

ULTRA BEAM BAR 12CW

User Manual

©2024 ADJ Products, LLC all rights reserved. Information, specifications, diagrams, images, and instructions herein are subject to change without notice. ADJ Products, LLC logo and identifying product names and numbers herein are trademarks of ADJ Products, LLC. Copyright protection claimed includes all forms and matters of copyrightable materials and information now allowed by statutory or judicial law or hereinafter granted. Product names used in this document may be trademarks or registered trademarks of their respective companies and are hereby acknowledged. All non-ADJ Products, LLC brands and product names are trademarks or registered trademarks of their respective companies.

ADJ Products, LLC and all affiliated companies hereby disclaim any and all liabilities for property, equipment, building, and electrical damages, injuries to any persons, and direct or indirect economic loss associated with the use or reliance of any information contained within this document, and/or as a result of the improper, unsafe, insufficient and negligent assembly, installation, rigging, and operation of this product.

ADJ PRODUCTS LLC World Headquarters

6122 S. Eastern Ave. | Los Angeles, CA 90040 USA
Tel: 800-322-6337 | www.adj.com | lsupport@adj.com

ADJ Supply Europe B.V.

Junostraat 2 | 6468 EW Kerkrade | Netherlands
Tel: +31 45 546 85 00 | www.adj.eu | support@adj.eu

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 for the latest revision/update of this manual before beginning installation and/or programming.

| Date | Document Version | Software Version | DMX Channels | Notes |
|------------|------------------|------------------|--------------|-----------------|
| 07/30/2024 | 1.0 | 1.0 | 1/3/12/14/19 | Initial Release |
| | | | | |
| | | | | |

CONTENTS

| | |
|---|-----------|
| Introduction | 4 |
| Limited Warranty (USA Only) | 5 |
| Warranty Registration Features | 6 |
| Safety Guidelines | 7 |
| Overview | 8 |
| Installation Guidelines | 9 |
| Accessory Installation: Lens | 13 |
| System Menu | 14 |
| Dimmer Modes and Curves | 16 |
| DMX Setup | 17 |
| DMX Traits | 19 |
| Pixel Flip | 21 |
| Remote Device Management (RDM) | 22 |
| Cleaning and Maintenance | 23 |
| Specifications | 24 |
| Dimensions | 25 |
| Optional Accessories FCC Statement | 26 |

GENERAL INFORMATION

INTRODUCTION

Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important safety and use information.

This product is intended for use by professionally trained personnel only, and is not suitable for private use.

FOR SOFTWARE UPDATES, CONTACT ADJ CUSTOMER SUPPORT.

Unpacking

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 is damaged, carefully inspect the device for damage, and be sure all accessories necessary to install and operate the device have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this device to your dealer without first contacting customer support. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

FOR SOFTWARE SUPPORT, CONTACT ADJ CUSTOMER SUPPORT.

CUSTOMER SUPPORT

Contact ADJ Service for any product related service and support needs. Also visit forums.adj.com with questions, comments or suggestions.

ADJ SERVICE USA - Monday - Friday 8:00am to 4:30pm PST
323-582-2650 | support@adj.com

ADJ SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET
+31 45 546 85 60 | support@adj.eu

REPLACEMENT PARTS please visit parts.adj.com



IMPORTANT NOTICE!

THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF; 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 WARRANTY CLAIMS AND/OR REPAIRS.

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 back the product-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 pre-paid. 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. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall have no liability whatsoever for loss of or damage to any such accessories, or for the safe return thereof.
- C. This warranty is void if the serial number has been 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 service by anyone other than ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because not properly maintained as set forth in the instruction 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 no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. 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 Products, LLC be liable for any loss or damage, direct or consequential, arising out of the use of, 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.

LIMITED WARRANTY PERIODS

- **Non L.E.D. Lighting Products = 1-year (365 days) Limited Warranty** (Such as: Special Effect Lighting, Intelligent Lighting, UV lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands etc. excluding LED and lamps)
- **Laser Products = 1 Year (365 Days) Limited Warranty** (excludes laser diodes which have 6 month limited warranty)
- **L.E.D. Products = 2-year (730 days) Limited Warranty** (excluding batteries which have a 180 day limited warranty)
Note: 2 Year Warranty only applies to purchases within the United States.
- **StarTec Series = 1 Year Limited Warranty** (excluding batteries which have a 180 day limited warranty)
- **ADJ DMX Controllers = 2 Year (730 Days) Limited Warranty**

WARRANTY REGISTRATION

The Ultra Beam Bar 12CW carries a 2 year limited warranty. 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 on our customer support number. 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

The Ultra Beam Bar 12CW is a cutting-edge lighting solution designed to elevate your event or venue to the next level. Boasting twelve high-performance 20-Watt, 6200k cool white LED's, this one-meter linear bar delivers unparalleled brightness and clarity.

With each pixel featuring a narrow 5-degree beam angle, the Ultra Beam Bar 12CW offers precise illumination, allowing you to create stunning effects and captivating visuals. What sets this fixture apart is its individual pixel control via DMX, giving you full command over each of the twelve cool white beams.

Equipped with 13 built-in programs, including dynamic patterns and color sequences, this versatile fixture offers endless creative possibilities. Whether you're lighting up a stage, club, or general entertainment space, the Ultra Beam Bar 12CW delivers unmatched versatility and performance.

For added convenience and flexibility, this innovative fixture features a strobe rate ranging from 0.3Hz to 11Hz, allowing you to create stunning strobe flash effects. Plus, with RDM (Remote Device Management) and RDM Net compatibility, you can easily monitor and control the fixture remotely, streamlining your workflow and ensuring seamless integration into your lighting setup.

INCLUDED ITEMS:

- (1) Indoor Locking Power Cord
- Includes mounting brackets to set on the ground or to mount a clamp to for truss mounting

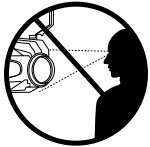
SAFETY GUIDELINES



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.

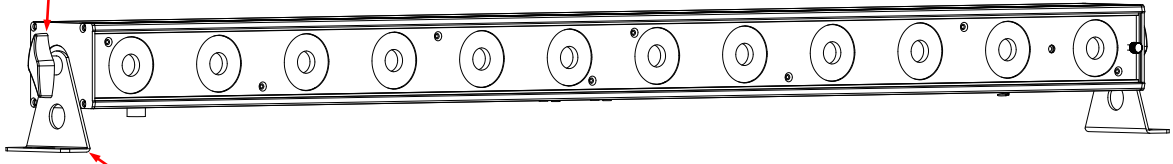


**NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!
RETINA INJURY RISK - MAY INDUCE BLINDNESS!
SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!**

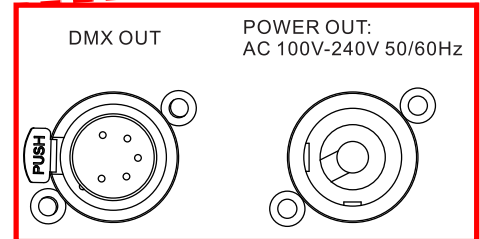
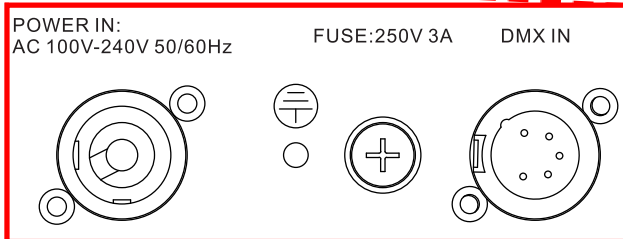
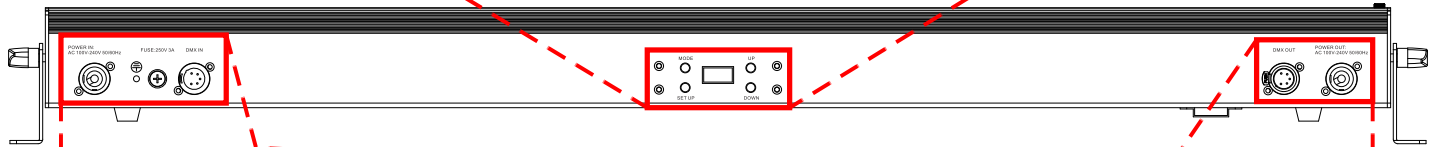
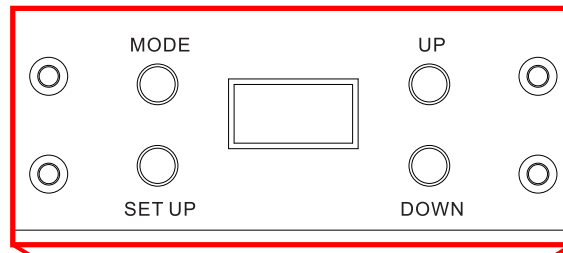
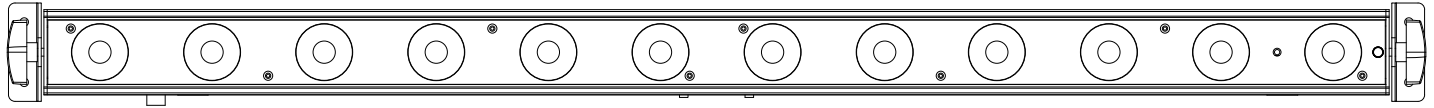
- **Ambient operating temperature range is -4°F to 113°F (-20°C to 45°C)!**
- **DO NOT TOUCH** the fixture housing during operation. Disconnect the power and allow approximately 15 minutes for the fixture to cool down before servicing.
- **DO NOT** shake the fixture, and avoid brute force when installing 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 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

Bracket Adjustment Knob

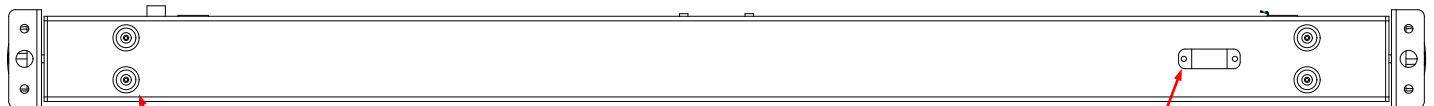


Mounting Bracket



Rubber Feet

Safety Cable Attachment Point



INSTALLATION GUIDELINES



FLAMMABLE MATERIAL WARNING

Keep fixture minimum 5.0 feet (1.5m) away from flammable materials and/or pyrotechnics.



ELECTRICAL CONNECTIONS

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



MINIMUM DISTANCE TO OBJECTS/SURFACES IS 6.6 FEET (2 METERS).

MINIMUM DISTANCE OF INFLAMMABLE MATERIALS FROM THE SURFACE IS 1.6 FEET (0.5 METERS).

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.
- Before rigging/mounting a single fixture or multiple fixtures 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.
- Maximum ambient operating temperature is **113°F (45°C)**. Do not use fixture when ambient temperature exceeds this value.
- Fixture(s) should be installed outside 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.
- Allow approximately 60 minutes for the fixture to cool down before servicing.

RIGGING

Overhead rigging requires extensive experience, including calculating working load limits, knowledge of installation material being used, and periodic safety inspection of all installation material and the fixture, among other skills. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

INSTALLATION GUIDELINES

INSTALLATION

This fixture features brackets for the attachment of mounting clamps or screws. If screwing to a surface, use M6x25 Self-Tapping Screws. There is also a safetycable attachment point located on the bottom of fixture near one end (see below). Be sure to attach a separate SAFETY CABLE of the appropriate weight rating to a safety cable attachment point.

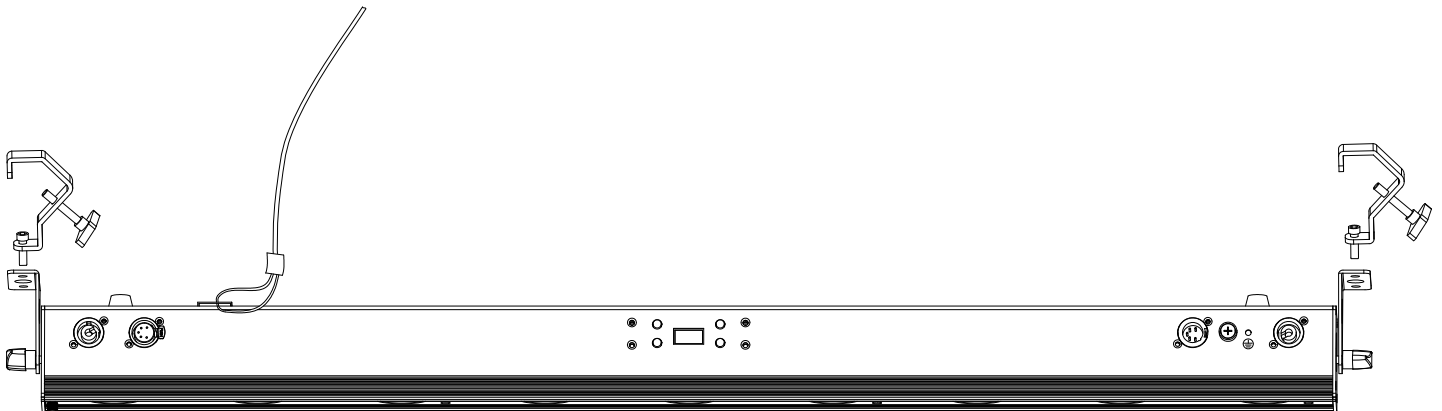


SAFETY CABLE:

ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THAT THE FIXTURE WILL NOT FALL IF THE CLAMPS OR SCREWS FAIL.

CLAMP INSTALLATION

This fixture features brackets for the attachment of mounting clamps. There are also safety cable attachment points located on the heatsink near each endcap. When mounting the fixture to a truss or any other suspended or overhead installation, be sure to secure appropriately rated clamps (not included) to the brackets, and attach a separate SAFETY CABLE of the appropriate weight rating to a safety cable attachment point.

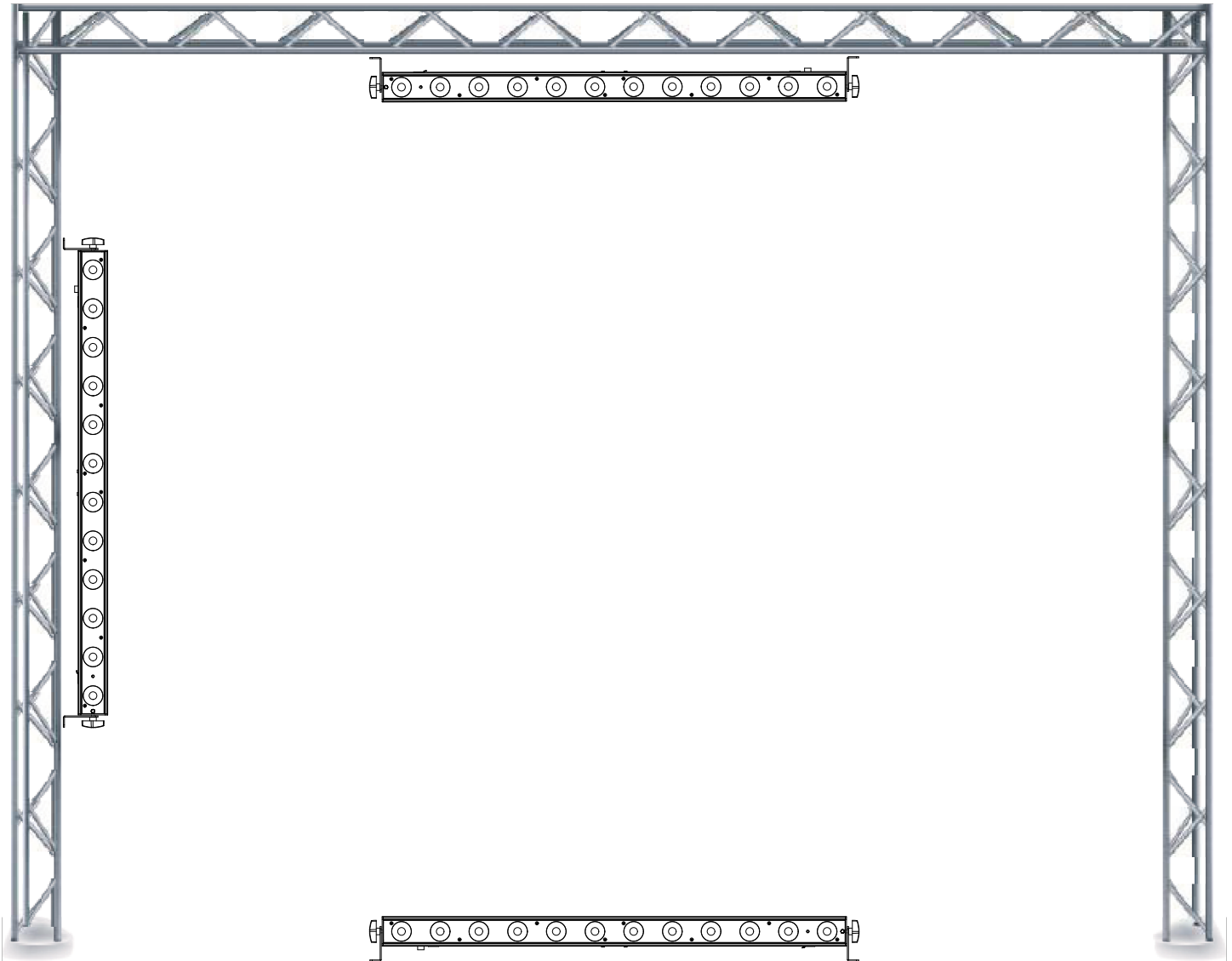


INSTALLATION GUIDELINES

RIGGING

Overhead rigging requires extensive experience, including among others, calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

This fixture is designed to be mounted vertically (hanging or upright), or horizontally (perpendicular to vertical axis) only.



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 THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.

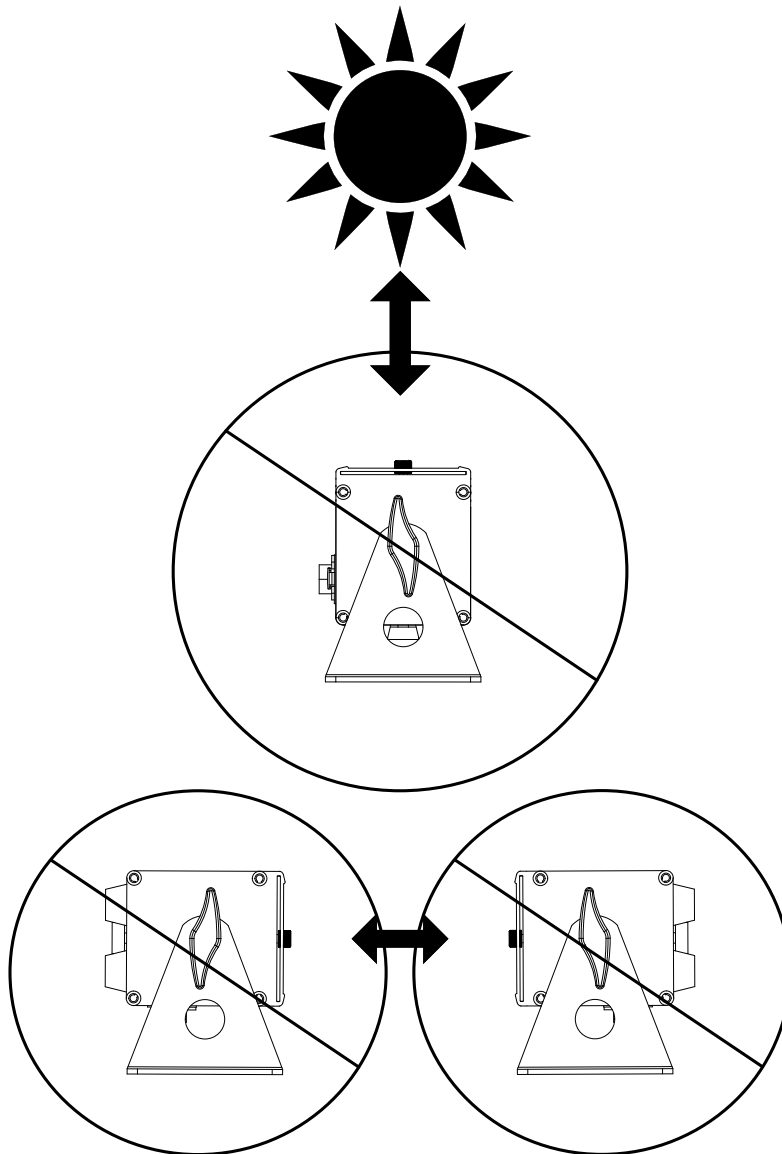
INSTALLATION GUIDELINES

POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

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

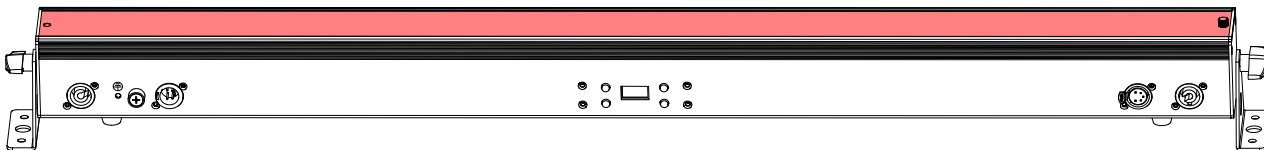
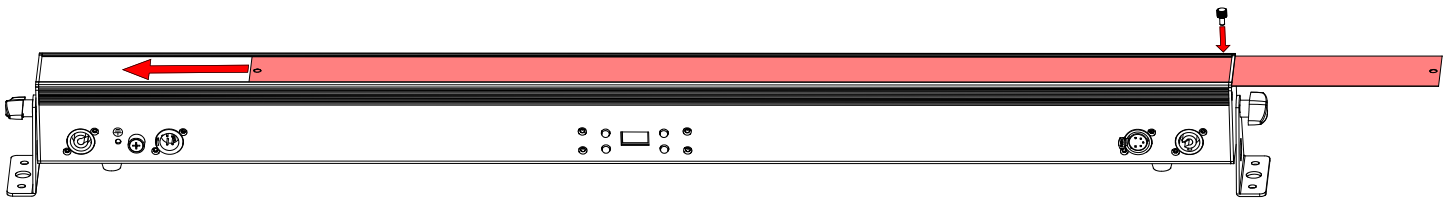
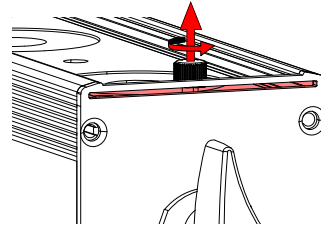
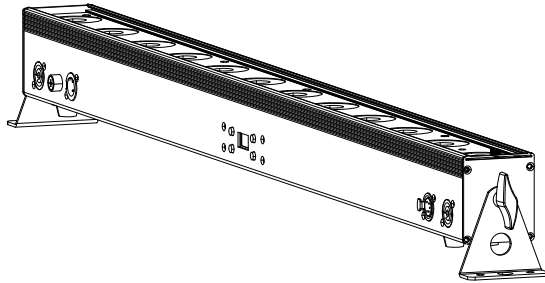
This issue is not specific only to Elation lighting fixtures, but rather it is a common issue with lighting fixtures from all manufacturers. Although there is no true way to fully prevent this issue from happening, the guidelines below can reduce the risk of potential damage. Contact Elation Service for more details.

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



ACCESSORY INSTALLATION: LENS

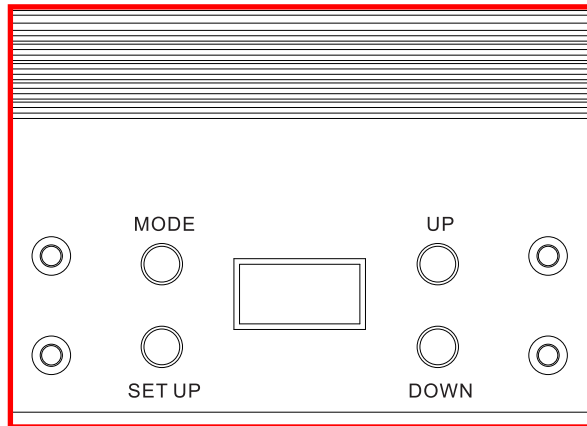
Locate Lens Thumb Screw and unscrew it. Carefully slide Lens into the Lens Slot. Once in place, secure the Lens by screwing Thumb Screw clockwise to secure it.



SYSTEM MENU

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 **SET UP** 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.

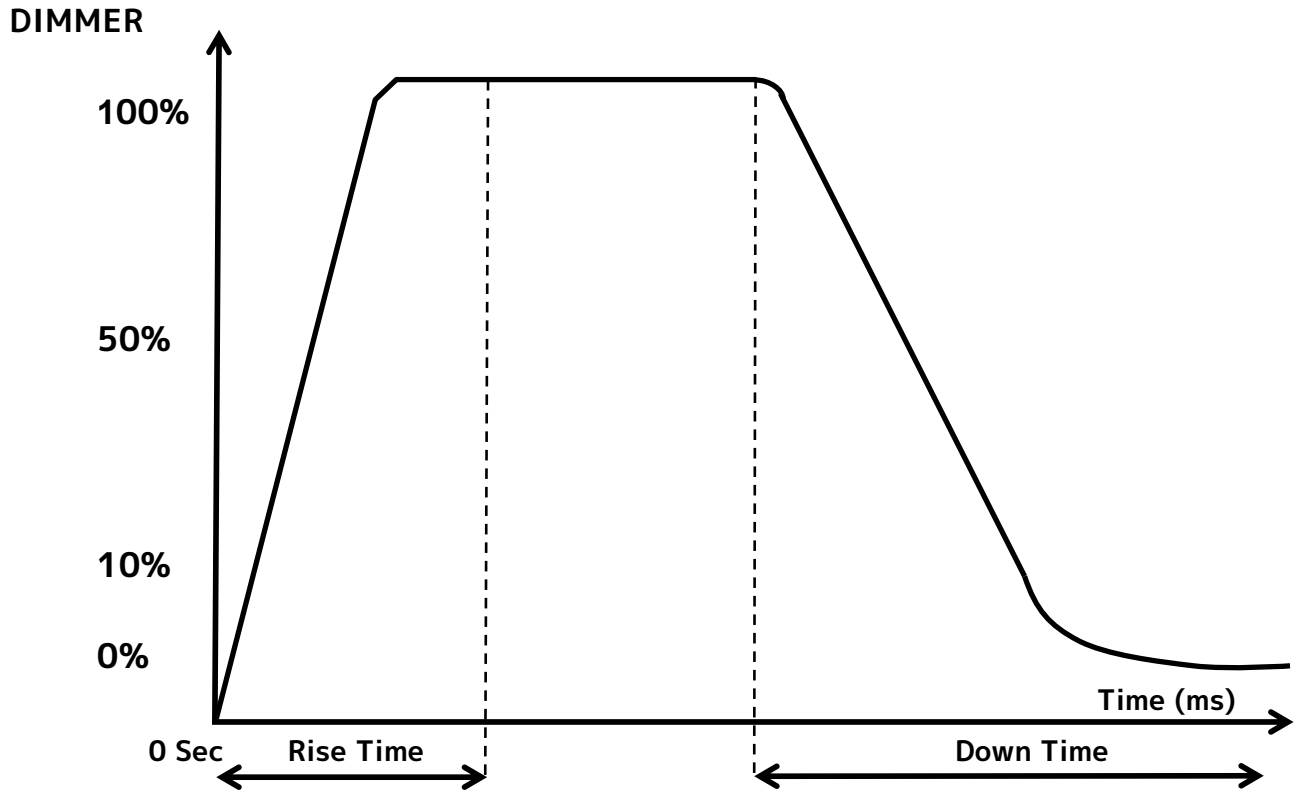


This fixture includes a display lock feature which automatically shuts off the display screen after a certain period of inactivity. This feature is OFF by default, which means that the display will always remain on regardless of inactivity, but can be configured to kick in after up to 10 minutes of inactivity.

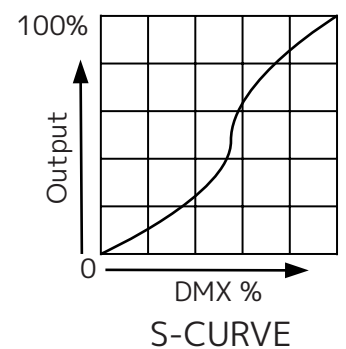
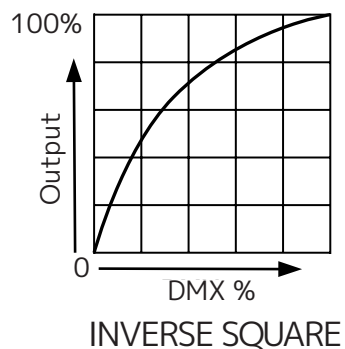
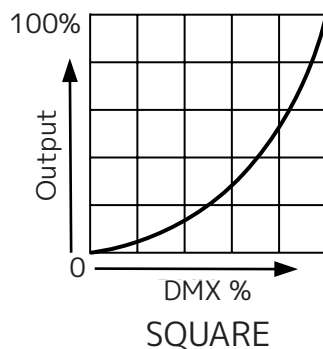
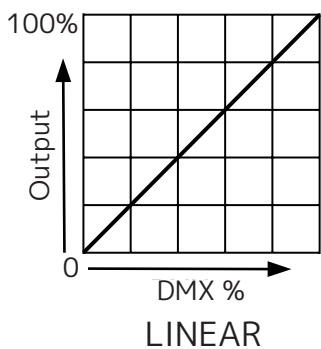
SYSTEM MENU - ENGLISH

| MAIN MENU | OPTIONS / VALUES (Default Settings in BOLD) | | | |
|---------------------|---|---|------------------------------|---------|
| DMX Settings | Address | 001 - 512 | | |
| | Ch. Mode | 1ch, 3ch, 12ch, 14ch , 19ch | | |
| | No DMX | Hold , Blackout, Manual, Internal Programs | | |
| Personality | Primary/Secondary Mode | Primary, Secondary | | |
| | IR Remote | ON / OFF | | |
| | RDM | ON / OFF | | |
| | Pixel Flip | OFF = 1-12 , ON = 12-1 | | |
| | Dim Mode | Standard , Stage, TV, Archi., Theatre, Stage 2 | | |
| | | DimSpeed | 0.1S~10S | |
| | Dim Curve | Linear, Square , Inv.Squa, S.Curve | | |
| | Display | SaveDlay | 1-10 | |
| | | Lock | OFF , 1M, 2M,..., 10M | |
| | | Rotate Display 180° | YES / NO / Auto | |
| Service | Passcode | Restore | YES / NO | |
| Manual | All White | 000-255 | | |
| | White 1 | 000-255 | | |
| | ... | 000-255 | | |
| | White 12 | 000-255 | | |
| | Strobe | 000- 255 | | |
| | MastrDim | 000- 255 | | |
| IntProgs | Program 0 | Speed | 000-255 | |
| | | Fade | 000-255 | |
| | | Sound | ON / OFF | 001-016 |
| | Program 1 | Speed | 000-255 | |
| | | Fade | 000-255 | |
| | | Sound | ON / OFF | 001-016 |
| | Program 2 | Speed | 000-255 | |
| | | Fade | 000-255 | |
| | | Sound | ON / OFF | 001-016 |
| | Program 3 | Speed | 000-255 | |
| | | Fade | 000-255 | |
| | | Sound | ON / OFF | 001-016 |
| | ... | ... | | |
| | Program 13 | Speed | 000-255 | |
| | | Fade | 000-255 | |
| Sound | | ON / OFF | 001-016 | |
| Info | LED Temperature | xxx° | xxx F / xxx C | |
| | RDM UID | xxxxxx | | |
| | Software Version | x.xx | | |

DIMMER MODES AND CURVES



| Dimming Curve Ramp Effect | 0 sec Fade Time | | 1 sec Fade Time | |
|------------------------------|-----------------|----------------|-----------------|----------------|
| | 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 |



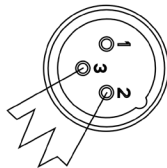
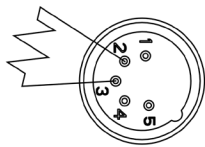
DMX SETUP

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 using 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):The fixture can be controlled via DMX-512 protocol, and features multiple DMX channel modes. Your unit and your DMX controller require a 5-pin XLR connector for data input and data output. 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 on the other. Also remember that DMX cable must be daisy chained and cannot be split.

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 decrease the chances 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 SETUP

DMX ADDRESSING

All fixtures should be given a DMX starting address when operating with a DMX controller, in order to ensure that 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 this case, please note that 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 “listen” starting at 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.

As an example, when operating this device in 3 channel mode, you should set the starting DMX address of the first unit to 1, the second unit to 4 (1 + 3), the third unit to 7 (1 + 3 + 3), and so on. (See the chart below for more details.)

| Channel Mode | Unit 1 Address | Unit 2 Address | Unit 3 Address | Unit 4 Address |
|--------------------|----------------|----------------|----------------|----------------|
| 1 Channels | 1 | 2 | 3 | 4 |
| 3 Channels | 1 | 4 | 7 | 10 |
| 12 Channels | 1 | 13 | 25 | 37 |
| 14 Channels | 1 | 15 | 29 | 43 |
| 19 Channels | 1 | 20 | 39 | 58 |

DMX TRAITS

| CHANNEL | | | | | DMX VALUES | FUNCTION |
|---------|-----|------|------|------|------------|---|
| 1Ch | 3Ch | 12Ch | 14Ch | 19Ch | | |
| 1 | 1 | | | | 0-255 | All White , 0~100% |
| | | 1 | 1 | 1 | 0-255 | White 1 , 0~100% |
| | | 2 | 2 | 2 | 0-255 | White 2 , 0~100% |
| | | 3 | 3 | 3 | 0-255 | White 3 , 0~100% |
| | | 4 | 4 | 4 | 0-255 | White 4 , 0~100% |
| | | 5 | 5 | 5 | 0-255 | White 5 , 0~100% |
| | | 6 | 6 | 6 | 0-255 | White 6 , 0~100% |
| | | 7 | 7 | 7 | 0-255 | White 7 , 0~100% |
| | | 8 | 8 | 8 | 0-255 | White 8 , 0~100% |
| | | 9 | 9 | 9 | 0-255 | White 9 , 0~100% |
| | | 10 | 10 | 10 | 0-255 | White 10 , 0~100% |
| | | 11 | 11 | 11 | 0-255 | White 11 , 0~100% |
| | | 12 | 12 | 12 | 0-255 | White 12 , 0~100% |
| | | | | | | Shutter, Strobe |
| | | | | | 0-31 | Led's Off |
| | | | | | 32-63 | Led's On |
| | | | | | 64-95 | Strobe effect slow to fast |
| | | | | | 96-127 | Led's On |
| | | | | | 128-159 | Pulse-effect in sequences |
| | | | | | 160-191 | Led's On |
| | | | | | 192-223 | Random strobe effect slow to fast |
| | | | | | 224-255 | Led's On |
| | 2 | | 13 | 13 | | |
| | | | | | 0-255 | Dimmer (Intensity) , Intensity 0 to 100% |
| | 3 | | 14 | 14 | | |
| | | | | | | Auto programs: |
| | | | | | 0-10 | Off |
| | | | | | 11-26 | Auto Program 1 |
| | | | | | 27-43 | Auto Program 2 |
| | | | | | 44-60 | Auto Program 3 |
| | | | | | 61-76 | Auto Program 4 |
| | | | | | 77-93 | Auto Program 5 |
| | | | | | 94-110 | 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 |
| | | | | 15 | | |
| | | | | 16 | 0-255 | Auto Programs Speed: Slow to Fast speed |
| | | | | 17 | 0-255 | Auto Programs Fade: 0-100% |

DMX TRAITS

| CHANNEL | | | | | DMX VALUES | FUNCTION |
|---------|-----|------|------|--------|-------------|---------------------------------------|
| 1Ch | 3Ch | 12Ch | 14Ch | 19Ch | | |
| | | | | 18 | | Dim Mode |
| | | | | | 0-20 | Default to Unit Setting |
| | | | | | 21-40 | Standard |
| | | | | | 41-60 | Stage |
| | | | | | 61-80 | TV |
| | | | | | 81-100 | Architectural |
| | | | | | 101-120 | Theatre |
| | | | | | 121-140 | Stage 2 |
| | | | | | 141-160 | Dim Speed from Fast to Slow (0.1-10s) |
| | | | | | 161-255 | Default to Unit Setting |
| | | | | 19 | | Dim Curves |
| | | | | | 0-20 | Square |
| | | | | | 21-40 | Linear |
| | | | | | 41-60 | Inv. Squa |
| | | | | | 61-80 | S. Curve |
| | | | | 81-255 | No Function | |

PIXEL FLIP

PIXEL FLIP OFF

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|----|----|----|

PIXEL FLIP ON

| | | | | | | | | | | | |
|----|----|----|---|---|---|---|---|---|---|---|---|
| 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|----|----|----|---|---|---|---|---|---|---|---|---|

REMOTE DEVICE MANAGEMENT (RDM)

NOTE: 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 | 0000-FFFF | 7112 | 1CH, 3CH, 12CH, 14CH, 19CH |

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.

The following parameters are accessible in RDM on this device:

| Parameter ID | Code |
|------------------------|---------|
| DISC_UNIQUE_BRANCH | 0x0001 |
| DISC_MUTE | 0x0002 |
| DISC_UN_MUTE | 0x0003 |
| SUPPORTED_PARAMATERS | 0X0050 |
| DEVICE_INFO | 0x0060 |
| MANUFACTURER_LABEL | 0x0081 |
| DEVICE_LABEL | 0x0082 |
| SOFTWARE_VERSION_LABEL | 0x00C0 |
| DMX_PERSONALITY | 0x00E0 |
| DMX_START_ADDRESS | 0x00F0 |
| SENSOR_VALUE | 0x0201c |
| CURVE | 0x0343 |
| CURVE_DESCRIPTION | 0x0344 |
| IDENTIFY_DEVICE | 0X1000 |
| DMX_FAIL_MODE | 0x0141 |

CLEANING AND MAINTENANCE



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 periodically 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 detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- 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.
- 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 or liquids to enter into the fixture. Damaged rigging points or unsecured rigging could cause fixture to fall and seriously injure a person(s).
- Electric power supply cables must not show any damage, material fatigue, or sediments.

NEVER remove the ground prong from the power cable.

SPECIFICATIONS

Light Source:

- 12 x 20W Ultra bright (6200k, Cool White) LEDs
- Long Life LEDs (Rated at approximately 50,000 hrs.)
- 1340 Lumens
- 5° beam angle (Per pixel)
- Pixel Pitch: 85.5mm

Features:

- 12 Sharp Beams
- Primary / Secondary stand alone control mode
- 13 Built-In Programs
- Compatible with the ADJ UC-IR remote. Operates at a distance of up to 32.8 feet (10 meters). UC-IR included.
- Horizontal agnetic Alignment feature (Built-In)
- DMX, RDM and RDM NET Compliant
- Pixel Flip mode

Control:

- OLED Display with 4-buttons
- 5 DMX Channel Modes: 1, 3, 12, 14, & 19 Channels
- Individual pixel controllable in 12, 14 and 19 channel DMX modes
- 5 operational modes: Manual Pixel, Manual Program, Program Sound Trigger, and DMX-512 Modes
- LED Refresh Rate: 1.9KHz
- 6 selectable Dim Modes (Standard, Stage, TV, Architectural, Theatre & Stage 2)
- 4 selectable Dim Curves (Square, Linear, Inv. Square & S. Curve)
- Built-In Microphone for sound trigger
- Synchronized, pulse and random strobing
- Electronic Dimming: 0-100%

Connections:

- Linkable: DMX via 5-pin XLR cable
- Indoor Locking power In/Out to daisy chain power

Electrical:

- Multi-voltage operation: AC 100V-240V 50/60Hz
- Power Draw: 60W
- Daisy-chain power link (Up to 17 Ultra Beam Bar 12CW's can be linked @120V and up to 32 can be linked @230V)

Dimensions / Weight:

- Dimensions (LxWxH): 2.96" x 42.60" x 4.2" (75x1082x106.7mm)
- •Weight: 7.50 lbs./ 3.4kg.

Certifications / IP Rating:

- cETLus (Pending), CE, FCC, IP20

Environment:

- Operational Temperature Range: -1°F ~ 113°F (-20°C ~ 45°C)
- Storage Temperature: -22°F ~ 113°F (-20°C ~ 45°C)

What's Included:

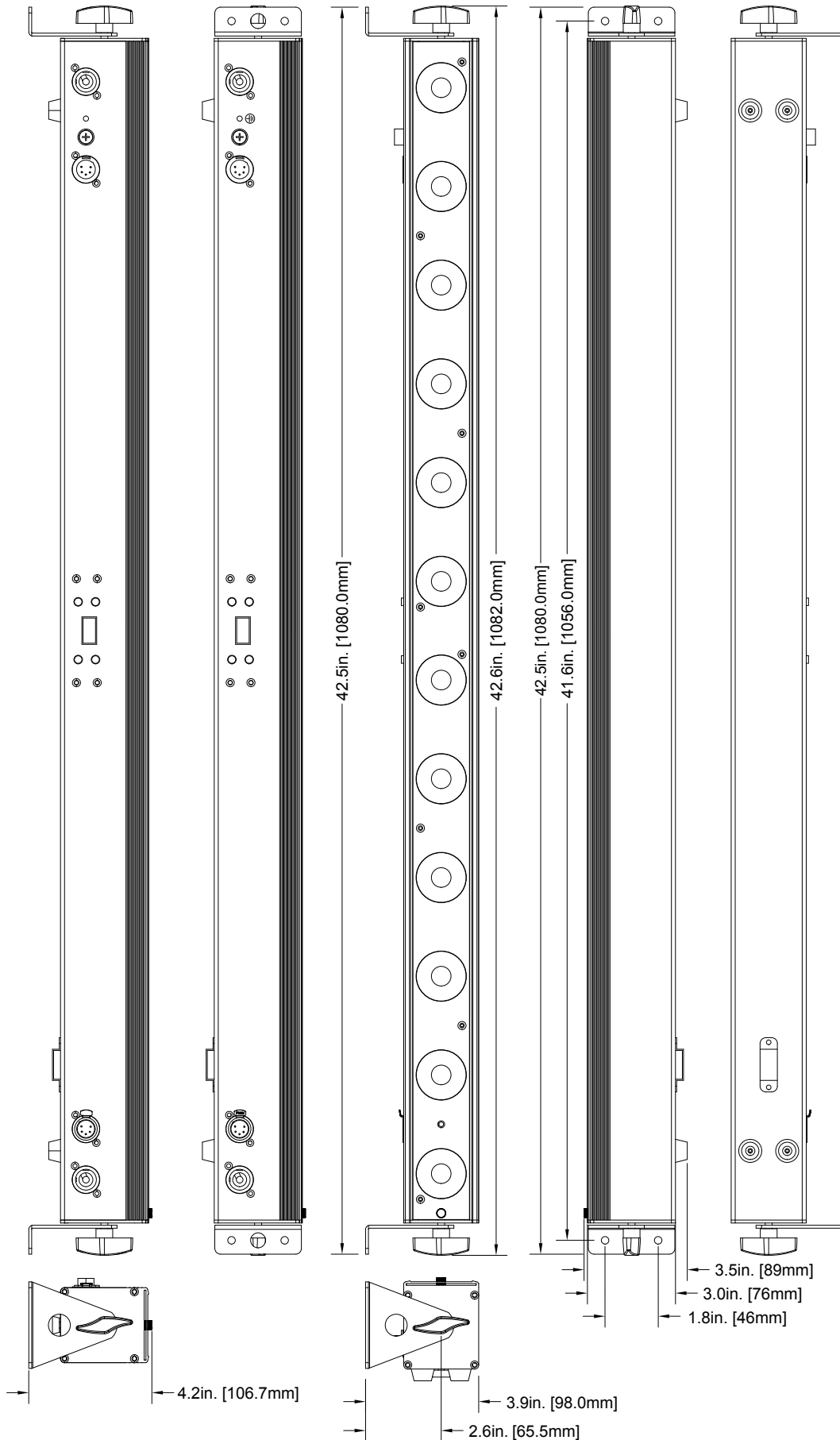
- (1) Indoor Locking Power Cord
- (1) UC-IR
- (1) 5° Beam Filter
- Includes mounting brackets to set on the ground or to mount a clamp to for truss mounting

Optional Accessories:

- (1) 1x40° Linear Diffusion Lens (SKU: UBL912)

DIMENSIONS

Dimensions are not drawn to scale.



OPTIONAL ACCESSORIES

| ORDER CODE | | ITEM |
|---------------|-------------|---|
| US | EU | |
| ULT012 | 12262200080 | ADJ Ultra Beam BAR 12CW |
| UBL912 | | 1x40° Linear Diffusion Lens |
| TRIGGER CLAMP | N/A | Heavy Duty Wrap Around Hook Style Clamp |
| TOU014 | N/A | Accu-Cable Tour Link 5P5 - 5 FT, 5-pin DMX Data Cable |
| | | Additional Cable Lengths Available |



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!

