Installation Instructions - Plexineon Catenary Dynamic Color

Models: Plexineon Fixture Catenary Mount Dynamic Color and Plexineon Rings Catenary Mount Dynamic Color

Please read all instructions prior to installation and keep for future reference!

1. PRODUCT TO BE INSTALLED BY A QUALIFIED ELECTRICIAN.
2. USE ONLY WITH CLASS 2 POWER UNIT
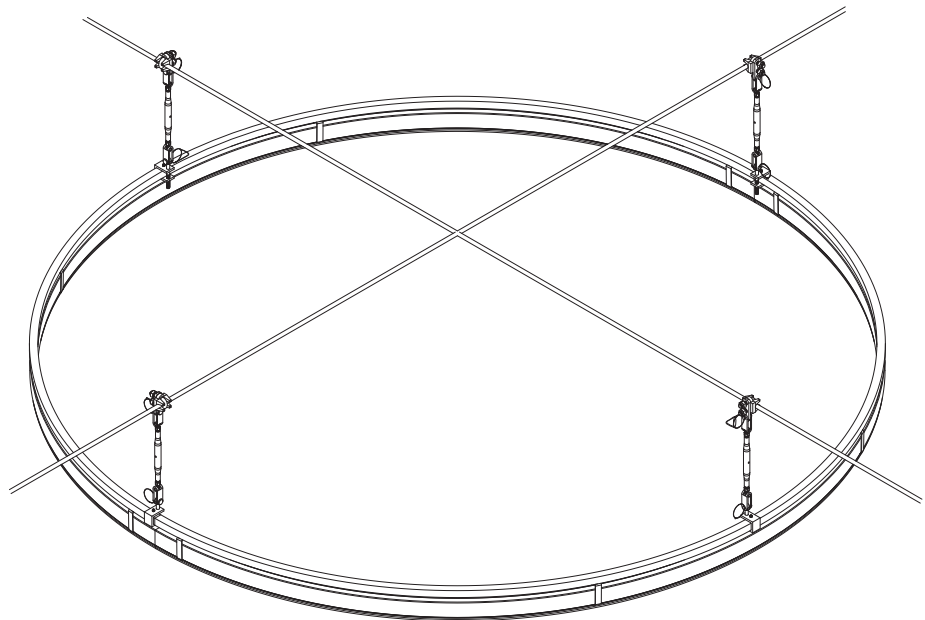**3.** 24 VOLTS DC
4. SUITABLE FOR WET LOCATIONS

5. CATENARY MOUNT ONLY

Plexineon Straight Run Fixture Catenary Mount

Plexineon Ring Catenary Mount

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1

NOTE: Prior to installation all 24VDC wires must be present within 72" of the installation. Refer to the power supply installation instruction for additional information.

NOTE: More than one person is recommended for this installation.

1.1

NOTE: This step is only for multi-piece frames. If you have single piece frame, skip to step 2.1.

locknut

mounting clip

mounting frame joiner

screw
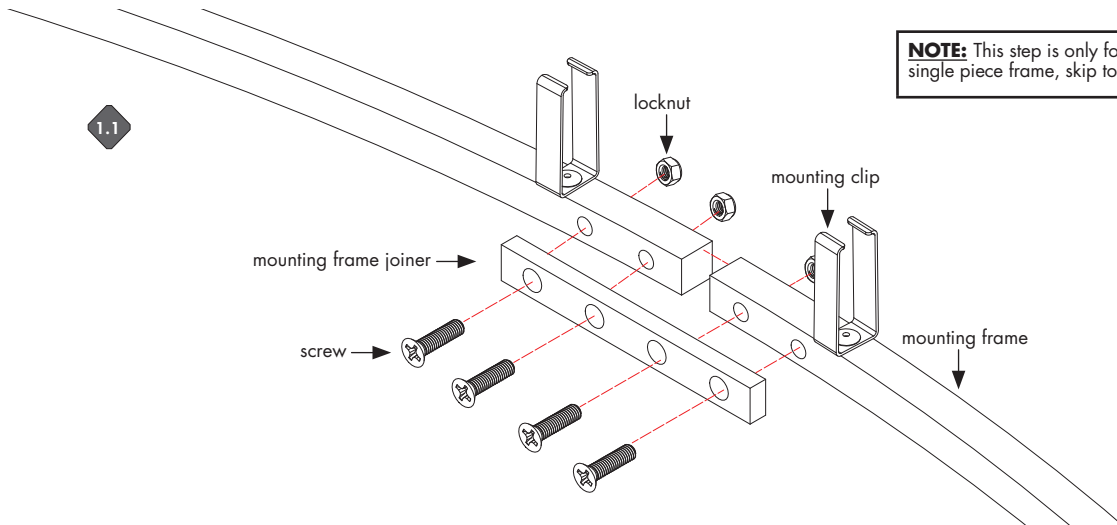
mounting frame

1.1 For multi-piece frames, connect the frame members together with mounting frame joiner. Use locknuts to secure connection.

2

2.1

plexineon fixture

mounting frame
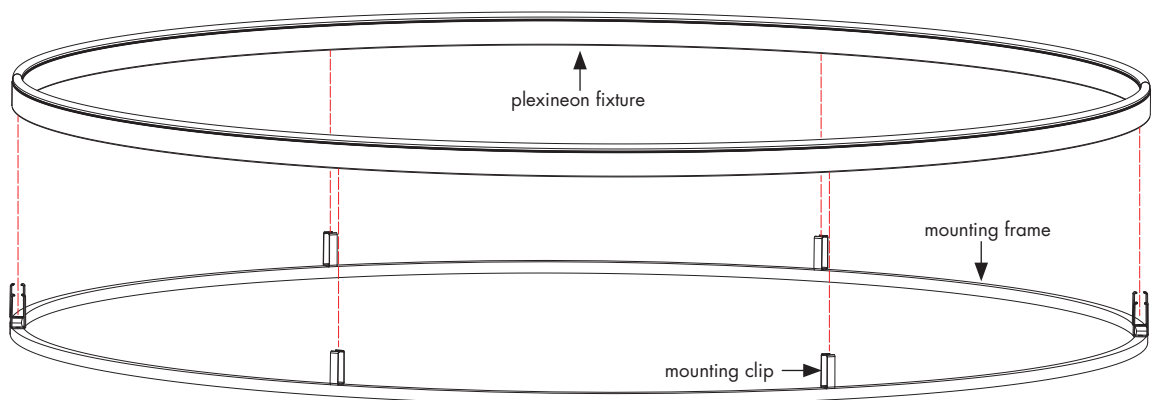
mounting clip

2.1 Install plexineon fixture to mounting clips on mounting frame(s).

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Install Fixtures into Mounting Clips

A.1 — mounting clip — mounting clip installation tool

A.2 — on grip

A.1 Make an U shape with mounting clip installation tool, insert two edges into mounting clip. Place plexineon fixture insde the shape. Then push the fixture into clip.

A.2 Remove the tool. Make sure mounting clip is clipped right on the grip.

3

3.1 — turnbuckle — u-bracket

3.2 — turnbuckle — set screw — mounting frame — u-bracket — plexineon fixture — mounting clip

3.3 — bolt — set screw

3.1 Unscrew and remove uchain from turnbuckle.

3.2 Cauculate points for turnbuckles on mounting frame. Set uchain to measured place.

3.3 Screw bolt back into uchain to lock the turnbuckle with mounting frame, securing the position by set screw.

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4

locknut
saddle
4.1
u-bolt
catenary cable
turnbuckle
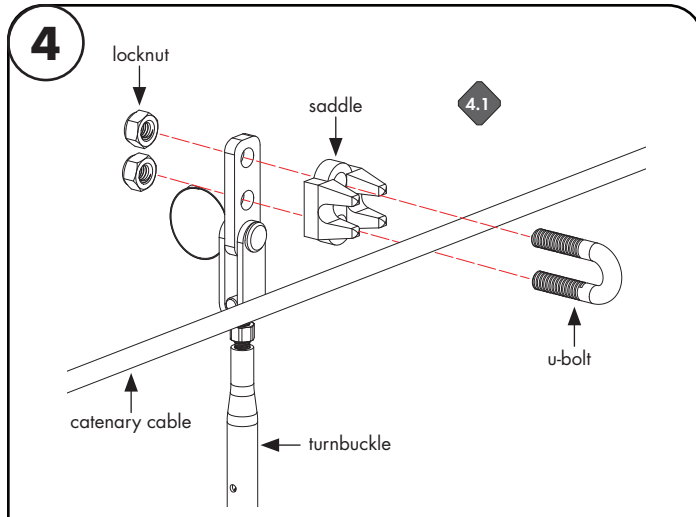
NOTE: Catenary cables are provided by others. Max Ø1/4".

4.1 Loosen locknuts to remove the U-bolt. Place the catenary cable between the saddle and u-bolt. Use locknuts to clamp the catenary cable between the saddle and u-bolt. Do this for all rope clips.

5

catenary cable
5.1
turnbuckle
mounting frame
plexineon fixture
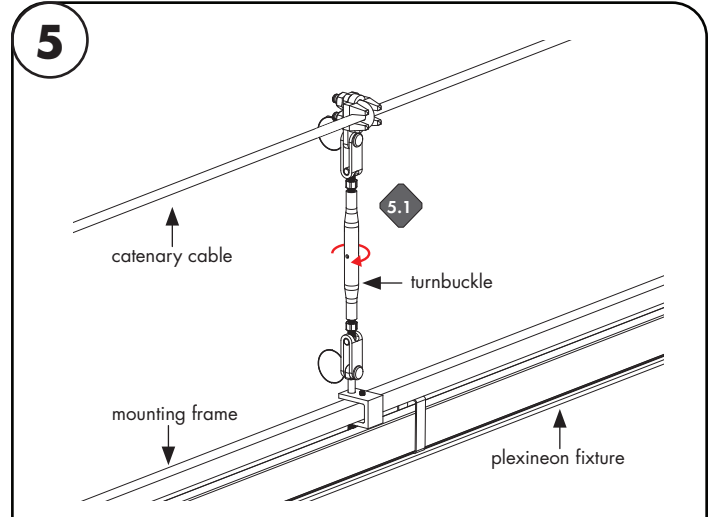
5.1 After installing plexineon with catenary cable, adjust the length by rotating the middle part of turnbuckle.

NOTE: Turnbuckle is adjustable up to 2.5" vertically.

Power Supply Wiring Diagram

Note: *Prior to installation all 24VDC wires must be present near fixture. Refer to the power supply installation instructions for additional information.*

RGB/RGBW
Wiring Diagram PDF

Pixel
Wiring Diagram PDF

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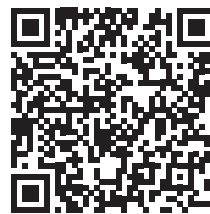4. SUITABLE FOR WET LOCATIONS

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## RGBW-PXSPI WIRING DIAGRAM

SR-DMX-SPI

Smart Pixel LineLED Decoder

NOTE: Please make sure that power is turned off before wiring.

Also, ensure that the correct power supply (voltage and wattage) is used to power the LED strips connected to the decoder. Follow illustrated wiring diagram. Use screwdriver to open and close connection slots.

NOTE: When connecting two or more LED strip lights or light fixtures, always make sure the signal direction arrows are pointing to same direction

The signal direction arrow should appear on label of each section of LED fixture.

Signal direction arrow

Signal direction arrow
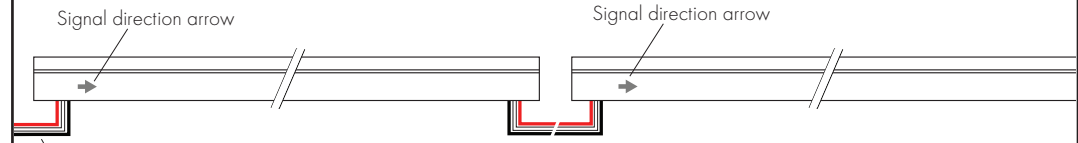
NOTE: Must power from the opposite direction of the signal direction arrow

MX Terminator for the
t DMX decoder*

120 ohms

DMX512 SIGNAL DECODER

→ DMX +
→ DMX - **In**
→ GND

← DMX +
← DMX - **Out**
← GND

DMX512 TO SPI SIGNAL CONVERTER

M **+** **−**

CE FC RoHS

32 ft max, decoder to strip

PIXEL PLEXINEON

V+
DATA
CLK
GND

POWER IN
5-24VDC
Max.12A

−
+

ONTROLLER WIRES

00 ft max,
coder to Controller
rovided by others

POWER SUPPLY

(-)   output   AC   (L)
         24VDC   input
(+)   (N)

---

*LUMINII RESERVES THE RIGHTS TO CHANGE SPECIFICATION & INSTRUCTION WITHOUT NOTICE

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REV0.1
12092024

OPERATING GUIDE

SR-DMX-SPI

Smart Pixel LineLED Decoder

There are three buttons on the decoder.   **M** Parameter Setting   **+** Increase Value   **−** Decrease Value

After operation, if no action was taken within 30s, the button lock, and backlight of the screen will turn off.

1. Long press M button for 5s to unlock the buttons, and the backlight will turn on.
2. Long press M button for 5s to switch between test mode and decode mode after unlocked.
During test mode, the first line of LCD will show: TEST MODE. Use test mode to verify RGBW Pixel functionality.
Duirng decoder mode, the first line of LCD shows: DECODER MODE. Use decoder mode when connecting to a Controller and for final installation and customization.

The second line of the LCD Display shows the current setting and value. Note: 1 Pixel = 1 Cut Increment

NOTE:
When connected to a controller, DMX512 Signal Decoder will stay in "Decoder Mode".

MODE TABLE

SETTING	LCD DISPLAY	VALUE RANGE	DESCRIPTION
Built-in Programs	TEST MODE MODE NO.:	1-26	See Program Table below
Program Speed	TEST MODE RUN SPEED:	0-7	0: fast, 7: slow
DMX Address	DECODER MODE DMX ADDRESS:	1-512	Address of the starting point/Pixel of a program
DMX Signal RGB	DECODER MODE DMX RGB SEQ:	RGB, BGR, etc.	N/A
Pixel Quantity	DECODER MODE PIXEL QTY:	1-170(RGB), 1-128(RGBW)	Number of Pixels to follow a program
IC TYPE	DECODER MODE IC TYPE:	2903, 8903, 2904, 8904	2903: N/A, 2904: for RGBW, 8903: N/A, 8904: N/A
Color	DECODER MODE COLOR:	MONO, DUAL, RGB, RGBW	MONO: N/A, DUAL: N/A, RGB: N/A, RGBW: for RGBW
Pixel Merging / Pixel Size	DECODER MODE PIXEL MERGE:	1-100	Number of Pixels to merge together
RGB Sequence	DECODER MODE LED RGB SEQ:	RGBW, BGRW, etc.	Sequence of RGBW, 24 possible combinations
Integral Control	DECODER MODE ALL CONTROL:	YES, NO	Yes: Merge all Pixels No: Maintain individual Pixels or Merged Pixels
Reverse Control	DECODER MODE REV-CONTROL:	YES, NO	Reverse program order
Overall Brightness	DECODER MODE BRIGHTNESS:	1-100	1: dimmest setting 100: brightest setting

NOTE:
The actual maximum control pixels of the controller are 1360 (2903) ,1024 (2904). Please set the pixel and pixel combination value according to the actual situation, and DO NOT exceed the maximum.

NOTE: For Program Table
Change: no fading/dimming between color changes
Fade: fade/dim between color changes
Chase: change pixel by pixel
Chase with Trail: change pixel by pixel with fading between

PROGRAM TABLE

PROGRAM NO.	PROGRAM DESCRIPTION	PROGRAM NO.	PROGRAM DESCRIPTION	PROGRAM NO.	PROGRAM DESCRIPTION
1	Solid color: Red	10	RGB fading	19	Red chasing green, chasing blue
2	Solid color: Green	11	Full color fading	20	Orange chasing purple, chasing cyan
3	Solid color: Blue	12	Red chase with trail		
4	Solid color: Yellow	13	Green chase with trail	21	Rainbow chase (7 colors)
5	Solid color: Purple	14	Blue chase with trail	22	Random twinkle: white over red
6	Solid color: Cyan	15	White chase with trail	23	Random twinkle: white over green
7	Solid color: White	16	RGB chase with trail	24	Random twinkle: white over blue
8	RGB change	17	Rainbow chase with trail	25	White fading
9	Full color change	18	RGB chasing and fading	26	Off