

User Manual

DMX1202XE Power Driver





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Description

The DMX1202XE is the mid-sized Lo-Vo power driver for powering and controlling Lo-Vo fixtures.

The DMX1202XE has the distinction of being the only rack-mountable Lo-Vo Power Driver.

Features

- Low voltage (24V) LED module control
- 8 Zones, 150W each (120W recommended)
- White and RGBW modes
- DMX control
- Local control
- Color macros
- ETL Certified

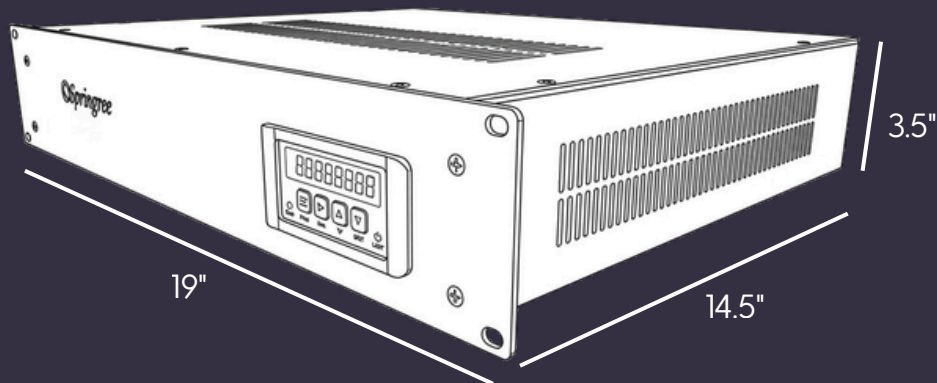


SKU: DMX1202XE

Specifications

- AC Input: 120V
- DC Output: 150W per connector, 1200W total
- Environmental Temperature Range: -4°F to 140°F
- Weight: 20 lbs
- Dimensions: 19" x 14.5" x 3.5"

Dimensions



Fixtures Powered

	DMX150	DMX602XE	DMX1202XE	DMX1802XE
30Watt Spatial Flats	4	16	32	48
50Watt Spatial Flats	3	12	24	28
50Watt Spatial Flat Pendants	3	12	24	28
LED Spatial Tape	49 feet	196 feet	392 feet	459 feet
LED Spatial Bars	1	4	8	12
WW Spatial Minis	15	64	128	156
RGBWW Spatial Minis	12	48	96	120
30Watt Round LED Board	4	16	32	48
50Watt Round LED Board	3	12	24	28
12Watt LED Board	12	48	96	120

Installation

- **Do Not Wire While Hot!** The unit has to be powered off prior to connecting to fixtures.
- **Location:** To install the DMX1202XE, you will need a dry, well-ventilated area, such as an electrical closet.
- **Noise:** Lo-Vo fixtures are silent, but Power Drivers aren't. The DMX1202XE has an audible fan noise.
- **Space Requirement:** The DMX1202XE requires 2 rack spaces in a standard 19" rack.
- **Mounting:** Utilize the 4 screw holes provided for secure mounting in the rack.
- **Space Allocation:** Ensure adequate space is left at the back for electrical and DMX wires and connectors.
- **Ventilation:** Do not obstruct any vent holes located on the top and sides of the unit. Please allow at least 1 rack space above and below the unit for adequate airflow.

Installation Continued



1. Electrical Connection:

- Use the linking power connector located on the rear of the DMX1202XE for electrical connection.
- A linking power output is provided for daisy-chaining to other equipment.
- Note: Only one DMX1202XE can be powered on a single 20amp circuit at maximum load. Two units could be used if neither operates at max load. The maximum recommended load per 20amp circuit is 1800 watts.

2. DMX Connection:

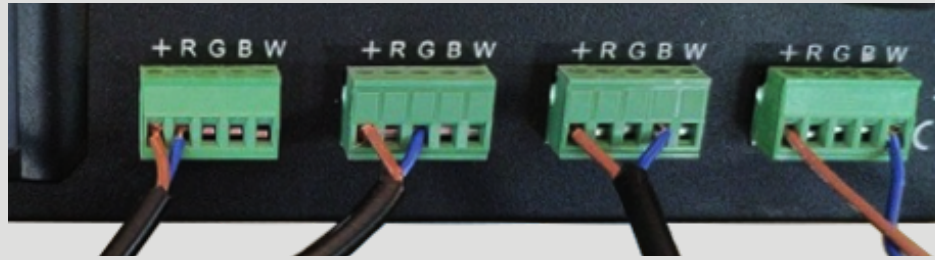
- Connect DMX via the 3-pin XLR connection located on the rear.
- DMX input originates from your lighting console and can be daisy-chained to additional DMX1202XE units or lighting fixtures.

3. Connection to Lo-Vo Lights:

- Utilize the Phoenix connector for connecting to Lo-Vo lighting fixtures.
- A Phoenix connector is a pluggable terminal block that uses screw clamps to secure bare wires, allowing you to quickly connect and disconnect wiring from a device without soldering.
- Tip: After tightening the terminal screw, give the wire a gentle tug to confirm it is secure. Always power off the driver before wiring or adjusting any connections.
- Refer to the next page for detailed instructions on how to wire.

Installation Continued

How to Connect 12-Watt & 30-Watt WW Lights via Phoenix Connector



Note: This wiring method applies only to 12-watt and 30-watt WW lights. All other fixture types, including 50-watt and higher WW lights, use the RGBW connection method shown on the next page.

Connector 1

+ = Brown
R = Blue
G = Open
B = Open
W = Open

Connector 2

+ = Brown
R = Open
G = Blue
B = Open
W = Open

Connector 3

+ = Brown
R = Open
G = Open
B = Blue
W = Open

Connector 4

+ = Brown
R = Open
G = Open
B = Open
W = Blue

Connector 5

+ = Brown
R = Blue
G = Open
B = Open
W = Open

Connector 6

+ = Brown
R = Open
G = Blue
B = Open
W = Open

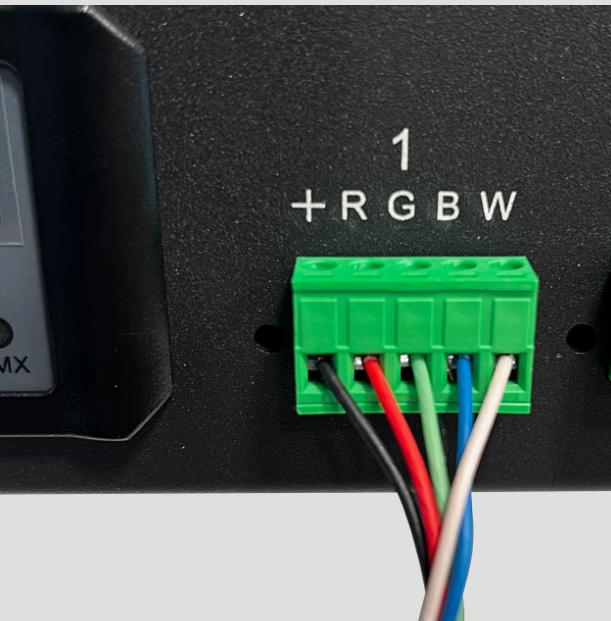
Connector 7

+ = Brown
R = Open
G = Open
B = Blue
W = Open

Connector 8

+ = Brown
R = Open
G = Open
B = Open
W = Blue

Installation Continued



How to Connect RGBWW and Large WW Lights via Phoenix Connector

Use this wiring method for all RGBWW and WW lights, except 12-watt and 30-watt Warm White fixtures.

Connector 1

+ = Black
R = Red
G = Green
B = Blue
W = White

Connector 2

+ = Black
R = Red
G = Green
B = Blue
W = White

Connector 3

+ = Black
R = Red
G = Green
B = Blue
W = White

Connector 4

+ = Black
R = Red
G = Green
B = Blue
W = White

Connector 5

+ = Black
R = Red
G = Green
B = Blue
W = White

Connector 6

+ = Black
R = Red
G = Green
B = Blue
W = White

Connector 7

+ = Black
R = Red
G = Green
B = Blue
W = White

Connector 8

+ = Black
R = Red
G = Green
B = Blue
W = White

Safety.

1. Do not expose this unit to moisture to reduce the risk of electrical shock or fire
2. Be sure the local power outlet matches the required voltage for your unit.
3. Disconnect from the main power before making any connection.
4. Do not remove the cover under any conditions. There are no user-serviceable parts inside.
5. Never plug this unit into a dimmer pack.
6. This power supply is intended for indoor use ONLY.
7. Always mount this unit safely and stably.

Troubleshooting

1. Check that the DMX cables and Phoenix Connectors are connected properly and are wired correctly.
2. Check that all cables are connected to the correct connectors; it does matter which way the inputs and outputs are connected.
3. Before use, make sure the DMX1202XE is set to the correct mode: White Mode for WW fixtures or RGBW Mode for RGBWW fixtures.

Menu

The DMX1202XE features four buttons on the front of this unit: **MENU**, **ENTER**, **UP**, and **DOWN**.

Press **MENU** to choose your Output Mode, DMX Address, Color Macro, User Color, and PWM (pulse width modulation). There are 4 PWM modes to choose from.

PWM is the rate of current pulses to the LEDs, which affects how the lights appear to dim on video. When filming, if you notice pulses when dimming, choose the mode that appears to work best with your setup.

Output Mode: White

Color Macro	N/A	
User Color	White 1	000-255
PWM	12288	
	8192	
	4096	
	2048	
DMX Address	001-512	
Channel	1	One Zone
	2	Two Zones
	4	Four Zones
	8	Eight Zones

Menu - Continued

Output Mode: RGBW

Color Macro	Red	000-255
	Amber	000-255
	Yellow/Warm	000-255
	Yellow	000-255
	Green	000-255
	Turquoise	000-255
	Cyan	000-255
	Blue	000-255
	Lavender	000-255
	Mauve	000-255
	Magenta	000-255
	Pink	000-255
	Warm White	000-255
	White	000-255
	Cold White	000-255
	Color Fade	000-255
	Color Jump	000-255
	Color Off	000-255
User Color	Red	000-255
	Green	000-255
	Blue	000-255
	White	000-255
PWM	12288	
	8192	
	4096	
	2048	

Menu - Continued

Output Mode: RGBW

DMX Address	001-512	
Channel	5	One Zone
	10	Two Zones
	20	Four Zones
	40	Eight Zones

DMX Zones

The DMX1202XE offers four zone options when controlled via DMX, allowing you to split your connected fixtures into separate control groups.

1 Zone



2 Zones



4 Zones



8 Zones



DMX Mode

White Mode

Channel Mode				
1 Zone	2 Zones	4 Zones	8 Zones	DMX Value
CH1	CH1	CH1	CH1	Intensity (Zone 1)
	CH2	CH2	CH2	Intensity (Zone 2)
		CH3	CH3	Intensity (Zone 3)
		CH4	CH4	Intensity (Zone 4)
			CH5	Intensity (Zone 5)
			CH6	Intensity (Zone 6)
			CH7	Intensity (Zone 7)
			CH8	Intensity (Zone 8)

DMX Mode

RGBW Mode

Channel Mode				
1 Zone	2 Zones	4 Zones	8 Zones	DMX Value
CH1	CH1	CH1	CH1	Red (Zone 1)
CH2	CH2	CH2	CH2	Green (Zone 1)
CH3	CH3	CH3	CH3	Blue (Zone 1)
CH4	CH4	CH4	CH4	White (Zone 1)
CH5	CH5	CH5	CH5	Intensity (Zone 1)
	CH6	CH6	CH6	Red (Zone 2)
	CH7	CH7	CH7	Green (Zone 2)
	CH8	CH8	CH8	Blue (Zone 2)
	CH9	CH9	CH9	White (Zone 2)
	CH10	CH10	CH10	Intensity (Zone 2)
		CH11	CH11	Red (Zone 3)
		CH12	CH12	Green (Zone 3)
		CH13	CH13	Blue (Zone 3)

DMX Mode

RGBW Mode Continued

Channel Mode				
1 Zone	2 Zones	4 Zones	8 Zones	DMX Value
		CH14	CH14	White (Zone 3)
		CH15	CH15	Intensity (Zone 3)
		CH16	CH16	Red (Zone 4)
		CH17	CH17	Green (Zone 4)
		CH18	CH18	Blue (Zone 4)
		CH19	CH19	White (Zone 4)
		CH20	CH20	Intensity (Zone 4)
			CH21	Red (Zone 5)
			CH22	Green (Zone 5)
			CH23	Blue (Zone 5)
			CH24	White (Zone 5)
			CH25	Intensity (Zone 5)
			CH26	Red (Zone 6)

DMX Mode

RGBW Mode Continued

Channel Mode				
1 Zone	2 Zones	4 Zones	8 Zones	DMX Value
			CH27	Green (Zone 6)
			CH28	Blue (Zone 6)
			CH29	White (Zone 6)
			CH30	Intensity (Zone 6)
			CH31	Red (Zone 7)
			CH32	Green (Zone 7)
			CH33	Blue (Zone 7)
			CH34	White (Zone 7)
			CH35	Intensity (Zone 7)
			CH36	Red (Zone 8)
			CH37	Green (Zone 8)
			CH38	Blue (Zone 8)
			CH39	White (Zone 8)
			CH40	Intensity (Zone 8)

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