

# PIXIE CURVE 60

User Manual

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Europe Energy Saving Notice

Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

**DOCUMENT VERSION**



Due to additional product features and/or enhancements, an updated version of this document may be available online.

Please check [www.adj.com](http://www.adj.com) for the latest revision/update of this manual before beginning installation and/or programming.

Date	Document Version	Software Version	DMX Channels	Notes
02/19/2024	1.0	N/A	Not Applicable	Initial release
11/26/2024	1.1	N/A	Not Applicable	Updated Dimensional Drawings, Specifications

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# INTRODUCTION

**Introduction:** Congratulations on your purchase of the ADJ Pixie Curve 60! This device is a 1-meter indoor curved LED strip with 60 RGB SMD LEDs, intended specifically for use in conjunction with ADJ's Pixie Driver series, and should perform reliably for years when the guidelines in this booklet are followed. Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important information regarding safety during use and maintenance. Please keep this manual with the unit for future reference.

**Customer Support:** Contact ADJ Service for any product related service and support needs. Also visit [forums.adj.com](http://forums.adj.com) with questions, comments or suggestions.

**Parts:** To purchase parts online visit:

<http://parts.adj.com> (US)

<http://www.adjparts.eu> (EU)

**ADJ SERVICE USA - Monday - Friday 8:00am to 4:30pm PST**

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**WARNING!** To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

**CAUTION!** There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, as doing so will void your manufacturer's warranty. In the unlikely event your unit may require service, please contact ADJ Products, LLC.

*Do not discard the shipping carton in the trash. Please recycle when ever possible.*

# LIMITED WARRANTY (USA ONLY)

- A. ADJ Products, LLC hereby warrants, to the original purchaser, ADJ Products, LLC products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase (see specific warranty period on reverse). This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.
- B. For warranty service, you must obtain a Return Authorization number (RA#) before sending the product back—please contact ADJ Products, LLC Service Department at 800-322-6337. Send the product only to the ADJ Products, LLC factory. All shipping charges must be prepaid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, ADJ Products, LLC will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall incur no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.
- C. This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which ADJ Products, LLC concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because it was not properly maintained as set forth in the product instructions, guidelines and/or user manual.
- D. This is not a service contract, and this warranty does not include maintenance, cleaning, or periodic check-up. During the period specified above, ADJ Products, LLC will replace defective parts at its expense with new or refurbished parts, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC. All products covered by this warranty were manufactured after August 15, 2012, and bear identifying marks to that effect.
- E. ADJ Products, LLC reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.
- F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by ADJ Products, LLC in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And all warranties, whether expressed or implied, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. The consumer's and/or dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall ADJ Product, LLC be liable for any loss and/or damage, direct and/or consequential arising out of the use of, and/or inability to use this product.
- G. This warranty is the only written warranty applicable to ADJ Products, LLC products, and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

## MANUFACTURER'S LIMITED WARRANTY PERIODS:

- Non-LED Lighting Products = 1-Year (365 Days) (Including Special Effect Lighting, Intelligent Lighting, UV lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands, Power/Data Distribution, etc. excluding LED and lamps)
- Laser Products = 1-Year (365 Days) (excluding laser diodes which have a 6-Month Limited Warranty)
- LED Products = 2-Year (730 Days) (excluding batteries which have a 180 Day Limited Warranty)
- NOTE: 2-Year (730 Days) Limited Warranty ONLY applies to product purchased within the United States. StarTec Series = 1-Year (365 Days) (excluding batteries which have a 180 Day Limited Warranty)
- ADJ DMX Controllers = 2 Year (730 Days)
- American Audio Products = 1 Year (365 Days)

## **WARRANTY REGISTRATION**

Please fill out the enclosed warranty card to validate your purchase. All returned service items, whether under warranty or not, must be freight pre-paid and accompanied by a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper included in the shipping carton. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. You may obtain an R.A. number by contacting our customer support team. All packages returned to the service department not displaying an R.A. number on the outside of the package will be returned to the shipper.

## **INCLUDED ITEMS**

- Round clear cover (x1)
- 10.6" (0.27m) 4-pin power/data cable (x1)
- Adapter Bracket (x1)

# IP65 RATED

The International Protection (IP) rating system is commonly expressed as “IP” (Ingress Protection) followed by two numbers (i.e. IP65), where the numbers define the degree of protection. The first digit (Foreign Bodies Protection) indicates the extent of protection against particles entering the fixture, and the second digit (Water Protection) indicates the extent of protection against water entering the fixture. An **IP65** rated lighting fixture is designed and tested to protect against the ingress of dust (6), and low-pressure water jets from any direction (5).

**NOTE: THIS FIXTURE IS INTENDED FOR TEMPORARY OUTDOOR USE ONLY!**

**Maritime/Coastal Environment Installations:** A coastal environment is seaside adjacent, and caustic to electronics through exposure to atomized salt-water and humidity, whereas maritime is anywhere within 5-miles of a coastal environment.



**NOT suitable for maritime/coastal environment installations. Installing this fixture in a maritime/coastal environment may cause corrosion and/or excessive wear to the interior and/or exterior components of the fixture. Damages and/or performance issues resulting from installation in a maritime/coastal environment will void the manufactures warranty, and will NOT be subject to any warranty claims and/or repairs.**

Maritime installations require additional preparation, and additional service intervals may be needed given the maritime use. In general, IP ratings presuppose freshwater conditions VS maritime conditions, which are typically more “caustic” to IP fixtures (both internally and externally). A duty-cycle may also be needed when units are not in use. During times of high humidity and colder temperatures, condensation may occur internally so the fixture may require a duty-cycle to bring it up to running temperature, allowing any accumulation of moisture to be expelled via the vent valve. Recommendations can change based on installation environmental circumstances. A waterproof dome or similar device is recommended for use in permanent outdoor installations. When using a dome, refer to manufacturer recommendations for duty-cycle.

**NOTE: NOT ALL FEATURES LISTED ARE AVAILABLE ON ALL FIXTURES; THE FOLLOWING INSTRUCTIONS MAY NOT APPLY. CONTACT SUPPORT FOR ADDITIONAL DETAILS.**

**Exterior Maintenance:** Inspect the exterior every 30-days. The unit must be powered off/disconnected. Inspect optics to determine if the lens is obstructed, then clean optics and chassis accordingly. Based on initial finding, schedule maintenance accordingly, keeping in mind that exterior maintenance will be required. Even if the luminaires are NOT in use, maintenance will still be needed given its location (exterior use). The use of a durable type of wax on the chassis is recommended since it will help prevent contaminant build up. Inspect both power and data lines for any signs of contaminants or corrosion. Periodically reapplying di-electric grease, especially in coastal environments. If any signs of corrosion/contaminants are present, clean thoroughly, and/or replace connectors, then reapply di-electric grease. Typically, this should be done annually, or any time an opportunity presents itself. As a preventive measure, annual replacement of both vent valves is recommended. The vent valve membrane can become contaminated and/or clogged causing improper venting of humidity within the luminaire. Inspect all mounting hardware as a precaution.

**Interior Maintenance:** Inspect the interior every 30-days. The unit must be powered off/disconnected.

- Inspect zoom/focus mechanism, clean optics, lubricate linear bearings (Krytox oil) as needed, inspect belts for wear
- Inspect all rotating effect wheels, manually rotate them, note any resistance
- Inspect all remaining rotating belts for any wear
- Inspect all fans, clean as needed, check rotation, check connections
- Inspect CMY module, manually move flags and check for signs of resistance, and if needed, clean guide rods first, then reapply a thin layer of grease (moly lube)
- Clean interior with low-volume compressed air, then clean optics prior to reassembly of head covers

Although the base has limited moving parts, the pan belt should also be inspected for wear. Remember to always perform an IP test anytime a cover is removed.

There is no specific time frame regarding the routine replacement of parts such as belts/stepper motors, PCBs, or LEDs. These items should only be replaced on an as needed bases, except for cooling fans, which should be replaced once the luminaries reach 10,000-hours. This is a prophylactic measure intended to keep the unit running as cool as possible, insuring proper function of all internal components. A complete service breakdown is available, please contact [service@adj.com](mailto:service@adj.com) for any needed parts or manuals.

# SAFETY PRECAUTIONS



**PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.**



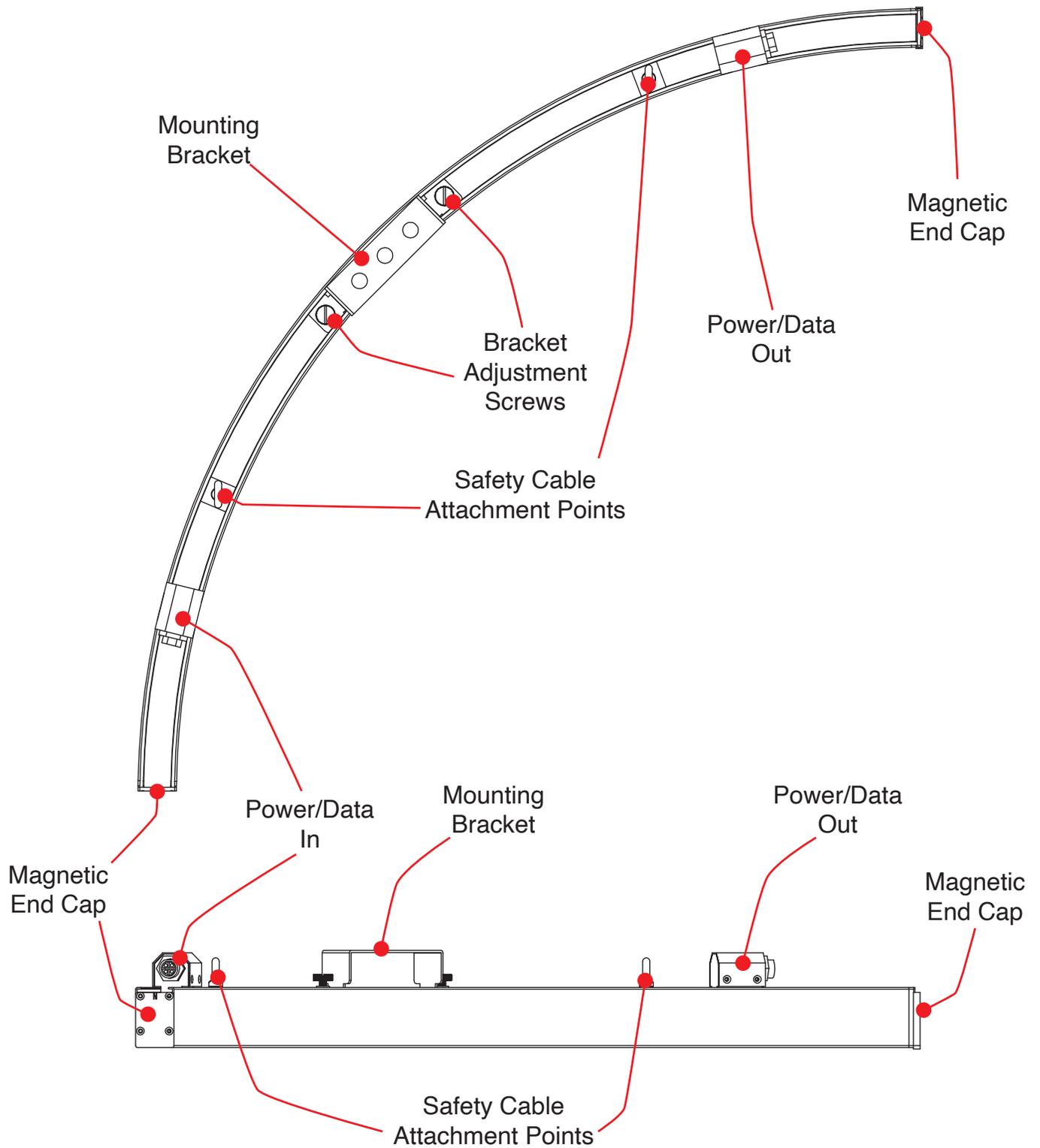
**THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF, AS DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.**



**NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!  
RETINA INJURY RISK - MAY INDUCE BLINDNESS!  
SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!**

- ***Ambient operating temperature range is -4°F to 113°F (-20°C to 45°C)!***
- DO NOT TOUCH the fixture housing during operation. Disconnect the power and allow approximately 15 minutes for the fixture to cool down before servicing.
- DO NOT shake the fixture, and avoid brute force when installing and/or operating the fixture.
- DO NOT operate the fixture if the power cord has become frayed, crimped and/or damaged. If the power cord is damaged, replace immediately with a new one of the same power rating.
- DO NOT attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- DO NOT attempt to operate this unit if it has been damaged in any way.
- Disconnect from main power before making any type of connection.
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- This unit is intended for indoor use only, and use of this product outdoors voids all warranties.
- DO NOT remove the cover for any reason.
- When installing fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25mm, and always install fixture with an appropriately rated safety cable.
- Never plug this unit in to a dimmer pack.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point where they exit from the unit.
- Cleaning - The fixture should be cleaned only as recommended by the manufacturer.
- Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The fixture should be serviced by qualified service personnel when:
  - A. The power-supply cord or the plug have been damaged.
  - B. Objects have fallen onto, or liquids have been spilled into, the fixture.
  - C. The fixture does not appear to operate normally or exhibits a marked change in performance.
  - D. The fixture has fallen and/or has been subjected to extreme handling.

# OVERVIEW



# INSTALLATION

## FLAMMABLE MATERIAL WARNING!

Keep drive a minimum of 5.0 feet (1.5m) away from flammable material and/or pyrotechnics.

## ELECTRICAL CONNECTIONS

A qualified electrician should be used for all electrical connections and/or installations.

## DO NOT INSTALL THE DEVICE IF YOU ARE NOT QUALIFIED TO DO SO!

The device **MUST** be installed following all local, national, and country commercial electrical and construction codes and regulations.

Maximum ambient operating temperature range is **-4°F to 113°F (-20°C to 45°C)**. Do not operate this device when ambient temperature falls outside this range.

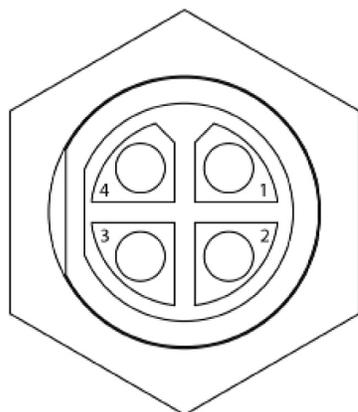
Before rigging or mounting a single fixture or multiple interconnected fixtures for custom matrix designs to any metal truss or structure or placing the fixture(s) on any surface, a professional equipment installer **MUST** be consulted to determine whether the metal truss, structure, or surface is properly certified to safely support the combined weight of the fixture(s), clamps, cables, and any other accessories.

Fixture(s) should be installed in areas outside walking paths, seating areas, or away from areas where unauthorized personnel might be able to reach the device by hand.

**NEVER** stand directly below the fixture(s) when rigging, removing, or servicing. Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable (not included) that meets all local, national, and country codes and regulations. Allow approximately 15 minutes for the fixture to cool down before servicing.

## SOCKET PIN CONFIGURATION

This device features two (2) power/data ports, which may be used to connect the device to other lighting fixtures. The pins for each output socket are configured as shown in the image below. **Please consult a qualified electrician for all electrical connections and/or installations.**

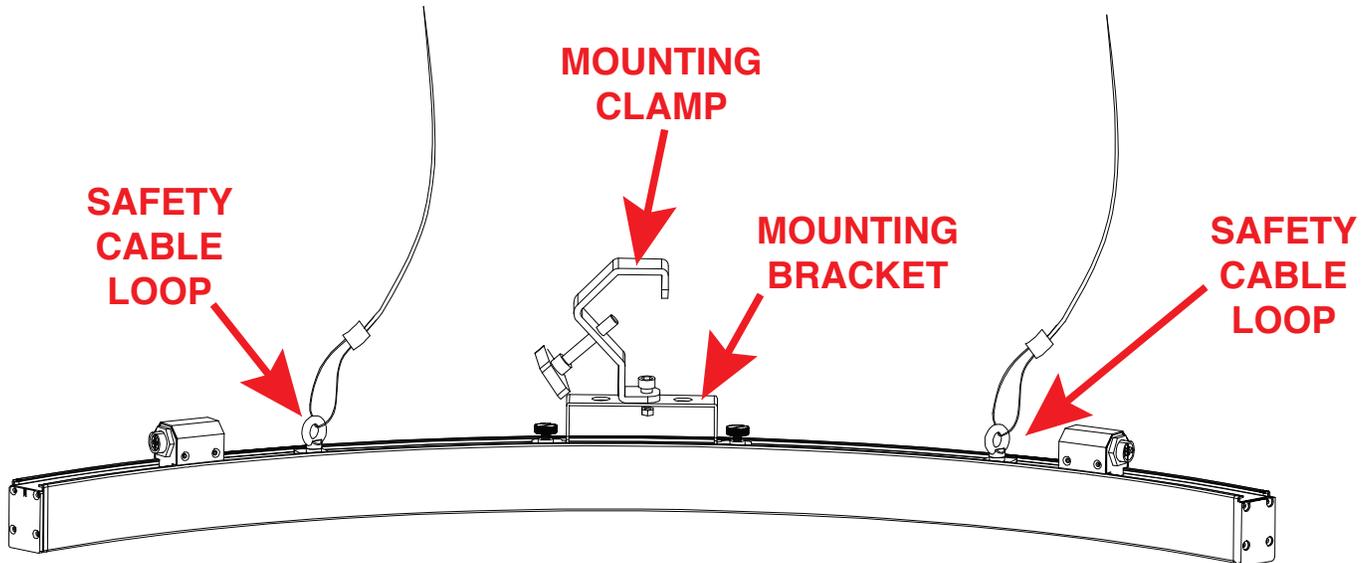


- Pin 1: Power (+)
- Pin 2: Data
- Pin 3: CLK (clock pin)
- Pin 4: Power (-)

# INSTALLATION

## CLAMP MOUNTING

This fixture features a sliding, adjustable mounting bracket (some models feature multiple mounting brackets), as well as two safety cable attachment points on the main body of the fixture near the ends of the fixture (see illustration below). When mounting this fixture in a suspended environment, be sure to secure an appropriately rated clamp (not included) to the mounting bracket, and attach a separate **SAFETY CABLE** (not included) to each safety cable attachment point. **Please note that both safety cable attachment points must be used in order to securely mount this fixture.**



### SAFETY CABLE:

**ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THAT THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.**

## RIGGING

Overhead rigging requires extensive experience, including but not limited to: calculating working load limits, understanding the installation material being used, and periodic safety inspection of all installation material and the fixture itself. If you lack the qualification, do not attempt the installation yourself. Improper installation can result in bodily injury.

# INSTALLATION GUIDELINES

## MULTIPLE FIXTURES

Multiple fixtures may be daisy chained together via the Power/Data In and Power/Data Out ports located on each fixture. The maximum number of fixtures that may be daisy chained together and connected to a single driver output port is determined by a combination of the driver output limitations and the RGB pixel control configuration.

Please see the **Driver Output Limitation** section and the **RGB Pixel Control** sections of the manual for the **ADJ Pixie Driver series** unit that you are using for details on these limitations and how to configure these settings to best accommodate your desired lighting setup.

The **ADJ Pixie Driver series** device that has been designed to work with these lighting fixtures has been programmed not to allow Pixie Curve fixtures to be added in such a way that the driver port output limitations will be exceeded. This is done by limiting the number of Pixie Curve units that can be selected in the System Menu of the driver based on what has already been set up. Please see the **Driver Output Limitations** section of the manual for the **Pixie Driver series** device that you are using for more detailed information.

## ALLOWABLE CABLE LENGTHS

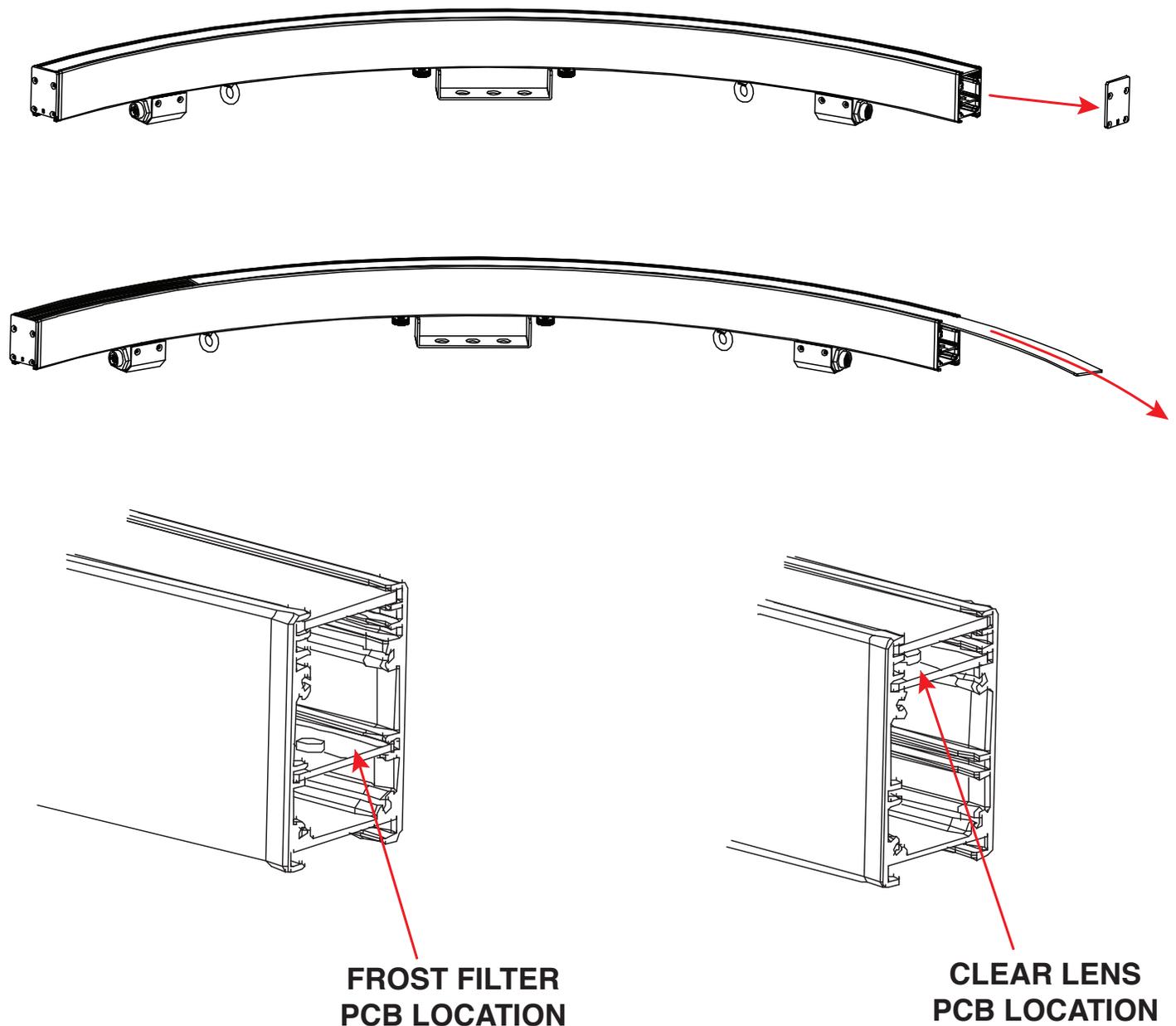
16-AWG 4-pin extension cable may be used to link multiple devices. However, please take note of maximum allowable cable lengths, as listed below.

- Max length of cable connecting a controller and a device: **59 feet (18m)**
- Max length of cable connecting two devices: **32 feet (10m)**
- Max total cable length in a single chain: **98 feet (30m) including the lengths of the lighting strip(s)**

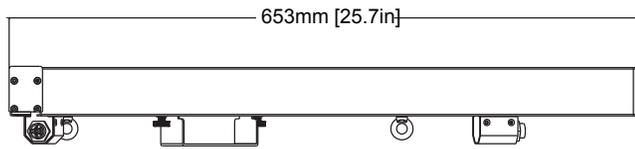
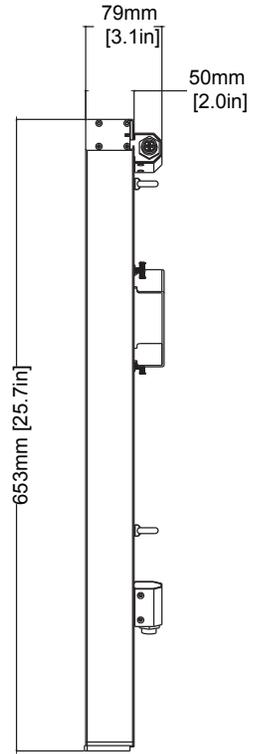
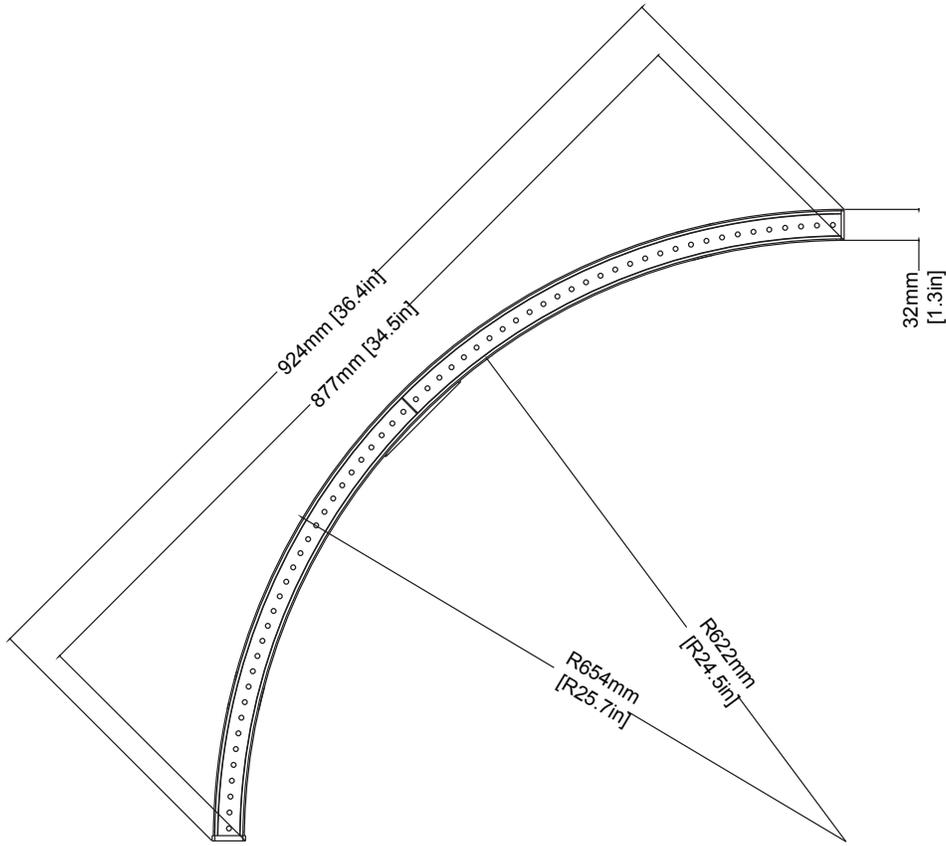
# ACCESSORY INSTALLATION

## FROST FILTER

This device includes two different LED lens covers: one clear, and one frosted. To swap lenses, use a screwdriver to remove the magnetic end cap, then gently slide the current lens cover out of place. Replace with the desired lens cover. **Please note that the PCB will also need to be relocated, depending on which lens is installed. For the frost filter, the PCB should be mounted low in the slot about 2/3 of the way down from the lens, but for the clear lens, the PCB should be mounted high, in the second slot down from the lens.** Please refer to the illustration below. Once both lens and PCB are in the desired location, re-install the end cap to secure in place.



# DIMENSIONAL DRAWINGS



# SPECIFICATIONS

## Source:

- SMD RGB 3-in-1, APA-102C LEDs
- Color Resolution: 8 bits per color (24 bit per pixel)
- Viewing Angle: 120 x 120 degrees
- Pixels Per Fixture: 60 pixels
- Pixel Pitch (pixel center-to-center) 16.5mm
- PWM (Pulse Width Modulation): 44,000Hz
- 50,000 Hours Life

## Connectors:

- 4-pin Power/Data Input & Output

## Dimensions & Weight:

- Length: 36.4" (924mm)
- Width: 1.3" (32mm)
- Height: 3.1" (79mm)
- Weight: 2.0 lbs. (1.2kg)

## Power:

- DC24V
- Max Power Consumption: 12W

## Thermal:

- Ambient Operational Temperature: -4°F to 113°F (-20°C to 45°C)
- Storage Temperature: -22°F to 113°F (-30°C to 45°C)

## Certifications & IP Rating:

- CE
- cETLus (Pending)
- FCC
- IP65



## OPTIONAL ACCESSORIES

Order Code (US)	Order Code (EU)	Description
PIX142	1226200064	Pixie Driver 2000
PIX158	1611000078	1-foot (30cm) Pixie Strip Link Cable
PIX174	1611000079	3-foot (1m) Pixie Strip Link Cable
PIX188	1611000080	5-foot (1.5m) Pixie Strip Link Cable
PIX200	1611000081	10-foot (3m) Pixie Strip Link Cable
PIX213	1611000082	15-foot (4.5m) Pixie Strip Link Cable
PIX229	1611000083	25-foot (7.5m) Pixie Strip Link Cable
PIX242	1611000084	50-foot (15m) Pixie Strip Link Cable

# FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS

This product has been tested and found to comply with the limits as per Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device uses and can radiate radio frequency energy and, if not installed and used in accordance with the included instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following methods:

- Reorient or relocate the device.
- Increase the separation between the device and the receiver.
- Connect the device to an electrical outlet on a circuit different from which the radio receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!



