∧" or "∨" key to set DMX address.
Range: 1~512

3. PWM Frequency



Press "∧" or "∨" key to switch frequency.
Optional:
High
Std (standard)
Mid (middle)
Low

4. Mode

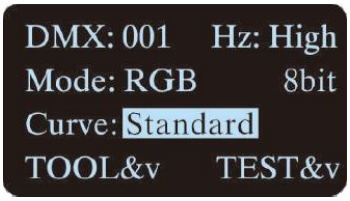


Press "∧" or "∨" key to switch mode.
Optional: RGB, CT, Dim

5. Resolution

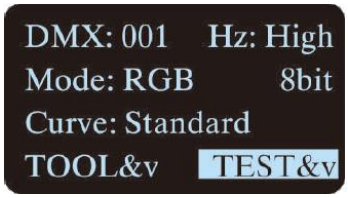
Press "∧" or "∨" key to switch resolution.
Optional: 8bit, 16bit

6. Dimming Curve



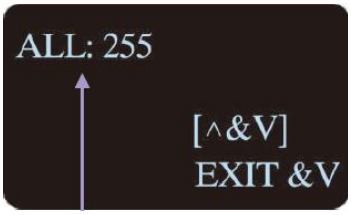
Press "∧" or "∨" key to switch dimming curve.
Optional: Standard, Linear, 0.1 – 9.9

7. Test



Press "∧" or "∨" key to enter sub-menu

Manual channel intensity.



Intensity of ALL channels is on the last page

For fast self-testing function: press "∧" and "∨" keys simultaneously for 2-3 seconds under any Page. This will start an step chase of all output channels in turn.

VERSION 2

DMX Address Map

Mode		DIM	CT	RGB
Address Quantity		8	16	24
Resolution		8bit	8bit	8bit
Channel	1	001	001	001
	2	001	002	002
	3	001	002	003
	4	002	003	004
	5	002	004	005
	6	002	004	006
	7	003	005	007
	8	003	006	008
	9	003	006	009
	10	004	007	010
	11	004	008	011
	12	004	008	012
	13	005	009	013
	14	005	010	014
	15	005	010	015
	16	006	011	016
	17	006	012	017
	18	006	012	018
	19	007	013	019
	20	007	014	020
	21	007	014	021
	22	008	015	022
	23	008	016	023
	24	008	016	024

Mode		DIM	CT	RGB
Address Quantity		16	32	48
Resolution		16bit	16bit	16bit
Channel	1	001 002	001 002	001 002
	2	001 002	003 004	003 004
	3	001 002	003 004	005 006
	4	003 004	005 006	007 008
	5	003 004	007 008	009 010
	6	003 004	007 008	011 012
	7	005 006	009 010	013 014
	8	005 006	011 012	015 016
	9	005 006	011 012	017 018
	10	007 008	013 014	019 020
	11	007 008	015 016	021 022
	12	007 008	015 016	023 024
	13	009 010	017 018	025 026
	14	009 010	019 020	027 028
	15	009 010	019 020	029 030
	16	011 012	021 022	031 032
	17	011 012	023 024	033 034
	18	011 012	023 024	035 036
	19	013 014	025 026	037 038
	20	013 014	027 028	039 040
	21	013 014	027 028	041 042
	22	015 016	029 030	043 044
	23	015 016	031 032	045 046
	24	015 016	031 032	047 048