ENCORE BURST UV IP

User Manual

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Europe Energy Saving Notice

Energy Saving Matters (EuP 2009/125/EC)

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

DOCUMENT VERSION

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

Please check www.adj.com for the latest revision/update of this manual before beginning installation and/or programming.

Date	Document Version	Software Version	DMX Channels	Notes
07/03/19	1	1.1	1/2/3/6	Initial Release.
01/13/23	1.1	N/C	No Change	Updated Format & added IP Tester information

CONTENTS

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.

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.

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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Warning! This unit is intended for indoor use only! Do not expose to rain or moisture!

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

Do not discard the shipping 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 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 of 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 contact, 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 warrant 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**

FEATURES

The ADJ Encore Burst UV IP is a high intensity, IP65 outdoor rated UV Wash. The fixture is constructed of a rugged Die Cast housing. The fixture features a UV LED. It has selectable dimming curves, strobe effect, 4-button LED menu system, 5-pin DMX In/Out plus IP65 power locking IN/Out connections to daisy chain power (rubber protective covers over connections). Wave Length 365nm.

INCLUDED ITEMS

• IP65 Locking Power Cable
• Omega Bracket

WARRANTY REGISTRATION

The fixture 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.

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.

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 luminaires 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 GUIDELINES

THIS FIXTURE IS COMPOSED OF SOPHISTICATED ELECTRONIC COMPONENTS. TO GUARANTEE SMOOTH OPERATION, IT IS IMPORTANT TO FOLLOW ALL INSTRUCTIONS AND GUIDELINES IN THIS MANUAL. ADJ PRODUCTS, LLC IS NOT RESPONSIBLE FOR INJURY AND/OR DAMAGES RESULTING FROM THE MISUSE OF THIS FIXTURE DUE TO THE DISREGARD OF THE INFORMATION PRINTED IN THIS MANUAL. ONLY QUALIFIED AND/OR CERTIFIED PERSONNEL SHOULD PERFORM INSTALLATION OF THIS FIXTURE AND ONLY THE ORIGINAL RIGGING PARTS INCLUDED WITH THIS FIXTURE SHOULD BE USED FOR INSTALLATION. ANY MODIFICATIONS TO THE FIXTURE AND/OR THE INCLUDED MOUNTING HARDWARE WILL VOID THE ORIGINAL MANUFACTURER'S WARRANTY AND INCREASE THE RISK OF DAMAGE AND/OR PERSONAL INJURY. ONLY CERTIFIED PERSONNEL SHOULD PERFORM INSTALLATION OF THIS FIXTURE.

- PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.
- 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 ANY WARRANTY CLAIMS AND/OR REPAIRS.
- DO NOT PLUG FIXTURE INTO A DIMMER PACK!
- NEVER OPEN THIS FIXTURE WHILE IN USE!
- UNPLUG POWER BEFORE SERVICING FIXTURE!
- NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT!
- KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE!
- NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!
- RETINA INJURY RISK - MAY INDUCE BLINDNESS!
- SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!
- MINIMUM DISTANCE TO OBJECTS/SURFACES IS 6.6 FEET (2 METERS)
- **AMBIENT OPERATING TEMPERATURE RANGES FROM -4°F to 113°F (-20°C TO 45°C). DO NOT OPERATE THE DEVICE WHEN AMBIENT TEMPERATURE FALLS OUTSIDE OF THIS RANGE.**
- **MINIMUM DISTANCE TO FLAMMABLE MATERIALS FROM THE SURFACE IS 1.6 FEET (0.5 METER).**
- DO NOT TOUCH the fixture housing during operation. Turn OFF the power and allow approximately 60 minutes for the fixture to cool down before servicing.
- DO NOT shake fixture, and avoid brute force when installing and/or operating fixture.
- DO NOT operate fixture if the power cord is frayed, crimped, damaged and/or if any of the power cord connectors are damaged and do not insert into the fixture securely with ease. NEVER force a power cord connector into the fixture. If the power cord or any of its connectors are damaged, replace it immediately with a new one of the same power rating.
- 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.
- When installing fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, and always install fixture with an appropriately rated safety cable.
- Always disconnect fixture from main power source before performing any type of service and/or cleaning procedure.
- Only handle the power cord by the plug end. Never pull out the plug by tugging the wire portion of the cord.
- During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the lamp and will decrease gradually over time.
- Consistent operational breaks will ensure fixture will function properly for many years.
- ONLY use original packaging and materials to transport the fixture for service.

SAFETY GUIDELINES

⚠ CAUTION

HIGH INTENSITY ULTRAVIOLET LIGHT

UV
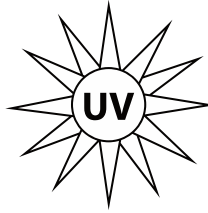
AVOID DIRECT EYE & SKIN EXPOSURE.
WEAR PROPER EYE & SKIN PROTECTION.
SEE MANUAL FOR SAFETY INSTRUCTIONS.

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.

OVERVIEW

LCD Screen
Mode Button
Up Button
Down Button
Enter Button

IP65 5-Pin
DMX In

IP65 5-Pin
DMX Out

Air Valve

IP65 Power In

IP65 Power Out

Safety Cable
Rigging Point
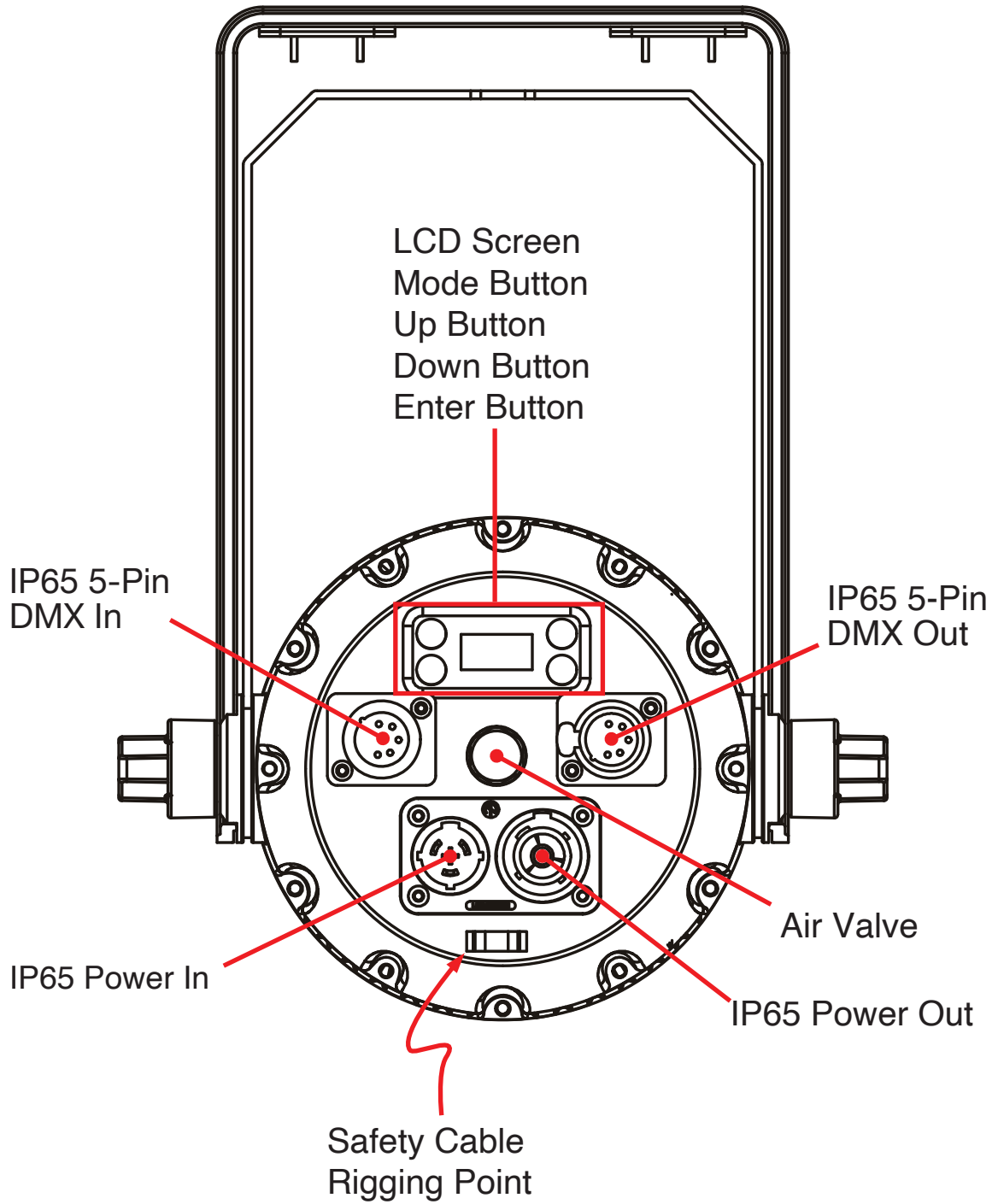
TORQUE SETTINGS FOR SCREWS

ALL SCREWS MUST BE TIGHTENED WITH A TORQUE DRIVER. All screws are Allen Head screws. Please see below for screw locations.

TORQUE DRIVERS (Recommended): UTICA TS-30 (Shown)
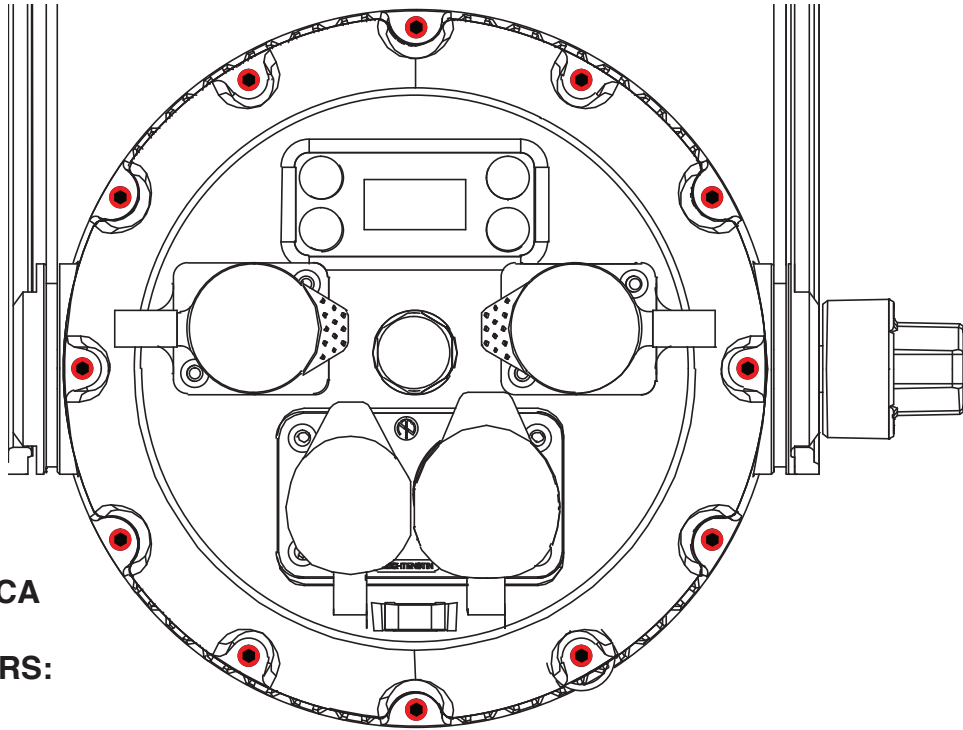
ALTERNATIVE DRIVERS: Proto J6107A Wiha 28887

⚠ CAUTION! DO NOT OVER TORQUE SCREWS AS THIS CAN CAUSE LEAKAGE ISSUES! TO CONFIRM THE IP65 INTEGRITY AFTER MAINTENANCE, TEST THE FIXTURE USING THE ADJ IP TESTER. CONTACT ADJ SERVICE FOR MORE DETAILS.

Encore Burst UV IP Testing Parameters			
Vacuum(KPA)	Hold time(S)	Pressure(KPA)	Hold time(S)
-50KPA	60S	13KPA	60S

IF IN THE UNLIKELY EVENT THAT A PRESSURIZED FIXTURE RESULTS IN CATASTROPHIC LENS FAILURE, EYE PROTECTION MUST BE WORN AT ALL TIMES WHEN USING ADJ IP TESTER, ESPECIALLY WITH FIXTURES FEATURING LARGE GLASS LENSES. ALSO, TO PROTECT HANDS FROM ANY SHARP FRANGIBLE MATERIAL, THE USE OF CUT RESISTENT GLOVES IS ALSO HIGHLY RECOMMENDED.

INSTALLATION

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 FLAMMABLE MATERIALS FROM THE SURFACE IS 1.6 FEET (0.5 METER)

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.

• Ambient operating temperature range is **-4°F to 113°F (-20°C TO 45°C).** Do not operate the fixture when ambient temperature falls outside of this range!

• Fixture(s) should be installed outside walking paths, seating areas, or areas were 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.

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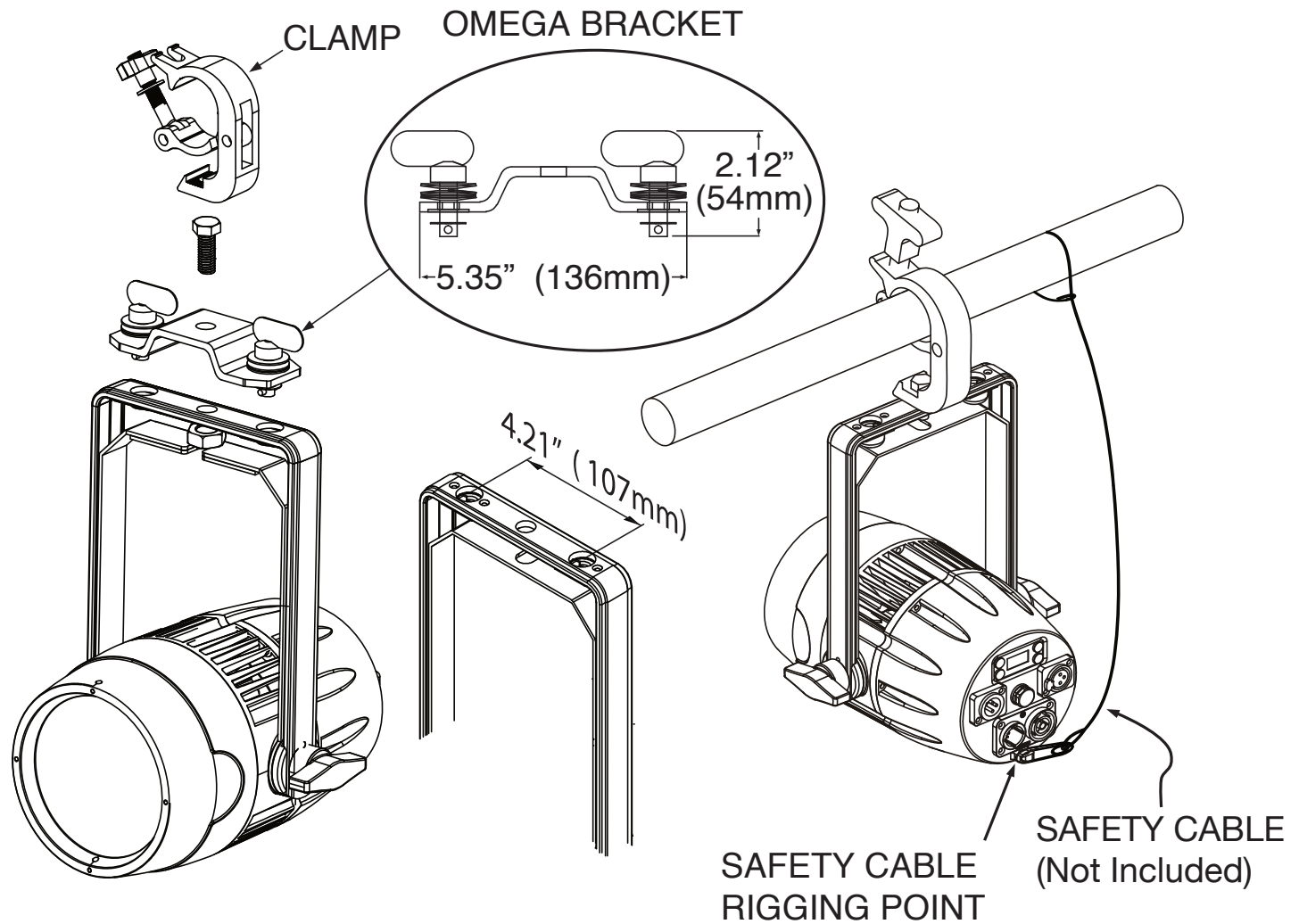
RIGGING

Overhead rigging requires extensive experience, including calculating working load limits, knowledge about installation materials 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

OMEGA BRACKETS

If mounting the truss clamp to an Omega Bracket, insert the posts of the Omega Bracket into the matching holes on the Scissor Yoke. Secure the Omega Bracket by turning each quick-lock fastener ¼-turn clockwise; making sure the fasteners are completely locked.

CLAMP

OMEGA BRACKET

2.12" (54mm)

5.35" (136mm)

4.21" (107mm)

SAFETY CABLE RIGGING POINT

SAFETY CABLE (Not Included)

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.

MOUNTING THE FIXTURE ON A TRUSS USING CLAMPS WITH OMEGA BRACKETS

When mounting the fixture to a truss, be sure to secure an appropriately rated professional grade rigging clamp to the the center hole of the **Scissor Yoke**, or the center hole of the included **Omega Bracket**, using an M10 or M12 screw. The fixture provides built-in rigging point for a **SAFETY CABLE** (not included). Be sure to only use the designated rigging points for the safety cable and never secure a safety cable to a carrying handle.

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INSTALLATION

CONNECTIONS

Ensure all connections and end caps are properly sealed with dialectric grease (available at most electrical suppliers) to prevent water corrosion and/or electrical short circuit.

To maintain IP65 rating integrity and prevent water from entering the fixture, all unused connection rubber caps must be sealed. Only IP65 rated power and date cables must be used.
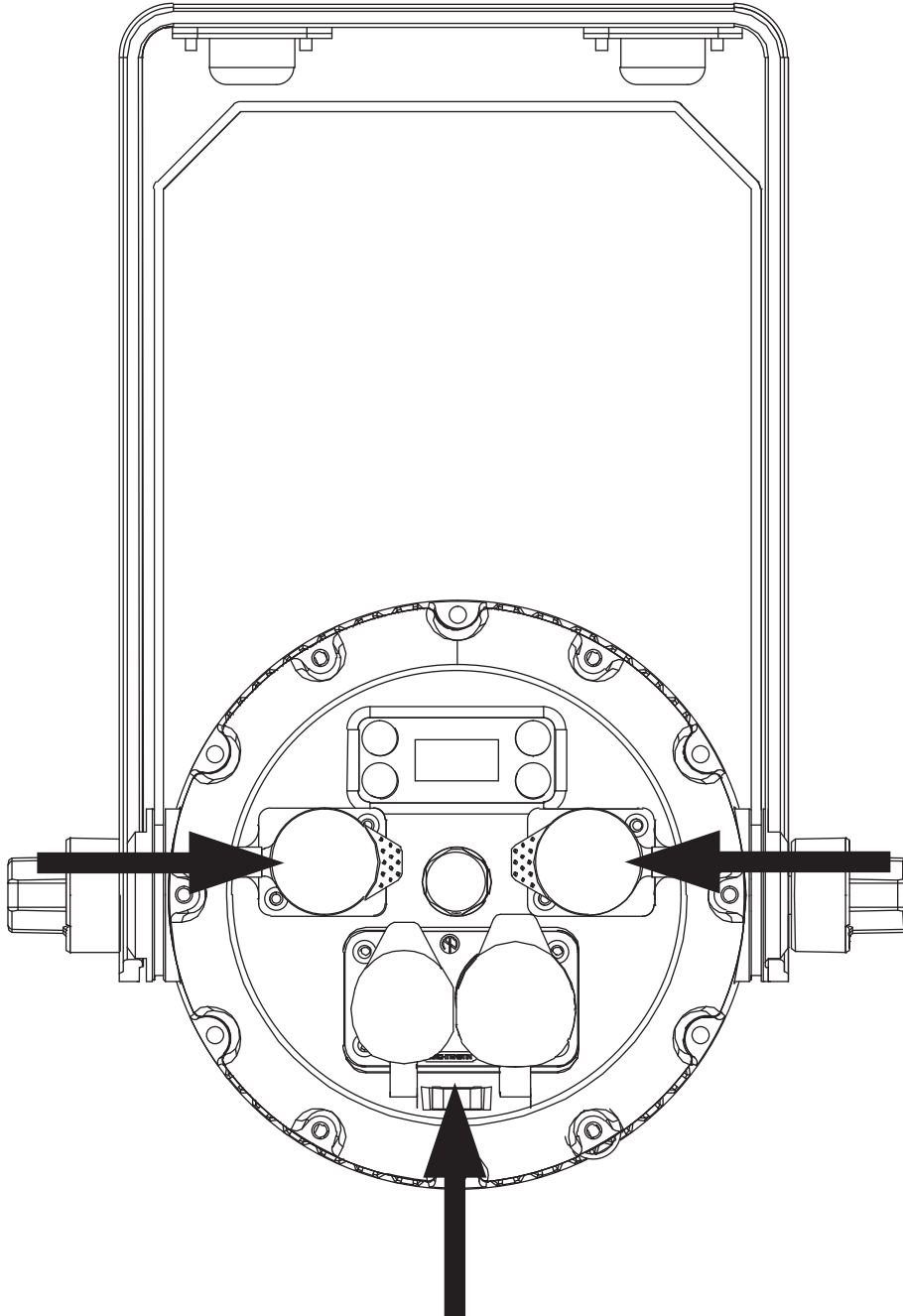
INSTALLATION

POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

External sources of light beams from direct sunlight, moving head lighting 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 of optics, dichroic color filters, glass and metal gobos, prisms, animation wheels, frost filters, irises, shutters, motors, belts, wiring, discharge lamps, and LEDs.

This issue is not unique to ADJ lighting fixtures, but rather it is a common issue with lighting fixtures from all manufacturers. Although there is no true way to completely prevent this issue from occurring, the guidelines below can reduce the risk of any potential damage 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 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.
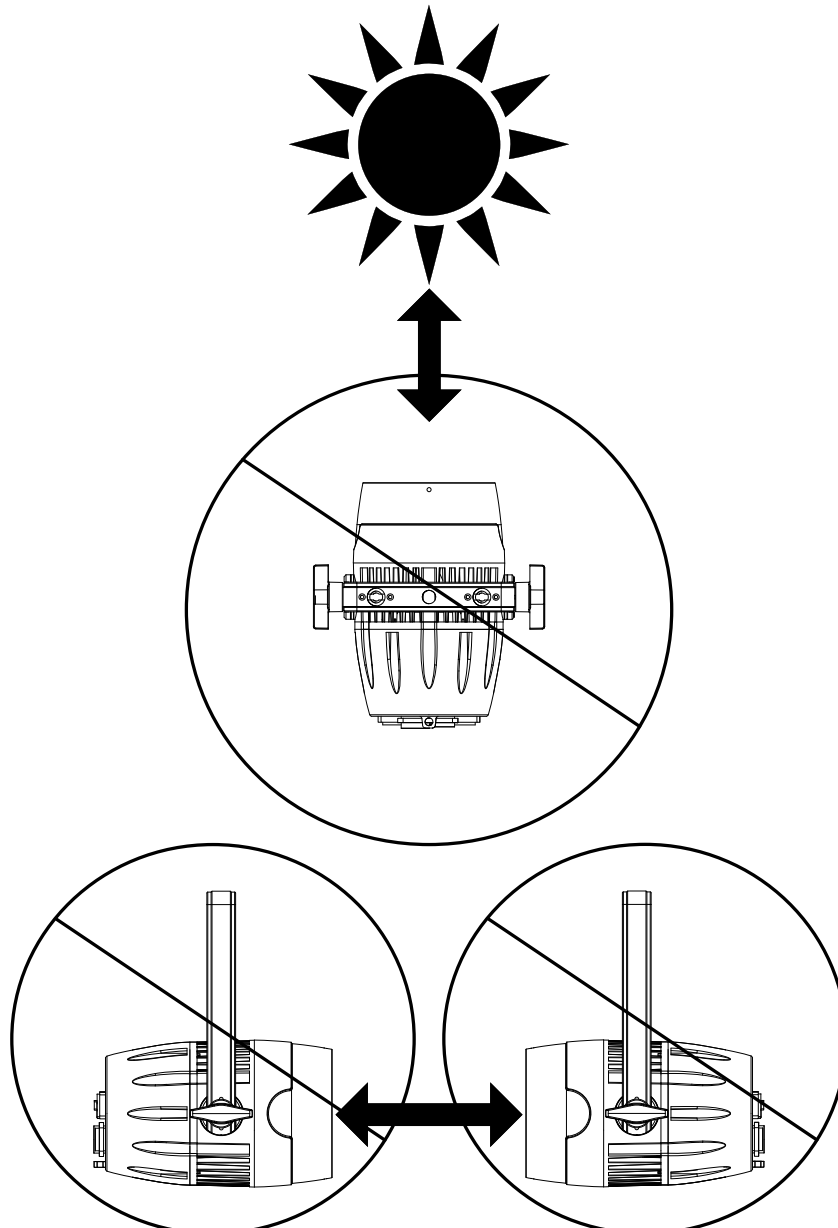
SYSTEM MENU

The fixture includes an easy to navigate system menu control panel display where all necessary settings and adjustments are made. (See image below) During normal operation, pressing the **MENU** button once will access the fixture's main menu. Once in the main menu, you can navigate through the different menu's with the **UP**, **DOWN**, and **MENU** buttons. When you reach a field that requires adjusting, press the **ENTER** button to access that field and use the **UP** and **DOWN** buttons to adjust the field. Pressing the **ENTER** button once more to confirm your setting. You may exit the menu's at any time without making any adjustments by pressing the **MENU** button. If there are no changes/ adjustments made within 10 seconds, the unit will revert back to the setting made under "**No DMX State**".
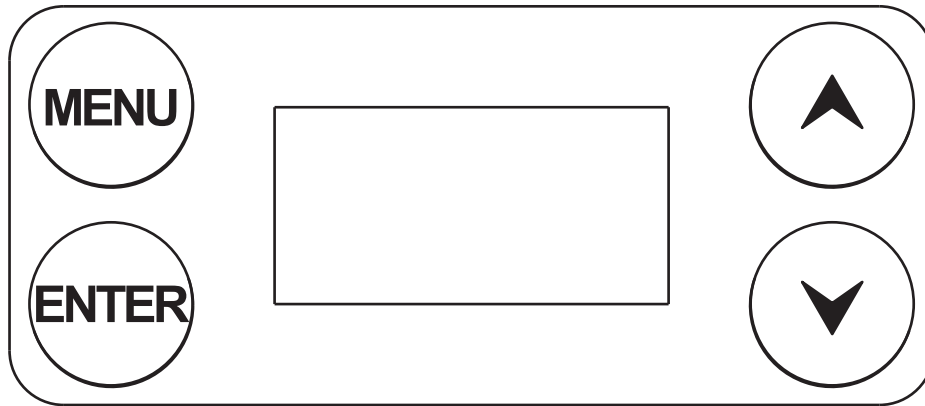
SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in **BOLD**)			DESCRIPTION
DMX Address	001-XXX			DMX Addressing
DMX CH Mode	1Ch / 2Ch / 3Ch / 6Ch			DMX Channel Mode Selection
No DMX State	**Hold Last** / Blackout / Manual			DMX Lost Status
DIM Modes	**Standard**/Stage/TV/Architectural/Theatre/ Stage2			Dimming Curve Modes
	Dim Speed: 0.1-0.9s ~ 1-10S			Dimming Speed
LED Refresh Rate	900Hz / 1000Hz / 1100Hz / **1200Hz** / 1300Hz / 1400Hz / 1500Hz / 2500Hz / 4000Hz / 5000Hz / 6000Hz / 10000Hz / 15000Hz / 20000Hz / 25000Hz			LED Refresh Setting
Gamma	1.0/2.0/2.2/2.4/2.6/2.8			Gamma Brightness
Display	Backlight	ON/**OFF**		Backlight Control
	Display Lock	**ON**/OFF		Display Control Lock
Service	**Passcode = 50**	Effect Adjust - **Pass Code = 50** UV LED 000 - 255		Calibration
				Factory Settings
Manual Control	Dimmer 000 - 255			Manual Control
	Strobe 000 - 255			
Information	Fixture Life Time	Power On Time - XXXXXX Hours		Total Running Time (Not Resettable)
		P-On Time-R - XXXXXX Hours		Total Running Time (Resettable)
		P-On Time Reset - **Pass Code = 50**		Reset Total Running Time
	Total LED Time	LED On Time - XXXXXX Hours		Total LED On Running Time (Not Resettable)
		LED On Time-R - XXXXXX Hours		LED On Running Time (Resettable)
		LED Time Reset - **Pass Code = 50**		Reset LED Running Time
	Fixture Temps	Current - XXX°		Reset LED Running Time
		Max Resettable - XXX°		Current Temperature
		Max Not Resettable - XXX°		Maximum Temperature(2) Reached (Not Resettable) (See Note 2)
		Rst Temp Histor - **Pass Code = 50**		Reset Temperature
	DMX Values (See Note 3)	Dimmer 000 - 255		Current DMX Values
		Strobe 000 - 255		
	Software Version	X.X		Current Software Version

Notes:
1. Current Maximum Temperature - Maximum fixture temp. that has been recorded, before reset and after reset.
2. Maximum Temperature - Overall maximum fixture temp. that has been recorded. (Not Resettable).
3. DMX value options depend on the DMX Channel mode the fixture is set to.

SYSTEM MENU

SET ADDRESS - In this menu you can find and set your desired DMX address.

DMX CHANNEL MODE - In this menu you can find and set your desired DMX channel mode.

NO DMX STATUS - This menu setting is used as a precaution mode in case the DMX signal is lost or interrupted. The operating mode chosen in this menu is the running mode the fixture will go into when the DMX signal is lost. Listed below are the 3 modes.
- **Hold Last** - This setting will have the fixture stay in the last DMX setup.
- **Blackout** - This setting will have the fixture automatically go into stand by mode.
- **Manual** - This setting will go into the current manual control set up.

DIM MODES - In this menu you are able to select your desired dimmer mode and adjust the dimming speed time.

LED REFRESH RATE - In this menu you are able to select your desired LED refresh rate.

GAMMA - In this menu you are able to select your desired gamma setting.

DISPLAY - In this menu you you are able to activate/deactivate the display blackout and activate/deactivate the display lock.

SERVICE - In this menu you are able to access and adjust/change: the calibration (effect adjust) and restore the factory settings.

MANUAL CONTROL - This menu is for manual testing and manual control. The dimmer and strobe can be tested/adjusted. The fixture must be set to "**Manual**" under "**No DMX State**".

FIXTURE LIFE TIME
- **Power On Time** -The **TOTAL** power ON running time of the unit is displayed. This time **CANNOT** be reset.
- **P-On Time-R** - The CURRENT power ON running time of the unit is displayed. This running time may not be the same as the **TOTAL** power ON running time displayed under "**Power On Time**". This time **CAN** be reset. **NOTE: The displayed time represents the current power ON time since the last reset.**
- **P-On Time-Reset** - Reset the **CURRENT** power ON running time that is displayed under "**P-On Time-R**".

TOTAL LED TIME
- LED On Time - The **TOTAL** LED ON time is displayed. This total LED ON time **CANNOT** be reset.
   NOTE: The displayed time represents the TOTAL LED ON time.
- **LED On Time-R** - The **CURRENT** LED ON running time is displayed. This running time may not be the same as the total LED ON time displayed under "**LED On Time**". This total LED ON time CAN be reset. **NOTE: The displayed time represents the current LED ON time since the last reset**.
- **LED On Time Reset** - With this function you can reset the **CURRENT** LED ON time that is displayed under "**LED On Time-R**".

FIXTURE TEMPS
- **Current** - The current unit temperature is displayed.
- **Max Resettable** - Maximum temperature that has been recorded, before reset and after reset. This temperature may not be the same as the temperature displayed under "**CURRENT**" or "**MAX NOT RESETTABLE**". This temperature **CAN** be reset.
   NOTE: The displayed temperature represents the highest temperature the fixture has reached since the last reset.
- **Max Not Resettable** - Overall maximum temperature that has been recorded. This temperature **CANNOT** be reset, and could continue rise.
- **Rst Temp History** - Reset the "**Max Resettable**" temperature.

DMX VALUES - Displays the DMX values of any DMX channel that is currently in use. **NOTE: DMX value options depend on the current DMX channel mode setting**.

SOFTWARE VERSION - The current software version is displayed.

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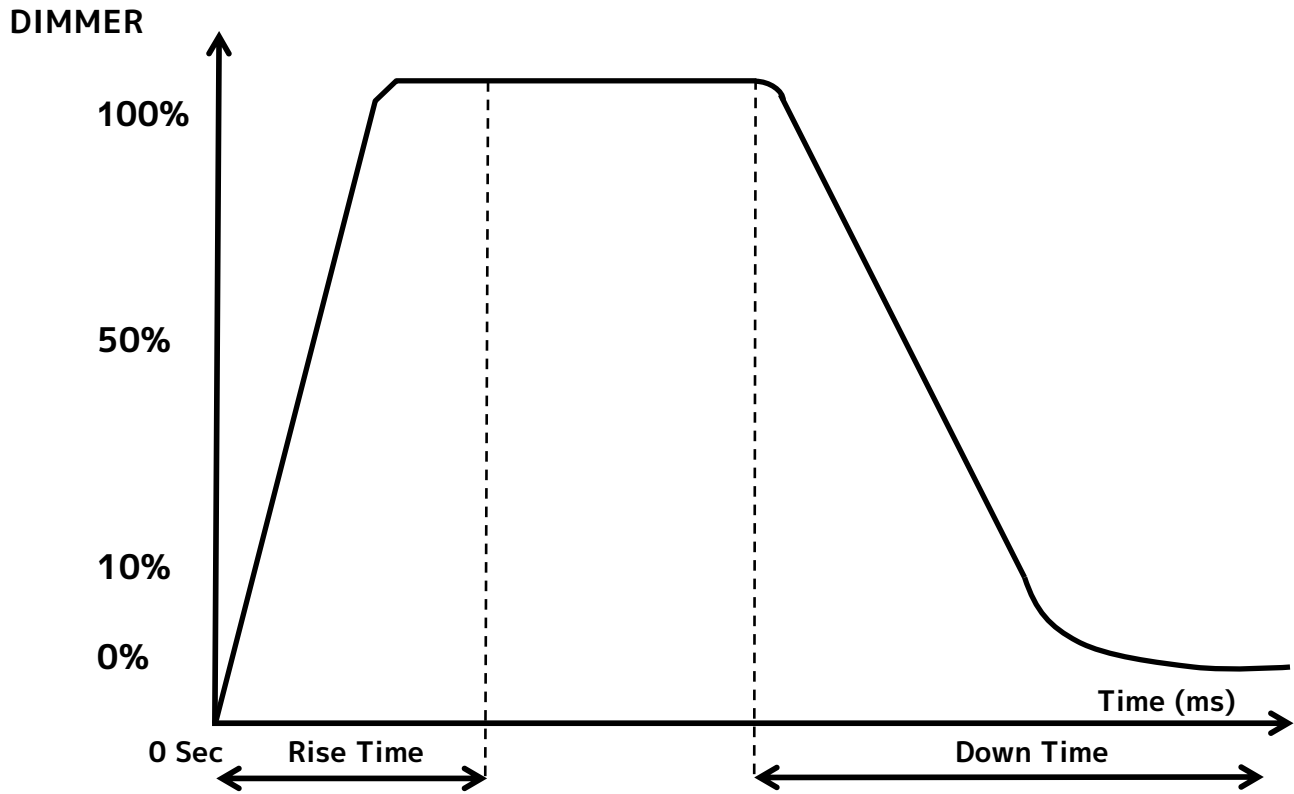
	0 sec Fade Time		1 sec Fade Time	
Dimming Curve **Ramp Effect**				
	Rise Time (ms)	Down Time (ms)	Rise Time (ms)	Down Time (ms)
Standard (default)	0	0	0	0
Stage	780	1100	1540	1660
TV	1180	1520	1860	1940
Architectural	1380	1730	2040	2120
Theatre	1580	1940	2230	2280
Stage 2	0	1100	0	1660

LINEAR

SQUARE

INVERSE SQUARE

S-CURVE
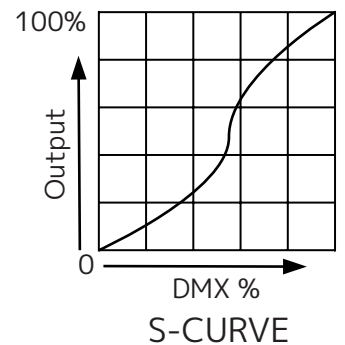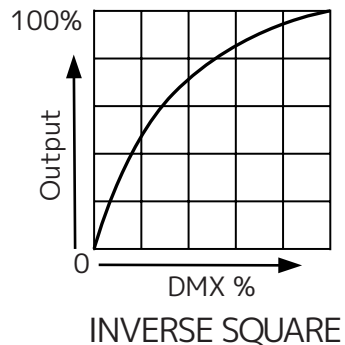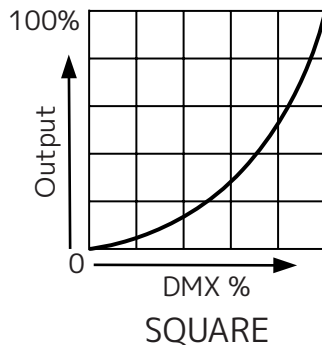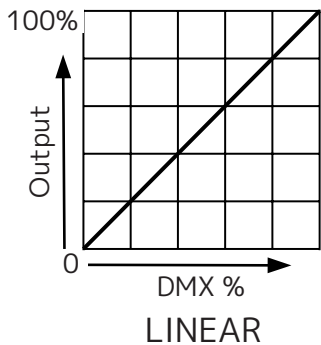
DMX SETUP

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 COB Cannon LP200ST can be controlled via DMX-512 protocol, and features multiple DMX channel modes. Your unit and your DMX controller can operate with either a 3-pin or 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 professional 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.

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.
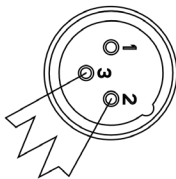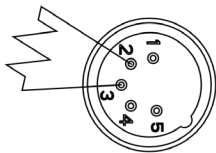
A DMX512 terminator reduces signal errors, avoiding most signal reflection interference. Connect PIN 2 (DMX-) and PIN 3 (DMX+) of the last fixture in series with a 120 Ohm, 1/4 W Resistor to terminate the DMX512.

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 starting DMX address is configured by setting the correct DMX address on the control panel display on the fixture.

You can set the same starting address for multiple fixtures, or set different addresses for each individual fixture. Setting multiple fixtures to the same DMX address will cause all those 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 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.

In the case of the Encore Burst UV IP, when in 6 channel mode you should set the starting DMX address of the first unit to 1, the second unit to 7 (6 + 1), the third unit to 13 (7 + 6), and so on. (See 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
2 Channels	1	3	5	7
3 Channels	1	4	7	10
6 Channels	1	7	13	19

DMX TRAITS

CHANNEL				DMX VALUE	FUNCTION
1 CH	**2 CH**	**3 CH**	**6 CH**		
1	1	1	1	000-255	**MASTER DIMMER** 0%-100%
	2	2		000-255	**DIMMER FINE** 0%-100%
					SHUTTER & STROBING
				000-031	LED Off
				032-063	LED On
				064-095	Strobing Slow - Fast
		3	3	096-127	LED On
				128-159	Pulse Strobing
				160-191	LED On
				192-223	Random Strobing Slow - Fast
				224-255	LED On
					DIMMER MODES
				000-020	Standard Stage
				021-040	Stage
				041-060	TV
				061-080	Architectural
				081-100	Theatre
				101-120	Stage 2
					DIMMER DELAY TIME
				121	0.1 Sec.
				122	0.2 Sec.
				123	0.3 Sec.
				124	0.4 Sec.
				125	0.5 Sec.
				126	0.6 Sec.
				127	0.7 Sec.
				128	0.8 Sec.
				129	0.9 Sec.
				130	1.0 Sec.
				131	1.5 Sec.
				132	2.0 Sec.
				133	3.0 Sec.
				134	4.0 Sec.
				135	5.0 Sec.
				136	6.0 Sec.
				137	7.0 Sec.
				138	8.0 Sec.
				139	9.0 Sec.
				140	10 Sec.
				141-255	Default to Unit Setting

DMX TRAITS

CHANNEL				DMX VALUE	FUNCTION
1 CH	2 CH	3 CH	6 CH		
			5		REFRESH RATE
				000-015	Default to Unit Setting
				016-030	900Hz
				031-045	1000Hz
				046-060	1100Hz
				061-075	1200Hz
				076-090	1300Hz
				091-105	1400Hz
				106-120	1500Hz
				121-135	2500Hz
				136-150	4000Hz
				151-165	5000Hz
				166-180	6000Hz
				181-195	10000Hz
				196-210	15000Hz
				211-225	20000Hz
				226-255	25000Hz
			6		GAMMA
				000-020	Default to Unit Setting
				021-040	1.0
				041-060	2.0
				061-080	2.2
				081-100	2.4
				101-120	2.6
				121-130	2.8
				131-255	No Function

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 device to be managed, modified, and monitored remotely (hence, remote device management). This protocol is ideal for fixtures installed in locations that are 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 it's 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
0x1900	Random based on each fixture IC	0x1FAA	0x0102(1CH) 0x0202(2CH) 0x0302(3CH) 0x0402(6CH)

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	DISCOVERY COMMAND	SET COMMAND	GET COMMAND
DISC_UNIQUE_BRANC H	V	V	V
DISC_MUTE	V	V	V
DISC_UN_MUTE	V	V	V
DEVICE_INFO	V		
SOFTWARE_VERSION_ LABEL			V
DMX_START_ADDRESS		V	V
IDENTIFY_DEVICE		V	V
DEVICE_MODEL_DESC RIPTION			V
COMMS_STATUS	V	V	
QUEUED_MESSAGE	V		V
STATUS_MESSAGES	V		V
STATUS_ID_DESCRIPTI ON	V		V
CLEAR_STATUS_ID	V	V	
PRODUCT_DETAIL_ID_L IST	V		
MANUFACTURER_LABE L	V		V
DEVICE_LABEL	V	V	V
BOOT_SOFTWARE_VER SION_ID			V
DMX_PERSONALITY		V	V
DMX_PERSONALITY_D ESCRIPTION	V		V
SLOT_INFO			V
SLOT_DESCRIPTION			V
DEFAULT_SLOT_VALUE			V
SENSOR_DEFINITION	V		V
SENSOR_VALUE	V		V
DEVICE_HOURS			V
RESET_DEVICE		V	
DMX_STATE		V	

DAISY CHAIN POWER LINKING

These units have the capability to be daisy chained together via the power in/out ports. **7 units is the maximum number of that can be linked together in this manner.**

DO NOT EXCEED THE NUMBER OF UNITS LISTED ABOVE.

DO NOT MIX MAKE AND MODEL TYPES WHEN DAISY CHAINING! All units that are connected in this manner must be of the same make and model type.

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:
- 1x 50W C.O.B. Ultraviolet LED (wavelength: 365nm)
- 50-degree Beam Angle
- 360nm wavelength
- 50,000 Hour Average LED Life

Features:
- Control Protocol: DMX & RDM
- DMX Modes: 4 (1/2/3/6)
- •Dim Modes: 6 Presets (Standard, Stage, TV, Architectural, Theatre & Stage 2)
- Dim Speed control (0.1~10 Seconds)
- Dimming: 0 - 100%
- Strobe & pulse control
- Adjustable LED Refresh Rates (900~25k Hz)
- Adjustable Gamma Settings (2.0-2.8)
- With Wired Digital Communication Network
- Display: OLED display with 4-button touch menu

Connections:
- Data Input: IP65 rated 5pin DMX In/Out
- Power Input: IP65 power locking In/Out (with protective rubber caps)
- Safety Cable Loop
- Scissor yoke with Omega bracket attachment

Control:
- RDM (Remote Device Management)

Electrical:
- 100-240V 50Hz/60Hz (Auto Sensing)
- Max Power Consumption: 63W

IP65 Rated:
- Outdoor Rated: protects from dust, sand, moisture, liquid. 6 (Protection against Dust); 5 (Protection against Water)
- Please note: you must use IP65 data and power cables in order for this fixture to be IP65 outdoor rated.

Dimensions / Weight:
- Length: 9.21" (234mm)
- Width: 9.8" (249mm)
- Height: 12.12" (308mm)
- Weight: 8.1 lbs. (3.6kg)

What's Included:
- 1x Omega Bracket
- 1x IP65 power locking power cable

Approvals:
- cETLus approved (Control #4000358)

Specifications and manual are subject to improvement without prior written notice.

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DIMENSION DRAWINGS

Dimension drawings not to scale.

9.8" (249mm)

9.21" (234mm)

12.12" (308mm)

6.0" (153mm)