

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!

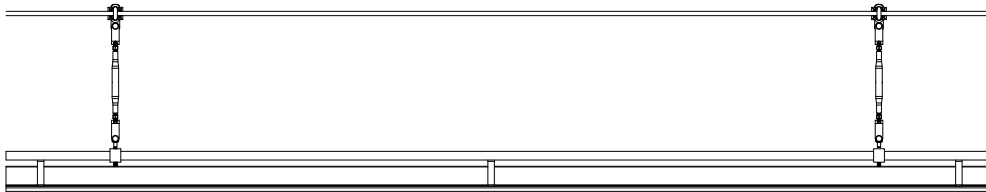
1. PRODUCT TO BE INSTALLED BY A QUALIFIED ELECTRICIAN.
2. USE ONLY WITH CLASS 2 POWER UNIT
3. 24 VOLTS DC
4. SUITABLE FOR WET LOCATIONS
5. CATENARY MOUNT ONLY



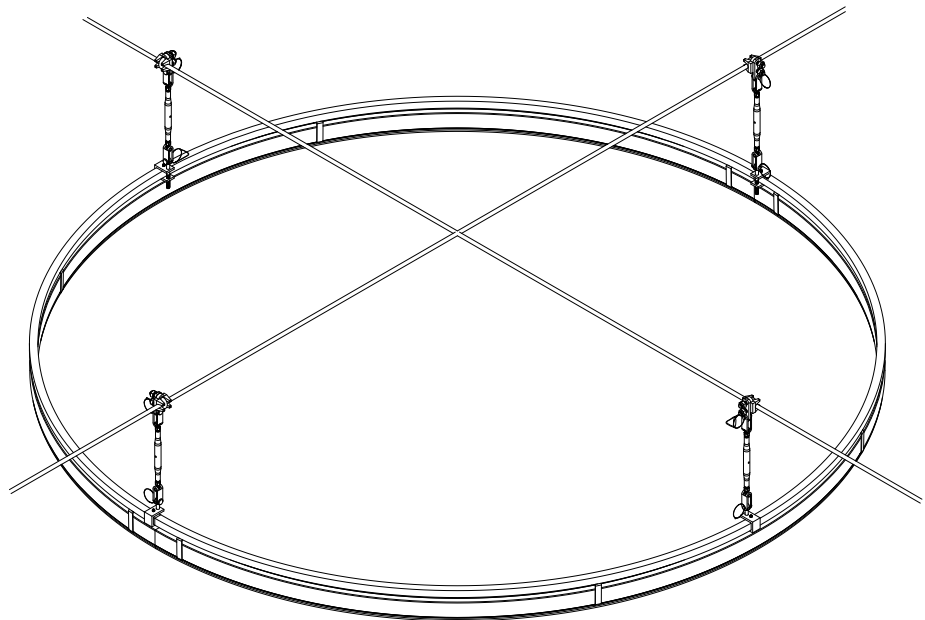
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Plexineon Straight Run Fixture Catenary Mount



Plexineon Ring Catenary Mount

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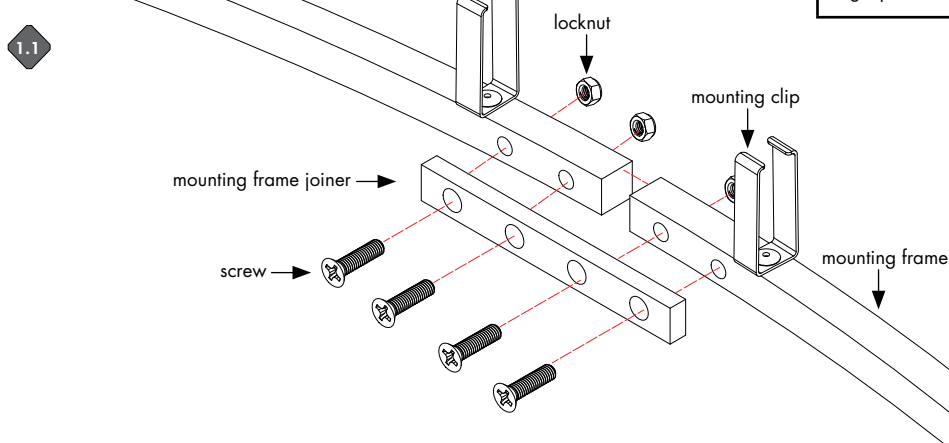
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NOTE: Prior to installation all 24VDC wires must be present within 72" of the installation. Refer to the power supply installation instruction for additional information.

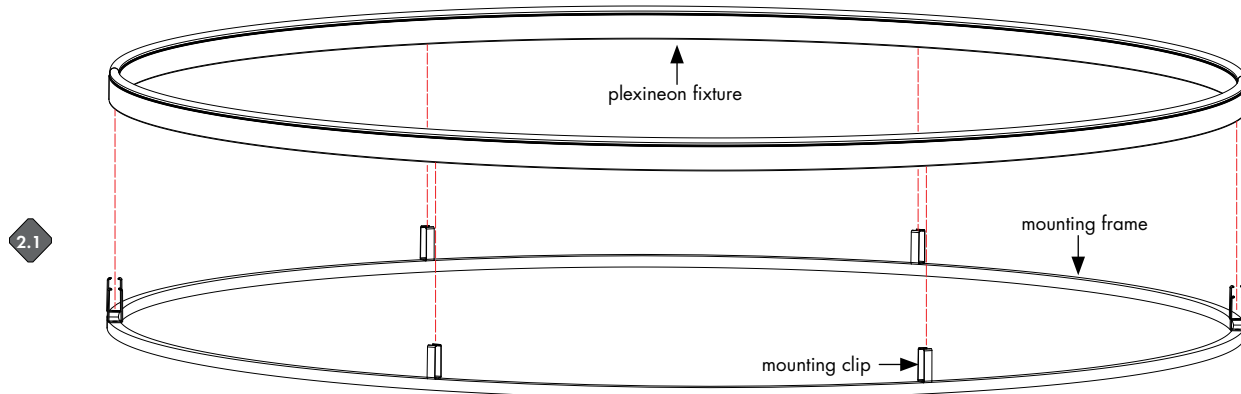
NOTE: More than one person is recommended for this installation.

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



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

2



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

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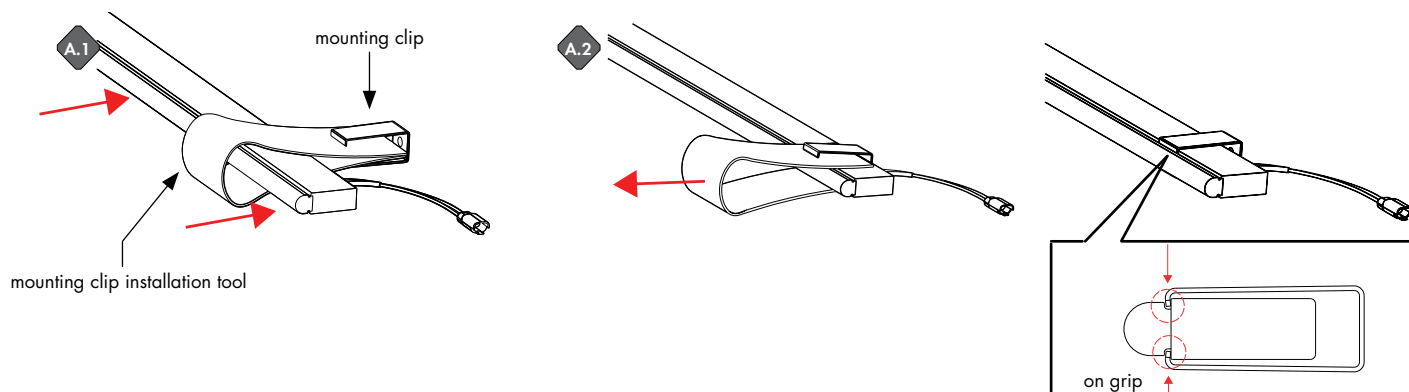


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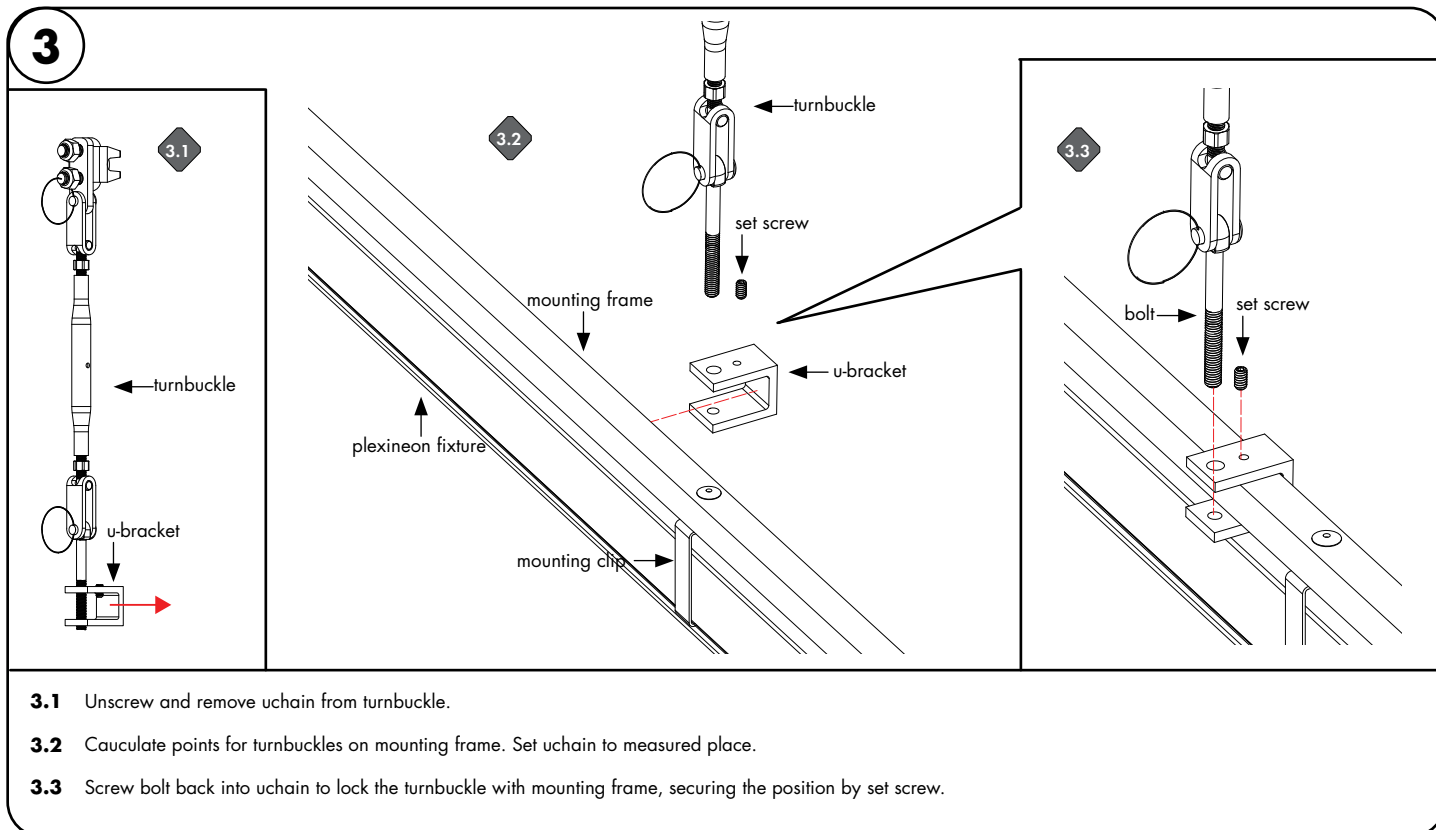
Install Fixtures into Mounting Clips



A.1 Make an U shape with mounting clip installation tool, insert two edges into mounting clip. Place plexineon fixture inside 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 Unscrew and remove uchain from turnbuckle.

3.2 Calculate 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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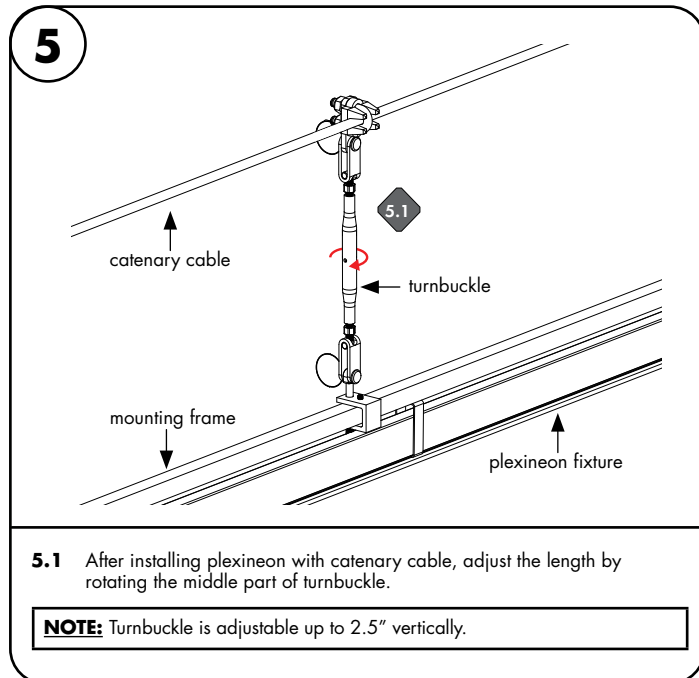
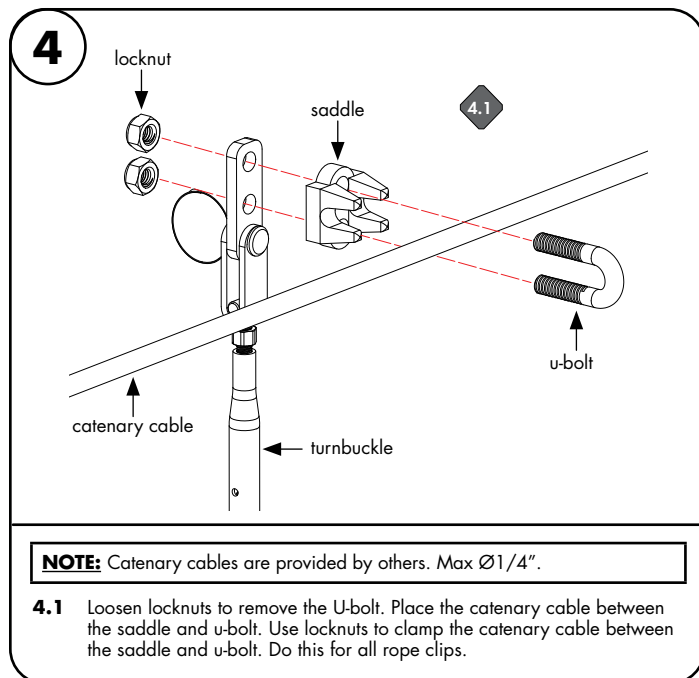
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Power Supply Wiring Diagram

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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RGBW-PXSPI WIRING DIAGRAM

SR-DMX-SPI

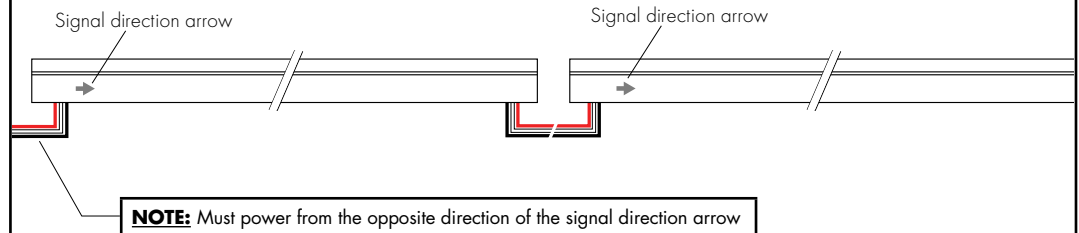
Smart Pixel LineLED Decoder

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.



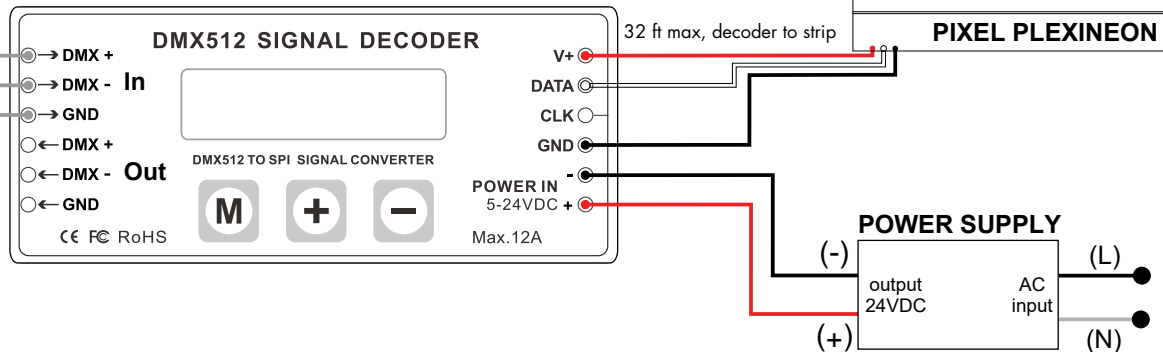
DMX Terminator for the last DMX decoder*

120 ohms

CONTROLLER WIRES

1000 ft max,
decoder to Controller

*Provided by others



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OPERATING GUIDE

SR-DMX-SPI

Smart Pixel LineLED Decoder

There are three buttons on the decoder.



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.
- During 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

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:

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

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 | 21 | Rainbow chase (7 colors) |
| 4 | Solid color: Yellow | 13 | Green chase with trail | 22 | Random twinkle: white over red |
| 5 | Solid color: Purple | 14 | Blue chase with trail | 23 | Random twinkle: white over green |
| 6 | Solid color: Cyan | 15 | White chase with trail | 24 | Random twinkle: white over blue |
| 7 | Solid color: White | 16 | RGB chase with trail | 25 | White fading |
| 8 | RGB change | 17 | Rainbow chase with trail | 26 | Off |
| 9 | Full color change | 18 | RGB chasing and fading | | |