# ELECTRAPIX BAR 8

## User Manual

Europe Energy Saving Notice
Energy Saving Matters (EuP 2009/125/EC)
Saving electric energy is a key to help protecting the enviroment. 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 for the latest revision/update of this manual before beginning installation and/or programming.**

| Date | Document Version | Software Version | DMX Channels | Notes |
|------|------------------|------------------|--------------|-------|
| 05/16/2024 | 1.0 | 1.00 | 5 / 6 / 9 / 13 / 22 / 24 / 48 / 52 / 66 Ch | Initial release |
| 07/16/2024 | 1.1 | N/C | No Change | Updated Accessory Installation |
|  |  |  |  |  |

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# INTRODUCTION

*Unpacking:* Thank you for purchasing the ElectraPix Bar 8 by ADJ Products, LLC. Every device has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to have been damaged, carefully inspect your fixture for any damage and be sure all accessories necessary to operate the unit have arrived intact. In the event that damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Do not return this unit to your dealer without first contacting customer support.

*Introduction:* The ADJ Lighting ElectraPix Bar 8 is a cutting-edge, .5-Meter battery powered, wireless DMX lighting solution. Packed with advanced features, this fixture boasts eight 20-Watt Hex Color LED (RGBAL+UV), providing unparalleled control and creativity. Powered by either batteries or wall outlets, it offers up to 20 hours of battery operation. **This product is intended to be used by professionally trained personnel only and is not suitable for private use.**

*Customer Support:* Contact ADJ Service for any product related service and support needs. Also visit **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**
**Voice: 800-322-6337 | Fax: 323-582-2941** | support@adj.com

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For software updates, please contact the service department.

**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 cartoon 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.

# FEATURES

- 8 Pixel, Hex Color LED (RGBAL+UV) LED Bar
- Battery or Wall Powered
- Up to 20 Hour Battery Operation
- Battery Operation (Menu Option)
- Individual Pixel Control
- Built-In Foreground LED Programs
- Built-In Background LED Programs
- Variable White Color Temperature Control (2,300K ~ 9,900K)
- English & Spanish User Menu
- Built-In Alarm
- Color Calibrated LED's
- User Selectable LED Refresh Rates (900Hz ~ 25K)
- 6 User Selectable Dim Modes
- 4 User Selectable Dim Curves
- Electronic Strobe (0.3Hz ~ 11Hz)
- Electronic Dimming

**INCLUDED ITEMS**
- UC-IR24 Remote Control (x1)
- Outdoor Locking Power Cable (x1)
- 20° Diffusion Filter (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 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.
- DO NOT block any air ventilation slots. All fan and air inlets must remain clean and never blocked. Allow approx. 6" (15cm) between fixture and other devices or a wall for proper cooling.
- 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.
- DO NOT remove the cover for any reason.
- When installing fixture in a suspended enviroment, 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.

# SAFETY PRECAUTIONS

**⚠ CAUTION**

**HIGH INTENSITY ULTRAVIOLET LIGHT**
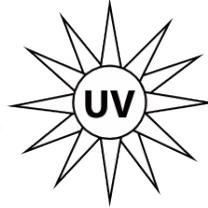
**AVOID DIRECT EYE & SKIN EXPOSURE.**
**WEAR PROPER EYE & SKIN PROTECTION.**
**SEE MANUAL FOR SAFETY INSTRUCTIONS.**

**RISK GROUP 3 - RISK OF EXPOSURE TO ULTRAVIOLET UV RADIATION!**

**FIXTURE EMITS HIGH INTENSITY WAVELENGTH OF ULTRAVIOLET UV LIGHT FROM THE UV COLOR FILTER.**

**WEAR PROPER EYE AND SKIN PROTECTION. AVOID PROLONGED PERIODS OF EXPOSURE TO UV COLOR FILTER.**

**AVOID WEARING WHITE COLOR CLOTHING AND/OR USING UV PAINTS ON SKIN. AVOID DIRECT EYE AND/OR SKIN EXPOSURE AT DISTANCES LESS THAN 11 feet (3.3m).**

**DO NOT OPERATE FIXTURE WITH DAMAGED/MISSING EXTERNAL COVERS.**

**DO NOT LOOK DIRECTLY INTO THE UV LIGHT AND/OR VIEW UV LIGHT DIRECTLY WITH OPTICAL INSTRUMENTS THAT MAY CONCENTRATE THE LIGHT/RADIATION OUTPUT.**

**INDIVIDUALS SUFFERING FROM A RANGE OF EYE CONDITIONS, SUNLIGHT EXPOSURE DIS-ORDERS, OR INDIVIDUALS USING PHOTOSENSITIVE MEDICATION, MAY RECEIVE DISCOMFORT IF EXPOSED TO THE ULTRAVIOLET UV LIGHT EMITTED FROM THE UV LED.**

# BATTERY WARNINGS
## HANDLING PRECAUTIONS

**Do not short circuit the battery.** Avoid subjecting the battery to a short circuit, as doing so generates a very high current, resulting in overheating, electrolyte gel leakage, harmful fumes, explosion risk, or other damage to the battery.

**Mechanical shock.** Dropping, impacting, striking, or bending the unit, or subjecting the unit to any other types of mechanical shock may cause failure or shortend life of the battery.

**Do not disassemble the batteries.** Never disassemble the batteries, as doing so may result in an internal short circuit in the battery, leading to fire, explosion, release of harmful fumes, or other hazards. Electrolyte gel is harmful, and contact should be avoided whenever possible. Should the electrolyte gel come into contact with the skin or eyes, flush the area of contact immediately with fresh water and seek medical attention immediately.

**Do not expose battery to heat or fire.** Never incinerate or dispose of the batteries in fire, as this could result in an explosion.

**Do not exposure the battery to water or liquids.** Never expose or immerse the batteries in liquids of any type, including water, seawater, soft drinks, juices, coffee, or other beverages.

**Battery Replacement.** For battery replacement please contact customer support.

**Never use a damaged battery.** Shipping carries a risk of damage to the battery. Should damage be observed, including damage to the plastic casing of the battery, deformation of the battery package, chemical or electrolyte odor, or leakage of the electrolyte gel, or any other miscellaneous damage, **DO NOT use the battery.** A battery with a odor of electrolyte or a gel leakage should be placed away from fire to avoid risk of fire or explosion.

**Battery Storage.** The battery should be stored at room temperature, with a charge of at least 50%. During long periods of storage, it is recommended that the battery be charged every 6 months. Doing so will prolong the life of the battery and will also make sure that the battery charge does not fall below the 30% mark.

**Other Chemical Reactions.** Because batteries rely on a chemical reaction to work, battery performance will deteriorate over time, even if stored for a long period of time without being used. In addition, if various usage conditions (such as charge, discharge, ambient temperature, etc.) are not maintained within the specified ranges, the life expectancy of the battery maybe shortened or the device in which the battery is used may be damaged by electrolyte gel leakage. If the batteries cannot maintain a charge for long periods of time, even when they are charged correctly, this may indicate the need to replace the battery.

**Battery Disposal.** Please dispose of battery according to local regulations.

# BATTERY CHARGING

The fixture may be charged directly by AC power, or by using the optional charging base and power supply (sold separately). Connect the power supply to a power source on one end, and to the charging base on the other, then slot the fixture onto the charging base with the charging port side facing downwards. Refer to the image below.

**It is recommended to disconnect the unit from the charger once the battery has reached full charge.** Doing so reduces the risk of overcharging the battery, which can shorten the service life of the battery.

**Please note that the charging components are NOT protected against the intrusion of dust and/ or water, and are intended for use only in a dry indoor environment. Do NOT expose to rain or moisture. When charging is complete, always seal the charging port with the included plug to maintain the fixture's IP rating.**



Charging
Base

Power
Supply

# OVERVIEW

L-Track

DMX In

Setup Button

Mode Button

Down Button

Up Button

Display Screen

Power In

Charge Port

DMX Out

Air Valve

Power Button

Power Out

L-Track

Mounting Bracket

Connector Brackets

L-Track

Mounting Bracket

Connector Slots
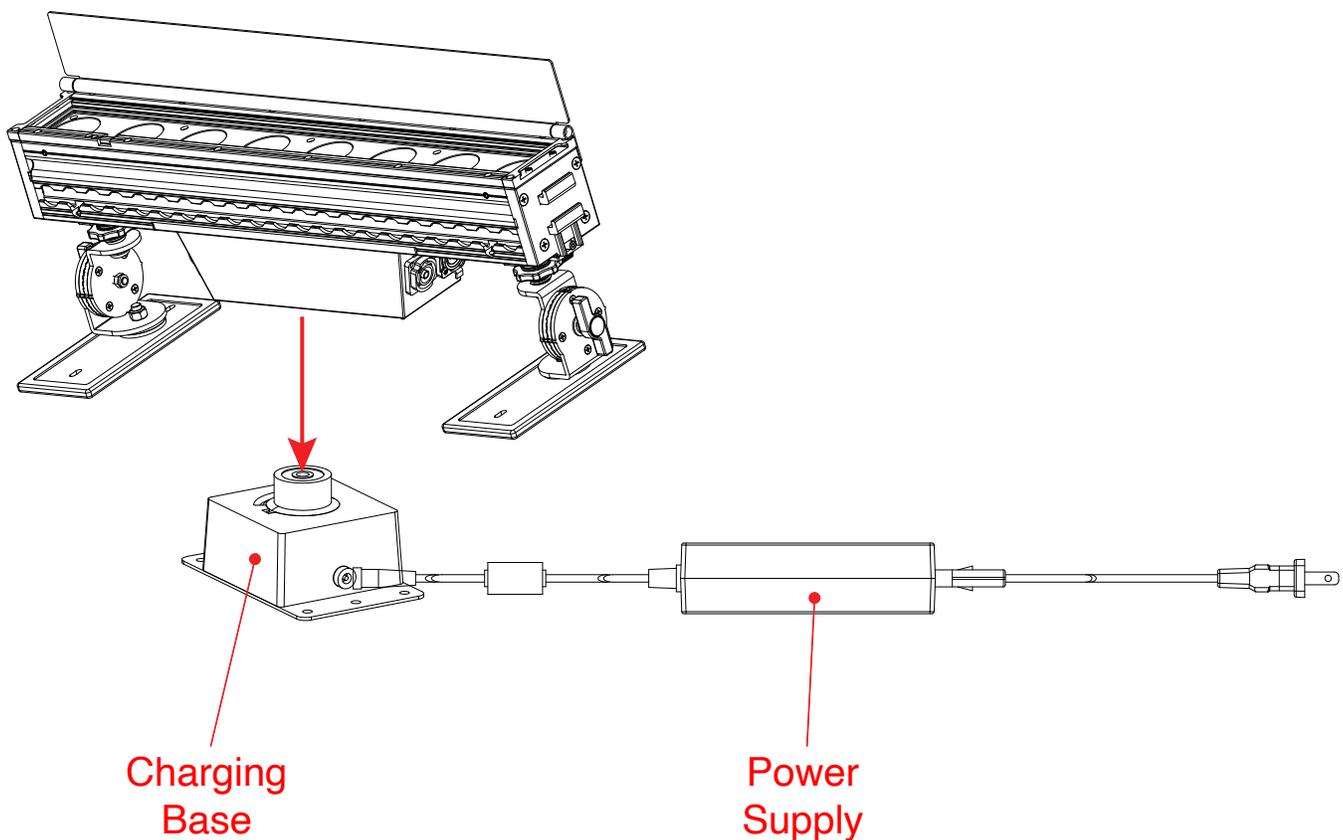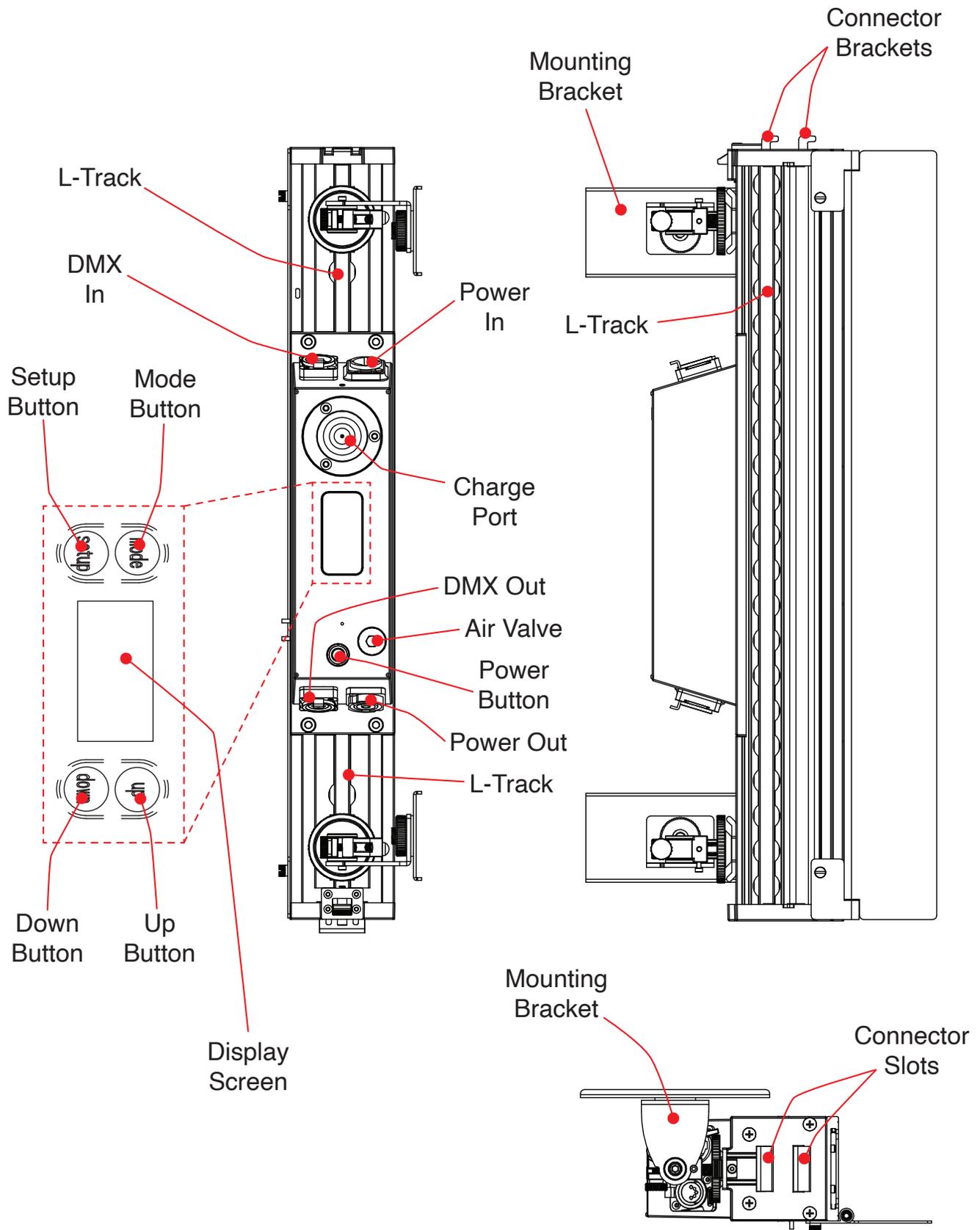
# INSTALLATION GUIDELINES

⚠ **DO NOT INSTALL THE FIXTURE IF YOU ARE NOT QUALIFIED TO DO SO!**

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

When installing the unit, the trussing or area of installation must be able to hold 10 times the weight of the unit and any attached accessories without any deformation. The unit must be secured with a secondary safety attachment, e.g. an appropriately-rated safety cable.

Before rigging/mounting a single fixture to any metal truss/structure or placing the fixture(s) on any surface, a professional equipment installer MUST be consulted to determine if the metal truss/structure or surface is properly certified to safely hold the combined weight of the fixture(s), clamps, cables, and accessories.

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!

Fixture(s) should be installed away from walking paths, seating areas, or areas where unauthorized personnel might reach the fixture 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 that can hold 10 times the weight of the fixture.

Overhead mounting requires extensive experience, including calculating working load limits, knowledge of installation material being used, and perodic safety inspection of all installation material as well as the unit itself. If you lack these qualifications, do not attempt the installation yourself.

The installation should be checked by a skilled person once a year.

**Please note that this device features an alarm system that, if set and activated, will be triggered by any movement of the device, including knocking over the device. The alarm will sound and the device will strobe red for the amount of time that was set in the "Alarm Time" setting, but will automatically stop when the device is returned to its place. Please be aware of this feature in the event that you decide to re-locate or re-position the device after the initial setup!**

# INSTALLATION GUIDELINES

## CLAMP MOUNTING

When mounting the fixture to a truss or any other suspended structure, attach an appropriately rated mounting clamp to an L-track adapter using the appropriate fastener, then insert the L-tack adapter into the desired L-track rail on the fixture. Slide the mounting clamp and adapter to the desired position along the L-track rail, then tighten the knob on the L-track adapter to secure in position. Additionally, a safety cable of the appropriate weight rating should be secured through the each safety cable loops located along the edge of the fixture. **Please note that TWO mounting clamps and TWO safety cables are required to mount this unit in a safe and secure manner.**

**MOUNTING CLAMP**

**MOUNTING CLAMP**

**L-TRACK RAILS**

**L-TRACK ADAPTER**

**L-TRACK ADAPTER**

**SAFETY CABLE ATTACHMENT POINTS**
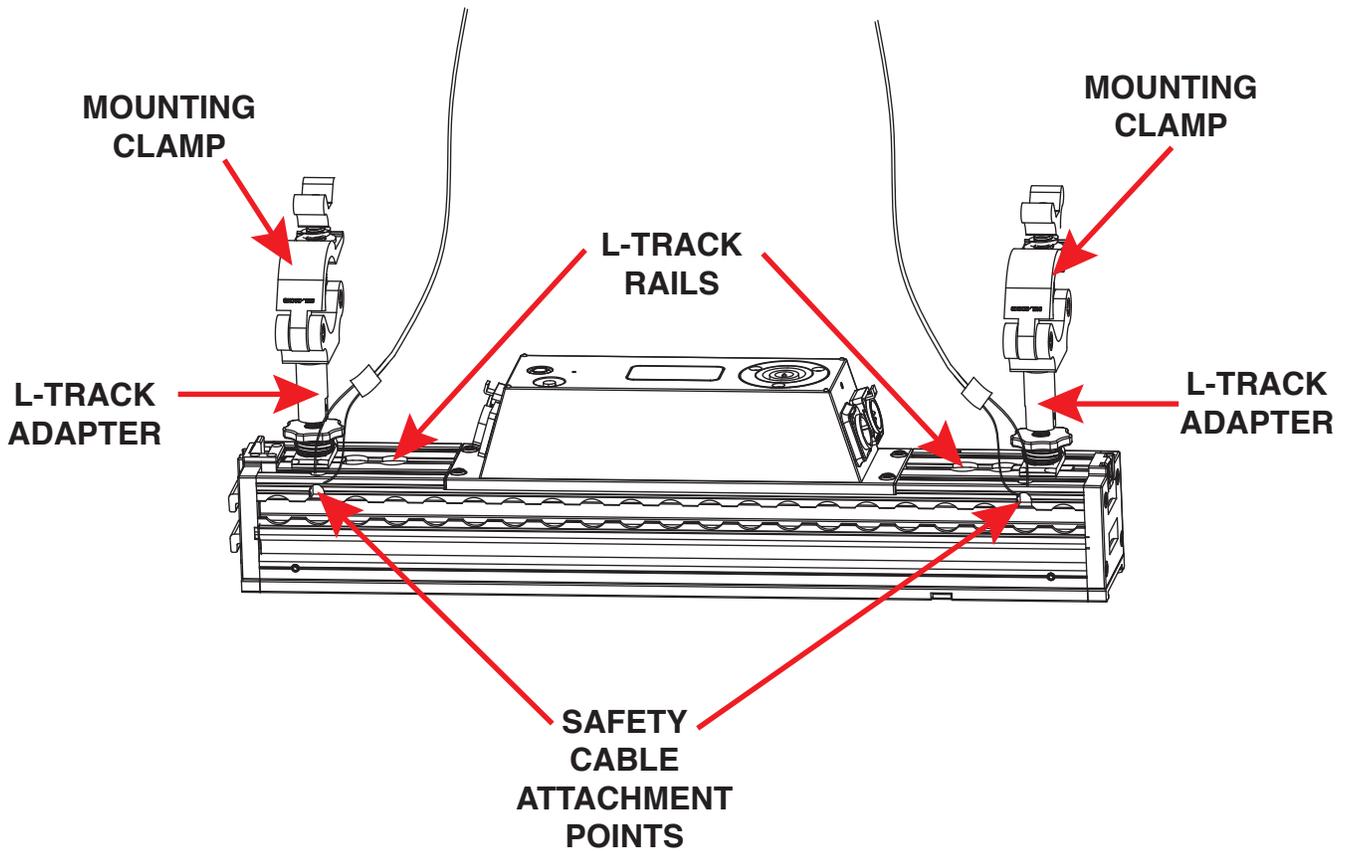
**SAFETY CABLE:**

**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.**

# INSTALLATION GUIDELINES

**POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS**

External sources of light beams from direct sunlight, lighting moving head fixtures, and lasers, which are focused directly towards the exterior housing and/or penetrate the front lens opening of ADJ lighting fixtures, can cause severe internal damage including burning to optics, dichroic color filters, glass and metal gobos, prisms, animation wheels, frost filters, iris, shutters, motors, belts, wiring, discharge lamps, and LEDs.

This issue is not specific only to ADJ lighting fixtures, it is a common issue with lighting fixtures from all manufacturers. Although there is no true way to fully prevent this issue from happening, the guidelines below can prevent any potential damage from occurring if followed. Contact ADJ Service for more details.

**DO NOT EXPOSE THE FIXTURE AND/OR FRONT LENS OPENING TO LIGHT BEAMS FROM DIRECT SUNLIGHT, OTHER LIGHTING MOVING HEAD FIXTURES, AND LASERS WHILE UNPACKING, INSTALLATION, USE, AND EXTENDED IDLE TIMES OUTDOORS. DO NOT FOCUS A LIGHT BEAM FROM ONE LIGHTING FIXTURE DIRECTLY TOWARDS ANOTHER.**
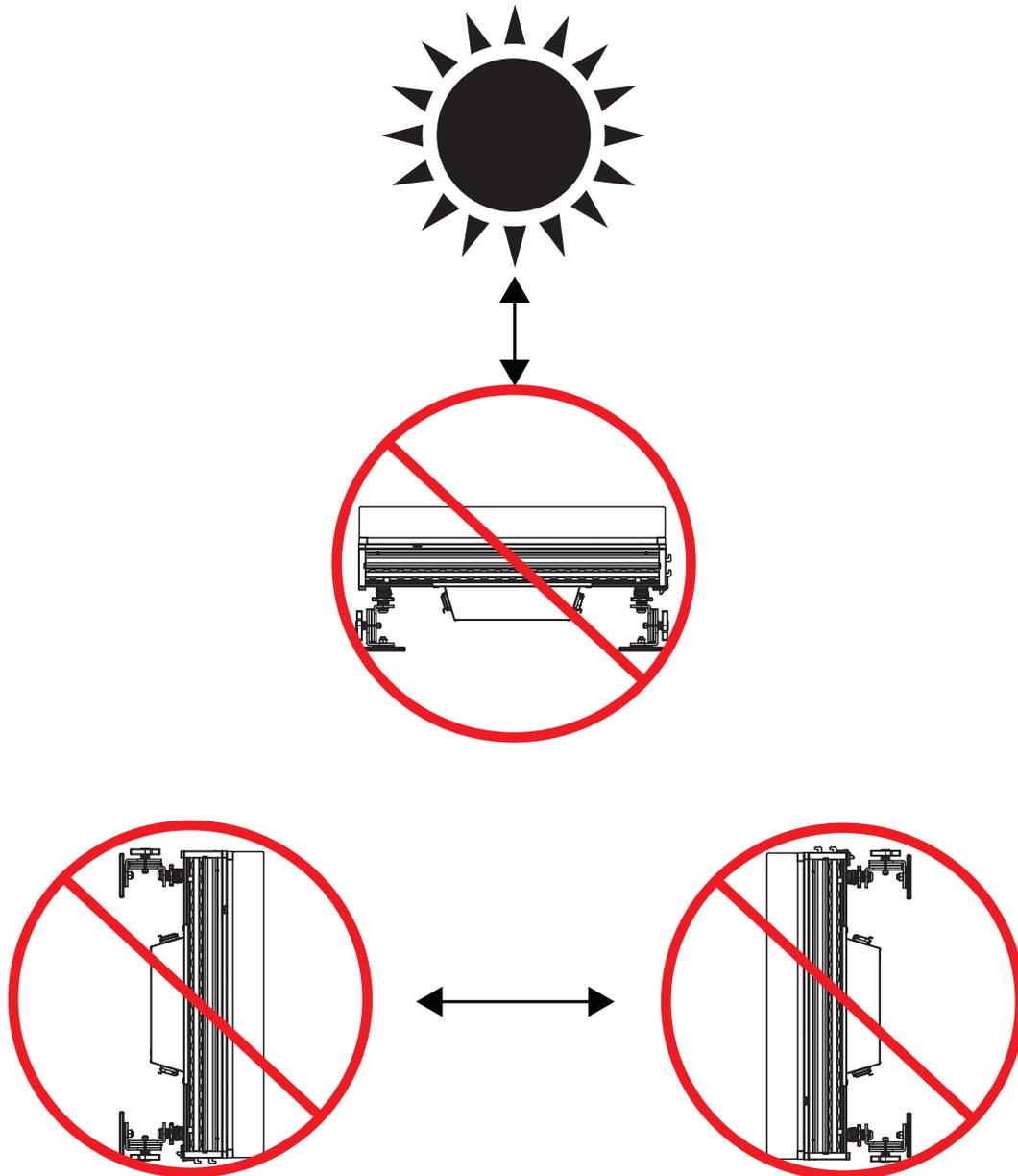
# INSTALLATION GUIDELINES
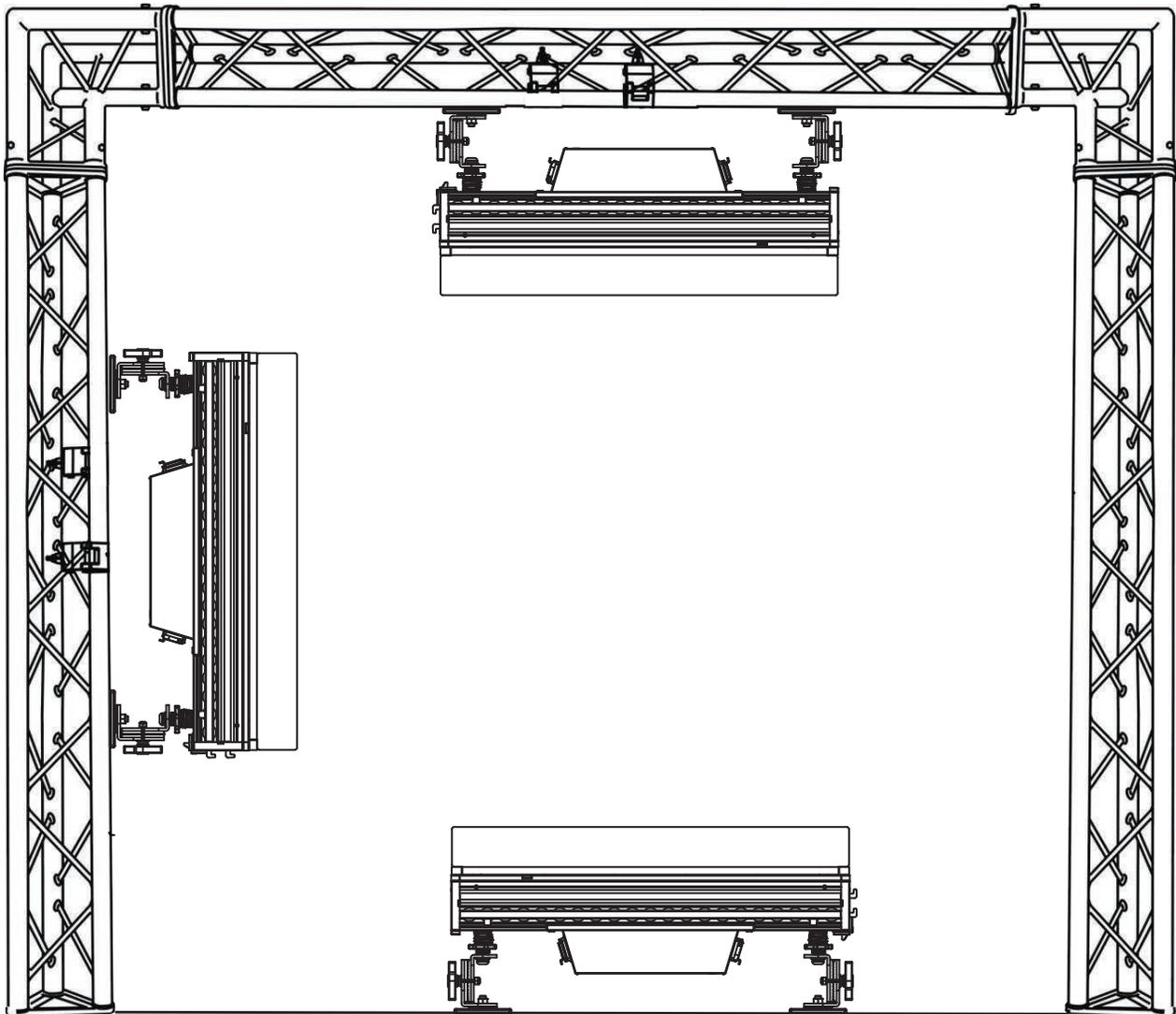


The unit is fully operational in three different mounting positions: hanging upside-down from the ceiling or trussing, sideways on trussing, or set on a flat level surface. Be sure this fixture is kept at least 12m (40ft) away from any flammable materials (decorations, etc). Always use and install a safety cable (not included) as a safety measure to prevent accidental damage and/or injury in the event the clamp fails. Never use the carrying handles for secondary attachment.

⚠ **FALLING FIXTURES CAN CAUSE SEVERE INJURY OR SERIOUS EQUIPMENT DAMAGE! FOR THIS REASON, FIXTURES SHOULD BE INSTALLED AND INSPECTED ONLY BY QUALIFIED PERSONNEL. DO NOT INSTALL THE UNIT IF YOU LACK THE QUALIFICATIONS TO DO SO, OR IF YOU HAVE DOUBTS ABOUT THE SAFETY AND SECURITY OF THE INSTALLATION SETUP OR LOCATION!**

⚠ **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.**

# ACCESSORY INSTALLATION

1. Pull the frame latch outward, then slide the frost filter into the slot on the side of the fixture. Release the latch to secure the frost filter in place.
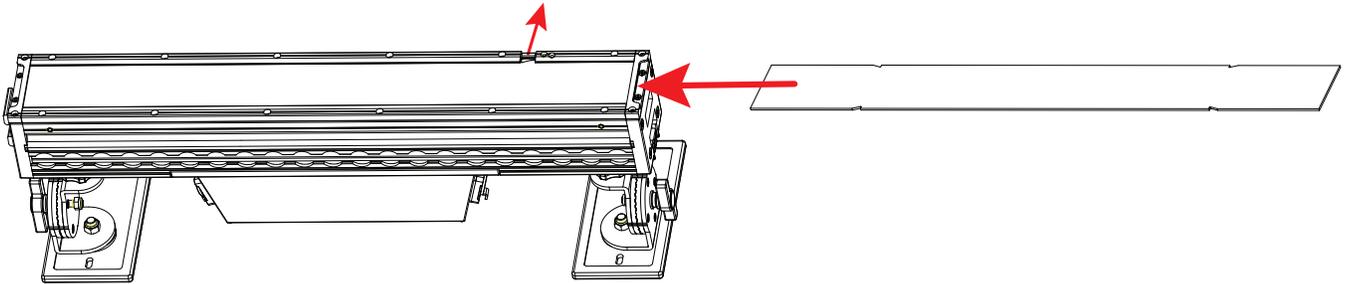
2. Align the mounting holes on the glare shield with the holes on the side of the fixture. Insert a mounting screw into each hole, then tighten to secure in place.
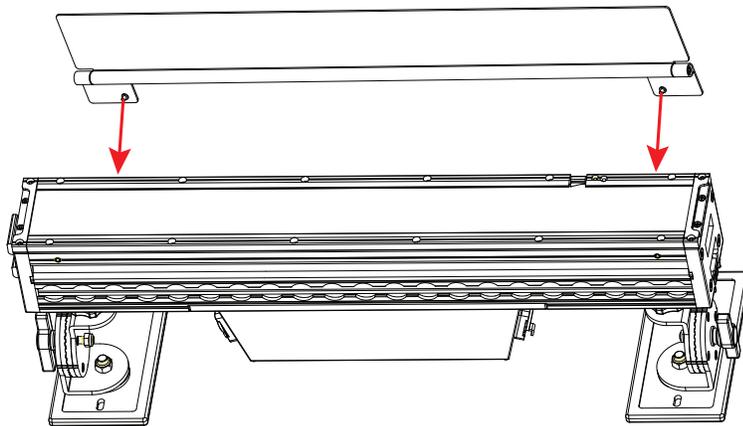
# ACCESSORY INSTALLATION

## L-TRACK MOUNTING

This unit's L-track mounting system allows the user to slide the mounting clamps along the tracks and lock them down in the desired position. This unit features two L-tracks mounted on the underside of the unit and two along the sides of the unit. These L-tracks are fitted with mounting brackets from the factory, but the brackets may be detached and other L-track components can be installed in their place. Special L-track mounting clamps, which incorporate an L-track attachment rail in place of a mounting bolt hole, are available in both regular and extended lengths. Similarly, L-track adapters are also available which can be fitted to any standard mounting clamp.

To attach an L-track clamp or adapter, simply insert the attachment rail into the matching track on the fixture, slide to its desired location, and tighten the fastener knob on the attachment to secure in place.

L-track

L-Tracks
(with mounting
brackets fitted
from factory)

L-track
Clamp
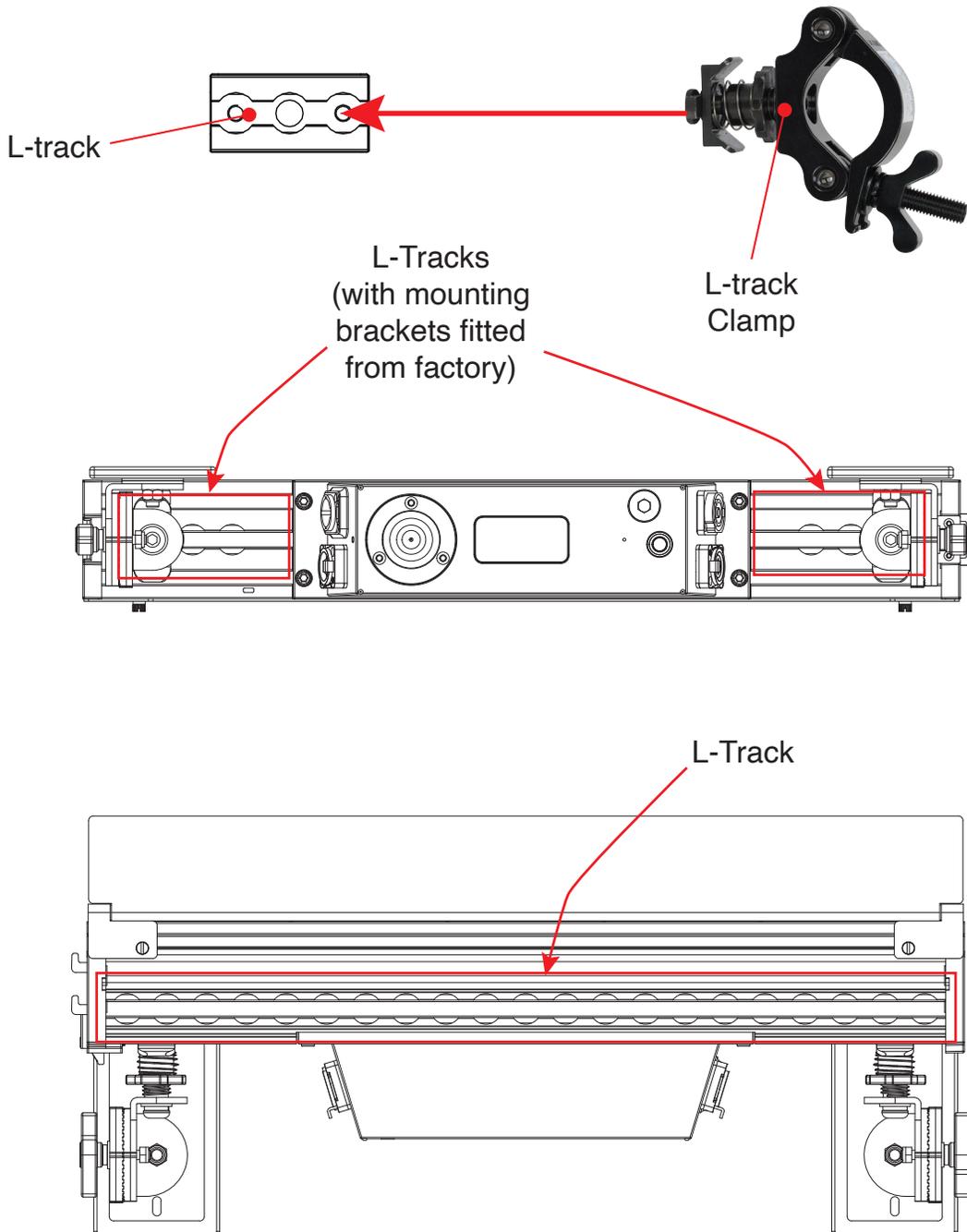
L-Track

# ACCESSORY INSTALLATION

**VFB1 FLOOR BASE**

To mount the either the ElectraPix Bar 8 or ElectraPix Bar 16 fixture to the VFB1 Floor Base, align the connector recesses located at one end of the fixture with the tabs on the VFB1 Floor Base. Align the L-tracks on the ElectraPix Bar fixture with the slots in the vertical sleeve of the VFB1, then insert an L-track lock into the slot on each side and tighten down to secure the fixture in place. Refer to the left and center images below.

Additionally, multiple ElectraPix Bar fixtures can be stacked atop each other in a vertical configuration. Align the connector tabs on one unit with the matching connector slots on the next fixture. Depress the post-lock tab, then hook the connector tabs of one fixture into the connector slots of the next unit. Release the post-lock tab to secure the fixtures in place. Refer to the right-side image below.

**PLEASE NOTE: The VFB1 can only support a finite number of ElectraPix Bar fixtures, after which the asembly may become unstable. See the next page for detailed information.**

L-Track

Connector Recesses

Connector Tabs

L-Track Locks can adjust up and down within the slots in the VFB1 Floor Base

Post-Lock Tab

With Fixture fully seated, secure the L-Track Locks
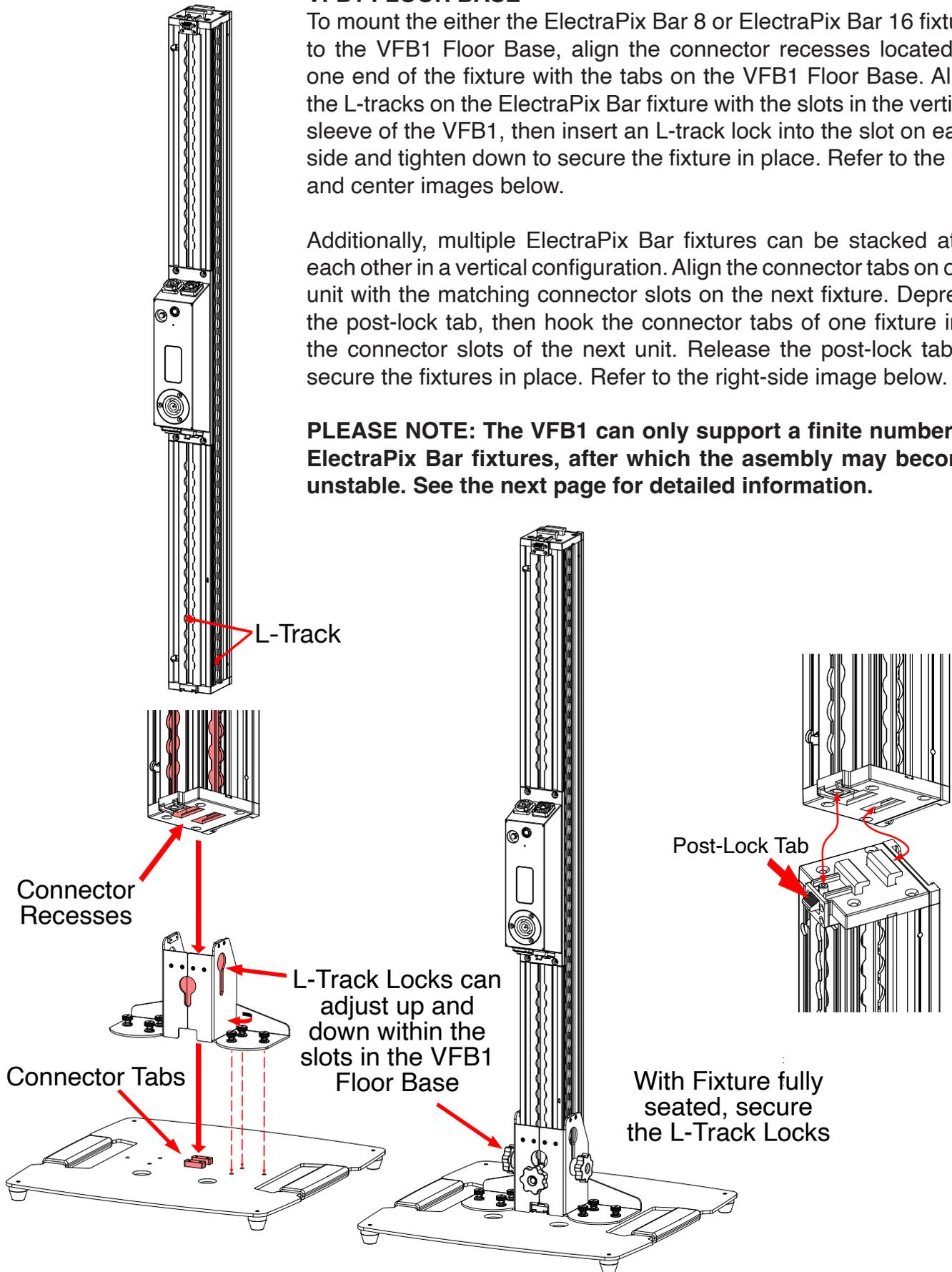
# ACCESSORY INSTALLATION

**VFB1 FLOOR BASE**

The maximum number of ElectraPix Bar fixtures that the VFB1 can accommodate while remaining upright and stable is as follows:
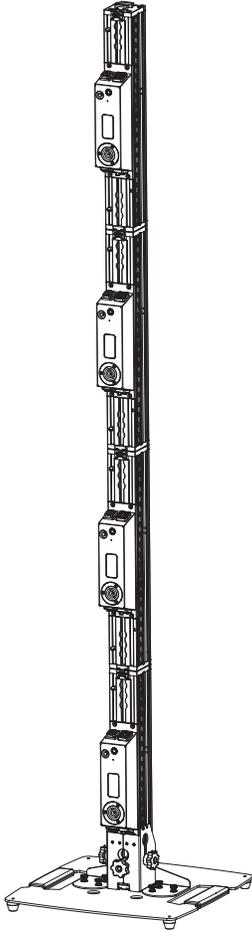
**4X ELECTRAPIX BAR 8**            **2X ELECTRAPIX BAR 16**            **2X ELECTRAPIX BAR 8**
**+**
**1X ELECTRAPIX BAR 16**
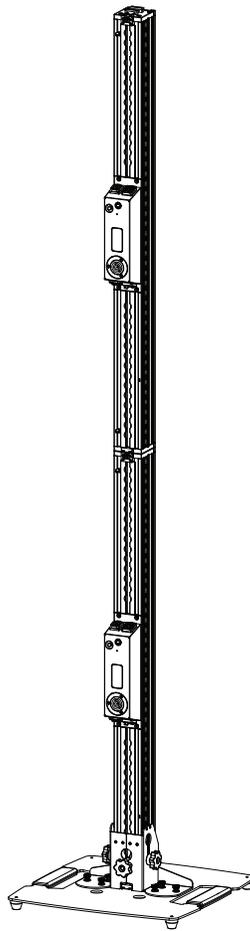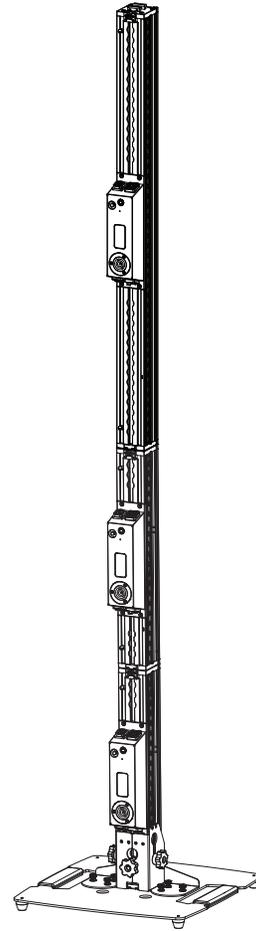


**Do NOT exceed these limits, as doing may reduce the stability of the assembly!**

**This device is intended for use only on stable, level ground. It is advisable to use sandbags or some similar type of weighted ballast to provide additional stability.**

# REMOTE DEVICE MANAGEMENT (RDM)

***NOTE: In order for RDM to work properly, RDM enabled equipment must be used throughout the entire system, including DMX data splitters and wireless systems.***

Remote Device Management (RDM) is a protocol that sits on top of the DMX512 data standard for lighting, allowing the DMX systems of the fixtures to be modified and monitored remotely. This protocol is ideal for instances in which a unit is installed in a location that is not easily accessible.

With RDM, the DMX512 system becomes bi-directional, allowing a compatible RDM enabled controller to send out a signal to devices on the wire, as well as allowing the fixture to respond (known as a *GET* command). The controller can then use its *SET* command to modify settings that would typically have to be changed or viewed directly via the unit's display screen, including the DMX Address, DMX Channel Mode, and Temperature Sensors.

**FIXTURE RDM INFORMATION:**

| RDM Code | Device ID | Device Model ID | Personality ID |
|---|---|---|---|
| 1900 | 000000-FFFFFF | 2405 | 5Ch (1); 6Ch (2); 9Ch (3); 13Ch (4); 22Ch (5); 24Ch (6); 48Ch (7); 52Ch (8); 66Ch (9) |

**Please be aware that not all RDM devices support all RDM features,** and therefore it is important to check beforehand to ensure that the equipment that you are considering includes all of the features that you require.

| |
|---|
| [0x0001] Disc Unique Branch |
| [0x0002] Disc Mute |
| [0x0003] Disc Un Mute |
| [0x0050] Supported Parameters |
| [0x0060] Device Info |
| [0x0081] Manufacturer Label |
| [0x0082] Device Label |
| [0x00C0] Software Version Label |
| [0x00E0] DMX Personality |
| [0x00F0] DMX Start Address |
| [0x0201c] Sensor Value |
| [0x0343] Curve |
| [0x0344] Curve Description |
| [0x1000] Identify Device |
| [0x0141] DMX Fail Mode |

# CONTROL PANEL

This unit features a display screen with a 4-button control pad, which can be used to easily adjust any device settings.

Pressing the MODE button will cycle through the various Main Menu options. When the desired Main Menu option is displayed on the screen, press the SETUP button to enter the sub-menu, then use the UP and DOWN buttons to scroll through sub-menu options. In some cases, there will be a second sub-menu that can be navigated in the same way.
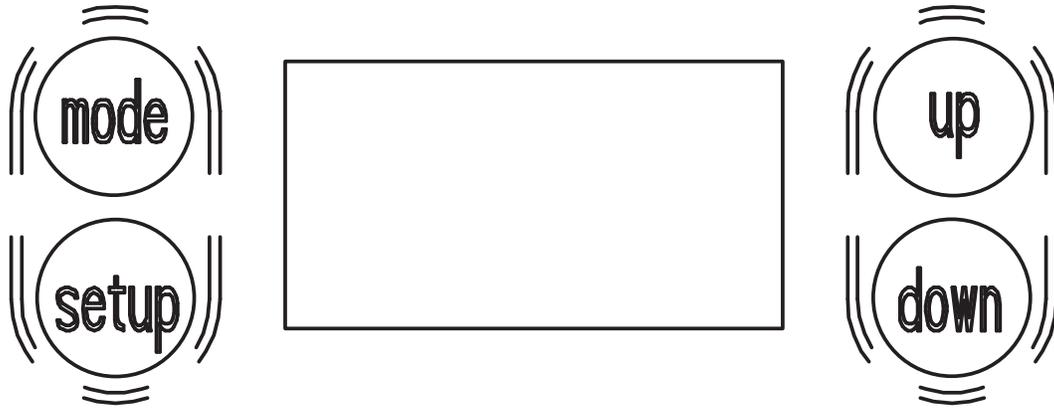
**SCREEN LOCK**
The control panel screen will lock after a period of inactivity, which is set to 30 seconds by default. This setting can be changed by navigating to Personality > Display > Touch Screen Lock in the system menu. To unlock the screen, press and hold any spot on the display screen for 3 seconds.

# SYSTEM MENU

| | | | | |
|---|---|---|---|---|
| **DMX SETTINGS** | DMX Address | *001* - 512 | | Set DMX address |
| | DMX Channel Mode | 5ch | | Select DMX channel mode |
| | | 6ch | | |
| | | 9ch | | |
| | | 13ch | | |
| | | *22ch* | | |
| | | 24ch | | |
| | | 48ch | | |
| | | 52ch | | |
| | | 66ch | | |
| | No DMX Status | *Hold Last* | | Fixture holds last settings received if DMX signal is lost |
| | | Blackout | | Fixture takes all parameters to zero if DMX signal is lost |
| | | Manual Settings | | Fixture defaults to preset manual settings if DMX signal is lost |
| | | Internal Programs | | Fixture defaults to preset internal program if DMX signal is lost |
| **PERSONALITY** | Prim / Sec Mode | Primary / *Secondary* | | Set unit as a primary or a secondary |
| | Select Signal | *DMX* or Aria | | Select signal source |
| | | Enable Aria In and Physical DMX Out | On / *Off* | |
| | Aria Settings | Enable Aria | On / *Off* | Enable or disable Aria |
| | | Frequency | 900Mhz / *2.4Ghz* | Select operating frequency for Aria |
| | | Aria 2.4Ghz channel | *00* - 15 | Set channel for 2.4Ghz Aria band |
| | | Aria 900Mhz channel | *00* - 09 | Set channel for 900Mhz Aria band |
| | | Mesh | *On* / Off | Enable or disable Aria mesh |
| | | Bluetooth Enable | *On* / Off | Enable or disable Bluetooth |
| | RDM | On / *Off* | | Enable or disable RDM |

# SYSTEM MENU

| | | | | | |
|---|---|---|---|---|---|
| **PERSONALITY (continued)** | Dim Modes | ***Standard*** | | | Set dim mode and dim delay time |
| | | Stage | | | |
| | | TV | | | |
| | | Architectural | | | |
| | | Theatre | | | |
| | | Stage 2 | | | |
| | | Dim Delay | 0 - 99 | | |
| | Dim Curve | ***Square*** | | | Select dim curve |
| | | Linear | | | |
| | | Inv Squa | | | |
| | | S Curve | | | |
| | IR Function | ***On*** / Off | | | Enable or disable remote control |
| | IR Button Colors | Button 0 | Red | 000 - 255 | Configure color settings for IR remote buttons |
| | | | Green | 000 - 255 | |
| | | | Blue | 000 - 255 | |
| | | | Amber | 000 - 255 | |
| | | | Lime | 000 - 255 | |
| | | | UV | 000 - 255 | |
| | | ... | ... | ... | |
| | | Button 15 | Red | 000 - 255 | |
| | | | Green | 000 - 255 | |
| | | | Blue | 000 - 255 | |
| | | | Amber | 000 - 255 | |
| | | | Lime | 000 - 255 | |
| | | | UV | 000 - 255 | |
| | Pixel Flip | ***Pixel Flip 1*** | | | Select pixel flip mode |
| | | Pixel Flip 2 | | | |
| | LED Refresh | 900, 1000, 1100, ***1200,*** 1300, 1400, 1500, 2500, 4000, 5000, 10k, 15k, 20k, 25k | | | Set LED refresh frequency |
| | Display | Screen Saver Delay | Off, 1 - ***10 sec*** | | Screen goes to sleep after selected period of inactivity |
| | | Touch Screen Lock | Off - ***30sec,*** 1 min | | Screen locks after selected period of inactivity |
| | | Rotate Display 180° | Yes / ***No*** | | Flip display screen orientation |
| | Language | Passcode = 050 | ***English*** / Spanish | | Select language |
| | Alarm | Passcode = 011 | ***On*** / Off | | Unit alarm trips when unit is moved |
| | | | Alarm Time | ***10s,*** 20s, 30s, 40s, 60s | |

# SYSTEM MENU

| | | | | | |
|---|---|---|---|---|---|
| **PERSONALITY (continued)** | Service | Passcode = 050 | White Balance | Red 000 - 255 | Effect adjustment |
| | | | | Green 000 - 255 | |
| | | | | Blue 000 - 255 | |
| | | | | Amber 000 - 255 | |
| | | | | Lime 000 - 255 | |
| | | | | UV 000 - 255 | |
| | | | Color Calibration | *Enable* / Disable | When disabled, unit outputs full potential for all RGBAL+UV colors |
| | | | DMX Indicators | Enable / *Disable* | Enable or disable DMX indicators |
| | | | Charging Indicators | Enable / *Disable* | Enable or disable charging indicators |
| | | | Factory Restore | Yes / *No* | Return unit to factory default settings |
| **MANUAL CONTROL** | Red | 000 - 255 | | | Manually configure each parameter |
| | Green | 000 - 255 | | | |
| | Blue | 000 - 255 | | | |
| | Amber | 000 - 255 | | | |
| | Lime | 000 - 255 | | | |
| | UV | 000 - 255 | | | |
| | RGBAL+UV Color Macros | *000* - 064 | | | |
| | Background Red | *000* - 255 | | | |
| | Background Green | *000* - 255 | | | |
| | Background Blue | *000* - 255 | | | |
| | RGB Background Color Macros | 000 - 064 | | | |
| | Color Temperature Linear | *No Function,* 2300K - 9900K | | | |
| | Color Temp Presets | *No Function,* 2300K, 2400K....9900K | | | |
| | Shutter | 000 - *255* | | | |
| | Dimmer | 000 - *255* | | | |

# SYSTEM MENU

| | | | | |
|---|---|---|---|---|
| **MANUAL CONTROL (continued)** | Internal Programs | *Off,* Prog 0, Prog 1...Prog 13 | | Manually config- ure each param- eter |
| | Internal Programs Speed | 000 - 255, ***default = 127*** | | |
| | Internal Programs Fade | ***000*** - 255 | | |
| | RGB Background Programs | ***000*** - 255 | | |
| | RGB Background Programs Speed | ***000*** - 255 | | |
| | RGB Background Programs Fade | ***000*** - 255 | | |
| **INTERNAL PROGRAMS** | Program 0 | Speed | 1 - 255, default = ***127*** | Select and con- figure internal programs |
| | | Fade | 0 - 255, default = ***0*** | |
| | Program 1 | Speed | 1 - 255, default = ***127*** | |
| | | Fade | 0 - 255, default = ***0*** | |
| | ... | ... | ... | |
| | Program 13 | Speed | 1 - 255, default = ***127*** | |
| | | Fade | 0 - 255, default = ***0*** | |
| **INFORMATION** | LED Temperature | xxx F / xxx C | | Display current temperature |
| | Software Version | x.xx | | Display current software version |
| | RDM UID | xxxxxx | | Display current RDM universe ID |
| **BATTERY** | Charging Time | xx hours | | Time left til full charge |
| | Current Life | xxx% | | Remaining battery charge |
| | Operation Mode | ***5 Hr*** - 20 Hr | | Select battery mode. *Please note that the light output will decrease as time goes on in order to conform to the selected run time.* |

# UC IR REMOTE

This unit can be operated using the ADJ UC IR24 remote control. **The unit can only be controlled when it has been set to Primary mode. The unit will NOT respond to commands when it has been set to Secondary mode.** When using the UC IR to control multiple units that are operating in primary/secondary mode, follow these steps to set up the units:

1. Power on the unit, and press MODE to scroll to the "Personality" menu, then press SETUP.
2. Use the UP and DOWN buttons to scroll to "Prim/Sec Mode". Press SETUP, then use the UP and DOWN buttons set the device to "Primary". The unit will NOT respond to IR remote commands when it has been set to "Secondary" mode.
3. Press SETUP to confirm and return to the "Personality" menu.
4. Use UP and DOWN to scroll to "IR Function" and press SETUP.
5. Use the UP and DOWN buttons to scroll to "ON", then press SETUP to confirm.

## CONTROLS

- **On:** Fixture turns on and reverts to the last running state
- **Off:** Fixture goes into stand by mode in a blackout state.
- **Strobe:** Actives strobe mode. The strobe rate can be adjusted using the + / - buttons.
- **Sound:** This button has no defined function for this unit.
- **Color:** Activates color mode. Select a static color (0-15) using the number keys. The intensity for the set color can then be adjusted with the +/- buttons.
- **Program:** Activates program mode. Select an internal program (0-15) using the number keys. The selected program run speed can be adjusted with the +/- buttons. *Note: 13 of the 15 buttons will activate a program for this unit.*
- **+ and - buttons:** Adjusts strobe rate, mic sensitivity, intensity, or program run speed. The +/- buttons can be repeatedly pressed to increase or decrease by individual level increments, or pressed and held to quickly make large adjustments at once.
- **Number Keys (0-15):** These buttons are used to select preset static colors and internal programs. Colors stored in the number keys can be edited from the units menu if desired.

# IR DEFAULT VALUES

| BUTTON | RED | GREEN | BLUE | AMBER | LIME | UV |
|--------|-----|-------|------|-------|------|-----|
| 0 | 255 | 255 | 255 | 255 | 0 | 0 |
| 1 | 255 | 0 | 0 | 0 | 0 | 0 |
| 2 | 0 | 255 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 255 | 0 | 0 | 0 |
| 4 | 255 | 46 | 0 | 0 | 0 | 0 |
| 5 | 0 | 255 | 28 | 0 | 0 | 0 |
| 6 | 17 | 0 | 75 | 0 | 0 | 0 |
| 7 | 255 | 83 | 0 | 63 | 0 | 0 |
| 8 | 0 | 255 | 52 | 0 | 0 | 0 |
| 9 | 32 | 0 | 75 | 22 | 0 | 0 |
| 10 | 0 | 0 | 0 | 255 | 0 | 0 |
| 11 | 0 | 114 | 160 | 0 | 0 | 0 |
| 12 | 100 | 0 | 97 | 0 | 0 | 0 |
| 13 | 255 | 255 | 0 | 255 | 0 | 0 |
| 14 | 0 | 75 | 136 | 0 | 0 | 0 |
| 15 | 146 | 0 | 80 | 0 | 0 | 0 |

# EDITING IR BUTTON VALUES

These fixtures allow the user to create custom RGBAL+UV values and assign them to the numbered keys (0-15) on the remote control. Follow the steps below:

1. In the main system menu, press MODE to navigate to "Personality," then press SETUP. Use the UP and DOWN buttons to scroll to "IR Button Colors," then press SETUP again.
2. Use the UP and DOWN buttons to scroll to the number of the remote button that you would like to use. Options range from "Button 0" to "Button 15." Press SETUP to select the button shown on the display screen.
3. Create a custom color for the button you have selected by using the UP and DOWN buttons to scroll through the color component options (Red, Green, Blue, Amber, Lime, or UV). Press SETUP to select a color component option, then use the UP and DOWN buttons to adjust the intensity of that color component option. Selectable values range from 000 to 255. Repeat this process until you have set the desired Red, Green, Blue, Amber, Lime, and UV intensities to create your custom color.

**NOTE: Once you have created and assigned a custom RGBAL+UV value to a remote button, the default color for the remote button will be overridden. This means that the output color of the fixture may no longer resemble the color shown on the remote button. The only way to return to the default RGBAL+UV value is to reset the unit to the default factory settings by navigating to Personality > Service > Factory Restore.**

**NOTE: If multiple units have been linked in a primary-secondary set up, the custom RGBAL+UV values only need to be set up on the primary unit. The custom RGBA settings will carry over automatically to any secondary units in the system.L+UV**

# D M X  S E T  U P

**DMX-512:** DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA "IN" and DATA "OUT" XLR terminals located on all DMX fixtures (most controllers only have a DATA "OUT" terminal).

**DMX Linking:** DMX is a language allowing all makes and models of different manufacturers to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, try to use the shortest cable path possible when linking several DMX fixtures. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example, a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line: at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

**Data Cable (DMX Cable) Requirements (For DMX Operation):** This unit can be controlled via DMX-512 protocol. The DMX address is set on the rear panel of the unit. Your unit and your DMX controller require a standard 5-pin XLR connector for data input and data output. We recommend Accu-Cable DMX cables. If you are making your own cables, be sure to use standard 110-120 Ohm shielded cable (This cable may be purchased at almost all pro lighting stores). Your cables should be made with a male XLR connector at one end and a female XLR connector at the other. Also remember that DMX cable must be daisy chained and cannot be split.

*Notice:* Be sure to follow fthe illustration below when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.

COMMON
DMX +
DMX -
NOT USED
NOT USED
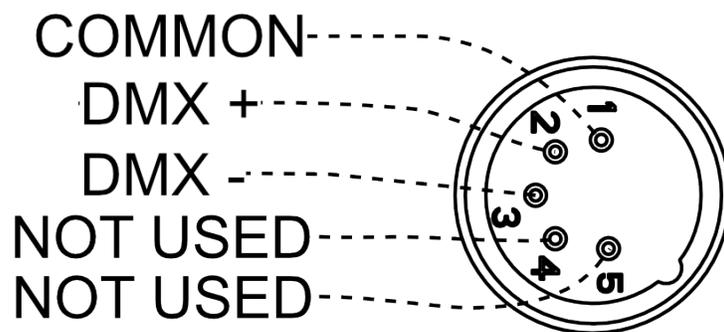
# DMX SET UP

***Special Note: Line Termination.*** When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will reduce the risk of erratic behavior.
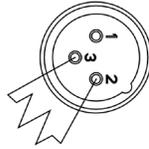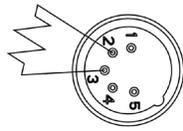
A DMX512 terminator reduces signal errors, avoiding most signal reflection interference. Connect PIN 2 (DMX-) and PIN 3 (DMX+) of the last fixture in series with a 120 Ohm, 1/4 W Resistor to terminate the DMX512.

**DMX ADDRESSING.**

All fixtures should be given a DMX starting address when using a DMX controller, so the correct fixture responds to the correct control signal. This digital starting address is the channel number from which the fixture starts to "listen" to the digital control signal sent out from the DMX controller. The assignment of this starting DMX address is achieved by setting the correct DMX address on the digital control display on the fixture.

You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each individual fixture. Setting all fixtures to the same DMX address will cause all fixtures to react in the same way. In other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will start to "listen" to the channel number you have set, based on the quantity of DMX channels of each fixture. That means changing the settings of one channel will only affect the selected fixture.

For example, when this unit is operating in 5 channel mode, you should set the starting DMX address of the first unit to 1, the second unit to 6 (1 + 5), the third unit to 11 (1 + 5 + 5), and so on. See the chart below for more details.

| CHANNEL MODE | UNIT 1 ADDRESS | UNIT 2 ADDRESS | UNIT 3 ADDRESS | UNIT 4 ADDRESS |
|---|---|---|---|---|
| 5 Ch | 1 | 6 | 11 | 16 |
| 6 Ch | 1 | 7 | 13 | 19 |
| 9 Ch | 1 | 10 | 19 | 28 |
| 13 Ch | 1 | 14 | 27 | 40 |
| 22 Ch | 1 | 23 | 45 | 67 |
| 24 Ch | 1 | 25 | 49 | 73 |
| 48 Ch | 1 | 49 | 97 | 145 |
| 52 Ch | 1 | 53 | 105 | 157 |
| 66 Ch | 1 | 67 | 133 | 189 |

# DMX TRAITS

| 5Ch | 6Ch | 9Ch | 13Ch | 22Ch | 24Ch | 48Ch | 52Ch | 66Ch | DMX VALUES | FUNCTION |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 1 | | 1 | 1 | | | | 000 - 255 | *All Red,* 0 - 100% |
| | 2 | 2 | | 2 | 2 | | | | 000 - 255 | *All Green,* 0 - 100% |
| | 3 | 3 | | 3 | 3 | | | | 000 - 255 | *All Blue,* 0 - 100% |
| | 4 | 4 | | 4 | 4 | | | | 000 - 255 | *All Amber,* 0 - 100% |
| | 5 | 5 | | 5 | 5 | | | | 000 - 255 | *All Lime,* 0 - 100% |
| | 6 | 6 | | 6 | 6 | | | | 000 - 255 | *All UV,* 0 - 100% |
| | | | | | | 1 | 1 | 1 | 000 - 255 | *Red 1,* 0 - 100% |
| | | | | | | 2 | 2 | 2 | 000 - 255 | *Green 1,* 0 - 100% |
| | | | | | | 3 | 3 | 3 | 000 - 255 | *Blue 1,* 0 - 100% |
| | | | | | | 4 | 4 | 4 | 000 - 255 | *Amber 1,* 0 - 100% |
| | | | | | | 5 | 5 | 5 | 000 - 255 | *Lime 1,* 0 - 100% |
| | | | | | | 6 | 6 | 6 | 000 - 255 | *UV 1,* 0 - 100% |
| | | | | | | 7 | 7 | 7 | 000 - 255 | *Red 2,* 0 - 100% |
| | | | | | | 8 | 8 | 8 | 000 - 255 | *Green 2,* 0 - 100% |
| | | | | | | 9 | 9 | 9 | 000 - 255 | *Blue 2,* 0 - 100% |
| | | | | | | 10 | 10 | 10 | 000 - 255 | *Amber 2,* 0 - 100% |
| | | | | | | 11 | 11 | 11 | 000 - 255 | *Lime 2,* 0 - 100% |
| | | | | | | 12 | 12 | 12 | 000 - 255 | *UV 2,* 0 - 100% |
| | | | | | | 13 | 13 | 13 | 000 - 255 | *Red 3,* 0 - 100% |
| | | | | | | 14 | 14 | 14 | 000 - 255 | *Green 3,* 0 - 100% |
| | | | | | | 15 | 15 | 15 | 000 - 255 | *Blue 3,* 0 - 100% |
| | | | | | | 16 | 16 | 16 | 000 - 255 | *Amber 3,* 0 - 100% |
| | | | | | | 17 | 17 | 17 | 000 - 255 | *Lime 3,* 0 - 100% |
| | | | | | | 18 | 18 | 18 | 000 - 255 | *UV 3,* 0 - 100% |
| | | | | | | 19 | 19 | 19 | 000 - 255 | *Red 4,* 0 - 100% |
| | | | | | | 20 | 20 | 20 | 000 - 255 | *Green 4,* 0 - 100% |
| | | | | | | 21 | 21 | 21 | 000 - 255 | *Blue 4,* 0 - 100% |
| | | | | | | 22 | 22 | 22 | 000 - 255 | *Amber 4,* 0 - 100% |
| | | | | | | 23 | 23 | 23 | 000 - 255 | *Lime 4,* 0 - 100% |
| | | | | | | 24 | 24 | 24 | 000 - 255 | *UV 4,* 0 - 100% |
| | | | | | | 25 | 25 | 25 | 000 - 255 | *Red 5,* 0 - 100% |
| | | | | | | 26 | 26 | 26 | 000 - 255 | *Green 5,* 0 - 100% |
| | | | | | | 27 | 27 | 27 | 000 - 255 | *Blue 5,* 0 - 100% |
| | | | | | | 28 | 28 | 28 | 000 - 255 | *Amber 5,* 0 - 100% |
| | | | | | | 29 | 29 | 29 | 000 - 255 | *Lime 5,* 0 - 100% |
| | | | | | | 30 | 30 | 30 | 000 - 255 | *UV 5,* 0 - 100% |
| | | | | | | 31 | 31 | 31 | 000 - 255 | *Red 6,* 0 - 100% |
| | | | | | | 32 | 32 | 32 | 000 - 255 | *Green 6,* 0 - 100% |
| | | | | | | 33 | 33 | 33 | 000 - 255 | *Blue 6,* 0 - 100% |
| | | | | | | 34 | 34 | 34 | 000 - 255 | *Amber 6,* 0 - 100% |
| | | | | | | 35 | 35 | 35 | 000 - 255 | *Lime 6,* 0 - 100% |

# DMX TRAITS

| CHANNEL | | | | | | | | | DMX VALUES | FUNCTION |
|---|---|---|---|---|---|---|---|---|---|---|
| 5Ch | 6Ch | 9Ch | 13Ch | 22Ch | 24Ch | 48Ch | 52Ch | 66Ch | | |
| | | | | | | 36 | 36 | 36 | 000 - 255 | *UV 6,* 0 - 100% |
| | | | | | | 37 | 37 | 37 | 000 - 255 | *Red 7,* 0 - 100% |
| | | | | | | 38 | 38 | 38 | 000 - 255 | *Green 7,* 0 - 100% |
| | | | | | | 39 | 39 | 39 | 000 - 255 | *Blue 7,* 0 - 100% |
| | | | | | | 40 | 40 | 40 | 000 - 255 | *Amber 7,* 0 - 100% |
| | | | | | | 41 | 41 | 41 | 000 - 255 | *Lime 7,* 0 - 100% |
| | | | | | | 42 | 42 | 42 | 000 - 255 | *UV 7,* 0 - 100% |
| | | | | | | 43 | 43 | 43 | 000 - 255 | *Red 8,* 0 - 100% |
| | | | | | | 44 | 44 | 44 | 000 - 255 | *Green 8,* 0 - 100% |
| | | | | | | 45 | 45 | 45 | 000 - 255 | *Blue 8,* 0 - 100% |
| | | | | | | 46 | 46 | 46 | 000 - 255 | *Amber 8,* 0 - 100% |
| | | | | | | 47 | 47 | 47 | 000 - 255 | *Lime 8,* 0 - 100% |
| | | | | | | 48 | 48 | 48 | 000 - 255 | *UV 8,* 0 - 100% |
| | | | 1 | 7 | 7 | | 49 | 49 | 000 - 255 | *RGBAL+UV Color Macros,* see **Color Macros** section |
| | | 7 | | 8 | 8 | | 50 | 50 | 000 - 255 | *Background Red,* 0 - 100% |
| | | 8 | | 9 | 9 | | 51 | 51 | 000 - 255 | *Background Green,* 0 - 100% |
| | | 9 | | 10 | 10 | | 52 | 52 | 000 - 255 | *Background Blue,* 0 - 100% |
| | | | 2 | 11 | 11 | | | 53 | 000 - 255 | *RGB Background Color Macros,* see **Color Macros** section |
| 1 | | | 3 | 12 | 12 | | | 54 | 000 - 255 | *Color Temperature,* 2300 - 9900K Linear |
| 2 | | | 4 | 13 | 13 | | | 55 | | *White Color Temperature Presets* |
| | | | | | | | | | 000 - 022 | Open |
| | | | | | | | | | 023 | 2300K |
| | | | | | | | | | 024 | 2400K |
| | | | | | | | | | 025 | 2500K |
| | | | | | | | | | 026 | 2600K |
| | | | | | | | | | 027 | 2700K |
| | | | | | | | | | 028 | 2800K |
| | | | | | | | | | 029 | 2900K |
| | | | | | | | | | 030 | 3000K |
| | | | | | | | | | 031 | 3100K |
| | | | | | | | | | 032 | 3200K |
| | | | | | | | | | 033 | 3300K |
| | | | | | | | | | 034 | 3400K |
| | | | | | | | | | 035 | 3500K |
| | | | | | | | | | 036 | 3600K |
| | | | | | | | | | 037 | 3700K |
| | | | | | | | | | 038 | 3800K |
| | | | | | | | | | 039 | 3900K |
| | | | | | | | | | 040 | 4000K |

# DMX TRAITS

| CHANNEL | | | | | | | | | DMX VALUES | FUNCTION |
|---|---|---|---|---|---|---|---|---|---|---|
| 5Ch | 6Ch | 9Ch | 13Ch | 22Ch | 24Ch | 48Ch | 52Ch | 66Ch | | |
| | | | | | | | | | | *White Color Temperature Presets (continued)* |
| | | | | | | | | | 041 | 4100K |
| | | | | | | | | | 042 | 4200K |
| | | | | | | | | | 043 | 4300K |
| | | | | | | | | | 044 | 4400K |
| | | | | | | | | | 045 | 4500K |
| | | | | | | | | | 046 | 4600K |
| | | | | | | | | | 047 | 4700K |
| | | | | | | | | | 048 | 4800K |
| | | | | | | | | | 049 | 4900K |
| | | | | | | | | | 050 | 5000K |
| | | | | | | | | | 051 | 5100K |
| | | | | | | | | | 052 | 5200K |
| | | | | | | | | | 053 | 5300K |
| | | | | | | | | | 054 | 5400K |
| | | | | | | | | | 055 | 5500K |
| | | | | | | | | | 056 | 5600K |
| | | | | | | | | | 057 | 5700K |
| | | | | | | | | | 058 | 5800K |
| 2 | | | 4 | 13 | 13 | | | 55 | 059 | 5900K |
| | | | | | | | | | 060 | 6000K |
| | | | | | | | | | 061 | 6100K |
| | | | | | | | | | 062 | 6200K |
| | | | | | | | | | 063 | 6300K |
| | | | | | | | | | 064 | 6400K |
| | | | | | | | | | 065 | 6500K |
| | | | | | | | | | 066 | 6600K |
| | | | | | | | | | 067 | 6700K |
| | | | | | | | | | 068 | 6800K |
| | | | | | | | | | 069 | 6900K |
| | | | | | | | | | 070 | 7000K |
| | | | | | | | | | 071 | 7100K |
| | | | | | | | | | 072 | 7200K |
| | | | | | | | | | 073 | 7300K |
| | | | | | | | | | 074 | 7400K |
| | | | | | | | | | 075 | 7500K |
| | | | | | | | | | 076 | 7600K |
| | | | | | | | | | 077 | 7700K |
| | | | | | | | | | 078 | 7800K |
| | | | | | | | | | 079 | 7900K |

# DMX TRAITS

| CHANNEL | | | | | | | | | DMX VALUES | FUNCTION |
|---|---|---|---|---|---|---|---|---|---|---|
| 5Ch | 6Ch | 9Ch | 13Ch | 22Ch | 24Ch | 48Ch | 52Ch | 66Ch | | |
| 2 | | | 4 | 13 | 13 | | | 55 | | *White Color Temperature Presets (continued)* |
| | | | | | | | | | 080 | 8000K |
| | | | | | | | | | 081 | 8100K |
| | | | | | | | | | 082 | 8200K |
| | | | | | | | | | 083 | 8300K |
| | | | | | | | | | 084 | 8400K |
| | | | | | | | | | 085 | 8500K |
| | | | | | | | | | 086 | 8600K |
| | | | | | | | | | 087 | 8700K |
| | | | | | | | | | 088 | 8800K |
| | | | | | | | | | 089 | 8900K |
| | | | | | | | | | 090 | 9000K |
| | | | | | | | | | 091 | 9100K |
| | | | | | | | | | 092 | 9200K |
| | | | | | | | | | 093 | 9300K |
| | | | | | | | | | 094 | 9400K |
| | | | | | | | | | 095 | 9500K |
| | | | | | | | | | 096 | 9600K |
| | | | | | | | | | 097 | 9700K |
| | | | | | | | | | 098 | 9800K |
| | | | | | | | | | 099 | 9900K |
| | | | | | | | | | 100 - 255 | No Function |
| 3 | | | 5 | 14 | 14 | | | 56 | | *Shutter, Strobe* |
| | | | | | | | | | 000 - 031 | LEDs Off |
| | | | | | | | | | 032 - 063 | LEDs On |
| | | | | | | | | | 064 - 095 | Strobe Effect, slow to fast |
| | | | | | | | | | 096 - 127 | LEDs On |
| | | | | | | | | | 128 - 159 | Pulse Effect in Sequences |
| | | | | | | | | | 160 - 191 | LEDs On |
| | | | | | | | | | 192 - 223 | Random Strobe Effect, slow to fast |
| | | | | | | | | | 224 - 255 | LEDs On |
| 4 | | | 6 | 15 | 15 | | | 57 | 000 - 255 | *Dimmer Intensity,* 0 - 100% |
| 5 | | | 7 | 16 | 16 | | | 58 | 000 - 255 | *Dimmer Fine Intensity* |

# DMX TRAITS

| CHANNEL | | | | | | | | | DMX VALUES | FUNCTION |
|---|---|---|---|---|---|---|---|---|---|---|
| 5Ch | 6Ch | 9Ch | 13Ch | 22Ch | 24Ch | 48Ch | 52Ch | 66Ch | | |
| | | | | | | | | | | **RGBAL+UV Programs** |
| | | | | | | | | | 000 - 010 | Off |
| | | | | | | | | | 011 - 026 | Auto Program 1 |
| | | | | | | | | | 027 - 043 | Auto Program 2 |
| | | | | | | | | | 044 - 060 | Auto Program 3 |
| | | | | | | | | | 061 - 076 | Auto Program 4 |
| | | | | | | | | | 077 - 093 | Auto Program 5 |
| | | | 8 | 17 | 17 | | | 59 | 094 - 110 | Auto Program 6 |
| | | | | | | | | | 111 - 126 | Auto Program 7 |
| | | | | | | | | | 127 - 143 | Auto Program 8 |
| | | | | | | | | | 144 - 160 | Auto Program 9 |
| | | | | | | | | | 161 - 176 | Auto Program 10 |
| | | | | | | | | | 177 - 193 | Auto Program 11 |
| | | | | | | | | | 194 - 210 | Auto Program 12 |
| | | | | | | | | | 211 - 226 | Auto Program 13 |
| | | | | | | | | | 227 - 255 | No Function |
| | | | 9 | 18 | 18 | | | 60 | 000 - 255 | **RGBAL+UV Programs Speed,** slow to fast |
| | | | 10 | 19 | 19 | | | 61 | 000 - 255 | **RGBAL+UV Programs Fade,** least to most |
| | | | | | | | | | | **RGB Background Programs** |
| | | | | | | | | | 000 - 010 | Off |
| | | | | | | | | | 011 - 026 | Auto Program 1 |
| | | | | | | | | | 027 - 043 | Auto Program 2 |
| | | | | | | | | | 044 - 060 | Auto Program 3 |
| | | | | | | | | | 061 - 076 | Auto Program 4 |
| | | | | | | | | | 077 - 093 | Auto Program 5 |
| | | | 11 | 20 | 20 | | | 62 | 094 - 110 | Auto Program 6 |
| | | | | | | | | | 111 - 126 | Auto Program 7 |
| | | | | | | | | | 127 - 143 | Auto Program 8 |
| | | | | | | | | | 144 - 160 | Auto Program 9 |
| | | | | | | | | | 161 - 176 | Auto Program 10 |
| | | | | | | | | | 177 - 193 | Auto Program 11 |
| | | | | | | | | | 194 - 210 | Auto Program 12 |
| | | | | | | | | | 211 - 226 | Auto Program 13 |
| | | | | | | | | | 227 - 255 | No Function |
| | | | 12 | 21 | 21 | | | 63 | 000 - 255 | **RGB Background Programs Speed,** slow to fast |
| | | | 13 | 22 | 22 | | | 64 | 000 - 255 | **RGB Background Program Fade,** least to most |

# DMX TRAITS

| CHANNEL | | | | | | | | | DMX VALUES | FUNCTION |
|---|---|---|---|---|---|---|---|---|---|---|
| 5Ch | 6Ch | 9Ch | 13Ch | 22Ch | 24Ch | 48Ch | 52Ch | 66Ch | | |
| | | | | | | | | | | *Dim Mode* |
| | | | | | | | | | 000 - 020 | Default to Unit Setting |
| | | | | | | | | | 021 - 040 | Standard |
| | | | | | | | | | 041 - 060 | Stage |
| | | | | | | | | | 061 - 080 | TV |
| | | | | | | | | | 081 - 100 | Architectural |
| | | | | | | | | | 101 - 120 | Theatre |
| | | | | | | | | | 121 - 140 | Stage 2 |
| | | | | | | | | | | *Dim Speed* |
| | | | | | | | | | 141 | 0.1s |
| | | | | | | | | | 142 | 0.2s |
| | | | | | | | | | 143 | 0.3s |
| | | | | | | | | | 144 | 0.4s |
| | | | | | | | | | 145 | 0.5s |
| | | | | | 23 | | | 65 | 146 | 0.6s |
| | | | | | | | | | 147 | 0.7s |
| | | | | | | | | | 148 | 0.8s |
| | | | | | | | | | 149 | 0.9s |
| | | | | | | | | | 150 | 1.0s |
| | | | | | | | | | 151 | 1.5s |
| | | | | | | | | | 152 | 2.0s |
| | | | | | | | | | 153 | 3.0s |
| | | | | | | | | | 154 | 4.0s |
| | | | | | | | | | 155 | 5.0s |
| | | | | | | | | | 156 | 6.0s |
| | | | | | | | | | 157 | 7.0s |
| | | | | | | | | | 158 | 8.0s |
| | | | | | | | | | 159 | 9.0s |
| | | | | | | | | | 160 | 10.0s |
| | | | | | | | | | 161 - 255 | Default to Unit Setting |
| | | | | | | | | | | *Dim Curves* |
| | | | | | | | | | 000 - 020 | Square |
| | | | | | | | | | 021 - 040 | Linear |
| | | | | | 24 | | | 66 | 041 - 060 | Inv Squa |
| | | | | | | | | | 061 - 080 | S Curve |
| | | | | | | | | | 081 - 255 | No Function |

# COLOR MACROS CHART

**RGBAL+UV COLOR MACROS**

| MACRO NO. | DMX VALUES | RED | GREEN | BLUE | AMBER | LIME | UV |
|---|---|---|---|---|---|---|---|
| Off | 000 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 001 - 004 | 255 | 0 | 0 | 0 | 0 | 0 |
| 2 | 005 - 008 | 0 | 255 | 0 | 0 | 0 | 0 |
| 3 | 009 - 012 | 0 | 0 | 255 | 0 | 0 | 0 |
| 4 | 013 - 016 | 0 | 0 | 0 | 255 | 0 | 0 |
| 5 | 017 - 020 | 0 | 0 | 0 | 0 | 255 | 0 |
| 6 | 021 - 024 | 0 | 0 | 0 | 0 | 0 | 255 |
| 7 | 025 - 028 | 255 | 255 | 255 | 255 | 255 | 255 |
| 8 | 029 - 032 | 255 | 200 | 74 | 74 | 41 | 80 |
| 9 | 033 - 036 | 255 | 166 | 77 | 77 | 2 | 26 |
| 10 | 037 - 040 | 255 | 125 | 74 | 74 | 177 | 62 |
| 11 | 041 - 044 | 255 | 97 | 77 | 74 | 65 | 33 |
| 12 | 045 - 048 | 255 | 71 | 77 | 71 | 63 | 200 |
| 13 | 049 - 052 | 255 | 83 | 134 | 83 | 21 | 176 |
| 14 | 053 - 056 | 255 | 93 | 182 | 93 | 101 | 61 |
| 15 | 057 - 060 | 255 | 96 | 236 | 96 | 38 | 44 |
| 16 | 061 - 064 | 238 | 93 | 255 | 93 | 87 | 211 |
| 17 | 065 - 068 | 196 | 87 | 255 | 87 | 0 | 255 |
| 18 | 069 - 072 | 150 | 90 | 255 | 90 | 149 | 255 |
| 19 | 073 - 076 | 100 | 77 | 255 | 77 | 11 | 125 |
| 20 | 077 - 080 | 77 | 100 | 255 | 77 | 91 | 14 |
| 21 | 081 - 084 | 67 | 148 | 255 | 67 | 38 | 189 |
| 22 | 085 - 088 | 77 | 195 | 255 | 77 | 69 | 114 |
| 23 | 089 - 092 | 77 | 234 | 255 | 77 | 46 | 210 |
| 24 | 093 - 096 | 158 | 255 | 144 | 144 | 37 | 111 |
| 25 | 097 - 100 | 255 | 251 | 153 | 153 | 121 | 11 |
| 26 | 101 - 104 | 255 | 101 | 147 | 147 | 12 | 21 |
| 27 | 105 - 108 | 255 | 138 | 186 | 138 | 9 | 140 |
| 28 | 109 - 112 | 255 | 147 | 251 | 27 | 23 | 255 |
| 29 | 113 - 116 | 151 | 138 | 255 | 138 | 50 | 196 |
| 30 | 117 - 120 | 99 | 0 | 255 | 100 | 0 | 255 |
| 31 | 121 - 124 | 138 | 169 | 255 | 138 | 19 | 212 |
| 32 | 125 - 128 | 255 | 243 | 77 | 77 | 40 | 86 |
| 33 | 129 - 132 | 255 | 206 | 143 | 0 | 0 | 0 |
| 34 | 133 - 136 | 254 | 177 | 153 | 0 | 0 | 0 |
| 35 | 137 - 140 | 254 | 192 | 138 | 0 | 0 | 0 |
| 36 | 141 - 144 | 254 | 165 | 98 | 0 | 0 | 0 |

# COLOR MACROS CHART
**RGBAL+UV COLOR MACROS**

| MACRO NO. | DMX VALUES | RED | GREEN | BLUE | AMBER | LIME | UV |
|---|---|---|---|---|---|---|---|
| 37 | 145 - 148 | 254 | 121 | 0 | 0 | 0 | 0 |
| 38 | 149 - 152 | 176 | 17 | 0 | 0 | 0 | 0 |
| 39 | 153 - 156 | 96 | 0 | 11 | 0 | 0 | 0 |
| 40 | 157 - 160 | 234 | 139 | 171 | 0 | 0 | 0 |
| 41 | 161 - 164 | 224 | 5 | 97 | 0 | 0 | 0 |
| 42 | 165 - 168 | 175 | 77 | 173 | 0 | 0 | 0 |
| 43 | 169 - 172 | 119 | 130 | 199 | 0 | 0 | 0 |
| 44 | 173 - 176 | 147 | 164 | 212 | 0 | 0 | 0 |
| 45 | 177 - 180 | 88 | 2 | 163 | 0 | 0 | 0 |
| 46 | 181 - 184 | 0 | 38 | 86 | 0 | 0 | 0 |
| 47 | 185 - 188 | 0 | 142 | 208 | 0 | 0 | 0 |
| 48 | 189 - 192 | 52 | 148 | 209 | 0 | 0 | 0 |
| 49 | 193 - 196 | 1 | 134 | 201 | 0 | 0 | 0 |
| 50 | 197 - 200 | 0 | 145 | 212 | 0 | 0 | 0 |
| 51 | 201 - 204 | 0 | 121 | 192 | 0 | 0 | 0 |
| 52 | 205 - 208 | 0 | 129 | 184 | 0 | 0 | 0 |
| 53 | 209 - 212 | 0 | 83 | 115 | 0 | 0 | 0 |
| 54 | 213 - 216 | 0 | 97 | 166 | 0 | 0 | 0 |
| 55 | 217 - 220 | 1 | 100 | 167 | 0 | 0 | 0 |
| 56 | 221 - 224 | 0 | 40 | 86 | 0 | 0 | 0 |
| 57 | 225 - 228 | 209 | 219 | 182 | 0 | 0 | 0 |
| 58 | 229 - 232 | 42 | 165 | 85 | 0 | 0 | 0 |
| 59 | 233 - 236 | 0 | 46 | 35 | 0 | 0 | 0 |
| 60 | 237 - 240 | 8 | 107 | 222 | 0 | 0 | 0 |
| 61 | 241 - 244 | 80 | 255 | 234 | 0 | 0 | 0 |
| 62 | 245 - 248 | 80 | 255 | 164 | 0 | 0 | 0 |
| 63 | 249 - 252 | 77 | 255 | 112 | 0 | 0 | 0 |
| 64 | 253 - 255 | 117 | 255 | 83 | 0 | 0 | 0 |

# COLOR MACROS CHART

**BACKGROUND COLOR MACROS**

| MACRO NO. | DMX VALUES | RED | GREEN | BLUE |
|---|---|---|---|---|
| Off | 000 | 0 | 0 | 0 |
| 1 | 001 - 004 | 80 | 255 | 234 |
| 2 | 005 - 008 | 80 | 255 | 164 |
| 3 | 009 - 012 | 77 | 255 | 112 |
| 4 | 013 - 016 | 117 | 255 | 83 |
| 5 | 017 - 020 | 160 | 255 | 77 |
| 6 | 021 - 024 | 223 | 255 | 83 |
| 7 | 025 - 028 | 255 | 243 | 77 |
| 8 | 029 - 032 | 255 | 200 | 74 |
| 9 | 033 - 036 | 255 | 166 | 77 |
| 10 | 037 - 040 | 255 | 125 | 74 |
| 11 | 041 - 044 | 255 | 97 | 77 |
| 12 | 045 - 048 | 255 | 71 | 77 |
| 13 | 049 - 052 | 255 | 83 | 134 |
| 14 | 053 - 056 | 255 | 93 | 182 |
| 15 | 057 - 060 | 255 | 96 | 236 |
| 16 | 061 - 064 | 238 | 93 | 255 |
| 17 | 065 - 068 | 196 | 87 | 255 |
| 18 | 069 - 072 | 150 | 90 | 255 |
| 19 | 073 - 076 | 100 | 77 | 255 |
| 20 | 077 - 080 | 77 | 100 | 255 |
| 21 | 081 - 084 | 67 | 148 | 255 |
| 22 | 085 - 088 | 77 | 195 | 255 |
| 23 | 089 - 092 | 77 | 234 | 255 |
| 24 | 093 - 096 | 158 | 255 | 144 |
| 25 | 097 - 100 | 255 | 251 | 153 |
| 26 | 101 - 104 | 255 | 175 | 147 |
| 27 | 105 - 108 | 255 | 138 | 186 |
| 28 | 109 - 112 | 255 | 147 | 251 |
| 29 | 113 - 116 | 151 | 138 | 255 |
| 30 | 117 - 120 | 99 | 0 | 255 |
| 31 | 121 - 124 | 138 | 169 | 255 |
| 32 | 125 - 128 | 61 | 4 | 167 |
| 33 | 129 - 132 | 255 | 206 | 143 |
| 34 | 133 - 136 | 254 | 177 | 153 |
| 35 | 137 - 140 | 254 | 192 | 138 |
| 36 | 141 - 144 | 254 | 165 | 98 |

# COLOR MACROS CHART

**BACKGROUND COLOR MACROS**

| MACRO NO. | DMX VALUES | RED | GREEN | BLUE |
|:---:|:---:|:---:|:---:|:---:|
| 37 | 145 - 148 | 254 | 121 | 0 |
| 38 | 149 - 152 | 176 | 17 | 0 |
| 39 | 153 - 156 | 96 | 0 | 11 |
| 40 | 157 - 160 | 234 | 139 | 171 |
| 41 | 161 - 164 | 224 | 5 | 97 |
| 42 | 165 - 168 | 175 | 77 | 173 |
| 43 | 169 - 172 | 119 | 130 | 199 |
| 44 | 173 - 176 | 147 | 164 | 212 |
| 45 | 177 - 180 | 88 | 2 | 163 |
| 46 | 181 - 184 | 0 | 38 | 86 |
| 47 | 185 - 188 | 0 | 142 | 208 |
| 48 | 189 - 192 | 52 | 148 | 209 |
| 49 | 193 - 196 | 1 | 134 | 201 |
| 50 | 197 - 200 | 0 | 145 | 212 |
| 51 | 201 - 204 | 0 | 121 | 192 |
| 52 | 205 - 208 | 0 | 129 | 184 |
| 53 | 209 - 212 | 0 | 83 | 115 |
| 54 | 213 - 216 | 0 | 97 | 166 |
| 55 | 217 - 220 | 1 | 100 | 167 |
| 56 | 221 - 224 | 0 | 40 | 86 |
| 57 | 225 - 228 | 209 | 219 | 182 |
| 58 | 229 - 232 | 42 | 165 | 85 |
| 59 | 233 - 236 | 0 | 46 | 35 |
| 60 | 237 - 240 | 8 | 107 | 222 |
| 61 | 241 - 244 | 255 | 0 | 0 |
| 62 | 245 - 248 | 0 | 255 | 0 |
| 63 | 249 - 252 | 0 | 0 | 255 |
| 64 | 253 - 255 | 255 | 255 | 255 |

# Pixel Flip 1 (Default)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

# Pixel Flip 2

| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
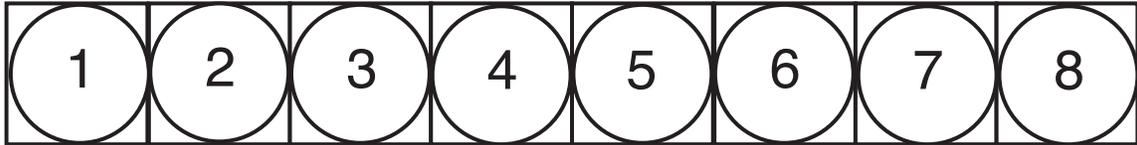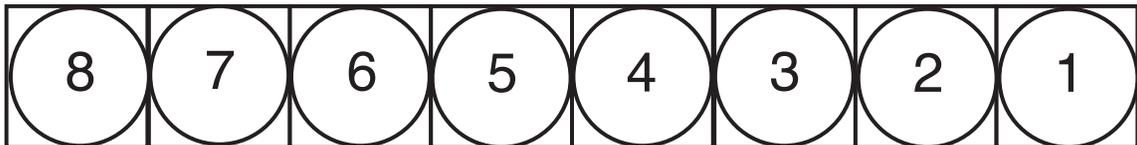
# DIMMER MODES AND CURVES
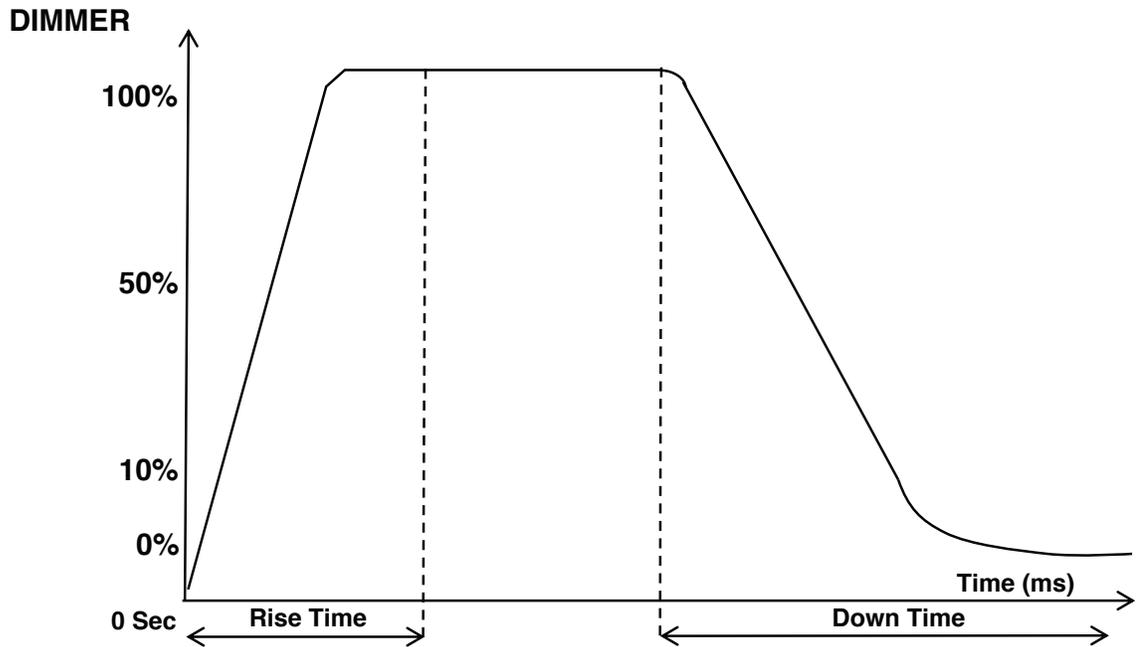


| | 0 sec Fade Time | | 1 sec Fade Time | |
|---|---|---|---|---|
| **Dimming Curve Ramp Effect** |  | |  | |
| | **Rise Time (ms)** | **Down Time (ms)** | **Rise Time (ms)** | **Down Time (ms)** |
| **Standard (default)** | 0 | 0 | 0 | 0 |
| **Stage** | 780 | 1100 | 1540 | 1660 |
| **TV** | 1180 | 1520 | 1860 | 1940 |
| **Architectural** | 1380 | 1730 | 2040 | 2120 |
| **Theatre** | 1580 | 1940 | 2230 | 2280 |
| **Stage 2** | 0 | 1100 | 0 | 1660 |



LINEAR



SQUARE



INVERSE SQUARE



S-CURVE
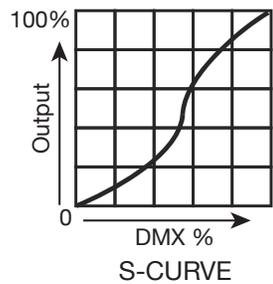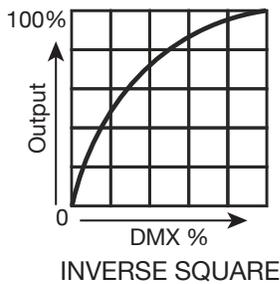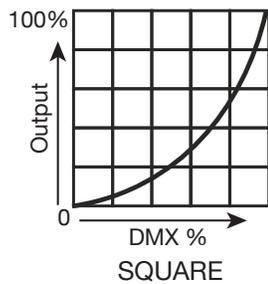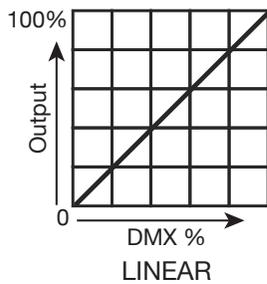
# PRIMARY-SECONDARY SET UP

This function allows you to link units together to run in a Primary-Secondary set-up, in which one unit will act as the controlling unit and the others will react to the controlling unit's built-in programs. Any unit can be configured to act as a Primary or as a Secondary, but only one unit in a given system can be programmed to act as the Primary.

### *Primary-Secondary Connections and Settings:*

1. Daisy chain your units via the XLR connectors on the bottom of each unit. Use standard XLR data cables to link your units together. Remember that the male XLR connector is the input and the female XLR connector is the ouput. The first unit in the chain (primary) will use the female XLR connector only. The last unit in the chain will use the male XLR connector only.
2. On the unit that you want to designate as the primary, use the display screen and control panel to navigate to Personality > Prim/Sec Mode, then select "Primary" and press the SETUP button to confirm. Configure the operation of the device as desired.
3. On the units that you want to designate as secondaries, use the display screen and control panel to navigate to Personality > Prim/Sec Mode, then select "Secondary" and press the SETUP button to confirm. The secondary units will now follow the operation of the primary unit.

*NOTES:*
- Only one unit should be configured as the primary, while all the other units should be configured as secondaries.
- All units should be set to the same DMX channel mode.
- If fixtures fail to sync, verify that all settings mentioned above are the same, then power all devices off, then switch them on again to re-establish the link.

# MULTI UNIT POWER LINKING

This features allows you to connect the fixtures to one another using the power cable input and output sockets.

**The maximum number of units that can be linked in this manner is as follows:**
- **15 units when running on 120V power.**
- **28 units when running on 230V power.**

*DO NOT EXCEED THIS MAXIMUM NUMBER WHEN POWER LINKING UNITS!*

All linked units must be of the same make and model type. Do not mix and match units!

# MAINTENANCE GUIDELINES

⚠ **DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!**

## CLEANING

Frequent cleaning is recommended to ensure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky, or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Clean the external lens surface regularly with a soft cloth to avoid dirt/debris accumulation.

**NEVER** use alcohol, solvents, or ammonia-based cleaners.

## MAINTENANCE

Regular inspections are recommended to ensure proper function and extended life.  There are no user serviceable parts inside this fixture. Please refer all other service issues to an authorized ADJ service technician. Should you need any spare parts, please order genuine parts from your local ADJ dealer.

Please refer to the following points during routine inspections:
A.  A detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
B.  Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall.
C.  Check for any deformations on the housing, color lenses, rigging hardware, and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).
D.  Electric power supply cables must not show any damage, material fatigue, or sediments.

**NEVER** remove the ground prong from the power cable.

# TORQUE SETTINGS FOR SCREWS

**IN ORDER TO MAINTAIN THE IP65 RATING ON THE LIGHTING FIXTURES, ALL SCREWS MUST BE TIGHTENED TO THE FOLLOWING TORQUE SPECIFICATION USING A TORQUE DRIVER.**

Refer to the table and diagram below for torque specifications.

TORQUE DRIVERS (Recommended): UTICA TS-30 (shown)
ALTERNATE DRIVERS:
• Proto J6107A
• Wiha 28887

**CAUTION! DO NOT OVER TORQUE SCREWS, AS THIS CAN CAUSE LEAKAGE ISSUES!**
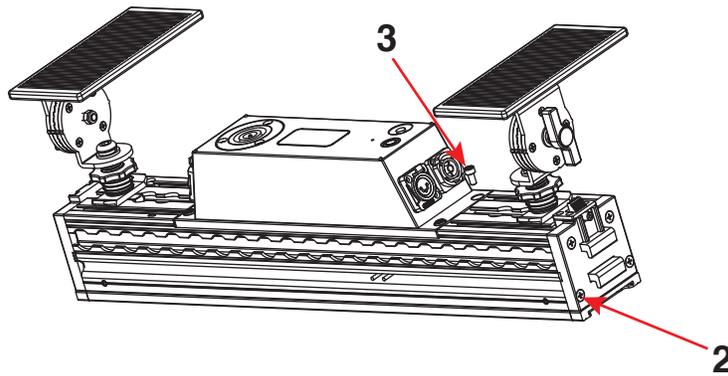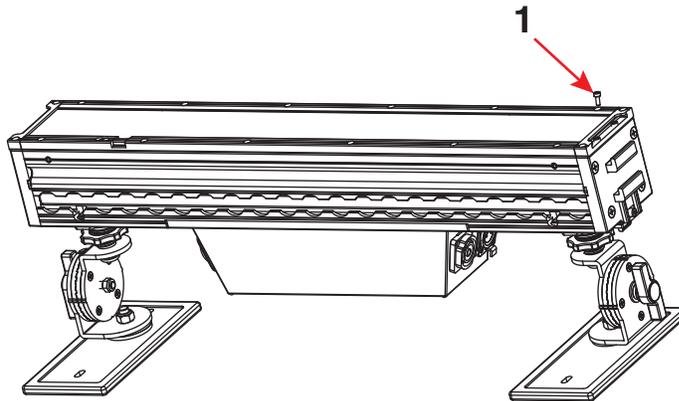
| NO. | LOCATION | QUANTITY | TORQUE |
|-----|----------|----------|--------|
| 1 | Upper Cover | 20 | 6.9 lb-in (8.0 kg-cm) |
| 2 | Side Cover | 8 | 10.4 lb-in (12.0 kg-cm) |
| 3 | Back Cover | 4 | 17.4 lb-in (20.0 kg-cm) |

# IP TEST PARAMETERS

Following any repair or maintenance procedure that requires disassembly of the fixture, use ADJ's Hydro IP Tester to confirm the IP integrity of the fixture. The air valve is located on the back panel next to the display screen, as shown in the diagram below. Please contact ADJ Service for information regarding the ADJ Hydro IP Tester, or visit the product information page online at:
https://www.adj.com/hydro-ip-tester
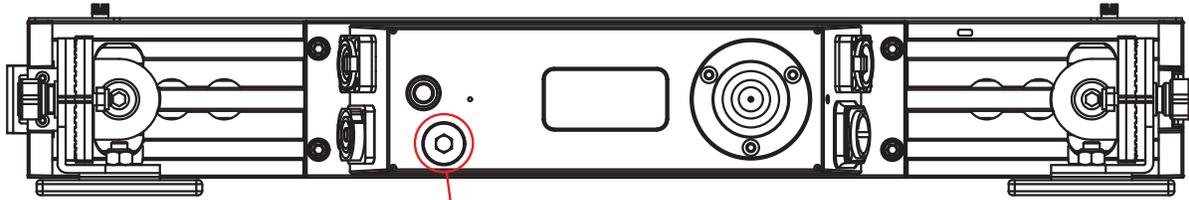


Air Valve



**CAUTION! THE USE OF PROTECTIVE GLOVES AND SAFETY GOGGLES IS STRONGLY RECOMMENDED WHILE PERFORMING THE IP PRESSURE TEST! AVOID PLACING YOUR FACE, EYES, HANDS, ETC IN CLOSE PROXIMITY TO THE FIXTURE'S LENS WHILE PERFORMING THE TEST!**

**DE-HUMIDIFICATION:** IP65 fixtures operating in high-humidity environments may experience residual fogging or condensation. Such fogging will not damage the fixture, and can be removed using the following procedure: position the unit with the air valve pointing upwards, then open the air valve and run the unit for 1-2 hours after reaching operating temperature. Then, while the fixture is still hot, re-install the air valve and allow the unit to cool down. Please note that this procedure should be performed in a dry, air-conditioned environment. Avoid additional fogging by drying the fixture completely before placing into a road case.



| IP PRESSURE TESTING PARAMETERS | | |
|---|---|---|
| Low Pressure Limit | High Pressure Limit | Steady/Hold Time |
| 1.65 psi (11.4 KPa) | 1.70 psi (11.7 KPa) | 3 sec |

# DIMENSIONAL DRAWINGS

4.6in (117mm)

3.5in (88.7mm)

10.6in (268.7mm)

23.1in (586.7mm)

22.5in (572mm)

6.5in (166mm)

3.1in (79mm)

7.9in (199.7mm)

22.9in (582.1mm)

10.8in (247.2mm)

2.7in (69mm)

5.6in (142.7mm)

3.1in (79mm)

3.7in (94.5mm)

3.4in (86.3mm)
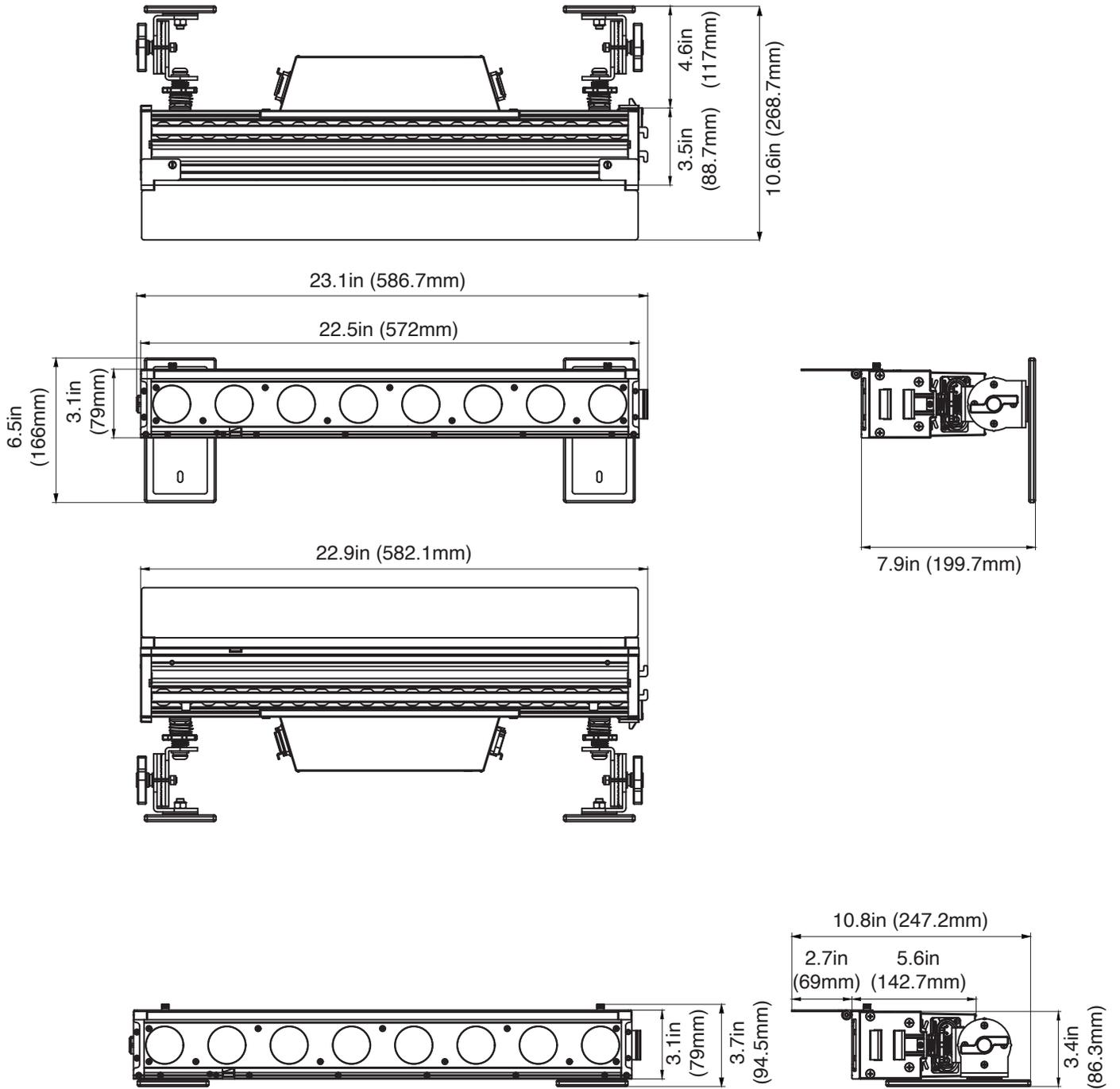
# SPECIFICATIONS

**Features:**
- 8 Pixel, Hex Color LED (RGBAL+UV) LED Bar
- Battery or Wall Powered
- Up to 20 Hour Battery Operation
- Battery Operation (Menu Option)
- Individual Pixel Control
- Built-In Foreground LED Programs
- Built-In Background LED Programs
- Variable White Color Temperature Control (2,300K ~ 9,900K)
- English & Spanish User Menu
- Built-In Alarm
- Color Calibrated LED's
- User Selectable LED Refresh Rates (900Hz ~ 25K)
- 6 User Selectable Dim Modes
- 4 User Selectable Dim Curves
- Electronic Strobe (0.3Hz ~ 11Hz)
- Electronic Dimming
- Attach up to four (4) ElectraPix Bar 8 to the Accu Stand VFB1 vertical floor base

**Source:**
- (8) 20W Hex Color RGBAL+UV Foreground LED's
- (32) 0.2W RGB Background LED's
- 50,000 Hour Average Life*
- *May vary depending on several factors including but not limited to: Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control, and Dimming.

**Optical:**
- 2,300K ~ 9,900K White Color Temperature Range
- 17° Beam Angle
- 45mm Lens Diameter x8

**Physical:**
- IP65 Housing
- OLED Digital display
- L Track system for locking accessories / rigging
- Glare Shield
- Diffusion Filter slot
- Angle adjustable feet
- Horizontal slide lock to attach additional ElectraPix Bar 8 or ElectraPix Bar 16

**Control:**
- DMX512
- Aria X2 Wireless Management / DMX System
- Bluetooth
- RDM and RDM Net Compatible
- IR (Includes UCIR24 wireless remote)
- (9) DMX Channel Modes (5, 6, 9, 13, 22, 24, 48, 52 & 66 Channel modes)
- On-board Manual Control Mode
- Primary / Secondary Mode

**Connections:**
- 5pin XLR Outdoor DMX In/Out Sockets (Must be used with STRxxx, 5pin DMX cables to create IP65 seal)
- Outdoor Locking Power Sockets
- Battery Charging Socket

**Dimensions & Weight:**
- Length: 3.7" (94.5mm) Width: 23.1" (586.7mm) Height: 10.6" (268.7mm)
- Weight: 16.1 lbs. (7.3 kg)

**Power:**
- AC100-240V/50Hz-60Hz Input
- 60W Power Consumption
- Link 15 pieces @120VAC or 28 pieces @ 230VAC
-
**Battery:**
- Rechargeable Lithium ion
- Battery Capacity: 7,000mAh
- Battery Voltage: 22.2V
- Charge Time, AC Power: 5 Hours (To Full)
- Charge Time, Flight Case: 5 Hours (To Full)
- Up to 20 Hour Battery Operation
- Battery Cycles: 500

**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



*Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.*

# OPTIONAL ACCESSORIES

| US SKU | EU SKU | DESCRIPTION |
| --- | --- | --- |
| ELE080 | 1226100502 | ElectraPix Bar 8 |
| LTR008 | Pending | LTrack A2 - Ltrack Adapter Only |
| LTR112 | Pending | LTrack CA2 - LTrack Adapter with Narrow Clamp |
| ACC111 | 1223200106 | Accu Stand VFB1 Floor Base |
| ELE213 | Pending | Replacement Battery Pack |

# 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.

**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

FC