# VARI✳LITE

# AURORA STRIP 4

## USER MANUAL

# INTRODUCTION

## OUR GOAL

We are committed to providing you the highest quality in customer service. Our comprehensive resources are available to help your business succeed and ensure you get the full benefit of being a Vari-Lite customer.

### TECHNICAL SUPPORT

Our Service and Support team is tasked with online and field support, repair, demo, commissioning, maintenance contracts, and technical training for fixtures and systems. In addition, this team plays a large role in a Systems sales, responsible for administering final commissioning, record-keeping, and organizing services. Refer to the back cover of this User Manual for contacts in your region or visit **www.vari-lite.com/support**.

### CUSTOMER SERVICE

Customer Service is responsible for boxed goods and spare parts quotations, order entry and fulfilment, project delivery, lead times, and general account management. They also manage all after sales warranty fulfilment, RGA, and repairs invoicing in tandem with our After Sales Service & Support team. Visit our website to find a customer service agent in your region.

### ADDITIONAL DOCUMENTATION

Additional product documentation, including DMX maps, software, and photometric reports, are available for download on our website.

For more information on installing DMX512 control systems, the following publication is available for purchase from the United States Institute for Theatre Technology (USITT), "Recommended Practice for DMX512: A Guide for Users and Installers, 2nd edition" (ISBN: 9780955703522).

USITT Contact Information:

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> Syracuse, New York 13210-1844 USA
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> Website: www.usitt.org

## ABOUT THIS DOCUMENT

Read all instructions before installing or using this product. Retain this User Manual for future reference.

Additional product information and descriptions may be found on the product data sheet(s) which can be downloaded from the website at **www.vari-lite.com**.

This User Manual provides necessary information regarding safety, installation, operation and routine maintenance for Aurora Strip 4. Familiarizing yourself with this information will help you to get the most out of your product.

**WARNING:** It is important to read ALL accompanying safety and installation instructions to avoid damage to the product and potential injury to yourself or others.

# SAFETY WARNINGS AND NOTICES

Read this user manual in full before attempting to install, operate or maintain the fixture to which it relates. This user manual is intended to provide general guidance to such suitably qualified personnel. Installation and operation of the fixture are to be performed by qualified personnel only.

When using electrical equipment, basic safety precautions should always be followed including the following:

**READ AND FOLLOW ALL SAFETY INSTRUCTIONS.**

- For indoor, dry location use only. Do not use outdoors unless fixture is suitably IP rated.
- Use safety tether when mounting.
- Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.
- Not for residential use. Do not use this equipment for other than intended use.
- Note distance requirement(s) from combustible materials or illuminated objects. Do not mount near gas or electric heaters.
- Install only in locations with adequate ventilation. Ensure sure that ventilation slots are not blocked.
- Ensure that the voltage and frequency of the power supply match the power requirements of the fixture.
- The fixture must be earthed/grounded to the appropriate conductor.
- Do not operate fixture outside the specified ambient temperature range.
- Do not connect the fixture to any dimmer pack.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition and void warranty.
- Refer service to qualified personnel. This fixture contains no user serviceable parts.
- Prior to first use, carefully inspect fixture to ensure no damage has occurred during shipping.
- Materials used in the manufacturing process can cause strong odors when the product is new. These odors dissipate over time.
- Prior to each use, carefully inspect power cables and replace any damaged cables.
- Exterior surfaces of the luminaire will be hot during operation. Take appropriate precautions.
- Continuous use of the fixture may shorten the lifespan. Power down the fixture when not in use.
- Do not cycle power on and off repeatedly. Disconnect mains power if the fixture is not used for an extended period.
- Clean fixtures regularly, particularly when working in a dusty environment.
- Never touch power cables or wires while the fixture is powered on.
- Avoid entangling power wires with other cables.
- In the event of a serious operating problem, immediately discontinue using the fixture.
- It is hazardous to operate luminaires without lens or shield. Shields, lenses, or ultraviolet screens shall be changed if they have become visibly damaged to such an extent that their effectiveness is impaired, for example, by cracks or deep scratches.
- Original packing materials can be reused for transporting the fixture.
- Do not look directly at the LED light beam while the fixture is on.
- This is a Class A product. In a domestic environment this product may cause radio interference, in which case, the user may be required to take adequate measures.
- The light source contained in this luminaire shall only be replaced by the manufacturer or service agent or similarly qualified person.

**SAVE THESE INSTRUCTIONS.**

WARNING: Refer to National Electrical Code® and local codes for cable specifications. Failure to use proper cable can result in damage to equipment or danger to personnel. Caution Against Direct Sunlight Through Front Lens Assembly

## CAUTION AGAINST DIRECT SUNLIGHT THROUGH FRONT LENS ASSEMBLY

The design and nature of the front lens assembly in Vari-Lite LLC luminaires is to efficiently focus the light energy from the luminaire's lamp for maximum light output.

- When the front lens assembly is exposed to direct sunlight or intense light from neighboring fixtures, the lens will collect and intensify this light and focus it back into the fixture. Intense sunlight or beams from other fixtures can cause damage to internal assemblies contained within the fixture.
- When fixture is not in use and direct sunlight or other intense light is present, position luminaires so their front lens assembly it not directly exposed to the light source.

## CAUTION AGAINST POWERING LUMINAIRES FROM DIMMER CIRCUITS

It is not recommended to power any Vari-Lite LLC luminaire from a dimmer - even in 'NONDIM' mode. Dimmer and non-dim modules are not suitable sources of power because their output modifies the AC wave form. This may work for a short time, but eventually results in power problems, luminaire mis-operation and/or failure.

- When using a power distribution rack, do not use dimmer or non-dim modules to power any Vari-Lite LLC luminaire. Damage to the luminaire can occur.
- Using a dimmer or non-dim module to power your Vari-Lite LLC luminaire will void your luminaire's warranty.

## CAUTION AGAINST THE USE OF THIRD PARTY PARTS OR ACCESSORIES

- Heat and heat distribution are important factors when operating Vari-Lite LLC luminaires. Vari-Lite LLC luminaires are designed to dissipate heat efficiently and safely. Any blockages or obstructions, such as aftermarket baffles, covers, enclosures, etc. can interrupt the luminaire's ability to dissipate heat properly and can damage the luminaire.
- Vari-Lite LLC cannot be responsible for issues arising from non-approved parts and accessories installed on or used with any Vari-Lite LLC product. Customers of such products should contact the manufacturer directly for assistance and support.

# TRANSPORTING LUMINAIRES

When shipping or transporting luminaires, Vari-Lite LLC recommends that the luminaire(s) be sufficiently protected against any (including, but not limited to) shock, vibration, drops, jarring, exposure to the environment, etc.

Failure to sufficiently protect any Vari-Lite LLC luminaire during shipping or transportation will result in damage and void the luminaire's warranty. Vari-Lite LLC will not be responsible for any shipping damage or breakage of any product under any circumstances. Vari-Lite LLC will not be responsible for any third party case manufacturer's cases.

**NOTE:** As with all automated luminaires, proper handling and suitable protective shipping cases should be used when transporting fixtures to reduce the risk of damage.

## TRANSPORTATION AND SHIPPING CASE REQUIREMENTS

Cases to transport Vari-Lite LLC luminaires should meet the following loading requirements:

- Luminaire head, yoke, and enclosure sub-assemblies shall be equally supported and constrained where no one sub-assembly (head, yoke, or enclosure) fully supports the entire mass of the luminaire.
- The interior of the case shall be of high quality and uniform density foam. The foam shall be of the same type and density throughout as to equally and uniformly support loading at every contact surface.
- The case shall, when laid on any of its six (6) surfaces, maintain the loading requirements outlined above.
- All cases not meeting the aforementioned loading requirements, with wheels, shall have markings on the exterior of the case that the unit is to be transported on it wheels only (e.g. "Case must be transported and remain [at all times] on its wheels").

# COMPLIANCE NOTICE

## FCC DECLARATION OF CONFORMITY

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when this equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with Vari-Lite system, service, and safety guidelines, may cause harmful interference to radio communications.

As tested under this standard:

**FCC 47CFR 15B clA*CEI**
Issued:2009/10/01 Title 47 CFR Part 15 Subpart B Unintentional Radiators Class A

Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his/her own expense.

## EU DECLARATION OF CONFORMITY

We, Vari-Lite LLC., 10911 Petal Street, Dallas, Texas 75238, declare under our responsibility for the products contained herein are in conformity with the essential requirements of the following European Directives and harmonized standards:

**Low Voltage Director (LVD), 2006/95/EC**
EN 60589-2-17:1984+A1:1987+A2:1990 used in conjunction with 60598-1:2008/A11:2009

**Electromagnetic Compatibility Directive (EMC), 2004//108/EC**
EN 55022:2010, EN55024:2010

# HOW TO OBTAIN WARRANTY SERVICE

A copy of the Limited Warranty card was included in the shipping package for this product.

To obtain warranty service, please contact customer service at 1-214-647-7880, or **entertainment.service@ signify.com** and request a Return Material Authorization (RMA) for warranty service. You will need to provide the model and serial number of the item being returned, a description of the problem or failure and the name of the registered user or organization. If available, you should have your sales invoice to establish the date of sale as the beginning of the warranty period. Once you obtain the RMA, pack the unit in a secure shipping container or in its original packing box. Be sure to clearly indicate the RMA number on all packing lists, correspondence, and shipping labels. If available, please include a copy of your invoice (as proof of purchase) in the shipping container.

With the RMA number written legibly on or near the shipping address label, return the unit, freight prepaid, to:

> Vari-Lite LLC
> Attention: Warranty Service (RMA# _____)
> 10911 Petal Street
> Dallas, Texas 75238
> USA

As stated in the warranty, it is required that the shipment be insured and FOB our service center.

**IMPORTANT!** When returning products to Vari-Lite for repairs (warranty or out-of-warranty) from a country other than the USA, "Vari-Lite LLC", must appear in the address block as the Importer of Record (IOR) on all shipping documentation, Commercial Invoices, etc. This must be done in order to clear customs in a timely manner and prevent returns.

# 1  DESCRIPTION

## FEATURES

• High output LED Strip with 4- and 12-cell versions - modern theatrical strip with quality you can trust.

• High CRI RGBALC Color System with SmartColor Control - wide range of vivid color options that can be programmed using CYM.

• Independent color mixing and temperature controls - match color pallet to color temperature without manual adjustment for simpler programming.

• Pixel control of each cell - easily create split colors or gradients.

• Fanless design - perfect for use in quiet environments.

• Adjustable frequency to exceed camera frame rates - camera-friendly fixtures for IMAG, event recordings, or TV and film applications.

• Adjustable beam angle - optional lens accessory kit offers wider and shaped beams.

For detailed product information, please refer to the Product Guide at https://www.vari-lite.com/global/products/aurora-4

Download the product datasheet from the website at **www.vari-lite.com** for the full technical specifications.

## COMPONENTS

The document provides installation and operation instructions for the following products:
• Aurora Strip 4

Read all instructions before installing or using this product. Retain this manual for future reference. Additional product information and descriptions may be found on the product specification sheet.

### INCLUDED ITEMS

Each Aurora Strip 4 luminaire includes the following items:
• Aurora Strip 4
• Quick Start Guide

Aurora Strip 4

Quick Start Guide

Power Connector

WARRANTY CARD

# 2  INSTALLATION

### MOUNTING
Due to the lack of clerance, the optional Omega Brackets (3002000390) must be used when hanging the fixture. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. Always ensure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Always use a safety cable that can hold up to 12 times the weight of the unit when installing the fixture. The luminaire must be mounted by professionals.

Truss Hook
Sold Seperatly

Omega
Bracket
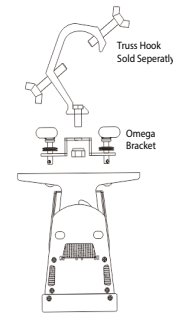
## CONNECTING DATA AND POWER

A maximum of 32 luminaires may be connected in any one DMX data link.

A maximum of 9 luminaires may be connected in 120V, 60Hz.

A maximum of 16 luminaires may be connected in 230V, 50Hz.

**NOTE:** This maximum limit applies to the luminaire "daisy chain" only. Your system or console may require fewer luminaires on a single data link path. Consult your console documentation for more information.

**To connect power and data:**

Step 1.    Connect data cable from console to first luminaire in chain at DATA IN connector.

Step 2.    If required, connect additional data cables from DATA THRU connectors to DATA IN connectors of remaining luminaires in link.

Step 3.    At last luminaire in link, install male termination connector at DATA THRU connector. (Luminaires and other devices on the same DMX chain may not function properly without termination.)

Step 4.    Connect AC Input Cable connector to power input source.

Step 5.    Dress AC input and data cables and secure them so that they will not interfere with luminaire head and yoke movement.

## ACCESSORY LENS FITTING

**To install an accesorry lens on the Aurora Strip 4:**

Step 1.    At side, remove 2 x screws and remove the cover, which is teathered to the frame.

Step 2.    Slide the lens assembly from the body of the fixture

Step 3.    Remove frost filter between the front and secondary lens. Loosen the screws on the front of the lens assembly if needed.

Step 4.    Insert new filter between front and secondary lens. Make sure you tighten any screws loosened in step 3.

# 3 MENU OPERATION

## CONTROL PANEL

### CONTROL PANEL

1    LCD display - shows menu and selected function
2    Buttons:
     MENU - to select programming functions
     DOWN - to go forward in selected functions
     UP - to go backward in selected functions
     ENTER - to confirm the selected function
3    DMX IN - 5-pin XLR cable to link the DMX
     console
4    DMX OUT - 5-pin XLR cable to link next fixture
5    POWER IN - connects to power supply
6    POWER OUT - connects to next fixture
7    ArtNet/sACN - RJ45 connector to link ArtNet/
     sACN from source
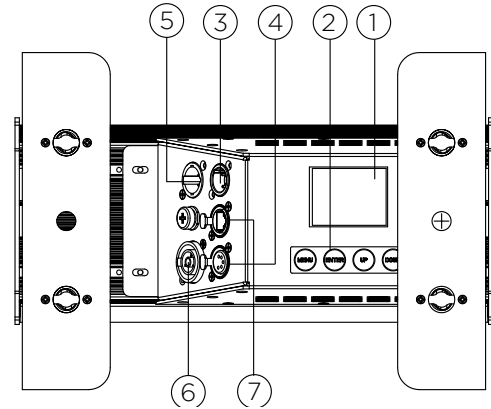
Press the MENU button to select any functions, until the required function is shown in the display. Select the desired function by pressing ENTER, which will cause the display to blink. Use the UP and DOWN button to change the mode. Once the required mode has been selected, press the ENTER button to accept the selection, otherwise after a period of one minute wait, the the menu will return automatically to the main functions, without any changes having been made. Return to the main functions without making any changes by pressing the MENU button.

| LEVEL 1 | LEVEL 2 | LEVEL 3 | LEVEL 4 | LEVEL 5 | LEVEL 6 | DEFAULT |
|---|---|---|---|---|---|---|
| Address | 001~474 (SSCC) | 001-509 (SQCC) | 001-460 (SOCC) | | | 001 |
| Configure | LED | LED Hours | XXXXXX h | | | |
| | | Reset LED Hour | Are you sure? | | | |
| | | Dimming Curve | Square Curve | | | Default |
| | | | S Curve | | | |
| | | | Linear Curve | | | |
| | | Tungsten Fade | On | | | |
| | | | Off | | | Default |
| | | Dim Snap | On (Fast) | | | |
| | | | Off (Slow) | | | Default |
| | | LED Frequency | 1200Hz | | | Default |
| | | | 2500Hz | | | |
| | | | 5000Hz | | | |
| | | | 10000Hz | | | |
| | | | 20000Hz | | | |
| | | | 25000Hz | | | |
| | | White Balance | Red | 125 - 255 | | 255 |
| | | | Green | 125 - 255 | | 255 |
| | | | Blue | 125 - 255 | | 255 |
| | | | Amber | 125 - 255 | | 255 |
| | | | Lime | 125 - 255 | | 255 |
| | | | Cyan | 125 - 255 | | 255 |
| | | | Reset | YES/NO | | |
| | Color Cal | On | | | | |
| | | Off | | | | Default |
| | Disp Timeout | 30 Sec | | | | Default |
| | | 5 Min | | | | |
| | | 10 Min | | | | |
| | | On | | | | |
| | Reset to Factory Defaults | YES/NO | | | | |
| | Select Signal | DMX Only | | | | |
| | | Art-Net | | | | |
| | | SACN | | | | |
| | Set Artnet/SACN | Set Universe | 000~255 | | | 000 |
| | | Ethernet IP | IP:0 | 000-255 | | |
| | | | IP:1 | 000-255 | | |
| | | | IP:2 | 000-255 | | |
| | | | IP:3 | 000-255 | | |
| | | Ether Mask IP | 255.0.0.0 | | | |
| | | | 255.255.0.0 | | | |
| | | | 255.255.255.0 | | | |
| DMX | Address | 001-474 (SSCC) | 001-509 (SQCC) | 001-460 (SOCC) | | |
| | DMX Mode | SSCC | | | | (Default) |
| | | SQCC | | | | |
| | | SOCC | | | | |
| | Pixel Group | Group 1 | | | | (Default) |
| | | Group 4 | | | | |

| LEVEL 1 | LEVEL 2 | LEVEL 3 | LEVEL 4 | LEVEL 5 | LEVEL 6 | DEFAULT |
|---------|---------|---------|---------|---------|---------|---------|
| DMX Continued | Cell Direction | Normal | | | | (Default) |
| | | Flipped | | | | |
| | DMX Fail | Hold | | | | |
| | | Blackout | | | | |
| | | Go to Preset | | | | |
| | Data | Ch 1 - Intensity  XXX (Value) | | | | |
| | | Ch 2 - Intensity Fine XXX (Value) | | | | |
| | | ......All functions | | | | |
| Fixture | UID Number | RDM UID number | | | | |
| | Status | No Errors... or displays a list of errors | | | | |
| | Reboot Fixture | Are you sure? | | | | |
| | Version | VXXX MMDD/YY HH:MM | | | | |
| | Fixture Hours | XXXXXX h | | | | |
| | Crossload (Software) | Send | | | | |
| | Service | Diagnostics | Board Check | No Errors or displays a list of errors | | |
| | | | Sensor Check | X° C | | |
| Manual Preset | Preset Run | Power Up Preset | 001 - 020 | | | |
| | | Intensity | 000 - 255 | | | 255 |
| | | Priority | Preset | | | Default |
| | | | DMX | | | |
| | | Power Up | Off | | | Default |
| | | | On | | | |
| | Edit Programs | Load Preset | 001 - 020 | | | |
| | | Edit Settings | Intensity | 000 - 255 | | |
| | | | Strobe | 000 - 255 | | |
| | | | Color Preset | 000 - 255 | | |
| | | | Red | 000 - 255 | | |
| | | | Green | 000 - 255 | | |
| | | | Blue | 000 - 255 | | |
| | | | Amber | 000 - 255 | | |
| | | | Lime | 000 - 255 | | |
| | | | Cyan | 000 - 255 | | |
| | | Store | 001 - 020 | YES/NO | | |
| | | Clear | 001 - 020 | YES/NO | | |
| | | Clear All Presets | YES/NO | | | |

## MENU SYSTEM

### DISPLAY AND MENU SYSTEM OPERATION

The Display Menu system consists of several categories. Use the Menu Button to access the menu. Then use the Up/Down arrow to navigate. When you reach the desired item, touch the Enter Button. To go backwards, touch the Menu Button.

**To navigate and access menu settings/selections:**

Step 1.     Make sure unit is powered and turned on.

Step 2.     Touch [MENU] to access menu categories.

Step 3.     Use two Arrow (▲▼) buttons to navigate through the various options and settings.

Step 4.     Once menu item is reached, touch [ENTER] to access the menu item parameters.

Step 5.     Make changes to parameters as desired.

Step 6.     Press [ENTER] button to accept changes.

## ADDRESS

### ADDRESS

Sets the starting DMX address for the fixture. Can also be set via RDM.

## CONFIGURE

### LED

This menu allows for viewing the LED engine hours, setting the dimming curve, tungsten fade, dim snap, LED frequency and white balance.
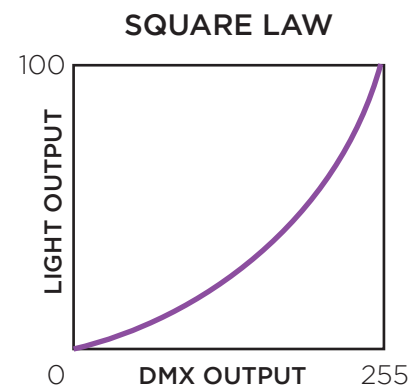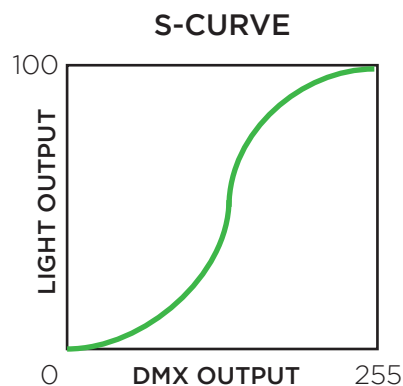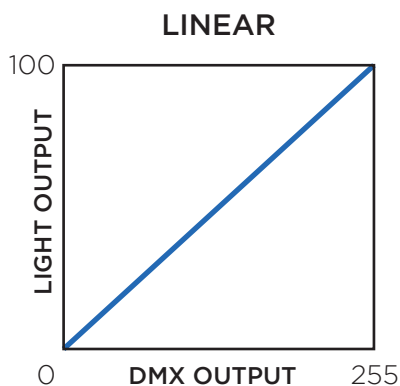
### LED Hours

Displays the current LED engine hours.

### Reset LED Hours

Allows the LED hours of the engine to be reset.  Should only be done if the engine has been replaced

### Dimming Curve

Select from Linear, S-Curve and Square Law.  Can also be set via the control channel and RDM.

### Tungsten Fade

Tungsten fade on will simiulate the red shift of a tungsten lamp while dimming. Will only function in SSCC mode with a CCT setting of 3200 °K.

### Dim Snap

Dim Snap On allows for fastest output changes between levels but reduces smoothness dimming the LED engine.  Dim Snap Off ensures all fades between output levels remains smooth and flicker free but limits fast, instant snaps between levels.  Can also be set via the control channel and RDM.

### LED Frequency

Choose the refresh rate of the LED engine (see Display Menu Tree for list).

### White Balance

Allows for the fine tuning of the 'white' outut by adjusting the individual levels of Red, Green, Blue, Amber, Lime, and Cyan.

## COLOR CAL

Enabling color calibration allows greater consistency and usefullness of the 'white' output. Disabling allows for the greatest color control.

## DISPLAY TIMEOUT

Sets how long the display remains illuminated after the last button touch. Choose from 30 seconds, 5 minutes, 10 minutes, or always on.

## RESET

Resets all the factory defaults of the fixture.  This includes setting the DMX Address to 001. Can also be done via RDM and via the control channel.

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**NOTE:** Control channel will not change the current DMX address.

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## SELECT SIGNAL

Choose what control signal the luminaire responds to. Choose from DMX, Art-Net and sACN.

## SET ARTNET/SACN

Setup the lumianire for ethernet based Art-Net or sACN.

### Set Universe

Choose the broadcasted universe the luminaire will respond to via either Art-Net or sACN.

### Ethernet IP

Allows for a unique Ethernet IP address to be set for the luminaire in the format of xxx.xxx.xxx.xxx. IP:0 sets the first group (000 - 255), IP:1 the second, IP:2 the third and IP:3 the fourth.

### Ether Mask IP

Allows for setting the Ethernet submask to either 255.0.0.0, 255.255.0.0 or 255.255.255.0.

# DMX

## ADDRESS

Sets the starting DMX address of the fixture. Can also be set via RDM.

## DMX MODE

### SSCC

Smart Color Control - allows the luminaire to be used as a traditional subtractive color mixing (CMY) fixture. The base white color temperature can be adjusted using the CCT channel.

### SQCC

Quick Color Control - allows for simple access of colors via the preset color channel only.

### SOCC

Opensource Color Control - allows full access of the Red, Green, Blue, Amber, Lime, and Cyan LEDs for complete control over the color mix.

## PIXEL GROUP

### Group 1

All four cells respond together as one fixture to color control.

### Group 4

All four cells respond individual to their own color control.

## CELL DIRECTION

### Normal

When in Group 4 Pixel group, cells are numbered from 1 to 4.

### Flipped

When in Group 4 Pixel group, cells are numbered from 4 to 1.

NOTE: Cell direction can be adjusted using the control channel.

## DATA

Allows the current DMX value present on each of the luminaire's DMX channels to be viewed.

# FIXTURE

### UID

Displays the UID as set in the luminaire.

### STATUS

Shows list of error message from previous calibration.  If none, it will say No Errors.

### REBOOT FIXTURE

Restarts the entire operating system of the fixture. Can be performed via the control channel or RDM.

### VERSION

Shows the current software version of the fixture.  Version is listed in MM/DD/YY format. Can be viewed via RDM.

### FIXTURE HOURS

Shows the accumulated hours the fixture has been powered on.  Can be viewed via RDM.

### CROSSLOAD (SOFTWARE)

Allows the current version of software installed in the fixture to be sent to other units via an attached DMX cable.

### SERVICE - DIAGNOSTICS

**Board Check**

Shows the current status of the control board.

**Sensor Check**

Shows the current temp at the LED in °C.

# MANUAL PRESET

### PLAYBACK

**Power Up Preset**

Selects the preset (1 to 20) that will be played back after power up if enabled.

**Intensity**

Selects the master intensity of a preset being played back (0 to 255).

**Priority**

Choose Preset if you always want a preset to playback.  Choose DMX if you only want a preset to playback if there is no DMX present.

**Power Up?**

Choose Preset On if you want the fixture to playback the preset at power up.  Choose Preset Off if you do not want a preset to play.

## EDIT PROGRAMS

### Load Preset

Select from preset 1 to 20 and touch [ENTER]. That preset will be played back.

### Edit Settings

Choose the function from the list you wish to edit and touch [ENTER]. Use the [UP]/[DOWN] buttons to set desired value. Touch [ENTER] to store.  Then continue to adjust all function desired.

### Store

After setting all your functions, select which preset number you wish to store (1 to 20) and touch [EN-TER]. Touch [ENTER] again to confirm when prompted.

### Clear

Select the preset (1 to 20) you wish to clear and touch [ENTER]. Touch [ENTER] again to confirm when prompted.

### Clear All Presets

When prompted, touch [ENTER] to confirm and all presets (1 to 20) will be erased.

**WARNING**: Clearing the presets CANNOT be undone!

Presets can also be stored via a DMX controller using the control channel.

# 4 DMX MAPPING

The fixture can be operated by DMX controller. The following tables assumes a DMX start address of 1. When a different starting address is used, this address becomes channel 1 function and other functions follow in sequence.

**TABLE 1.   SSCC MODE 1 CELL (DEFAULT)**

| DMX CHANNEL | PARAMETER | DEFAULTS | RANGE DMX | DESCRIPTION |
|---|---|---|---|---|
| 1 | Intensity (High) | 0 | 0 - 65535 | 16-bit Intensity (Dimmer) Control<br>0 - 100% Output<br>Main or Cell 1 depending on group selection |
| 2 | Intensity (Low) | | | |
| 3 | Strobe | 0 | 0 - 255 | Strobe S>>>>>F |
| | | | 0 - 9 | No Strobe Function - Shutter open |
| | | | 10 - 99 | Strobe S>>>>>F |
| | | | 100 - 109 | No Strobe Function - Shutter open |
| | | | 110 - 179 | Lighting Strobe S>>>>>F |
| | | | 180 - 189 | No Strobe Function - Shutter open |
| | | | 190 - 255 | Random Strobe S>>>>>F |
| 4 | Color Preset | 0 | 0 - 255 | Calibrated color presets 01 to 33<br>User definable color preset 01 to 20 |
| | | | 0 - 10 | Channel OFF Color Mixing take priority |
| | | | 11 - 14 | Moroccan Pink |
| | | | 15 - 18 | Pink |
| | | | 19 - 22 | Flesh Pink |
| | | | 23 - 26 | Bright Rose |
| | | | 27 - 30 | Follies Pink |
| | | | 31 - 34 | Fuchsia Pink |
| | | | 35 - 38 | Surprise Pink |
| | | | 39 - 42 | Congo Blue |
| | | | 43 - 46 | Blue |
| | | | 47 - 50 | Virgin Blue |
| | | | 51 - 54 | Midnight Maya |
| | | | 55 - 58 | Double C.T Blue |
| | | | 59 - 62 | Slate Blue |
| | | | 63 - 66 | Regal Blue |
| | | | 67 - 70 | Full C.T Blue |
| | | | 71 - 74 | Steel Blue |
| | | | 75 - 78 | Lighter Blue |
| | | | 79 - 82 | Cyan |
| | | | 83 - 86 | Marine Blue |
| | | | 87 - 90 | Soft Green |
| | | | 91 - 94 | Moss Green |
| | | | 95 - 98 | Green |
| | | | 99 - 102 | Fem Green |
| | | | 103 - 106 | JAS Green |
| | | | 107 - 110 | Pale Green |
| | | | 111 - 114 | Spring Yellow |

**TABLE 1.  SSCC MODE 1 CELL (DEFAULT)**

| DMX CHANNEL | PARAMETER | DEFAULTS | RANGE DMX | DESCRIPTION |
|---|---|---|---|---|
| 4 | Color Preset continued | 0 | 115 - 118 | Yellow |
| | | | 119 - 122 | Deep Amber |
| | | | 123 - 126 | Chrome Orange |
| | | | 127 - 130 | Orange |
| | | | 131 - 134 | Magenta |
| | | | 135 - 138 | Flame Red |
| | | | 139 - 142 | Purple |
| | | | 143 - 146 | User Preset 1 |
| | | | 147 - 150 | User Preset 2 |
| | | | 151 - 154 | User Preset 3 |
| | | | 155 - 158 | User Preset 4 |
| | | | 159 - 162 | User Preset 5 |
| | | | 163 - 166 | User Preset 6 |
| | | | 167 - 170 | User Preset 7 |
| | | | 171 - 174 | User Preset 8 |
| | | | 175 - 178 | User Preset 9 |
| | | | 179 - 182 | User Preset 10 |
| | | | 183 - 186 | User Preset 11 |
| | | | 187 - 190 | User Preset 12 |
| | | | 191 - 194 | User Preset 13 |
| | | | 195 - 198 | User Preset 14 |
| | | | 199 - 202 | User Preset 15 |
| | | | 203 - 206 | User Preset 16 |
| | | | 207 - 210 | User Preset 17 |
| | | | 211 - 214 | User Preset 18 |
| | | | 215 - 218 | User Preset 19 |
| | | | 219 - 222 | User Preset 20 |
| | | | 223 - 255 | Channel OFF Color Mixing take priority |
| 5 | Control Channel | 0 | 0 - 255 | Control Channel used for full fixture settings, lamp controls, and miscellaneous modes.  Set discrete value of desired effect, wait >3 seconds, then set value to 0 (Idle). **Function does not require 3 Second rule to active, setting output to value will automatically activate function |
| | | | 0 - 5 | Idle (Default) |
| | | | 6 - 10 | Full Luminaire ReCal - Also Used to Wake fixture up from shutdown |
| | | | 11 - 15 | Fixture Shutdown |
| | | | 16 - 20 | Reserved Values |
| | | | 21 - 25 | Display - Menu ON |
| | | | 26 - 30 | Display - Menu OFF |
| | | | 31 - 35 | Tungsten Dimming On** |
| | | | 36 - 40 | Tungsten Dimming Off (Default)** |
| | | | 41 - 45 | Dimming Curve Linear** |
| | | | 46 - 50 | Dimming Curve  S-Curve** |
| | | | 51 - 55 | Dimming Curve  Square Law (Default)** |
| | | | 56 - 60 | Reserved |
| | | | 61 - 65 | Dimmer Snap On** |

**TABLE 1.   SSCC MODE 1 CELL (DEFAULT)**

| DMX CHANNEL | PARAMETER | DEFAULTS | RANGE DMX | DESCRIPTION |
|---|---|---|---|---|
| 5 | Control Channel continued | 0 | 66 - 70 | Dimmer Snap Off  (Default)** |
| | | | 71 - 90 | Reserved Values |
| | | | 91 - 95 | Color Calibration on |
| | | | 96 - 100 | Color Calibration off (Default) |
| | | | 101 - 150 | Reserved Values |
| | | | 151 - 155 | Record User Color Preset** |
| | | | 156 - 160 | Cell Direction Normal |
| | | | 161 - 165 | Cell Direction Flipped |
| | | | 166 - 170 | Reserved Values |
| | | | 171 - 175 | Reset fixture to default |
| | | | 176 - 255 | Reserved Values |
| 6 | Cyan (High) | 0 | 0 - 65535 | Cyan Color Level Control 0 - 100% Saturation 6 Color LED array auto adjust to meet Cyan / mixed color point of full available color spectrum |
| 7 | Cyan (Low) | | | |
| 8 | Yellow (High) | 0 | 0 - 65535 | Yellow Color Level Control 0 - 100% Saturation 6 Color LED array auto adjust to meet Yellow / mixed color point of full available color spectrum |
| 9 | Yellow (Low) | | | |
| 10 | Magenta (High) | 0 | 0 - 65535 | Magenta Color Level Control 0 - 100% Saturation 6 Color LED array auto adjust to meet Magenta / mixed color point of full available color spectrum |
| 11 | Magenta (Low | | | |
| 12 | CCT | 75 | 0 - 250 | Variable  color temperature control channel Channel works Independent of color mixing channel and will adjust all mixed color from  selected color temperature level. Values stated below are a for guidance only channel should be mapped in such away  that channel level runs variable from 0 - 250 |
| | | | 0 | 1800K |
| | | | 25 | 2700K |
| | | | 50 | 3000K |
| | | | 75 | 3200K (Default) |
| | | | 100 | 4000K |
| | | | 125 | 4500K |
| | | | 150 | 5000K |
| | | | 175 | 5600K |
| | | | 200 | 6500K |
| | | | 225 | 8000K |
| | | | 250 | 10000K |
| | | | 250 - 255 | Reserved Hold 10000K |

**TABLE 2.   SSCC MODE 4-CELL SELECTED, ADDITIONAL CHANNELS ADDED**

| DMX CHANNEL | PARAMETER | DEFAULTS | RANGE DMX | DESCRIPTION |
|---|---|---|---|---|
| GROUP 2 | | | |
| 15 | Cyan (High) | 0 | 0 - 65535 | Cyan Color Level Control 0 - 100% Saturation 6 Color LED array auto adjust to meet Cyan / mixed color point of full available color spectrum |
| 16 | Cyan (Low) | | | |
| 17 | Yellow (High) | 0 | 0 - 65535 | Yellow Color Level Control 0 - 100% Saturation 6 Color LED array auto adjust to meet Yellow / mixed color point of full available color spectrum |
| 18 | Yellow (Low) | | | |
| 19 | Magenta (High) | 0 | 0 - 65535 | Magenta Color Level Control 0 - 100% Saturation 6 Color LED array auto adjust to meet Magenta / mixed color point of full available color spectrum |
| 20 | Magenta (Low | | | |
| 21 | CCT | 75 | 0 - 250 | Variable  color temperature control channel Channel works Independent of color mixing channel and will adjust all mixed color from  selected color temperature level. Values stated below are a for guidance only channel should be mapped in such away  that channel level runs variable from 0 - 250 |
| | | | 0 | 1800K |
| | | | 25 | 2700K |
| | | | 50 | 3000K |
| | | | 75 | 3200K (Default) |
| | | | 100 | 4000K |
| | | | 125 | 4500K |
| | | | 150 | 5000K |
| 21 | CCT continued | 75 | 175 | 5600K |
| | | | 200 | 6500K |
| | | | 225 | 8000K |
| | | | 250 | 10000K |
| | | | 250 - 255 | Reserved Hold 10000K |
| 22 | Intensity 3 (High) | 0 | 0 - 65535 | 16-bit Intensity (Dimmer) Control 0 - 100% Output |
| 23 | Intensity 3 (Low) | | | |
| GROUP 3 | | | |
| 24 | Cyan (High) | 0 | 0 - 65535 | Cyan Color Level Control 0 - 100% Saturation 6 Color LED array auto adjust to meet Cyan / mixed color point of full available color spectrum |
| 25 | Cyan (Low) | | | |
| 26 | Yellow (High) | 0 | 0 - 65535 | Yellow Color Level Control 0 - 100% Saturation 6 Color LED array auto adjust to meet Yellow / mixed color point of full available color spectrum |
| 27 | Yellow (Low) | | | |
| 28 | Magenta (High) | 0 | 0 - 65535 | Magenta Color Level Control 0 - 100% Saturation 6 Color LED array auto adjust to meet Magenta / mixed color point of full available color spectrum |
| 29 | Magenta (Low | | | |

**TABLE 2.  SSCC MODE 4-CELL SELECTED, ADDITIONAL CHANNELS ADDED**

| DMX CHANNEL | PARAMETER | DEFAULTS | RANGE DMX | DESCRIPTION |
|---|---|---|---|---|
| 30 | CCT | 75 | 0 - 250 | Variable  color temperature control channel Channel works Independent of color mixing channel and will adjust all mixed color from  selected color temperature level. Values stated below are a for guidance only channel should be mapped in such away  that channel level runs variable from 0 - 250 |
| | | | 0 | 1800K |
| | | | 25 | 2700K |
| | | | 50 | 3000K |
| | | | 75 | 3200K (Default) |
| | | | 100 | 4000K |
| | | | 125 | 4500K |
| | | | 150 | 5000K |
| | | | 175 | 5600K |
| | | | 200 | 6500K |
| | | | 225 | 8000K |
| | | | 250 | 10000K |
| | | | 250 - 255 | Reserved Hold 10000K |
| 31 | Intensity 4 (High) | 0 | 0 - 65535 | 16-bit Intensity (Dimmer) Control 0 - 100% Output |
| 32 | Intensity 4 (Low) | | | |
| GROUP 4 | | | | |
| 33 | Cyan (High) | 0 | 0 - 65535 | Cyan Color Level Control 0 - 100% Saturation 6 Color LED array auto adjust to meet Cyan / mixed color point of full available color spectrum |
| 34 | Cyan (Low) | | | |
| 35 | Yellow (High) | 0 | 0 - 65535 | Yellow Color Level Control 0 - 100% Saturation 6 Color LED array auto adjust to meet Yellow / mixed color point of full available color spectrum |
| 36 | Yellow (Low) | | | |
| 37 | Magenta (High) | 0 | 0 - 65535 | Magenta Color Level Control 0 - 100% Saturation 6 Color LED array auto adjust to meet Magenta / mixed color point of full available color spectrum |
| 38 | Magenta (Low | | | |
| 39 | CCT | 75 | 0 - 250 | Variable  color temperature control channel Channel works Independent of color mixing channel and will adjust all mixed color from  selected color temperature level. Values stated below are a for guidance only channel should be mapped in such away  that channel level runs variable from 0 - 250 |
| | | | 0 | 1800K |
| | | | 25 | 2700K |
| | | | 50 | 3000K |
| | | | 75 | 3200K (Default) |
| | | | 100 | 4000K |
| | | | 125 | 4500K |
| | | | 150 | 5000K |
| | | | 175 | 5600K |
| | | | 200 | 6500K |
| | | | 225 | 8000K |
| | | | 250 | 10000K |
| | | | 250 - 255 | Reserved Hold 10000K |

**TABLE 3.   SQCC MODE**

| DMX CHANNEL | PARAMETER | DEFAULTS | RANGE DMX | DESCRIPTION |
|---|---|---|---|---|
| 1 | Intensity (High) | 0 | 0 - 65535 | 16-bit Intensity (Dimmer) Control |
| 2 | Intensity (Low) | | | 0 - 100% Output |
| 3 | Strobe | 0 | 0 - 255 | Strobe S>>>>>F |
| | | | 0 - 9 | No Strobe Function - Shutter open |
| | | | 10 - 99 | Strobe S>>>>>F |
| | | | 100 - 109 | No Strobe Function - Shutter open |
| | | | 110 - 179 | Lighting Strobe S>>>>>F |
| | | | 180 - 189 | No Strobe Function - Shutter open |
| | | | 190 - 255 | Random Strobe S>>>>>F |
| 4 | Color Preset | 0 | 0 - 255 | Calibrated color presets 01 to 33 User definable color preset 01 to 20 |
| | | | 0 - 10 | Channel OFF Color Mixing take priority |
| | | | 11 - 14 | Moroccan Pink |
| | | | 15 - 18 | Pink |
| | | | 19 - 22 | Flesh Pink |
| | | | 23 - 26 | Bright Rose |
| | | | 27 - 30 | Follies Pink |
| | | | 31 - 34 | Fuchsia Pink |
| | | | 35 - 38 | Surprise Pink |
| | | | 39 - 42 | Congo Blue |
| | | | 43 - 46 | Blue |
| | | | 47 - 50 | Virgin Blue |
| | | | 51 - 54 | Midnight Maya |
| | | | 55 - 58 | Double C.T Blue |
| | | | 59 - 62 | Slate Blue |

**TABLE 3.　SQCC MODE**

| DMX CHANNEL | PARAMETER | DEFAULTS | RANGE DMX | DESCRIPTION |
|---|---|---|---|---|
| | | | 63 - 66 | Regal Blue |
| | | | 67 - 70 | Full C.T Blue |
| | | | 71 - 74 | Steel Blue |
| | | | 75 - 78 | Lighter Blue |
| | | | 79 - 82 | Cyan |
| | | | 83 - 86 | Marine Blue |
| | | | 87 - 90 | Soft Green |
| | | | 91 - 94 | Moss Green |
| | | | 95 - 98 | Green |
| | | | 99 - 102 | Fem Green |
| | | | 103 - 106 | JAS Green |
| | | | 107 - 110 | Pale Green |
| | | | 111 - 114 | Spring Yellow |
| | | | 115 - 118 | Yellow |
| | | | 119 - 122 | Deep Amber |
| | | | 123 - 126 | Chrome Orange |
| | | | 127 - 130 | Orange |
| | | | 131 - 134 | Magenta |
| | | | 135 - 138 | Flame Red |
| | | | 139 - 142 | Purple |
| 4 | Color Preset continued | 0 | 143 - 146 | User Preset 1 |
| | | | 147 - 150 | User Preset 2 |
| | | | 151 - 154 | User Preset 3 |
| | | | 155 - 158 | User Preset 4 |
| | | | 159 - 162 | User Preset 5 |
| | | | 163 - 166 | User Preset 6 |
| | | | 167 - 170 | User Preset 7 |
| | | | 171 - 174 | User Preset 8 |
| | | | 175 - 178 | User Preset 9 |
| | | | 179 - 182 | User Preset 10 |
| | | | 183 - 186 | User Preset 11 |
| | | | 187 - 190 | User Preset 12 |
| | | | 191 - 194 | User Preset 13 |
| | | | 195 - 198 | User Preset 14 |
| | | | 199 - 202 | User Preset 15 |
| | | | 203 - 206 | User Preset 16 |
| | | | 207 - 210 | User Preset 17 |
| | | | 211 - 214 | User Preset 18 |
| | | | 215 - 218 | User Preset 19 |
| | | | 219 - 222 | User Preset 20 |
| | | | 223 - 255 | Channel OFF Color Mixing take priority |

**TABLE 4.   SOCC MODE**

| DMX CHANNEL | PARAMETER | DEFAULTS | RANGE DMX | DESCRIPTION |
|---|---|---|---|---|
| 1 | Intensity (High) | 0 | 0 - 65535 | 16-bit Intensity (Dimmer) Control 0 - 100% Output |
| 2 | Intensity (Low) | | | |
| 3 | Strobe | 0 | 0 - 255 | Strobe S>>>>>F |
| | | | 0 - 9 | No Strobe Function - Shutter open |
| | | | 10 - 99 | Strobe S>>>>>F |
| | | | 100 - 109 | No Strobe Function - Shutter open |
| | | | 110 - 179 | Lighting Strobe S>>>>>F |
| | | | 180 - 189 | No Strobe Function - Shutter open |
| | | | 190 - 255 | Random Strobe S>>>>>F |
| 4 | Color Preset | 0 | 0 - 255 | Calibrated color presets 01 to 33 User definable color preset 01 to 20 |
| | | | 0 - 10 | Channel OFF Color Mixing take priority |
| | | | 11 - 14 | Moroccan Pink |
| | | | 15 - 18 | Pink |
| | | | 19 - 22 | Flesh Pink |
| | | | 23 - 26 | Bright Rose |
| | | | 27 - 30 | Follies Pink |
| | | | 31 - 34 | Fuchsia Pink |
| | | | 35 - 38 | Surprise Pink |
| | | | 39 - 42 | Congo Blue |
| | | | 43 - 46 | Blue |
| | | | 47 - 50 | Virgin Blue |
| | | | 51 - 54 | Midnight Maya |
| | | | 55 - 58 | Double C.T Blue |
| | | | 59 - 62 | Slate Blue |
| | | | 63 - 66 | Regal Blue |
| | | | 67 - 70 | Full C.T Blue |
| | | | 71 - 74 | Steel Blue |
| | | | 75 - 78 | Lighter Blue |
| | | | 79 - 82 | Cyan |
| | | | 83 - 86 | Marine Blue |
| | | | 87 - 90 | Soft Green |
| | | | 91 - 94 | Moss Green |
| | | | 95 - 98 | Green |
| | | | 99 - 102 | Fem Green |
| | | | 103 - 106 | JAS Green |
| | | | 107 - 110 | Pale Green |
| | | | 111 - 114 | Spring Yellow |
| | | | 115 - 118 | Yellow |
| | | | 119 - 122 | Deep Amber |
| | | | 123 - 126 | Chrome Orange |
| | | | 127 - 130 | Orange |
| | | | 131 - 134 | Magenta |
| | | | 135 - 138 | Flame Red |
| | | | 139 - 142 | Purple |

**TABLE 4.　SOCC MODE**

| DMX CHANNEL | PARAMETER | DEFAULTS | RANGE DMX | DESCRIPTION |
|---|---|---|---|---|
| 4 | Color Preset continued | 0 | 143 - 146 | User Preset 1 |
| | | | 147 - 150 | User Preset 2 |
| | | | 151 - 154 | User Preset 3 |
| | | | 155 - 158 | User Preset 4 |
| | | | 159 - 162 | User Preset 5 |
| | | | 163 - 166 | User Preset 6 |
| | | | 167 - 170 | User Preset 7 |
| | | | 171 - 174 | User Preset 8 |
| | | | 175 - 178 | User Preset 9 |
| | | | 179 - 182 | User Preset 10 |
| | | | 183 - 186 | User Preset 11 |
| | | | 187 - 190 | User Preset 12 |
| | | | 191 - 194 | User Preset 13 |
| | | | 195 - 198 | User Preset 14 |
| | | | 199 - 202 | User Preset 15 |
| | | | 203 - 206 | User Preset 16 |
| | | | 207 - 210 | User Preset 17 |
| | | | 211 - 214 | User Preset 18 |
| | | | 215 - 218 | User Preset 19 |
| | | | 219 - 222 | User Preset 20 |
| | | | 223 - 255 | Channel OFF Color Mixing take priority |
| 5 | Control Channel | 0 | 0 - 255 | Control Channel used for full fixture settings, lamp controls, and miscellaneous modes. Set discrete value of desired effect, wait >3 seconds, then set value to 0 (Idle). **Function does not require 3 Second rule to active, setting output to value will automatically activate function |
| | | | 0 - 5 | Idle (Default) |
| | | | 6 - 10 | Full Luminaire ReCal - Also Used to Wake fixture up from shutdown |
| | | | 11 - 15 | Fixture Shutdown |
| | | | 16 - 20 | Reserved Values |
| | | | 21 - 25 | Display - Menu ON |
| | | | 26 - 30 | Display - Menu OFF |
| | | | 31 - 35 | Tungsten Dimming On** |
| | | | 36 - 40 | Tungsten Dimming Off (Default)** |
| | | | 41 - 45 | Dimming Curve Linear** |
| | | | 46 - 50 | Dimming Curve  S-Curve** |
| | | | 51 - 55 | Dimming Curve  Square Curve (Default)** |
| | | | 56 - 60 | Reserved |
| | | | 61 - 65 | Dimmer Snap On** |
| | | | 66 - 70 | Dimmer Snap Off  (Default)** |
| | | | 71 - 90 | Reserved Values |
| | | | 91 - 95 | Color Calibration on |
| | | | 96 - 100 | Color Calibration off (Default) |
| | | | 101 - 150 | Reserved Values |
| | | | 151 - 155 | Record User Color Preset** |
| | | | 156 - 160 | Cell Direction Normal |

**TABLE 4.   SOCC MODE**

| DMX CHANNEL | PARAMETER | DEFAULTS | RANGE DMX | DESCRIPTION |
|---|---|---|---|---|
| 5 | Control Channel Continued | 0 | 161 - 165 | Cell Direction Flipped |
| | | | 166 - 170 | Reserved |
| | | | 171 - 175 | Reset fixture to default |
| | | | 176 - 255 | Reserved |
| **GROUP 1** | | | | |
| 6 | Red (High) | 0 | 0 - 65535 | Red Color Level Control 0 - 100% Saturation |
| 7 | Red (Low | | | |
| 8 | Green (High) | 0 | 0 - 65535 | Green Color Level Control 0 - 100% Saturation |
| 9 | Green (Low) | | | |
| 10 | Blue (High) | 0 | 0 - 65535 | Blue Color Level Control 0 - 100% Saturation |
| 11 | Blue (Low) | | | |
| 12 | Amber (High) | 0 | 0 - 65535 | Amber Color Level Control 0 - 100% Saturation |
| 13 | Amber (Low) | | | |
| 14 | Lime (High) | 0 | 0 - 65535 | Lime Color Level Control 0 - 100% Saturation |
| 15 | Lime (Low) | | | |
| 16 | Cyan (High) | 0 | 0 - 65535 | Cyan Color Level Control 0 - 100% Saturation |
| 17 | Cyan (Low) | | | |
| **SOCC MODE - 4 GROUP SELECTED - ADDITIONAL CHANNELS ADDED** | | | | |
| **GROUP 2** | | | | |
| 18 | Red (High) | 0 | 0 - 65535 | Red Color Level Control 0 - 100% Saturation |
| 19 | Red (Low | | | |
| 20 | Green (High) | 0 | 0 - 65535 | Green Color Level Control 0 - 100% Saturation |
| 21 | Green (Low) | | | |
| 22 | Blue (High) | 0 | 0 - 65535 | Blue Color Level Control 0 - 100% Saturation |
| 23 | Blue (Low) | | | |
| 24 | Amber (High) | 0 | 0 - 65535 | Amber Color Level Control 0 - 100% Saturation |
| 25 | Amber (Low) | | | |
| 26 | Lime (High) | 0 | 0 - 65535 | Lime Color Level Control 0 - 100% Saturation |
| 27 | Lime (Low) | | | |
| 28 | Cyan (High) | 0 | 0 - 65535 | Cyan Color Level Control 0 - 100% Saturation |
| 29 | Cyan (Low) | | | |
| **GROUP 3** | | | | |
| 30 | Red (High) | 0 | 0 - 65535 | Red Color Level Control 0 - 100% Saturation |
| 31 | Red (Low | | | |
| 32 | Green (High) | 0 | 0 - 65535 | Green Color Level Control 0 - 100% Saturation |
| 33 | Green (Low) | | | |
| 34 | Blue (High) | 0 | 0 - 65535 | Blue Color Level Control 0 - 100% Saturation |
| 35 | Blue (Low) | | | |
| 36 | Amber (High) | 0 | 0 - 65535 | Amber Color Level Control 0 - 100% Saturation |
| 37 | Amber (Low) | | | |
| 38 | Lime (High) | 0 | 0 - 65535 | Lime Color Level Control 0 - 100% Saturation |
| 39 | Lime (Low) | | | |
| 40 | Cyan (High) | 0 | 0 - 65535 | Cyan Color Level Control 0 - 100% Saturation |
| 41 | Cyan (Low) | | | |

**TABLE 4.   SOCC MODE**

| DMX CHANNEL | PARAMETER | DEFAULTS | RANGE DMX | DESCRIPTION |
|---|---|---|---|---|
| GROUP 4 | | | | |
| 42 | Red (High) | 0 | 0 - 65535 | Red Color Level Control 0 - 100% Saturation |
| 43 | Red (Low | | | |
| 44 | Green (High) | 0 | 0 - 65535 | Green Color Level Control 0 - 100% Saturation |
| 45 | Green (Low) | | | |
| 46 | Blue (High) | 0 | 0 - 65535 | Blue Color Level Control 0 - 100% Saturation |
| 47 | Blue (Low) | | | |
| 48 | Amber (High) | 0 | 0 - 65535 | Amber Color Level Control 0 - 100% Saturation |
| 49 | Amber (Low) | | | |
| 50 | Lime (High) | 0 | 0 - 65535 | Lime Color Level Control 0 - 100% Saturation |
| 51 | Lime (Low) | | | |
| 52 | Cyan (High) | 0 | 0 - 65535 | Cyan Color Level Control 0 - 100% Saturation |
| 53 | Cyan (Low) | | | |

**TABLE 5.   COLOR PRESETS**

| RANGE DMX | COLOR | RANGE DMX | COLOR |
|---|---|---|---|
| 0 - 255 | Calibrated color presets 01 to 33 | 115 - 118 | Yellow |
| | User definable color preset 01 to 20 | 119 - 122 | Deep Amber |
| 0 - 10 | Channel OFF Color Mixing take priority | 123 - 126 | Chrome Orange |
| 11 - 14 | Moroccan Pink | 127 - 130 | Orange |
| 15 - 18 | Pink | 131 - 134 | Magenta |
| 19 - 22 | Flesh Pink | 135 - 138 | Flame Red |
| 23 - 26 | Bright Rose | 139 - 142 | Purple |
| 27 - 30 | Follies Pink | 143 - 146 | User Preset 1 |
| 31 - 34 | Fuchsia Pink | 147 - 150 | User Preset 2 |
| 35 - 38 | Surprise Pink | 151 - 154 | User Preset 3 |
| 39 - 42 | Congo Blue | 155 - 158 | User Preset 4 |
| 43 - 46 | Blue | 159 - 162 | User Preset 5 |
| 47 - 50 | Virgin Blue | 163 - 166 | User Preset 6 |
| 51 - 54 | Midnight Maya | 167 - 170 | User Preset 7 |
| 55 - 58 | Double C.T Blue | 171 - 174 | User Preset 8 |
| 59 - 62 | Slate Blue | 175 - 178 | User Preset 9 |
| 63 - 66 | Regal Blue | 179 - 182 | User Preset 10 |
| 67 - 70 | Full C.T Blue | 183 - 186 | User Preset 11 |
| 71 - 74 | Steel Blue | 187 - 190 | User Preset 12 |
| 75 - 78 | Lighter Blue | 191 - 194 | User Preset 13 |
| 79 - 82 | Cyan | 195 - 198 | User Preset 14 |
| 83 - 86 | Marine Blue | 199 - 202 | User Preset 15 |
| 87 - 90 | Soft Green | 203 - 206 | User Preset 16 |
| 91 - 94 | Moss Green | 207 - 210 | User Preset 17 |
| 95 - 98 | Green | 211 - 214 | User Preset 18 |
| 99 - 102 | Fem Green | 215 - 218 | User Preset 19 |
| 103 - 106 | JAS Green | 219 - 222 | User Preset 20 |
| 107 - 110 | Pale Green | 223 - 255 | Channel OFF Color Mixing take priority |
| 111 - 114 | Spring Yellow | | |

**TABLE 6.   CCT CHANNEL**

| DMX CHANNEL | DEFAULT | RANGE DMX | FUNCTION |
|---|---|---|---|
| CTO | 75 | 0 - 250 | Variable  color temperature control channel<br>Channel works independent of color mixing channel and will adjust all mixed color from  selected color temperature level. Values stated below are a for guidance only channel should be mapped in such away  that channel level runs variable from 0 - 250 |
| | | 0 | 1800k |
| | | 25 | 2700K |
| | | 50 | 3000K |
| | | 75 | 3200K (Default) |
| | | 100 | 4000K |
| | | 125 | 4500K |
| | | 150 | 5000K |
| | | 175 | 5600K |
| | | 200 | 6500K |
| | | 225 | 8000K |
| | | 250 | 10000K |
| | | 250 - 255 | Reserved Hold 10000K |

**TABLE 7.   CONTROL CHANNEL**

| RANGE DMX | ITEMS | DESCRIPTION | POWER CYCLE RULES | FUNCTION SELECTION VIA UI |
|---|---|---|---|---|
| 0 - 255 | Control Channel | Control Channel used for full fixture settings,  lamp controls, and miscellaneous modes.  Set discrete value of desired effect, wait >3 seconds, then set value to 0 (Idle). **Function does not require 3 Second rule to active, setting output | N/A | N/A |
| 0 - 5 | Idle (Default) | Default value used as return point to activate all control functions | N/A | N/A |
| 6 - 10 | Full Luminaire ReCal - | Recalibrates all mechanical functions and sensor with in the fixture. Also Used to Wake fixture up from shutdown | N/A | |
| 11 - 15 | Fixture Shutdown | Shuts down all fixture output and turns off all fans - fixture is activated by power cycle or ReCal command | If fixture is powered down then up fixture will auto wake and not startup in Shutdown Mode | N/A |
| 16 - 20 | Reserved Values | | N/A | N/A |
| 21 - 25 | Display - Menu ON | Switches UI display backlight on remotely - Display will Time out from on after 5 mins | N/A | N/A |
| 26 - 30 | Display - Menu OFF | | N/A | N/A |
| 31 - 35 | Tungsten Dimming On** | Remote switches Tungsten Dimming color shift on | Holds setting on power cycle | Yes |
| 36 - 40 | Tungsten Dimming Off (Default)** | Remote switches Tungsten Dimming color shift off | Holds setting on power cycle | Yes |
| 41 - 45 | Dimming Curve Linear** | Selects Linear Dimming Curve, Also Used to Wake fixture up from shutdown | Holds setting on power cycle | Yes |
| 46 - 50 | Dimming Curve S-Curve** | Selects S-Law Dimming Curve | Holds setting on power cycle | Yes |
| 51 - 55 | Dimming Curve Square Law (Default)** | Selects Square -Law Dimming Curve | Holds setting on power cycle | Yes |
| 56 - 60 | Reserved Values | | | |
| 61 - 65 | Dimmer Snap On** | Allows for fastest output changes  between levels but reduces smoothness dimming LED | Holds setting on power cycle | Yes |

**TABLE 7.   CONTROL CHANNEL**

| RANGE DMX | ITEMS | DESCRIPTION | POWER CYCLE RULES | FUNCTION SELECTION VIA UI |
|---|---|---|---|---|
| 66 - 70 | Dimmer Snap Off (Default)** | Ensures all fades between output levels remain smooth and flicker free limits  fast instant snaps between levels | Holds setting on power cycle | Yes |
| 71 - 90 | Reserved Values | | N/A | N/A |
| 91 - 95 | Color Calibration on | Turns Color calibration on for fixture to fixture color matching on all mixed and preset colors between fixtures limits highest output and max saturation on some colors | Holds setting on power cycle | Yes |
| 96 - 100 | Color Calibration off (Default) | Turns Color calibration off fixtures may not match fixture to fixture limits  fast instant snaps between levels | Holds setting on power cycle | Yes |
| 101 - 150 | Reserved Values | | N/A | N/A |
| 151 - 155 | Record User Color Preset** | Takes Current Color mixing values and stores to next available blank User color preset - if preset listing are full preset will not record. User will need to clear preset via fixture UI | N/A | N/A |
| 156 - 160 | Cell Direction Normal | Cells operate in order 1, 2, 3, 4 in 4 pixel mode | Holds setting on power cycle | Yes |
| 161 - 165 | Cell Direction Flipped | Cells operate in order 4, 3, 2, 1 in 4 pixel mode | Holds setting on power cycle | Yes |
| 166 - 170 | Reserved | | N/A | N/A |
| 171 - 175 | Reset fixture to default | Will reset all parameters to default with the exception of the Mx address, fixture mode and Pixel / Zone selection | N/A | Yes - Will reset DMX address, Mode |
| 176 - 255 | Reserved | | N/A | N/A |
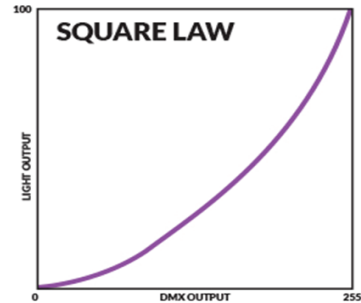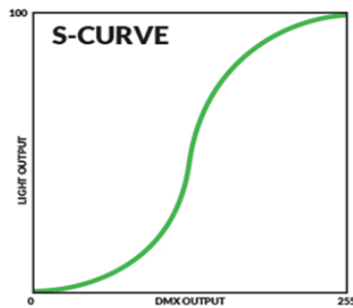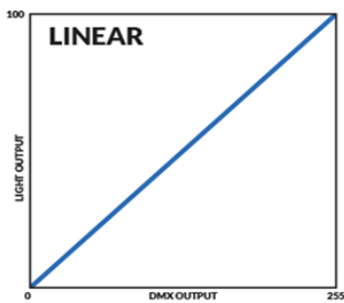
# DMX512 CONNECTION

- The DMX cable should be terminated at the last unit in a run, using a DMX terminator. Solder a 120Ω 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 5-pin XLR-plug and plug it in the DMX-output of the last unit.

- Connect the unit together in a `daisy chain` by XLR plug from the output of the unit to the input of the next unit. The cable cannot be branched or split to a `Y` cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.

- The DMX output and input are configured as pass-through connectors in order to maintain the DMX circuit, should the power to one of the unit's be disconnected.

- Each lighting unit needs to have an address set to receive the data sent by the controller. The address number is between 1 - 512 (but not all starting addresses are available depending on DMX Mode).

- 5-pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin 4/Pin 5: Not used.
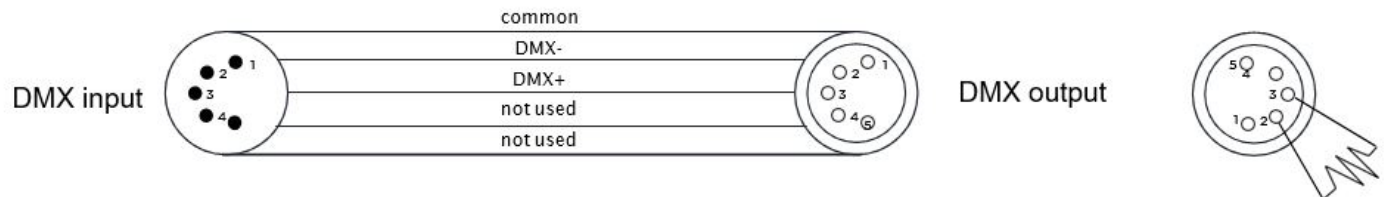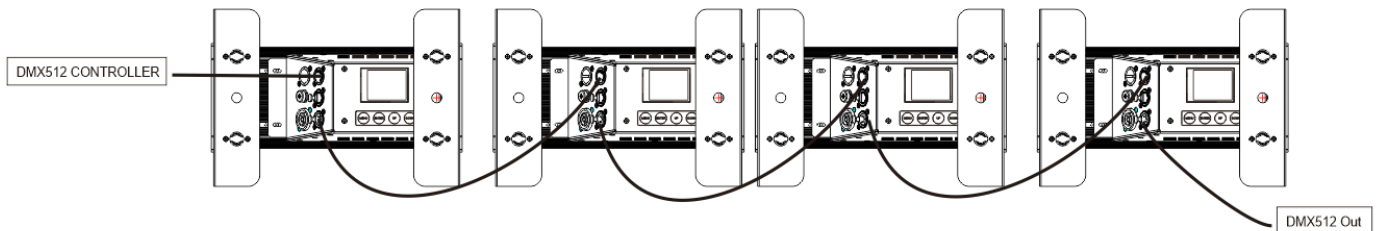
# 5 RDM PARAMETER IDs

Remote Device Management (RDM) is a protocol enhancement to USITT DMX512 that allows bi-directional communication between a lighting or system controller and attached RDM compliant devices over a standard DMX line. This protocol will allow configuration, status monitoring, and management of these devices in such a way that does not disturb the normal operation of standard DMX512 devices that do not recognize the RDM protocol.

| AURORA 4 LED STRIP RDM PRODUCT PARAMETER IDS | | | | |
|---|---|---|---|---|
| Model ID | Manufacturer | Vendor ID | Model Description | Product Category |
| 0x011C | Vari-Lite | 0x564C | AURO4FC | 0x0101 |

The table on the following pages outlines and describes all the RDM parameters IDs associated with the.

| GET ALLOWED | SET ALLOWED | RDM PARAMETER IDS | VALUE | COMMENT | ESTA STANDARD | REQUIRED / | DMX / UI DESCIPTION |
|---|---|---|---|---|---|---|---|
| Category - Network Management | | | | | | | |
| | | DISC_UNIQUE_BRANCH | 0x0001 | | X | X | |
| | | DISC_MUTE | 0x0002 | | X | X | |
| | | DISC_UN_MUTE | 0x0003 | | X | X | |
| X | | PROXIED_DEVICES | 0x0010 | | | | |
| X | | PROXIED_DEVICES_COUNT | 0x0011 | | | | |
| X | X | COMMS_STATUS | 0x0015 | | | | |
| Category - Status Collection | | | | | | | |
| X | | QUEUED_MESSAGE | 0x0020 | | | | |
| X | | STATUS_MESSAGES | 0x0030 | | | X | Status |
| X | | STATUS_ID_DESCRIPTION | 0x0031 | | | X | |
| | X | CLEAR_STATUS_ID | 0x0032 | | | | |
| X | X | SUB_DEVICE_STATUS_ REPORT_THRESHOLD | 0x0033 | | | | |
| Category - RDM Information | | | | | | | |
| X | | SUPPORTED_PARAMETERS | 0x0050 | | X | X | |
| X | | PARAMETER_DESCRIPTION | 0x0051 | | X | X | |
| Category - Product Information | | | | | | | |
| X | | DEVICE_INFO | 0x0060 | | X | X | |
| X | | PRODUCT_DETAIL_ID_LIST | 0x0070 | | | | |
| X | | DEVICE_MODEL_ DESCRIPTION | 0x0080 | | | X | |
| X | | MANUFACTURER_LABEL | 0x0081 | | | X | |
| X | X | DEVICE_LABEL | 0x0082 | | | X | |
| X | X | FACTORY_DEFAULTS | 0x0090 | | | X | Reset Defaults |
| X | | LANGUAGE_CAPABILITIES | 0x00A0 | | | | |
| X | X | LANGUAGE | 0x00B0 | | | | |
| X | | SOFTWARE_VERSION_ LABEL | 0x00C0 | | X | X | Version |
| X | | BOOT_SOFTWARE_ VERSION_ID | 0x00C1 | | | | |
| X | | BOOT_SOFTWARE_ VERSION_LABEL | 0x00C2 | | | | |
| Category - DMX512 Setup | | | | | | | |
| X | X | DMX_PERSONALITY | 0x00E0 | | | X | DMX Mode |
| X | | DMX_PERSONALITY_ DESCRIPTION | 0x00E1 | | | X | |
| X | X | DMX_START_ADDRESS | 0x00F0 | | X | X | Address |
| X | | SLOT_INFO | 0x0120 | | | X | |
| X | | SLOT_DESCRIPTION | 0x0121 | | | X | |
| X | | DEFAULT_SLOT_VALUE | 0x0122 | | | X | |
| Category – Sensors 0x02xx USE | | | | | | | |
| X | | SENSOR_DEFINITION | 0x0200 | | | X | |
| X | X | SENSOR_VALUE | 0x0201 | Fan Speed and | | X | Diagnostics |
| | X | RECORD_SENSORS | 0x0202 | | | | |
| Category - Dimmer Settings 0x03xx - FUTURE USE | | | | | | | |
| X | X | Dimmer Curve | 0x0343 | | | X | |

| GET ALLOWED | SET ALLOWED | RDM PARAMETER IDS | VALUE | COMMENT | ESTA STANDARD | REQUIRED / | DMX / UI DESCIPTION |
|---|---|---|---|---|---|---|---|
| X |  | Dimmer Curve Description | 0x0344 |  |  | X |  |
| X | X | Modulation Frequency | 0x0347 |  |  | X |  |
| X |  | Modulation Frequency Description | 0x0348 |  |  | X |  |
| Category - Power / Lamp Settings 0x04xx | | | | | | | |
| X | X | DEVICE_HOURS | 0x0400 |  |  | X | Fixture Hours |
| X | X | LAMP_HOURS | 0x0401 |  |  |  |  |
| X | X | LAMP_STRIKES | 0x0402 |  |  |  |  |
| X | X | LAMP_STATE | 0x0403 |  |  |  |  |
| X | X | LAMP_ON_MODE | 0x0404 |  |  |  |  |
| X | X | DEVICE_POWER_CYCLES | 0x0405 |  |  |  |  |
| Category - Display Settings 0x05xx | | | | | | | |
| X | X | DISPLAY_INVERT | 0x0500 |  |  |  |  |
| X | X | DISPLAY_LEVEL | 0x0501 |  |  |  |  |
|  |  | Category - Configuration 0x06xx |  |  |  |  |  |
| X | X | PAN_INVERT | 0x0600 |  |  |  |  |
| X | X | TILT_INVERT | 0x0601 |  |  |  |  |
| X | X | PAN_TILT_SWAP | 0x0602 |  |  |  |  |
| X | X | REAL_TIME_CLOCK | 0x0603 |  |  |  |  |
| Category - Control 0x10xx | | | | | | | |
| X | X | IDENTIFY_DEVICE | 0x1000 |  | X | X |  |
|  | X | RESET_DEVICE | 0x1001 |  |  | X |  |
| X | X | POWER_STATE | 0x1010 |  |  |  |  |
| X | X | PERFORM_SELFTEST | 0x1020 | All Test, Pan/Tilt, Encoder |  |  |  |
| X |  | SELF_TEST_DESCRIPTION | 0x1021 |  |  |  |  |
|  | X | CAPTURE PRESET | 0x1030 | See E1-20_2010a |  |  |  |
| X | X | PRESET PLAYBACK | 0x1031 | Table A-7 defines |  |  |  |
|  |  | ESTA Reserved Future RDM | 0x7FE0-0x7FFF |  |  |  |  |
|  |  | Manufacturer-Specific PIDs | 0x8000-0xFFDF |  |  |  |  |
| X | X | Output Power Mode | 0x8A97 | Value range depends on options (Standard, Studio, etc) |  | X | LED Output Mode |
| X | X | Pan/Tilt Feedback (On/Off) | 0x8AD3 |  |  |  |  |
| X | X | Display On Time | 0x8AA0 | Value range depends on options |  | X | Display On Time |
| X | X | LED Dimmer Curve | 0x8AA1 | Value range depends on options |  |  | LED Dimming Curve |
| X | X | Pan Tilt Movement (On/Off) | 0x8AA2 |  |  |  |  |
| X | X | Head Motor Movement (On/Off) | 0x8AA3 |  |  |  |  |

| GET ALLOWED | SET ALLOWED | RDM PARAMETER IDS | VALUE | COMMENT | ESTA STANDARD | REQUIRED / | DMX / UI DESCIPTION |
|---|---|---|---|---|---|---|---|
| X | X | Auto Shutdown Mode | 0x8AA4 | Value range depends on options | | | |
| X | X | LED Hours | 0x8AA5 | | | | |
| X | X | Dim Snap  (On/Off) | 0x8AA6 | | | | |
| X | X | Color Snap (On/Off) | 0x8AA7 | | | | |
| X | X | Auto Fan Mode  (On/Off) | 0x8AA8 | | | | LED Fan Mode |
| X | X | Gamma Shift | 0x8AA9 | Value range depends on options | | | |
| X | X | Tungsten Dimming  (On/Off) | 0x8AAA | | | | |
| X | X | CTB Correction  (On/Off) | 0x8AAB | | | | |
| X | X | LED Refresh Rate | 0x8AAC | Value range depends on options | | | LED Refresh Rate |
| X | X | Side Hang (On/Off) | 0x8AAD | | | | |
| X | X | Focus Track (On/Off) | 0x8AAE | | | | |
| | X | Control Signel select DMX only/ARtNET (On/Off) | 0x8AAF | | | | |
| | X | Recalibrate Fixture (Level) | 0x8AB0 | different levels (all, position, color, etc) | | | |
| X | X | DMX Fail  (Hold, Blackout, GOTO Preset) | 0x8AB1 | | | | DMX Fail |
| X | X | ArtNet Universe | 0x8AB2 | | | | |
| X | X | ArtNet Net | 0x8AB3 | | | | |
| X | X | ArtNet Sub-Net | 0x8AB4 | | | | |
| X | X | ArtNet Ethernet IP | 0x8AB5 | | | | |
| X | X | ArtNet Ethernet Sub-Net Mask | 0x8AB6 | | | | |
| X | X | Manual PRESET Playback Power Up Preset | 0x8AB7 | | | | |
| X | X | Manual PRESET Playback Preset Intensity | 0x8AB8 | | | | |
| X | X | Manual PRESET Playback Priority | 0x8AB9 | | | | |
| X | X | Manual PRESET Playback Power Up? | 0x8ABA | | | | |
| X | X | LED Color Calibration (On/Off) | 0x8ABB | | | X | LED Color Calibration |

# APPENDIX A
# CARE AND MAINTENANCE

## TROUBLESHOOTING

The following are a few common problems that may occur during operation.

**Luminaire does not work; light and fan do not turn on.**

- Check power connection and main fuse.
- Measure the mains voltage on the main connector.

**Not responding to DMX controller.**

- If DMX LED is not illuminated, verify that the DMX cables are properly connected.
- If the DMX LED is illuminated and there is no response, verify DMX address settings and the DMX polarity.
- If you experience intermittent DMX signal problems, check the pins on the connectors or on the PCB.
- Test with a different DMX controller.
- Check if the DMX cables run near or alongside high voltage cables that may cause interference to the DMX interface circuit.

## CLEANING

Cleaning the inside of the luminaire must be carried out periodically in order to optimize the light output.Cleaning frequency depends on the environment in which the fixture operates. Damp, smoky or particularly dusty surroundings can cause greater accumulation of dirt on the fixture's optics.

- Clean with a soft cloth using glass cleaning fluid.
- Dry parts carefully.
- Clean the external optics at least every 30 days.

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# TECHNICAL SUPPORT

**GLOBAL 24HR TECHNICAL SUPPORT:**

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