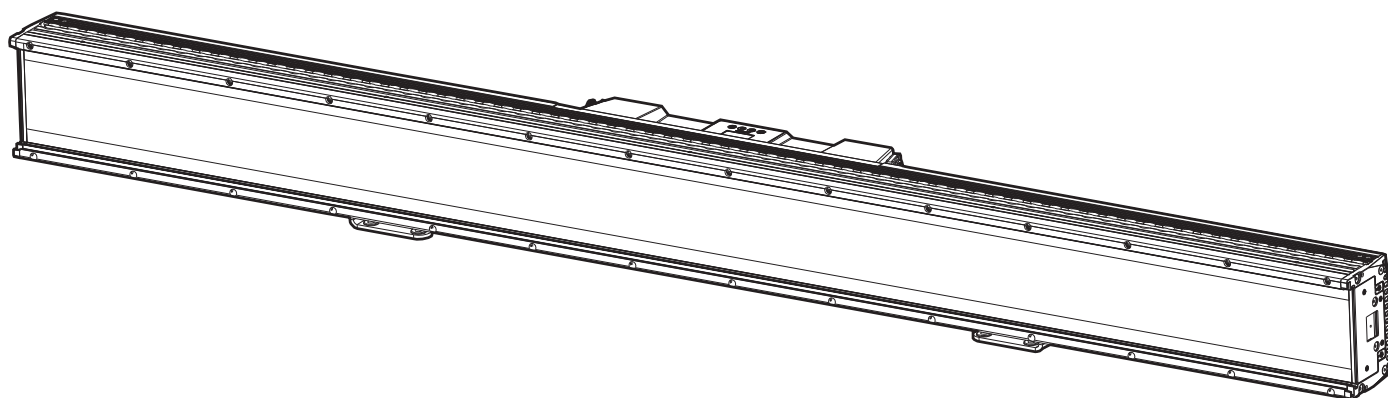


ELATION[®]



Batten 72

user manual

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DOCUMENT VERSION



Due to additional product features and/or enhancements, an updated version of this document may be available online. Please scan the QR Code with your mobile device or visit www.elationlighting.com for the latest revision/update of this manual, before installation and/or programming.

Date	Document Version	Software Version	DMX Channels	Notes
04/17/2026	1.0	1.01	1 / 3A / 4A / 4B / 3B / 6A / 10 / 14 / 22 / 16A / 6B / 8 / 6C / 20A / 20B / 35 / 9A / 12A / 9B / 30 / 26 / 48A / 12B / 16B / 12C / 40 / 32A / 61 / 18A / 24A / 18B / 60 / 44 / 87 / 24B / 32B / 24C / 80A / 56 / 113 / 36A / 48B / 36B / 120 / 80B / 165 / 72A / 96 / 72B / 240 / 152 / 321 Ch	Initial Release
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GENERAL INFORMATION

FOR PROFESSIONAL USE ONLY

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.

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.

BOX CONTENTS

Safety Cable (x1)
Border Light Filter (x1)
Glare Shield (x1)
Power Cable (x2)

CUSTOMER SUPPORT

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

ELATION SERVICE USA - Monday - Friday 8:00am to 4:30pm PST
323-582-3322 | support@elationlighting.com

ELATION SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET
+31 45 546 85 63 | support@elationlighting.eu

REPLACEMENT PARTS please visit parts.elationlighting.com

It is strongly recommended to power the fixture down completely when not in use. Doing so will reduce wear on the fixture due to sustained or extended operational periods, thereby maximizing its operational lifespan.

GENERAL INFORMATION

LIMITED WARRANTY

For up-to-date warranty information regarding your device, please visit Elation's warranty page online or scan the QR codes below.



USA: <https://www.elationlighting.com/warranty-information>



EU: https://www.elationlighting.eu/terms_and_conditions

PRODUCT REGISTRATION

To register your product, please visit the page listed below or scan the QR code.



USA: <https://www.elationlighting.com/pages/product-warranty-registration>

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/Seaside Environment Installations: A maritime/seaside environment is adjacent to the sea and caustic to electronics through exposure to atomized salt water and humidity, whereas a coastal environment extends 5 miles inland.



NOT suitable for maritime/seaside environment installations. Installing this fixture in a maritime/seaside 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/seaside environment will void the manufacturer's warranty, and will NOT be subject to any warranty claims and/or repairs.

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

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

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

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

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

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

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

SAFETY GUIDELINES

This fixture is a sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. Elation Professional 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 (such as omega brackets) 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.



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!**

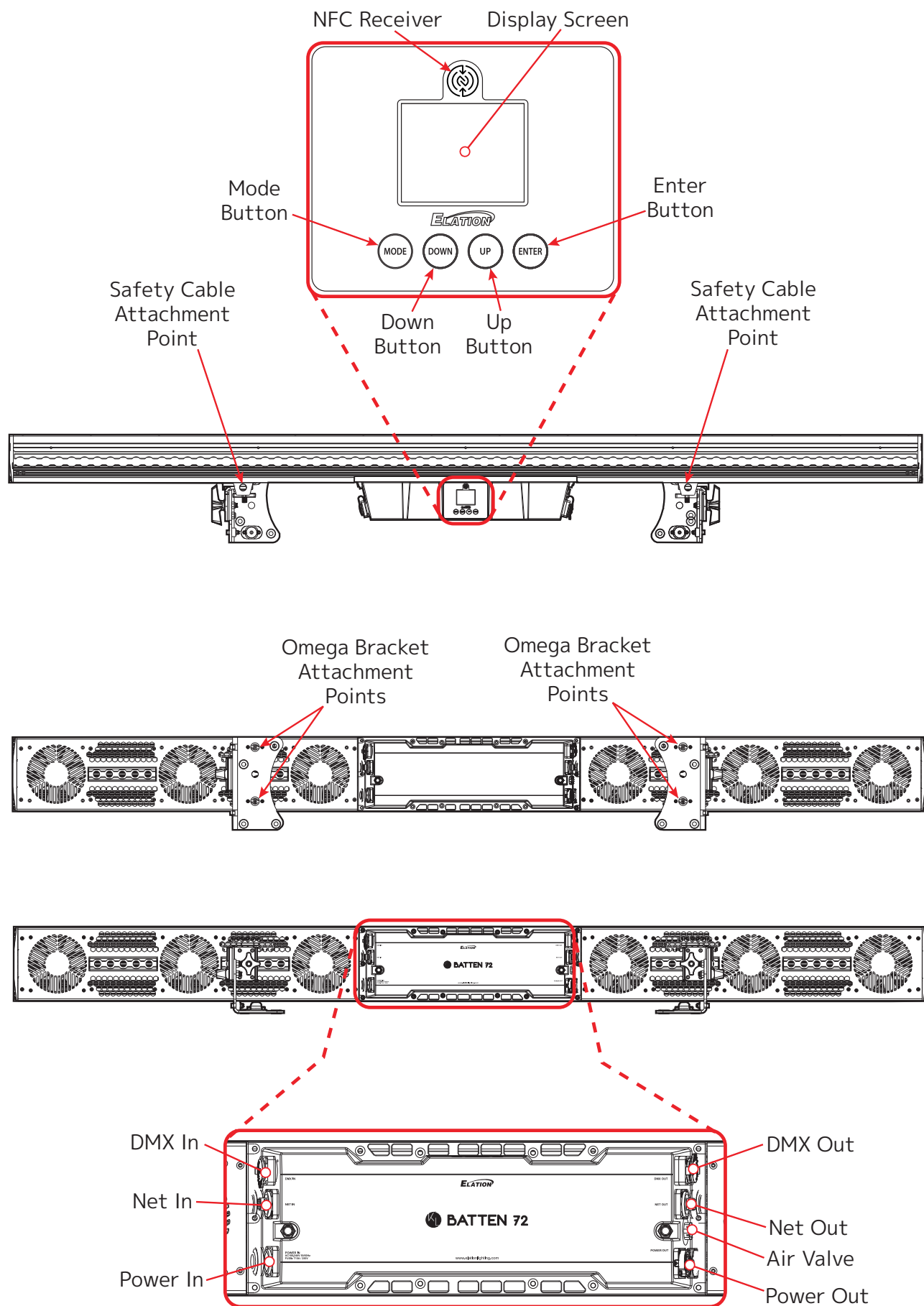


**MINIMUM DISTANCE TO OBJECTS/SURFACES MUST BE 1.6 FEET (0.5 METERS)
MINIMUM DISTANCE OF FLAMMABLE MATERIALS FROM THE SURFACE 1.6 FEET (0.5 METER)
MINIMUM DISTANCE TO LIGHTED OBJECTS IS 1.6 FEET (0.5 METERS)
AMBIENT OPERATING TEMPERATURE RANGE IS -40°F TO 131°F (-40°C TO 55°C)**

SAFETY GUIDELINES

- **DO NOT** shake fixture, and avoid using brute force when installing and/or operating the fixture.
- **DO NOT** operate the fixture if the power cord is frayed, crimped, damaged, and/or if any of the power cord connectors are damaged and do not plug 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.
- Leave approx. 6" (15cm) between the fixture and other devices or a wall in order to allow for proper cooling.
- Always disconnect the fixture from the 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 on the wire portion of the cord.
- Consistent operational breaks will ensure fixture will function properly for many years.
- **ONLY** use the original packaging and materials to transport the fixture for service.
- This fixture is intended for professional use only.
- The light source contained in this fixture shall only be replaced by the manufacturer or manufacturer's service agent or similar qualified person.

OVERVIEW



INSTALLATION GUIDELINES



FLAMMABLE MATERIAL WARNING

Keep fixture minimum 1.6 feet (0.5m) 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 SURFACES/OBJECTS IS 1.6 FEET (0.5 METER).

MINIMUM DISTANCE TO FLAMMABLE MATERIALS IS 1.6 FEET (0.5 METER).

MINIMUM DISTANCE TO LIGHTED OBJECTS IS 1.6 FEET (0.5 METERS)

AMBIENT OPERATING TEMPERATURE RANGE IS -40°F TO 131° F (-40°C TO 55° C).



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 the fixture to any metal truss/structure or placing the fixture 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, clamps, cables, and accessories.

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

Ambient operating temperature range is **-40°F to 131°F (-40°C to 55°C)**. Do not operate the fixture when the ambient temperature falls outside this range.

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

NEVER stand directly below the fixture(s) when rigging, removing, or servicing.

Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable.

Allow approximately 15 minutes for the fixture to cool down before servicing.

Powering down the fixture when not in use is strongly recommended.

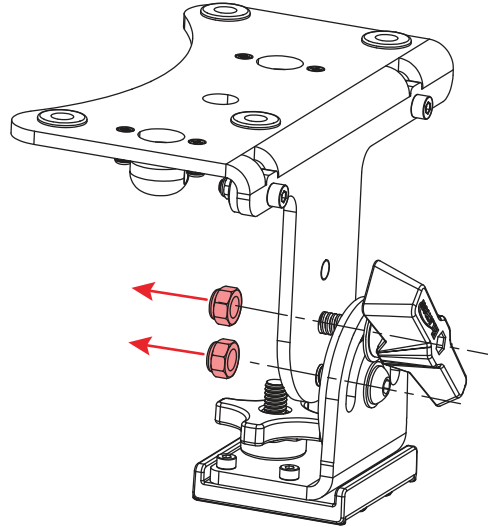
CONDENSATION AND MOISTURE INSPECTION

Before powering on, remove the fixture from its packaging or road case in a dry, controlled environment and inspect for transport damage or signs of condensation/moisture caused by temperature changes (e.g., cold storage to warm venue). Allow full acclimation to ambient temperature (at least 1–2 hours) until any condensation evaporates completely to prevent electrical damage, short circuits, or corrosion. Do not operate if moisture is present, as this may cause irreversible damage and void the warranty. If issues persist, consult the troubleshooting guide or contact technical support.

INSTALLATION GUIDELINES

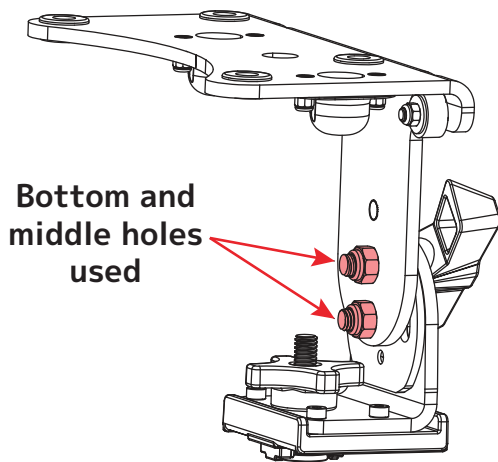
ADJUSTABLE BRACKET POSITION FOR LOW CLEARANCES:

The position of the mount brackets can be adjusted to allow for low clearance configurations. In order to do this, simply remove the two nuts on the inside of the bracket arm, then slide the bracket arm off of the angle adjustment mechanism.

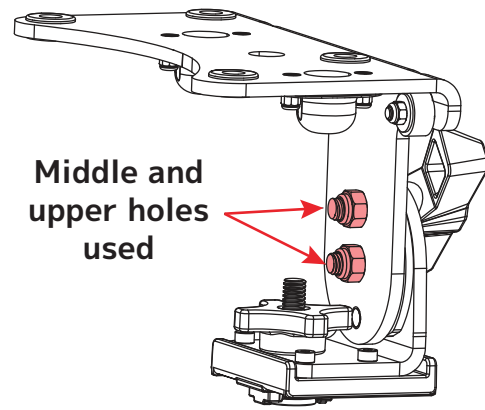


For the high clearance position, insert the bolts on the angle adjustment mechanism into the bottom and middle holes on the bracket arm, as shown on the left. For the low clearance position, insert the bolts on the angle adjustment mechanism into the middle and top holes on the bracket arm, as shown on the right. Re-attach the nuts to secure in place.

HIGH CLEARANCE



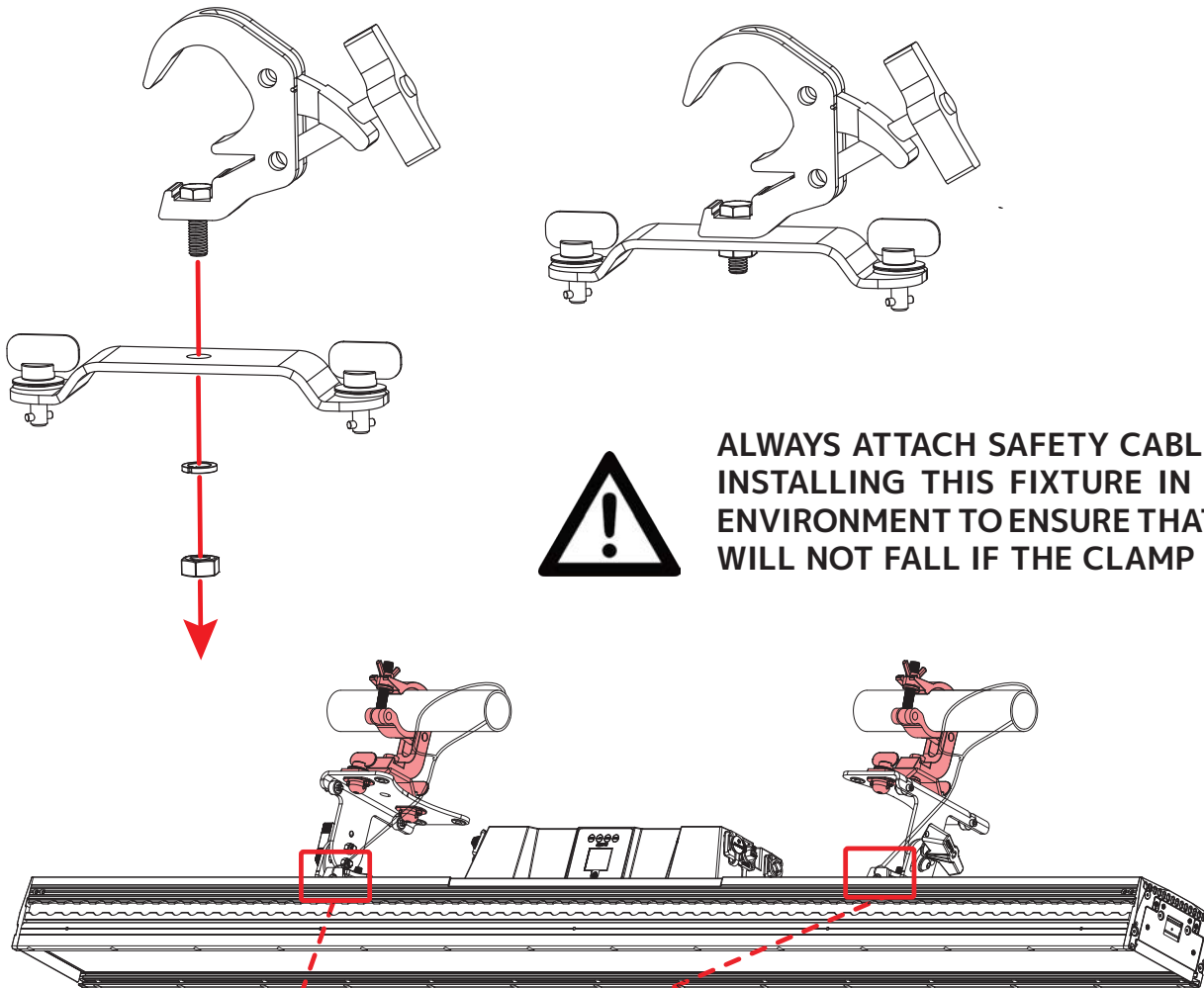
LOW CLEARANCE



INSTALLATION GUIDELINES

OMEGA BRACKETS WITH CLAMP INSTALLATION:

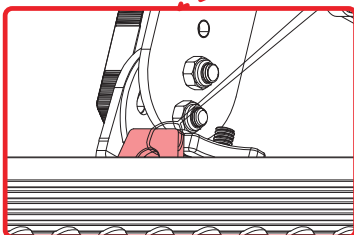
When mounting a fixture to a truss, be sure to secure an appropriately rated professional grade rigging clamp to each included **Omega bracket** using an M10 screw fitted through the center hole of the Omega bracket. Insert the Omega bracket into the mounting holes on the fixture yoke. Secure the Omega brackets to the fixture by turning each quick-lock fastener 1/4 turn clockwise, making sure the fastener is completely locked. **Please note that two Omega brackets and two mounting clamps are required to securely install this fixture.** Omega brackets can be installed onto the fixture as illustrated below.



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

RIGGING

Overhead rigging requires extensive experience, including but not limited to: calculating working load limits, knowledge of installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt to perform the installation yourself, as improper installation can result in bodily injury. The fixture provides built in rigging points for a **SAFETY CABLES** (not included) near the base of each mounting yoke. Be sure to use only the designated rigging points for the safety cable, and **NEVER** use any other point to secure the safety cable. Connect the safety cable to the attachment point and route it around the truss.



Safety cables attached to mounting points

INSTALLATION GUIDELINES

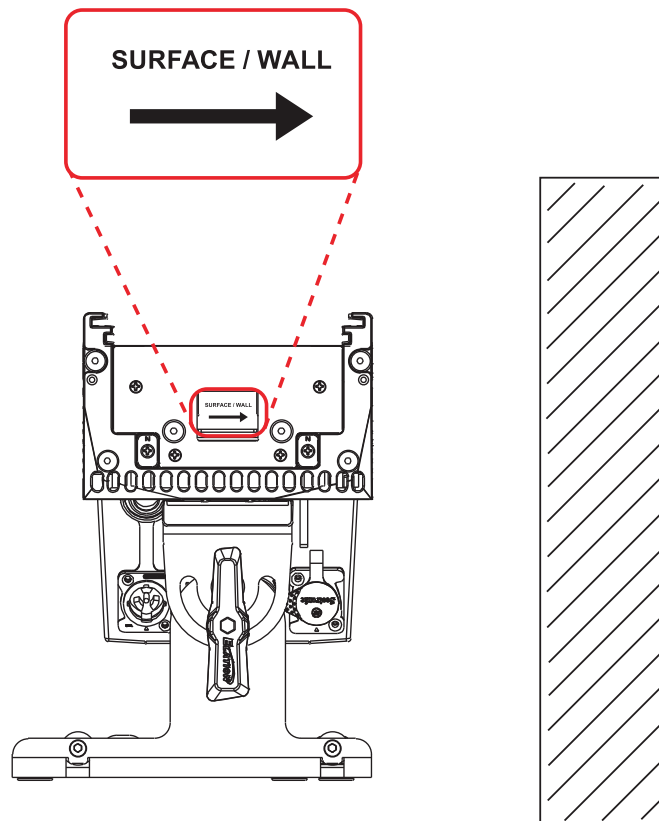
ASYMMETRICAL LENS ORIENTATION

This fixture features a special compound lens which is designed to create even illumination on vertical surfaces such as walls or cycloramas. The section of the lens that features linear refraction patterns should be oriented nearest to the vertical surface that is being illuminated, while the section without these patterns should be oriented further away. The fixture's silk screen clearly indicates the side of the fixture that should be oriented towards the vertical surface. Please refer to the images below.

**Un-patterned section
should be oriented away from
the wall or vertical surface**



**Linear Refraction Patterns
should be oriented toward
the wall or vertical surface**



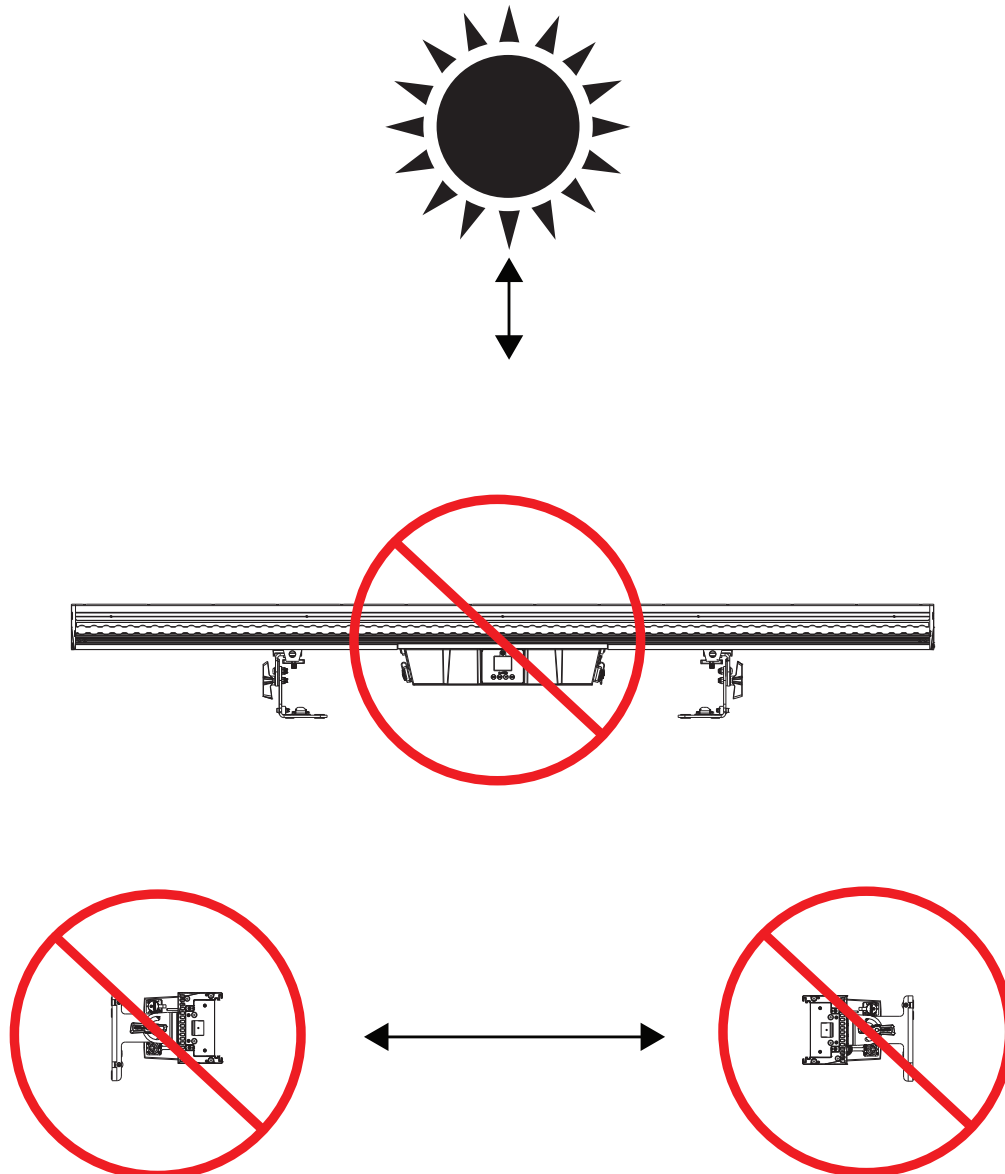
INSTALLATION GUIDELINES

POTENTIAL INTERNAL FIXTURE DAMAGE FROM EXTERNAL SOURCES OF LIGHT BEAMS

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

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

DO NOT EXPOSE THE FIXTURE AND/OR FRONT LENS OPENING TO LIGHT BEAMS FROM DIRECT SUNLIGHT, OTHER FIXTURES, OR LASERS UNDER ANY CIRCUMSTANCES. PLEASE NOTE THAT THIS INCLUDES EXTENDED PERIODS OF NON-USE, AS DAMAGE CAN OCCUR EVEN WHEN THE FIXTURE IS OFF. NEVER FOCUS A LIGHT BEAM FROM ONE LIGHTING FIXTURE DIRECTLY TOWARDS ANOTHER.

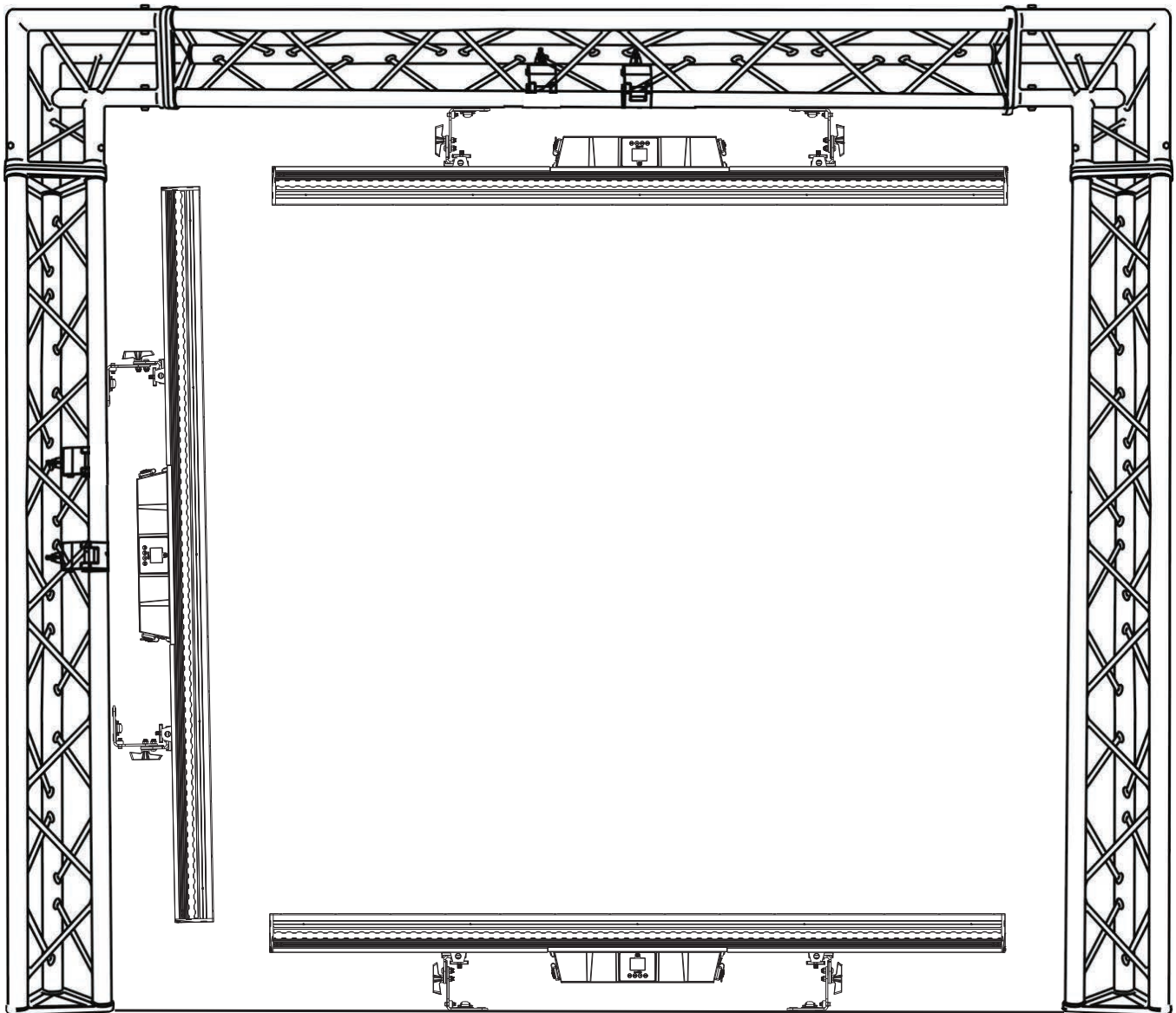


INSTALLATION GUIDELINES

RIGGING

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

The fixture is fully operational in the following positions: hanging from a horizontal truss, suspended sideways from a vertical truss, or standing upright on a flat, level surface. See the illustration below for reference.



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



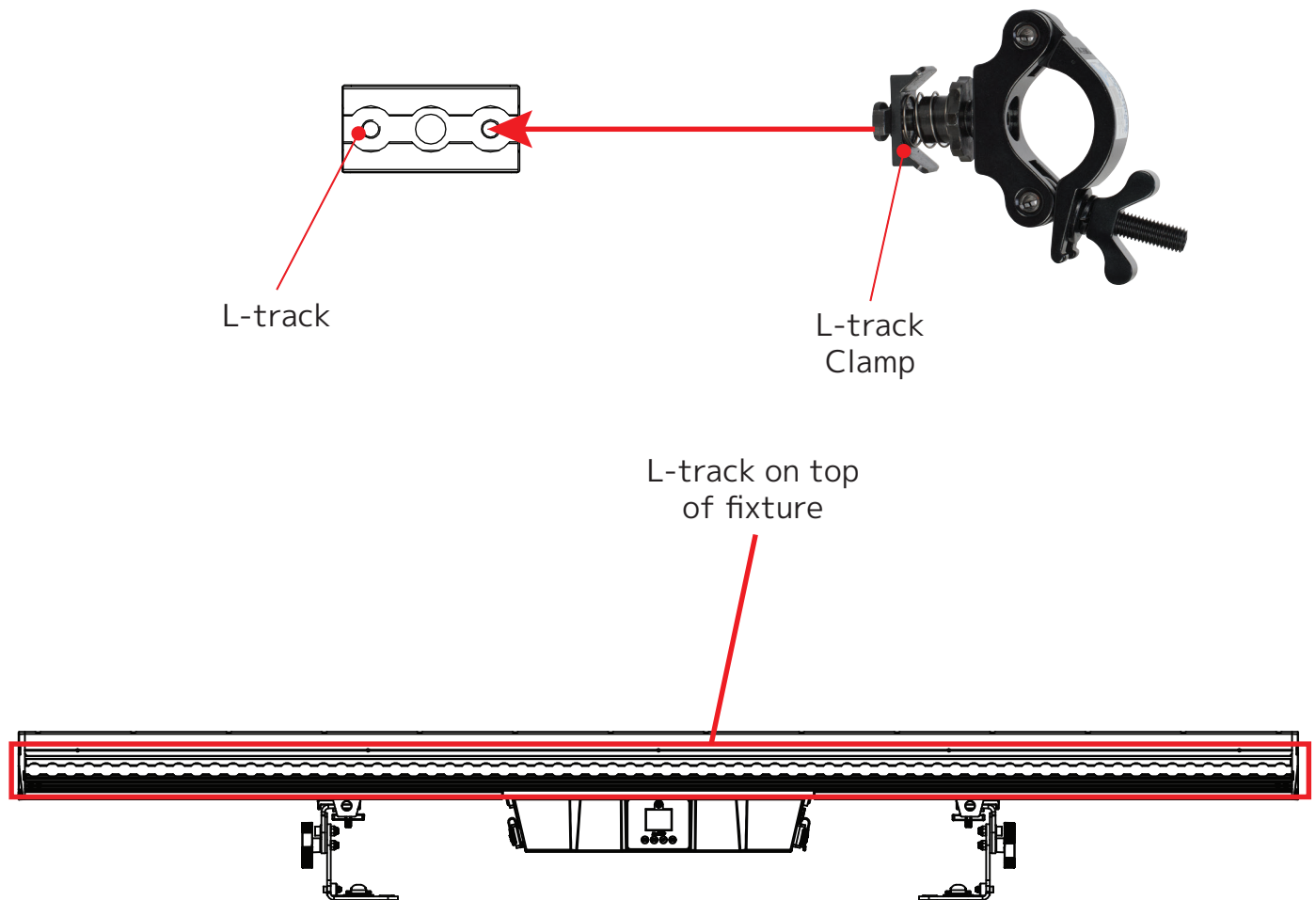
ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.

ACCESSORY INSTALLATION

L-TRACK MOUNTING

Alternately, this unit's L-track mounting system allows the user to slide the mounting clamps along the tracks and lock them down in the desired position. The L-tracks are located on the top of the unit's body. Special L-track mounting clamps, which incorporate an L-track attachment rail in place of a mounting bolt hole, are available in both regular and extended lengths. Similarly, L-track adapters are also available which can be fitted to any standard mounting clamp.

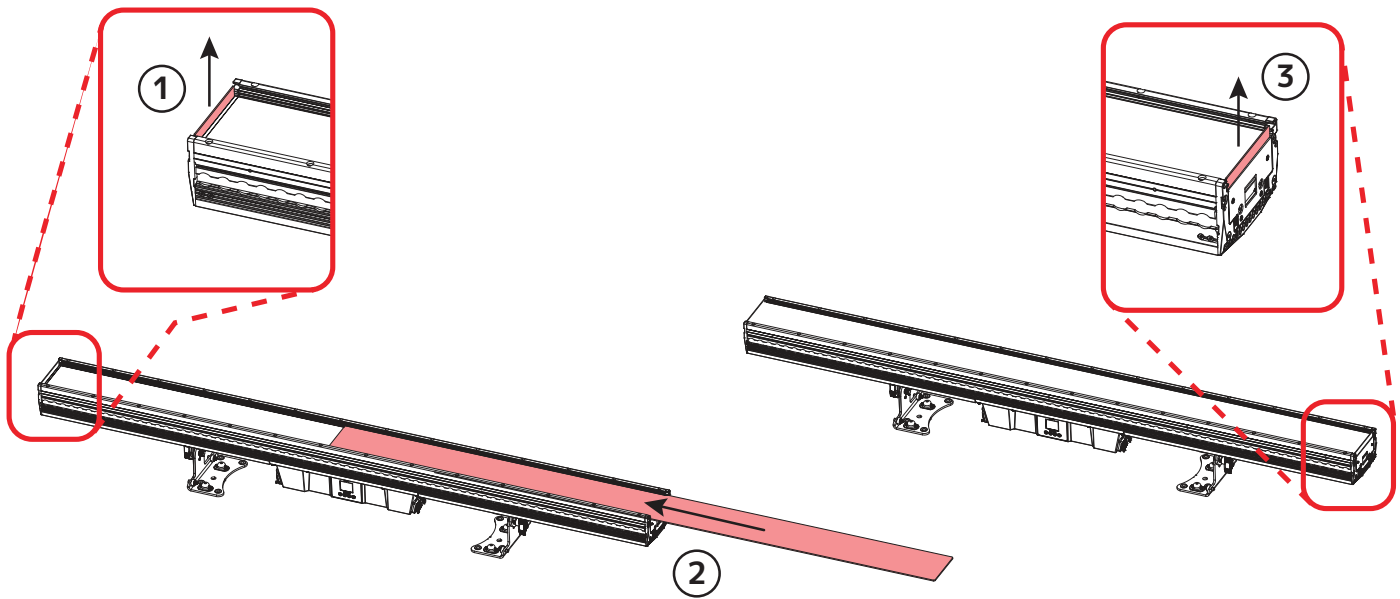
To attach an L-track clamp or adapter, simply insert the attachment rail into the matching track on the fixture, slide to its desired location, and tighten the fastener knob on the attachment to secure in place.



ACCESSORY INSTALLATION

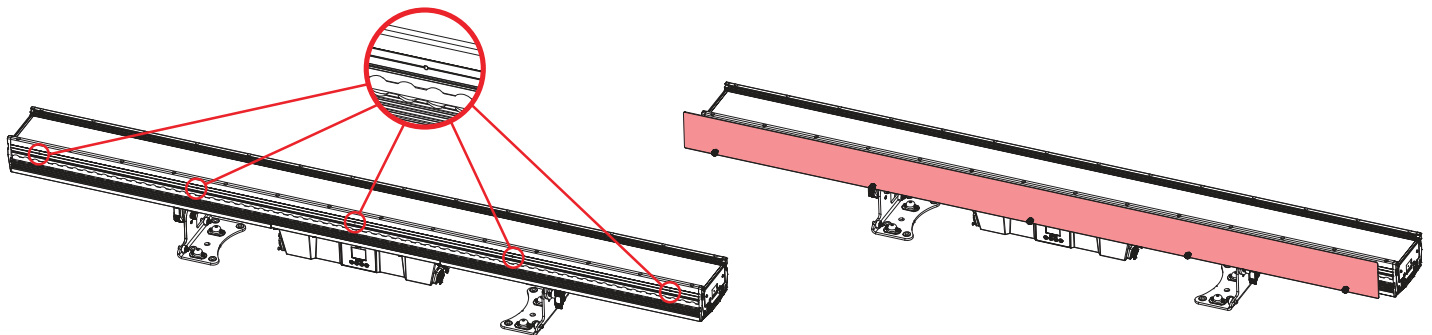
BORDER LIGHT FILTER

Raise the positioning border on one side of the fixture's lens frame (1). From the opposite side, slide the border light filter into the slot in the frame (2). Finally, raise the other positioning border to secure the border light filter in place (3).



GLARE SHIELD

Locate the five mounting holes on the side of the fixture for the glare shield, as shown in the below left image. Align the mounting screws of the glare shield with these mounting holes, then tighten these screws to secure the glare shield in place.



NEAR FIELD COMMUNICATION (NFC)

INTRODUCTION: Near Field Communication (NFC) is a short-range wireless technology, operating at 13.56 MHz, that enables secure data exchange between devices within a proximity of 6-inches. With NFC, one can use an Android or iOS device to configure an NFC compatible fixture. NFC operates in a Reader/Writer Mode, which allows an NFC device to read or write data to an NFC tag. In regards to lighting fixtures, NFC can be used to simplify the process of changing the address, mode, or any other setting that would typically be accessed via the control panel. The technology is built on RFID standards, including ISO/IEC 14443 and ISO/IEC 18092, ensuring compatibility between NFC devices. NFC also incorporates encryption and authentication protocols.

Scan the QR code below to download the NFC App.



Android



Apple

NFC APP HOME PAGE:

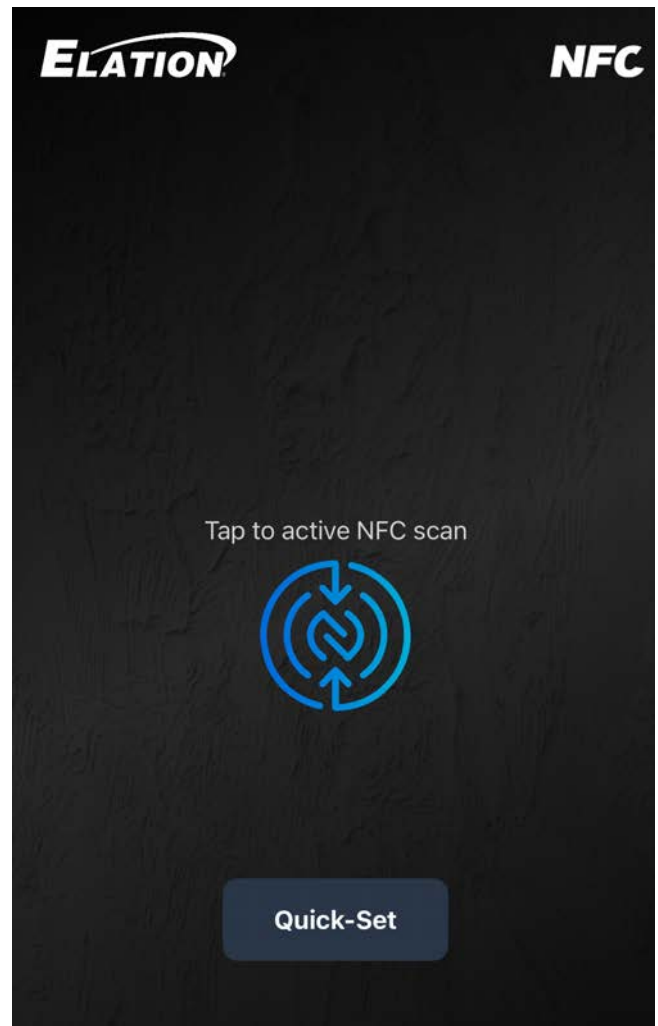
Upon opening the NFC app, two options will be displayed on the screen: **Tap to Activate** or **Quick Set**.

- **Tap to Activate:** tap the icon shown below to bring up a scan function that will pull existing settings from a fixture, without needing to search through the list of available fixtures.



- **Quick-Set:** search for a specific fixture and make changes to settings prior to establishing a connection with a fixture.

FIXTURE LIST: In some instances, a Fixture List option will also appear on the app home page. This feature allows the user to search through a list of available fixtures to select which one to connect to. This option will not appear if no fixtures have been added yet, as seen in the image of the home screen to the right.

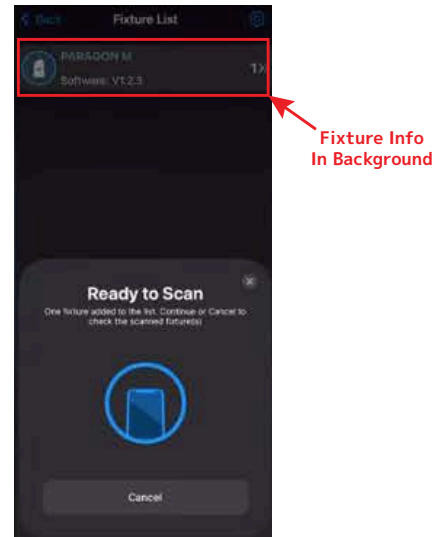
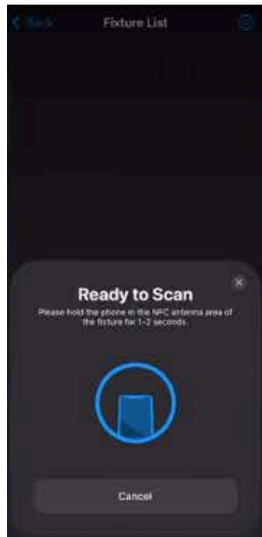


The following sections explain in detail how each option works.

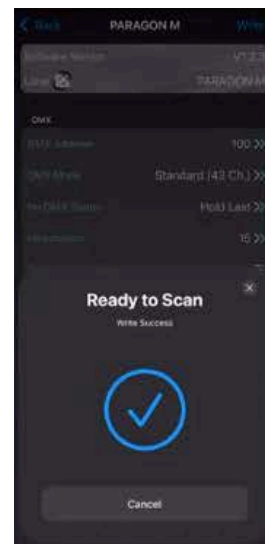
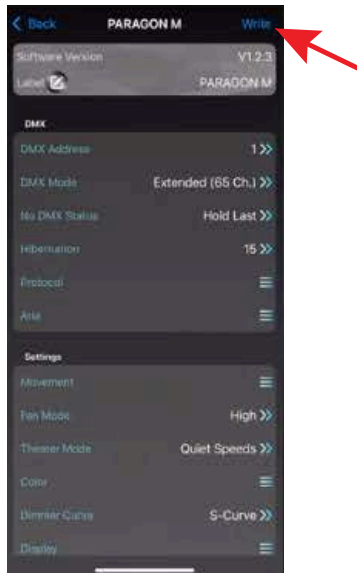
NEAR FIELD COMMUNICATION (NFC)

TAP TO ACTIVATE

1. When the NFC icon on the app is tapped, a window will appear at the bottom informing the user that the app is ready to scan. At this point, the controlling device should be held up to the NFC icon on the fixture.
2. The app will pull the settings from the fixture, and the fixture's name will appear in the background. Press "Cancel" on the scan window to close it out and access the fixture shown in the app background.



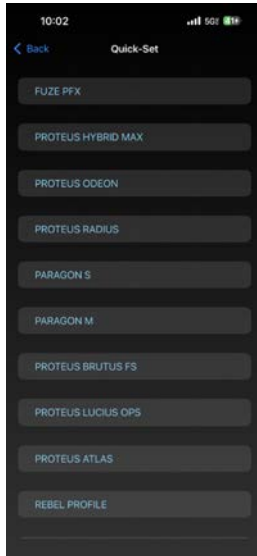
3. Select the fixture. This opens a window where the user can view or change the settings before uploading them to the fixture. With the settings updated, tap "Write" at the top right of the screen.
4. A window will open up informing the user that the app is ready to scan. Hold the controlling device up to the NFC icon on the fixture, and the updated settings will be loaded to the fixture. Upon completion, a message stating "Write Success" will be shown.



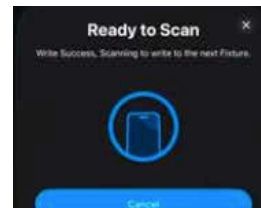
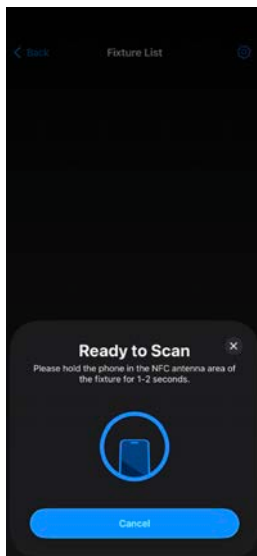
NEAR FIELD COMMUNICATION (NFC)

Quick Set

1. Select the fixture model from the list of options that is shown.
2. This will open up a screen where fixture settings can be viewed or changed. In addition to the typical fixture settings that can be found here, there is also an “**Address**” option that can be useful for applying the same settings to multiple fixtures: **Duplicate** will set each fixture configured with the NFC app to the same address, while **Increase** will set each fixture to sequential addresses.



3. When the desired changes have been made, tap “Write to NFC.” This will trigger a “Ready to Scan” window to appear.
4. Hold the controlling device up to the fixture’s NFC mark for a few seconds. The app will display a success message when the settings have been successfully loaded to the fixture.



NEAR FIELD COMMUNICATION (NFC)

Tips for Successful NFC Interaction

- The NFC chip is typically located near the top of the device for Apple phones, while Android based phones usually have it along the back side.
- Some fixtures will have NFC points on the front of the device (typically near the control panel) as well as on the bottom of the base. This allows NFC functionality even in the event that the fixtures are stored in road cases.
- Fixtures do not necessarily need to be powered on for NFC functionality. In many cases, if the device is off, the information will simply be stored in the chip and accessed when the device is powered on.
- Maintain a short-range distance (6 inches or less) between the control device and the indicated NFC area of the fixture.
- Ensure your device supports NFC, and has the necessary apps for interaction.
- Avoid obstacles between the devices, like metal objects, to ensure smooth communication.
- Ensure that your application is running the latest software version.

ARIA SETUP AND GUIDELINES

This fixture is equipped with Aria X2. Please note that Aria's wireless functions are switched off by default. Activate Aria X2 and Bluetooth in the system menu to take advantage of the fixture's wireless feature set for wireless connectivity and over the air software updates.

2.4GHZ Versus Sub-Gig (GHz) Frequencies:

Sub-GHz frequencies provide superior reliability and range compared to higher frequencies, making them perfect for consistent communication across vast distances or in difficult conditions. Devices operating in the sub-GHz range, which refers to frequencies below 1 GHz, can transmit signals over significant distances and can penetrate physical barriers such as walls and buildings more effectively. Additionally, these frequencies experience less interference compared to those in the heavily congested 2.4-GHz band, which is commonly used by wireless devices.

In the United States, the 900 MHz band is a versatile frequency range that is utilized by various services, with the FCC overseeing its allocation and regulation.

In the European Union, the 868 MHz frequency is designated by ETSI as the Sub-Gig frequency.

In summary, if an application demands high data rates and more bandwidth in urban or densely populated areas where interference management is feasible, the 2.4 GHz frequency is a suitable choice. On the other hand, for applications requiring long-range communication and better obstacle penetration, particularly in rural or industrial settings with fewer regulatory constraints, a sub-GHz frequency (<1 GHz) is a better option.

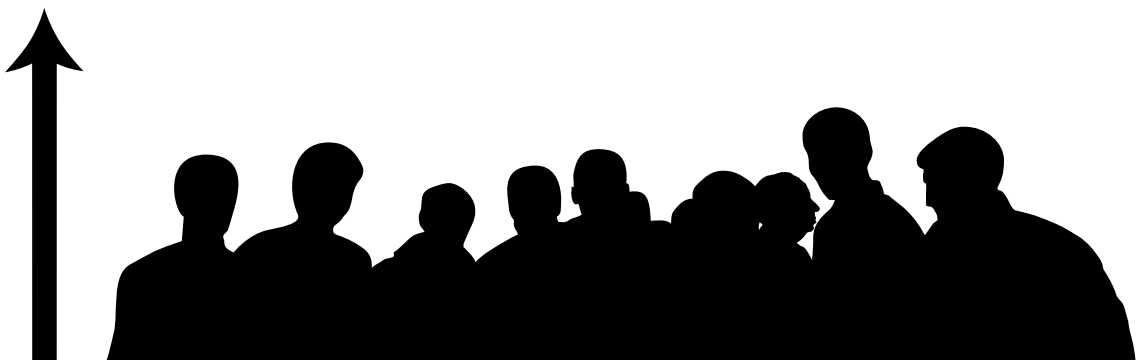
Installation Recommendations:

With the many factors that affect and/or interrupt a wireless signal such as walls, glass, metal, objects, and people, it is highly recommended to:

- Install devices a minimum of 9.8 ft. (3m) above audiences and/or ground level where practical.
- Adjust the wireless antenna in a vertical upright position
- Position devices in direct line of sight of the controlling device

Careful planning and testing of the selected installation location is critical to ensure optimum and reliable wireless operation.

**9.8 ft (3m)
Above Ground**



ARIA SETUP AND GUIDELINES

GENERAL INFORMATION

The Aria Bluetooth app has the ability to connect wirelessly to any device that has Aria wireless DMX installed and has Bluetooth enabled.

Before installing the fixture in a remote location, double check that the fixture's main power is switched on, and that the Bluetooth function has been enabled in the fixture's system menu. Certain fixtures may have Bluetooth disabled by default. If this function is disabled, then the fixture cannot be configured remotely using the Aria app, and will have to be configured directly from the fixture's control screen.

Additionally, the user should consider setting the fixture's No DMX setting to "Hold Last". This will allow the fixture to continue running using the current settings, even if the Aria app device moves out of range, the app is closed, or the signal is otherwise interrupted, minimizing disruption in the operation of the fixtures.

LEGACY DEVICES

Please note that legacy connected devices, such as those using Wifly, E-Fly, or Magfly, are not compatible with this app. For such legacy devices, the use of a bridge is recommended, as the bridge can communicate with these devices via its SM220 protocol.

The Aria X2 BLE app is currently available from the Apple app store.

FIXTURE IDENTIFICATION

Aria compatible devices can be identified and connected via the Fixtures tab in the app. This tab displays a field of twenty-four buttons that can be assigned to Aria compatible devices that are within range, and the buttons will automatically be assigned to devices in the order in which they are discovered. If more than twenty-four units are within range, it may be necessary to use the filter feature to search for the desired fixture. Button location can be edited by selecting the configuration key, then the user can drag and drop the buttons to the desired location and hit save to keep changes. Once a device is known to the app, it can also be assigned to a particular button. From that point forward, the assigned device will always be assigned to that button location.

IMPORTANT NOTE: For version 0.65 or higher, a shared system password is required to connect to any device.

Unlike wireless DMX, Bluetooth is a connect first protocol. To connect to a device or fixture, tap the assigned button in the Fixtures tab. If the connection is successful, a green frame will appear around the button, indicating that the app was able to retrieve the current channel values from the fixture. The app must be connected to a fixture in order to use its channel controls or view and change settings. Please note that not all Aria devices have channel controls.

Additionally, each fixture can only be connected to one device with the app at any given time. Once a fixture is connected to the app installed on one device, any other devices will be blocked from connecting. As a result, when setting up a new fixture for the first time, best practice is to have only a single user with the app open within range, in order to ensure that the fixture pairs to the intended user's device.

ARIA SETUP AND GUIDELINES

DETECTED DEVICES

The second table section shows all Aria devices detected in range. A checkmark indicates the device is currently assigned to a button. If more than 24 devices are within range, the user may remove or add devices to the buttons list by tapping a row to check or uncheck a device. If all buttons are full, it will be necessary to uncheck a device before adding another.

Filter: The user can filter which Aria devices get button assignments by tapping “filter” at the top of the view. A popup will appear where the user can enter text to filter devices by username, model name, or manufacturer. **Please note that these searches are case sensitive.**

Note: If a device shows an asterisk (*) it means that there is no fixture profile currently available, and therefore there will be limited support available for that device. The user will still be able to connect and adjust channels if the device supports that feature, but the user will not be able to view how many channels the device has or the channel names.

SECURITY

Each fixture must have a password saved to be secure. When a new fixture is installed for the first time, its password will automatically be set to the app’s system password on first connection. Once the password has been entered, the user will need to exit out to the main page containing the fixture buttons, then de-select and re-select the fixture to lock in the password. From that point forward only, controlling devices that use the correct password can connect to this fixture. **This security is now required by law in most jurisdictions.**

The app will detect any Aria capable fixture within range, even if the app does not have the password to that fixture and therefore cannot access that fixture. If that fixture is selected in the app, the green frame will momentarily appear around that fixture’s button, but then disappear. This indicates that the fixture is visible but inaccessible.

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
22A6	0x006E	110	1ch, 3ch-A, 4ch-A, 4ch-B, 3ch-B, 6ch-A, 10ch, 14ch, 22ch, 16ch-A, 6ch-B, 8ch, 6ch-C, 20ch-A, 20ch-B, 35ch, 9ch-A, 12ch-A, 9ch-B, 30ch, 26ch, 48ch-A, 12ch-B, 16ch-B, 12ch-C, 40ch, 32ch-A, 61ch, 18ch-A, 24ch-A, 18ch-B, 60ch, 44ch, 87ch, 24ch-B, 32ch-B, 24ch-C, 80ch-A, 56ch, 113ch, 36ch-A, 48ch-B, 36ch-B, 120ch, 80ch-B, 165ch, 72ch-A, 96ch, 72ch-B, 240ch, 152ch, 321ch

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.

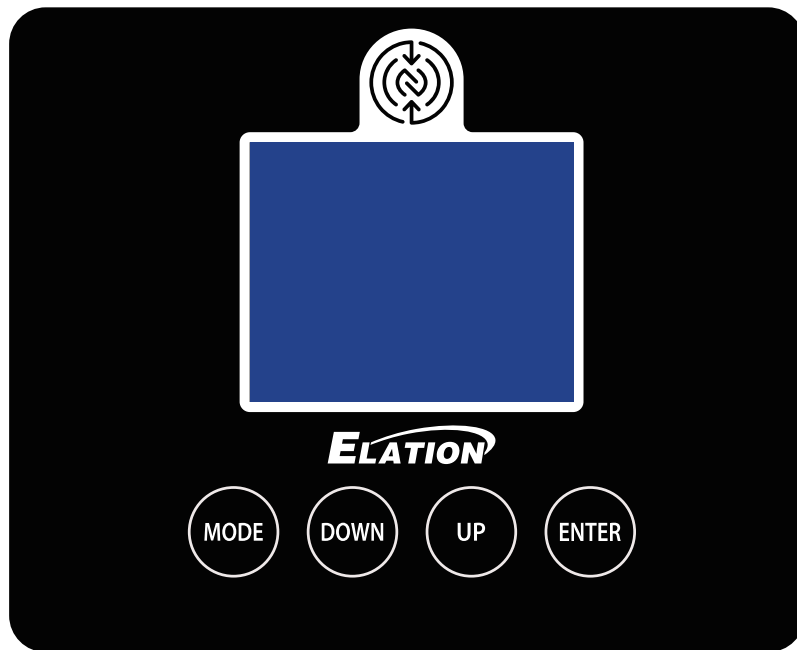
The following parameters are accessible in RDM on this device:

CODE	PARAMETER	CODE	PARAMETER
0x0200	Sensor Definition	0x00C1	Boot Software Version ID
0x0201	Sensor Value	0x0070	Product Detail ID List
0x0080	Device Model Description	0x0500	Display Invert
0x0081	Manufacturer Label	0x0400	Device Hours
0x0082	Device Label	0x0343	Curve
0x00E0	DMX Personality	0x0344	Curve Description
0x00E1	DMX Personality Description	0x0345	Output Response Time
0x0090	Factory Defaults	0x0346	Output Response Time Description
0x0020	Queued Message	0x00F0	DMX Start Address
0x0122	Default Slot Value	0x0050	Supported Parameters
0x00C2	Boot Software Version Label		

CONTROL PANEL

The fixture includes an easy to navigate system menu. The touch control panel display located on the rear of the fixture (illustrated below) provides access to the main system menu where all necessary system adjustments are made to the fixture.

- Navigate through the main menu options with the **MODE** button.
- Once you reach the desired menu option, press the **ENTER** button to activate that field. Use the **DOWN** and **UP** buttons to adjust the field or to select from the sub-menus, if applicable.
- Pressing the **ENTER** button once more will confirm the setting.
- Exit to the previous menu at any time without making any adjustments by pressing the **MODE** button.



KEY LOCK

The control keys can be configured to lock after a pre-set period of inactivity. By default, the keys will lock after 1 minute of inactivity, but this setting can be configured to activate after a period of inactivity ranging from 10 seconds and 5 minutes, or disabled entirely so that the keys will always remain unlocked. To change this setting, use the control panel keys to navigate to Settings > Display > Screen Lock in the system menu, then use the UP and DOWN keys to select your desired value. Press the ENTER button to confirm your selection. **To unlock the controls, press UP, DOWN, UP, DOWN, ENTER.**

SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in BOLD)	
DMX	DMX Address	001 - 512
	DMX Mode	1Ch Dimmer
		3Ch RGB
		4Ch RGBA
		4Ch Dimmer/CCT
		3Ch HSI
		6Ch HSIC
		10Ch RGBMA
		14Ch Standard
		22Ch Extended
		16Ch xy Extended
		6Ch RGB 2 Cell
		8Ch RGBA 2 Cell
		6Ch HSI 2 Cell
		20Ch RGBMA 2 Cell
		20Ch Standard 2 Cell
		35Ch Extended 2 Cell
		9Ch RGB 3 Cell
		12Ch RGBA 3 Cell
		9Ch HSI 3 Cell
		30Ch RGBMA 3 Cell
		26Ch Standard 3 Cell
		48Ch Extended 3 Cell
		12Ch RGB 4 Cell
		16Ch RGBA 4 Cell
		12Ch HSI 4 Cell
		40Ch RGBMA 4 Cell
		32Ch Standard 4 Cell
		61Ch Extended 4 Cell
		18Ch RGB 6 Cell
		24Ch RGBA 6 Cell
		18Ch HSI 6 Cell
		60Ch RGBMA 6 Cell
		44Ch Standard 6 Cell
		87Ch Extended 6 Cell
		24Ch RGB 8 Cell
		32Ch RGBA 8 Cell
		24Ch HSI 8 Cell
		80Ch RGBMA 8 Cell
		56Ch Standard 8 Cell
		113Ch Extended 8 Cell

SYSTEM MENU

MAIN MENU		OPTIONS / VALUES (Default Settings in BOLD)	
DMX (CONTINUED)	DMX Mode (continued)	36Ch RGB 12 Cell	
		48Ch RGBA 12 Cell	
		36Ch HSI 12 Cell	
		120Ch RGBMA 12 Cell	
		80Ch Standard 12 Cell	
		165Ch Extended 12 Cell	
		72Ch RGB 24 Cell	
		96Ch RGBA 24 Cell	
		72Ch HSI 24 Cell	
		240Ch RGBMA 24 Cell	
		152Ch Standard 24 Cell	
		321Ch Extended 24 Cell	
	No DMX Status	Hold Last	
		Fade to Black	
		Standalone	
		Ethernet Switch to DMX Input	
	Protocol	Select Signal	DMX
			Art-Net
			sACN
			Aria In - DMX Out
			DMX In - Aria Out
		Universe	0 - 32767 (Default = 1)
		IP Address	Manual: X.X.X.X
			DHCP
			Unique Static: 2.X.X.X; 10.X.X.X; 172.X.X.X; 192.X.X.X
		Subnet Mask	255.0.0.0
		Ethernet DMX Out	Off / On
	Aria	Enable Aria	Off / On
		Frequency	2.4Ghz
			Sub Gig - US
			Sub Gig - EU
		2.4GHz Chan	00 - 15
		Sub Gig Chan	00 - 09
		Enable Mesh	Off / On
		Enable Bluetooth	Off / On

SYSTEM MENU

MAIN MENU		OPTIONS / VALUES (Default Settings in BOLD)	
CONTROL	Dimmer	0% - 100%	
	Manual Control	Red	0 - 255
		Green	0 - 255
		Blue	0 - 255
		Mint	0 - 255
		Amber	0 - 255
		CCT	2400K - 8500K (Default = 6000K)
		Green Shift	-100% to +100% (Default = 0)
		Virtual Colors	See Color Macros Table
	Primary	On / Off	
	Secondary	On / Off	
	Self Test	All	
Dimmer			
Color			
SETTINGS	Dim Modes	Standard	
		Stage	
		TV	
		Architectural	
		Theatre	
		Stage 2	
		Dim Speed	0s - 10s (Default = 0.1s)
	Dim to Warm	On / Off	
	Dim Curves	Linear	
		Square	
		Square Inverse	
		S-Curve	
	LED Refresh Rate	900Hz - 1500Hz, 2500Hz, 4000Hz, 5000Hz, 6000Hz, 10KHz, 15KHz, 20KHz, 25KHz (Default = 1200Hz)	
	Color Tuning	Highest Fidelity	
		Balanced Output and Fidelity	
		Highest Output	
	Output Balance	Bright (Highest Output)	
		Uniform (Elation Full Spectrum Match)	
	Max Power Draw	500W	
		750W	
		900W	
		1000W	
1200W			

SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in BOLD)		
SETTINGS (continued)	LED Power Limit	50%	
		60%	
		70%	
		80%	
		90%	
		100%	
	Pixel Flip	Yes / No	
	Cell Layout	Default / Split	
	Fan Mode	Auto	
		High	
		Silent	
		Mute	
	Display	Screen Delay	10s - 5min (Default = 1min)
Screen Lock		Off, 10s - 5min, Key Lock	
Rotate Display		Yes / No / Auto	
Reset User Defaults	Yes / No		
INFORMATION	Time	Current Run Time	
		Total Run Time	
		Last Run Time	
	Temperature	Current	
		Max Resettable	
	Humidity	xxx %	
	DMX Values	Red	
		Green	
		...	
	Product IDs	RDM UID	
	Error Logs	Fixture Errors	
	Software Version	Vx.x	
	Fixture MAC Address	xx:xx:xx:xx:xx:xx	

SYSTEM MENU

MAIN MENU	OPTIONS / VALUES (Default Settings in BOLD)	
SERVICE (Passcode = 050)	Calibration	Red 000 - 255
		Green 000 - 255
		Blue 000 - 255
		Mint 000 - 255
		Amber 000 - 255
		...
		Red16 000 - 255
		Green16 000 - 255
		Blue16 000 - 255
		Mint16 000 - 255
		Amber16 000 - 255
	Record User Defaults	Yes / No
	Reset Factory Defaults	Yes / No
	Reset Last Run	Yes / No
	Reset Error Logs	Yes / No

FAN MODES

The KL Batten 72 is a high-performance fixture suited for multiple applications. For noise critical environments such as Theater, Opera or Orchestra Halls, it offers various fan operation modes which remove any distraction for the audience and performers. Fan Modes can be changed remotely via the DMX control channel, allowing the fixture to offer high output or whisper silent operation at a moment's notice. All Fan Modes smoothly transition over a brief time, preventing unwanted attraction to the fixture.

Auto (Default)—Fans only run at the speeds needed to keep the LED engine within a safe temperature range and ensures optimal performance of the fixture. If possible, they will turn-off, for example, when the fixture is dimmed to a low intensity. Fans sense the ambient and fixture temperature, and will always try to keep noise levels to a minimum. The fixture output will only reduce when the LED engine cannot be cooled down to its safe operating range due to high ambient temperature.

NOTE: Recommended for daily operation.

High—Fan speeds are increased throughout for the most efficient cooling of the fixture. This mode will increase wear on the fans and should only be utilized in exceptional circumstances. Fans will always run, even if the fixture is dimmed down. Fixture output is kept at 100% unless the LED engine temperature reaches an unsafe temperature at which point the fixture will reduce power carefully to ensure continued safe operation. This mode is only required in very high ambient temperatures when automatic fan speed adjustments are not desired.

Low Noise Modes

For very critical noise environments, the fixture offers two additional Low Noise Modes for silent operation. The fixture output will be reduced, yet due to the extremely high luminous flux, the fixture still offers outstanding performance. In Low Noise Modes, all parameters of the fixture operate more quietly with reduced fan speeds.

Silent - 75-80% max output, fans run at low speed.

Mute – All but one fixture fan is turned off for whisper-quiet operation. The fixture LED power output is reduced to 25%.

DMX TRAITS

PLEASE NOTE: Due to the number of DMX channel modes available on this fixture, the chart on the following pages has been divided into eight sections for ease of readability. If you are unable to locate information regarding the channel that you are looking for, please ensure that you are reviewing the correct section of the DMX Traits table. The sections and their respective contents are listed below:

Single Cell:

- 1Ch Dimmer
- 3Ch RGB (3Ch-A)
- 4Ch RGBA (4Ch-A)
- 4Ch Dimmer/CCT (4Ch-B)
- 3Ch HSI (3Ch-B)
- 6Ch HSIC (6Ch-A)
- 10Ch RGBMA
- 14Ch Standard
- 22Ch Extended
- 16Ch xy Extended (16Ch-A)

2 Cell:

- 6Ch RGB 2-cell (6Ch-B)
- 8Ch RGBA 2-cell
- 6Ch HSI 2-cell (6Ch-C)
- 20Ch RGBMA 2-cell (20Ch-A)
- 20Ch Standard 2-cell (20Ch-B)
- 35Ch Extended 2-cell

3 Cell:

- 9Ch RGB (9Ch-A)
- 12Ch RGBA (12Ch-A)
- 9Ch HSI (9Ch-B)
- 30Ch RGBMA
- 26Ch Standard
- 48Ch Extended (48Ch-A)

4 Cell:

- 12Ch RGB 4-cell (12Ch-B)
- 16Ch RGBA 4-cell (16Ch-B)
- 12Ch HSI 4-cell (12Ch-C)
- 40Ch RGBMA 4-cell
- 32Ch Standard 4-cell (32Ch-A)
- 61Ch Extended 4-cell

6 Cell

- 18Ch RGB (18Ch-A)
- 24Ch RGBA (24Ch-A)
- 18Ch HSI (18Ch-B)
- 60Ch RGBMA
- 44Ch Standard
- 87Ch Extended

8 Cell:

- 24Ch RGB 8-cell (24Ch-B)
- 32Ch RGBA 8-cell (32Ch-B)
- 24Ch HSI 8-cell (24Ch-C)
- 80Ch RGBMA 8-cell (80Ch-A)
- 56Ch Standard 8-cell
- 113Ch Extended 8-cell

12 Cell:

- 36Ch RGB (36Ch-A)
- 48Ch RGBA (48Ch-B)
- 36Ch HSI (36Ch-B)
- 120Ch RGBMA
- 80Ch Standard (80Ch-B)
- 165Ch Extended

24 Cell:

- 72Ch RGB (72Ch-A)
- 96Ch RGBA
- 72Ch HSI (72Ch-B)
- 240Ch RGBMA
- 152Ch Standard
- 321Ch Extended

DMX TRAITS (SINGLE CELL)

MODE/CHANNEL										DMX VALUES	FUNCTION	SNAP	DEF VAL
1 ch	3 ch A	4 ch A	4 ch B	3 ch B	6 ch A	10 ch	14 ch	22 ch	16 ch A				
1			1				1	1	1		Dimmer		0
										000 - 255	Intensity, 0 - 100%		
			2				2	2	2		Dimmer Fine		0
										000 - 255	Fine intensity control		
											Shutter/Strobe		
										000 - 031	Shutter closed		
										032 - 063	No function (shutter open)		
										064 - 095	Strobe effect, slow to fast		
										096 - 127	No function (shutter open)		
							3	3	3	128 - 159	Pulse effect in sequences		50
										160 - 191	No function (shutter open)		
										192 - 223	Random strobe effect, slow to fast		
										224 - 225	No function (shutter open)		
										226 - 253	Random pixel, slow to fast		
										254 - 255	No function (shutter open)		
	1	1				1	4	4			Red		
										000 - 255	0 - 100%		
						2		5			Red Fine		
										000 - 255	Fine adjustment		
	2	2				3	5	6			Green		
										000 - 255	0 - 100%		
						4		7			Green Fine		
										000 - 255	Fine adjustment		
	3	3				5	6	8			Blue		
										000 - 255	0 - 100%		
						6		9			Blue Fine		
										000 - 255	Fine adjustment		
						7	7	10			Mint		
										000 - 255	0 - 100%		
						8		11			Mint Fine		
										000 - 255	Fine adjustment		

DMX TRAITS (SINGLE CELL)

MODE/CHANNEL										DMX VALUES	FUNCTION	SNAP	DEF VAL
1 ch	3 ch A	4 ch A	4 ch B	3 ch B	6 ch A	10 ch	14 ch	22 ch	16 ch A				
		4				9	8	12			Amber		
										000 - 255	0 - 100%		
						10		13			Amber Fine		
										000 - 255	Fine adjustment		
				1	1						Hue		0
										000 - 255	0 to 360°		
					2						Hue Fine		0
										000 - 255	0 to 360°		
				2	3						Saturation		0
										000 - 255	0 to 100%		
				3	4						Dimmer 1		0
										000 - 255	Intensity 0 to 100%		
									4		x Coordinate		0
										000 - 255	0 to 100%		
									5		x Coordinate Fine		0
										000 - 255	Fine adjustment		
									6		y Coordinate		0
										000 - 255	0 to 100%		
									7		y Coordinate Fine		0
										000 - 255	Fine adjustment		
			3		5		9				CCT Presets	X	0
										000 - 023	Open		
										024 - 085	2400K to 8500K (see Color Temperature Table)		
										086 - 255	8500K		
								14	8		Variable CCT		0
										000 - 023	Open		
										024 - 255	2400K to 8500K		
								15	9		Variable CCT Fine		0
										000 - 255	Fine adjustment		
			4		6			16	10		Green Shift		0
										000	Idle		
										001 - 127	Full Minus Green to Neutral		
										128	Neutral White		
										129 - 255	Neutral to Full Plus Green		

DMX TRAITS (SINGLE CELL)

MODE/CHANNEL										DMX VALUES	FUNCTION	SNAP	DEF VAL
1 ch	3 ch A	4 ch A	4 ch B	3 ch B	6 ch A	10 ch	14 ch	22 ch	16 ch A				
							10	17	11		Color		0
										000	Open		
										001 - 179	Virtual Swatch Book (See Virtual Colors Table)		
											Color Scroll		
										180 - 201	Clockwise, fast to slow		
										202 - 207	Stop		
										228 - 229	Counter-clockwise, slow to fast		
										230 - 234	Open		
											Random Slots		
										235 - 239	Fast		
										240 - 244	Medium		
										245 - 249	Slow		
										250 - 255	Open		
							11	18	12		Effect Selection	X	0
										000 - 255	FX Selection, 1 - 255 (see table)		
							12	19	13		Effect Speed		0
										000 - 126	Fast to slow		
										127 - 128	Stop		
										129 - 255	Slow to fast		
							13	20	14		Effect Offset	X	0
										000	Idle		
										001 - 035	Fixture Offset, 10° to 350°		
										036	Synchronized		
										037 - 049	Random Fixture Offset		
										050 - 059	Random Pixel Order		
										060 - 069	Random Steps		
										070 - 079	Idle		
											Effect Fade		
										080 - 089	Sinewave - Cross		
										090 - 099	Sinewave - Full		
										100 - 109	Sawtooth - Cross		
										110 - 119	Sawtooth - Full		
										120 - 129	Ramp Up		
										130 - 139	Ramp Down		
										140 - 149	Steps		
										150 - 255	Idle		

DMX TRAITS (SINGLE CELL)

MODE/CHANNEL										DMX VALUES	FUNCTION	SNAP	DEF VAL
1 ch	3 ch A	4 ch A	4 ch B	3 ch B	6 ch A	10 ch	14 ch	22 ch	16 ch A				
								21	15		Dim Modes	X	0
										000 - 020	Standard		
										021 - 040	Stage		
										041 - 060	TV		
										061 - 080	Architectural		
										081 - 100	Theatre		
										101 - 120	Stage 2		
											Dimmer Delay Time		
										121	0s		
										122	0.1s		
										123	0.2s		
										124	0.3s		
										125	0.4s		
										126	0.5s		
										127	0.6s		
										128	0.7s		
										129	0.8s		
										130	0.9s		
										131	1.0s		
										132	1.5s		
										133	2.0s		
										134	3.0s		
										135	4.0s		
										136	5.0s		
										137	6.0s		
										138	7.0s		
										139	8.0s		
										140	9.0s		
										141	10s		
										142 - 149	Idle		
											Dim to Warm		
										150 - 154	DTW On		
										155 - 159	DTW Off (default)		
										160 - 255	Idle		

DMX TRAITS (SINGLE CELL)

MODE/CHANNEL										DMX VALUES	FUNCTION	SNAP	DEF VAL
1 ch	3 ch A	4 ch A	4 ch B	3 ch B	6 ch A	10 ch	14 ch	22 ch	16 ch A				
							14	22	16		Control	X	0
										000 - 009	Idle		
										010 - 014	Fan Mode Auto (default)		
										015 - 019	Fan Mode Mute		
										020 - 024	Fan Mode Silent		
										025 - 029	Fan Mode High		
										030 - 049	Idle		
										050 - 054	Default Pixel Order		
										055 - 059	Flip Pixel Order		
										060 - 064	Default Cell Layout		
										065 - 069	Split Cell Layout		
										070 - 099	Idle		
											Refresh Rate (Hz)		
										100	900		
										101	910		
										102	920		
										103	930		
										104	940		
										105	950		
										106	960		
										107	970		
										108	980		
										109	990		
										110	1000		
										111	1010		
										112	1020		
										113	1030		
										114	1040		
										115	1050		
										116	1060		
										117	1070		
										118	1080		
										119	1090		
										120	1100		
										121	1110		
										122	1120		
										123	1130		
										124	1140		
										125	1150		

DMX TRAITS (SINGLE CELL)

MODE/CHANNEL										DMX VALUES	FUNCTION	SNAP	DEF VAL
1 ch	3 ch A	4 ch A	4 ch B	3 ch B	6 ch A	10 ch	14 ch	22 ch	16 ch A				
											Refresh Rate (Hz) (continued)		
										126	1160		
										127	1170		
										128	1180		
										129	1190		
										130	1200 (default)		
										131	1210		
										132	1220		
										133	1230		
										134	1240		
										135	1250		
										136	1260		
										137	1270		
										138	1280		
										139	1290		
										140	1300		
										141	1310		
										142	1320		
							14	22	16	143	1330	X	0
										144	1340		
										145	1350		
										146	1360		
										147	1370		
										148	1380		
										149	1390		
										150	1400		
										151	1410		
										152	1420		
										153	1430		
										154	1440		
										155	1450		
										156	1460		
										157	1470		
										158	1480		
										159	1490		
										160	1500		
										161	2500		
										162	4000		

DMX TRAITS (SINGLE CELL)

MODE/CHANNEL										DMX VALUES	FUNCTION	SNAP	DEF VAL
1 ch	3 ch A	4 ch A	4 ch B	3 ch B	6 ch A	10 ch	14 ch	22 ch	16 ch A				
											Refresh Rate (Hz) (continued)		
										163	5000		
										164	6000		
										165	10000		
										166	15000		
										167	20000		
										168	25000		
										169 - 174	Idle		
											Color Tuning		
										175 - 176	Highest Fidelity		
										177 - 178	Balanced Output and Fidelity		
							14	22	16	179 - 180	Highest Output (default)	X	0
											Output Balance		
										181 - 182	Bright (Highest Output) (default)		
										183 - 184	Uniform (Elation Full Spectrum Match)		
										185 - 200	Idle		
											Dimmer Curves		
										201 - 210	Linear		
										211 - 220	Square		
										221 - 230	Inverse Square		
										231 - 240	S-Curve (default)		
										241 - 255	Idle		

DMX TRAITS (2 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
6 ch B	8 ch	6 ch C	20 ch A	20 ch B	35 ch				
				1	1		Dimmer		0
						000 - 255	Intensity, 0 - 100%		
				2	2		Dimmer Fine		0
						000 - 255	Fine intensity control		
				3	3		Shutter/Strobe		50
						000 - 031	Shutter closed		
						032 - 063	No function (shutter open)		
						064 - 095	Strobe effect, slow to fast		
						096 - 127	No function (shutter open)		
						128 - 159	Pulse effect in sequences		
						160 - 191	No function (shutter open)		
						192 - 223	Random strobe effect, slow to fast		
						224 - 225	No function (shutter open)		
						226 - 253	Random pixel, slow to fast		
						254 - 255	No function (shutter open)		
1	1		1	4	4		Red		
						000 - 255	0 - 100%		
			2		5		Red Fine		
						000 - 255	Fine adjustment		
2	2		3	5	6		Green		
						000 - 255	0 - 100%		
			4		7		Green Fine		
						000 - 255	Fine adjustment		
3	3		5	6	8		Blue		
						000 - 255	0 - 100%		
			6		9		Blue Fine		
						000 - 255	Fine adjustment		
			7	7	10		Mint		
						000 - 255	0 - 100%		
			8		11		Mint Fine		
						000 - 255	Fine adjustment		
	4		9	8	12		Amber		
						000 - 255	0 - 100%		
			10		13		Amber Fine		
						000 - 255	Fine adjustment		
4	5		11	9	14		Red 2		
						000 - 255	0 - 100%		
			12		15		Red 2 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (2 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
6 ch B	8 ch	6 ch C	20 ch A	20 ch B	35 ch				
5	6		13	10	16		Green 2		
						000 - 255	0 - 100%		
			14		17		Green 2 Fine		
						000 - 255	Fine adjustment		
6	7		15	11	18		Blue 2		
						000 - 255	0 - 100%		
			16		19		Blue 2 Fine		
						000 - 255	Fine adjustment		
			17	12	20		Mint 2		
						000 - 255	0 - 100%		
			18		21		Mint 2 Fine		
						000 - 255	Fine adjustment		
	8		19	13	22		Amber 2		
						000 - 255	0 - 100%		
			20		23		Amber 2 Fine		
						000 - 255	Fine adjustment		
		1					Hue		0
						000 - 255	0 to 360°		
		2					Saturation		0
						000 - 255	0 to 100%		
		3					Dimmer 1		0
						000 - 255	Intensity 0 to 100%		
		4					Hue 2		0
						000 - 255	0 to 360°		
		5					Saturation 2		0
						000 - 255	0 to 100%		
		6					Dimmer 2		0
						000 - 255	Intensity 0 to 100%		
				14			CCT Presets	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				15			CCT Presets 2	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		

DMX TRAITS (2 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
6 ch B	8 ch	6 ch C	20 ch A	20 ch B	35 ch				
					24		Variable CCT		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					25		Variable CCT Fine		0
						000 - 255	Fine adjustment		
					26		Variable CCT 2		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					27		Variable CCT Fine 2		0
						000 - 255	Fine adjustment		
					28		Green Shift		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					29		Green Shift 2		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
				16	30		Color		0
						000	Open		
						001 - 179	Virtual Swatch Book (See Virtual Colors Table)		
							Color Scroll		
						180 - 201	Clockwise, fast to slow		
						202 - 207	Stop		
						228 - 229	Counter-clockwise, slow to fast		
						230 - 234	Open		
							Random Slots		
						235 - 239	Fast		
						240 - 244	Medium		
						245 - 249	Slow		
						250 - 255	Open		
				17	31		Effect Selection	X	0
						000 - 255	FX Selection, 1 - 255 (see table)		
				18	32		Effect Speed		0
						000 - 126	Fast to slow		
						127 - 128	Stop		
						129 - 255	Slow to fast		

DMX TRAITS (2 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
6 ch B	8 ch	6 ch C	20 ch A	20 ch B	35 ch				
				19	33		Effect Offset	X	0
						000	Idle		
						001 - 035	Fixture Offset, 10° to 350°		
						036	Synchronized		
						037 - 049	Random Fixture Offset		
						050 - 059	Random Pixel Order		
						060 - 069	Random Steps		
						070 - 079	Idle		
							Effect Fade		
						080 - 089	Sinewave - Cross		
						090 - 099	Sinewave - Full		
						100 - 109	Sawtooth - Cross		
						110 - 119	Sawtooth - Full		
						120 - 129	Ramp Up		
						130 - 139	Ramp Down		
						140 - 149	Steps		
						150 - 255	Idle		
					34		Dim Modes	X	0
						000 - 020	Standard		
						021 - 040	Stage		
						041 - 060	TV		
						061 - 080	Architectural		
						081 - 100	Theatre		
						101 - 120	Stage 2		
						121	0s		
						122	0.1s		
						123	0.2s		
						124	0.3s		
						125	0.4s		
						126	0.5s		
						127	0.6s		
						128	0.7s		
						129	0.8s		
						130	0.9s		
						131	1.0s		
						132	1.5s		
						133	2.0s		
						134	3.0s		
						135	4.0s		

DMX TRAITS (2 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
6 ch B	8 ch	6 ch C	20 ch A	20 ch B	35 ch				
					34		Dim Modes (continued)	X	0
						136	5.0s		
						137	6.0s		
						138	7.0s		
						139	8.0s		
						140	9.0s		
						141	10s		
						142 - 149	Idle		
							Dim to Warm		
						150 - 154	DTW On		
						155 - 159	DTW Off (default)		
						160 - 255	Idle		
				20	35		Control	X	0
						000 - 009	Idle		
						010 - 014	Fan Mode Auto (default)		
						015 - 019	Fan Mode Mute		
						020 - 024	Fan Mode Silent		
						025 - 029	Fan Mode High		
						030 - 049	Idle		
						050 - 054	Default Pixel Order		
						055 - 059	Flip Pixel Order		
						060 - 064	Default Cell Layout		
						065 - 069	Split Cell Layout		
						070 - 099	Idle		
						100	900		
						101	910		
						102	920		
						103	930		
						104	940		
						105	950		
						106	960		
						107	970		
						108	980		
						109	990		
						110	1000		
						111	1010		
						112	1020		
						113	1030		
						114	1040		

DMX TRAITS (2 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
6 ch B	8 ch	6 ch C	20 ch A	20 ch B	35 ch				
				20	35		Control (continued)	X	0
						115	1050		
						116	1060		
						117	1070		
						118	1080		
						119	1090		
						120	1100		
						121	1110		
						122	1120		
						123	1130		
						124	1140		
						125	1150		
						126	1160		
						127	1170		
						128	1180		
						129	1190		
						130	1200 (default)		
						131	1210		
						132	1220		
						133	1230		
						134	1240		
						135	1250		
						136	1260		
						137	1270		
						138	1280		
						139	1290		
						140	1300		
						141	1310		
						142	1320		
						143	1330		
						144	1340		
						145	1350		
						146	1360		
						147	1370		
						148	1380		
						149	1390		
						150	1400		
						151	1410		
						152	1420		

DMX TRAITS (2 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
6 ch B	8 ch	6 ch C	20 ch A	20 ch B	35 ch				
							Control (continued)		
						153	1430		
						154	1440		
						155	1450		
						156	1460		
						157	1470		
						158	1480		
						159	1490		
						160	1500		
						161	2500		
						162	4000		
						163	5000		
						164	6000		
						165	10000		
						166	15000		
						167	20000		
				20	35	168	25000	X	0
						169 - 174	Idle		
							Color Tuning		
						175 - 176	Highest Fidelity		
						177 - 178	Balanced Output and Fidelity		
						179 - 180	Highest Output (default)		
							Output Balance		
						181 - 182	Bright (Highest Output) (default)		
						183 - 184	Uniform (Elation Full Spectrum Match)		
						185 - 200	Idle		
							Dimmer Curves		
						201 - 210	Linear		
						211 - 220	Square		
						221 - 230	Inverse Square		
						231 - 240	S-Curve (default)		
						241 - 255	Idle		

DMX TRAITS (3 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
9 ch A	12 ch A	9 ch B	30 ch	26 ch	48 ch A				
				1	1		Dimmer		0
						000 - 255	Intensity, 0 - 100%		
				2	2		Dimmer Fine		0
						000 - 255	Fine intensity control		
				3	3		Shutter/Strobe		50
						000 - 031	Shutter closed		
						032 - 063	No function (shutter open)		
						064 - 095	Strobe effect, slow to fast		
						096 - 127	No function (shutter open)		
						128 - 159	Pulse effect in sequences		
						160 - 191	No function (shutter open)		
						192 - 223	Random strobe effect, slow to fast		
						224 - 225	No function (shutter open)		
						226 - 253	Random pixel, slow to fast		
						254 - 255	No function (shutter open)		
1	1		1	4	4		Red		
						000 - 255	0 - 100%		
			2		5		Red Fine		
						000 - 255	Fine adjustment		
2	2		3	5	6		Green		
						000 - 255	0 - 100%		
			4		7		Green Fine		
						000 - 255	Fine adjustment		
3	3		5	6	8		Blue		
						000 - 255	0 - 100%		
			6		9		Blue Fine		
						000 - 255	Fine adjustment		
			7	7	10		Mint		
						000 - 255	0 - 100%		
			8		11		Mint Fine		
						000 - 255	Fine adjustment		
	4		9	8	12		Amber		
						000 - 255	0 - 100%		
			10		13		Amber Fine		
						000 - 255	Fine adjustment		
4	5		11	9	14		Red 2		
						000 - 255	0 - 100%		
			12		15		Red 2 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (3 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
9 ch A	12 ch A	9 ch B	30 ch	26 ch	48 ch A				
5	6		13	10	16		Green 2		
						000 - 255	0 - 100%		
			14		17		Green 2 Fine		
						000 - 255	Fine adjustment		
6	7		15	11	18		Blue 2		
						000 - 255	0 - 100%		
			16		19		Blue 2 Fine		
						000 - 255	Fine adjustment		
			17	12	20		Mint 2		
						000 - 255	0 - 100%		
			18		21		Mint 2 Fine		
						000 - 255	Fine adjustment		
	8		19	13	22		Amber 2		
						000 - 255	0 - 100%		
			20		23		Amber 2 Fine		
						000 - 255	Fine adjustment		
7	9		21	14	24		Red 3		
						000 - 255	0 - 100%		
			22		25		Red 3 Fine		
						000 - 255	Fine adjustment		
8	10		23	15	26		Green 3		
						000 - 255	0 - 100%		
			24		27		Green 3 Fine		
						000 - 255	Fine adjustment		
9	11		25	16	28		Blue 3		
						000 - 255	0 - 100%		
			26		29		Blue 3 Fine		
						000 - 255	Fine adjustment		
			27	17	30		Mint 3		
						000 - 255	0 - 100%		
			28		31		Mint 3 Fine		
						000 - 255	Fine adjustment		
	12		29	18	32		Amber 3		
						000 - 255	0 - 100%		
			30		33		Amber 3 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (3 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
9 ch A	12 ch A	9 ch B	30 ch	26 ch	48 ch A				
		1					Hue		0
						000 - 255	0 to 360°		
		2					Saturation		0
						000 - 255	0 to 100%		
		3					Dimmer 1		0
						000 - 255	Intensity 0 to 100%		
		4					Hue 2		0
						000 - 255	0 to 360°		
		5					Saturation 2		0
						000 - 255	0 to 100%		
		6					Dimmer 2		0
						000 - 255	Intensity 0 to 100%		
		7					Hue 3		0
						000 - 255	0 to 360°		
		8					Saturation 3		0
						000 - 255	0 to 100%		
		9					Dimmer 3		0
						000 - 255	Intensity 0 to 100%		
				19			CCT Presets	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				20			CCT Presets 2	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				21			CCT Presets 3	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
					34		Variable CCT		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					35		Variable CCT Fine		0
						000 - 255	Fine adjustment		
					36		Variable CCT 2		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					37		Variable CCT Fine 2		0
						000 - 255	Fine adjustment		

DMX TRAITS (3 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
9 ch A	12 ch A	9 ch B	30 ch	26 ch	48 ch A				
					38		Variable CCT 3		
						000 - 023	Open		0
						024 - 255	2400K to 8500K		
					39		Variable CCT Fine 3		
						000 - 255	Fine adjustment		0
					40		Green Shift		
						000	Idle		
						001 - 127	Full Minus Green to Neutral		0
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					41		Green Shift 2		
						000	Idle		
						001 - 127	Full Minus Green to Neutral		0
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					42		Green Shift 3		
						000	Idle		
						001 - 127	Full Minus Green to Neutral		0
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
				22	43		Color		
						000	Open		
						001 - 179	Virtual Swatch Book (See Virtual Colors Table)		
							Color Scroll		
						180 - 201	Clockwise, fast to slow		
						202 - 207	Stop		
						228 - 229	Counter-clockwise, slow to fast		0
						230 - 234	Open		
							Random Slots		
						235 - 239	Fast		
						240 - 244	Medium		
						245 - 249	Slow		
						250 - 255	Open		
				23	44		Effect Selection		
						000 - 255	FX Selection, 1 - 255 (see table)	X	0
				24	45		Effect Speed		
						000 - 126	Fast to slow		0
						127 - 128	Stop		
						129 - 255	Slow to fast		

DMX TRAITS (3 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
9 ch A	12 ch A	9 ch B	30 ch	26 ch	48 ch A				
				25	46		Effect Offset	X	0
						000	Idle		
						001 - 035	Fixture Offset, 10° to 350°		
						036	Synchronized		
						037 - 049	Random Fixture Offset		
						050 - 059	Random Pixel Order		
						060 - 069	Random Steps		
						070 - 079	Idle		
							Effect Fade		
						080 - 089	Sinewave - Cross		
						090 - 099	Sinewave - Full		
						100 - 109	Sawtooth - Cross		
						110 - 119	Sawtooth - Full		
						120 - 129	Ramp Up		
						130 - 139	Ramp Down		
						140 - 149	Steps		
						150 - 255	Idle		
					47		Dim Modes	X	0
						000 - 020	Standard		
						021 - 040	Stage		
						041 - 060	TV		
						061 - 080	Architectural		
						081 - 100	Theatre		
						101 - 120	Stage 2		
							Dimmer Delay Time		
						121	0s		
						122	0.1s		
						123	0.2s		
						124	0.3s		
						125	0.4s		
						126	0.5s		
						127	0.6s		
						128	0.7s		
						129	0.8s		
						130	0.9s		
						131	1.0s		
						132	1.5s		
						133	2.0s		
						134	3.0s		

DMX TRAITS (3 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
9 ch A	12 ch A	9 ch B	30 ch	26 ch	48 ch A				
					47			X	0
						135	4.0s		
						136	5.0s		
						137	6.0s		
						138	7.0s		
						139	8.0s		
						140	9.0s		
						141	10s		
						142 - 149	Idle		
							Dim to Warm		
						150 - 154	DTW On		
						155 - 159	DTW Off (default)		
						160 - 255	Idle		
					48		Control	X	0
						000 - 009	Idle		
						010 - 014	Fan Mode Auto (default)		
						015 - 019	Fan Mode Mute		
						020 - 024	Fan Mode Silent		
						025 - 029	Fan Mode High		
						030 - 049	Idle		
						050 - 054	Default Pixel Order		
						055 - 059	Flip Pixel Order		
						060 - 064	Default Cell Layout		
						065 - 069	Split Cell Layout		
						070 - 099	Idle		
						100	900		
						101	910		
						102	920		
						103	930		
						104	940		
						105	950		
						106	960		
						107	970		
						108	980		
						109	990		
						110	1000		
						111	1010		
						112	1020		
						113	1030		

DMX TRAITS (3 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
9 ch A	12 ch A	9 ch B	30 ch	26 ch	48 ch A				
				26	48		Control (continued)	X	0
						114	1040		
						115	1050		
						116	1060		
						117	1070		
						118	1080		
						119	1090		
						120	1100		
						121	1110		
						122	1120		
						123	1130		
						124	1140		
						125	1150		
						126	1160		
						127	1170		
						128	1180		
						129	1190		
						130	1200 (default)		
						131	1210		
						132	1220		
						133	1230		
						134	1240		
						135	1250		
						136	1260		
						137	1270		
						138	1280		
						139	1290		
						140	1300		
						141	1310		
						142	1320		
						143	1330		
						144	1340		
						145	1350		
						146	1360		
						147	1370		
						148	1380		
						149	1390		
						150	1400		
						151	1410		

DMX TRAITS (3 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
9 ch A	12 ch A	9 ch B	30 ch	26 ch	48 ch A				
							Control (continued)		
						152	1420		
						153	1430		
						154	1440		
						155	1450		
						156	1460		
						157	1470		
						158	1480		
						159	1490		
						160	1500		
						161	2500		
						162	4000		
						163	5000		
						164	6000		
						165	10000		
						166	15000		
				26	48	167	20000	X	0
						168	25000		
						169 - 174	Idle		
							Color Tuning		
						175 - 176	Highest Fidelity		
						177 - 178	Balanced Output and Fidelity		
						179 - 180	Highest Output (default)		
							Output Balance		
						181 - 182	Bright (Highest Output) (default)		
						183 - 184	Uniform (Elation Full Spectrum Match)		
						185 - 200	Idle		
							Dimmer Curves		
						201 - 210	Linear		
						211 - 220	Square		
						221 - 230	Inverse Square		
						231 - 240	S-Curve (default)		
						241 - 255	Idle		

DMX TRAITS (4 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
12 ch B	16 ch B	12 ch C	40 ch	32 ch A	61 ch				
				1	1		Dimmer		0
						000 - 255	Intensity, 0 - 100%		
				2	2		Dimmer Fine		0
						000 - 255	Fine intensity control		
				3	3		Shutter/Strobe		50
						000 - 031	Shutter closed		
						032 - 063	No function (shutter open)		
						064 - 095	Strobe effect, slow to fast		
						096 - 127	No function (shutter open)		
						128 - 159	Pulse effect in sequences		
						160 - 191	No function (shutter open)		
						192 - 223	Random strobe effect, slow to fast		
						224 - 225	No function (shutter open)		
						226 - 253	Random pixel, slow to fast		
						254 - 255	No function (shutter open)		
1	1		1	4	4		Red		
						000 - 255	0 - 100%		
			2		5		Red Fine		
						000 - 255	Fine adjustment		
2	2		3	5	6		Green		
						000 - 255	0 - 100%		
			4		7		Green Fine		
						000 - 255	Fine adjustment		
3	3		5	6	8		Blue		
						000 - 255	0 - 100%		
			6		9		Blue Fine		
						000 - 255	Fine adjustment		
			7	7	10		Mint		
						000 - 255	0 - 100%		
			8		11		Mint Fine		
						000 - 255	Fine adjustment		
	4		9	8	12		Amber		
						000 - 255	0 - 100%		
			10		13		Amber Fine		
						000 - 255	Fine adjustment		
4	5		11	9	14		Red 2		
						000 - 255	0 - 100%		
			12		15		Red 2 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (4 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
12 ch B	16 ch B	12 ch C	40 ch	32 ch A	61 ch				
5	6		13	10	16		Green 2		
						000 - 255	0 - 100%		
			14		17		Green 2 Fine		
						000 - 255	Fine adjustment		
6	7		15	11	18		Blue 2		
						000 - 255	0 - 100%		
			16		19		Blue 2 Fine		
						000 - 255	Fine adjustment		
			17	12	20		Mint 2		
						000 - 255	0 - 100%		
			18		21		Mint 2 Fine		
						000 - 255	Fine adjustment		
	8		19	13	22		Amber 2		
						000 - 255	0 - 100%		
			20		23		Amber 2 Fine		
						000 - 255	Fine adjustment		
7	9		21	14	24		Red 3		
						000 - 255	0 - 100%		
			22		25		Red 3 Fine		
						000 - 255	Fine adjustment		
8	10		23	15	26		Green 3		
						000 - 255	0 - 100%		
			24		27		Green 3 Fine		
						000 - 255	Fine adjustment		
9	11		25	16	28		Blue 3		
						000 - 255	0 - 100%		
			26		29		Blue 3 Fine		
						000 - 255	Fine adjustment		
			27	17	30		Mint 3		
						000 - 255	0 - 100%		
			28		31		Mint 3 Fine		
						000 - 255	Fine adjustment		
	12		29	18	32		Amber 3		
						000 - 255	0 - 100%		
			30		33		Amber 3 Fine		
						000 - 255	Fine adjustment		
10	13		31	19	34		Red 4		
						000 - 255	0 - 100%		
			32		35		Red 4 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (4 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
12 ch B	16 ch B	12 ch C	40 ch	32 ch A	61 ch				
11	14		33	20	36		Green 4		
						000 - 255	0 - 100%		
			34		37		Green 4 Fine		
						000 - 255	Fine adjustment		
12	15		35	21	38		Blue 4		
						000 - 255	0 - 100%		
			36		39		Blue 4 Fine		
						000 - 255	Fine adjustment		
			37	22	40		Mint 4		
						000 - 255	0 - 100%		
			38		41		Mint 4 Fine		
						000 - 255	Fine adjustment		
	16		39	23	42		Amber 4		
						000 - 255	0 - 100%		
			40		43		Amber 4 Fine		
						000 - 255	Fine adjustment		
		1					Hue		0
						000 - 255	0 to 360°		
		2					Saturation		0
						000 - 255	0 to 100%		
		3					Dimmer 1		0
						000 - 255	Intensity 0 to 100%		
		4					Hue 2		0
						000 - 255	0 to 360°		
		5					Saturation 2		0
						000 - 255	0 to 100%		
		6					Dimmer 2		0
						000 - 255	Intensity 0 to 100%		
		7					Hue 3		0
						000 - 255	0 to 360°		
		8					Saturation 3		0
						000 - 255	0 to 100%		
		9					Dimmer 3		0
						000 - 255	Intensity 0 to 100%		
		10					Hue 4		0
						000 - 255	0 to 360°		
		11					Saturation 4		0
						000 - 255	0 to 100%		
		12					Dimmer 4		0
						000 - 255	Intensity 0 to 100%		

DMX TRAITS (4 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
12 ch B	16 ch B	12 ch C	40 ch	32 ch A	61 ch				
				24			CCT Presets		
						000 - 023	Open	X	0
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				25			CCT Presets 2		
						000 - 023	Open	X	0
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				26			CCT Presets 3		
						000 - 023	Open	X	0
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				27			CCT Presets 4		
						000 - 023	Open	X	0
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
					44		Variable CCT		
						000 - 023	Open		0
						024 - 255	2400K to 8500K		
					45		Variable CCT Fine		
						000 - 255	Fine adjustment		0
					46		Variable CCT 2		
						000 - 023	Open		0
						024 - 255	2400K to 8500K		
					47		Variable CCT Fine 2		
						000 - 255	Fine adjustment		0
					48		Variable CCT 3		
						000 - 023	Open		0
						024 - 255	2400K to 8500K		
					49		Variable CCT Fine 3		
						000 - 255	Fine adjustment		0
					50		Variable CCT 4		
						000 - 023	Open		0
						024 - 255	2400K to 8500K		
					51		Variable CCT Fine 4		
						000 - 255	Fine adjustment		0

DMX TRAITS (4 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
12 ch B	16 ch B	12 ch C	40 ch	32 ch A	61 ch				
					52		Green Shift		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					53		Green Shift 2		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					54		Green Shift 3		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					55		Green Shift 4		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
				28	56		Color		0
						000	Open		
						001 - 179	Virtual Swatch Book (See Virtual Colors Table)		
							Color Scroll		
						180 - 201	Clockwise, fast to slow		
						202 - 207	Stop		
						228 - 229	Counter-clockwise, slow to fast		
						230 - 234	Open		
							Random Slots		
						235 - 239	Fast		
						240 - 244	Medium		
						245 - 249	Slow		
						250 - 255	Open		
				29	57		Effect Selection	X	0
						000 - 255	FX Selection, 1 - 255 (see table)		
				30	58		Effect Speed		0
						000 - 126	Fast to slow		
						127 - 128	Stop		
						129 - 255	Slow to fast		

DMX TRAITS (4 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
12 ch B	16 ch B	12 ch C	40 ch	32 ch A	61 ch				
				31	59		Effect Offset	X	0
						000	Idle		
						001 - 035	Fixture Offset, 10° to 350°		
						036	Synchronized		
						037 - 049	Random Fixture Offset		
						050 - 059	Random Pixel Order		
						060 - 069	Random Steps		
						070 - 079	Idle		
							Effect Fade		
						080 - 089	Sinewave - Cross		
						090 - 099	Sinewave - Full		
						100 - 109	Sawtooth - Cross		
						110 - 119	Sawtooth - Full		
						120 - 129	Ramp Up		
						130 - 139	Ramp Down		
						140 - 149	Steps		
						150 - 255	Idle		
					60		Dim Modes	X	0
						000 - 020	Standard		
						021 - 040	Stage		
						041 - 060	TV		
						061 - 080	Architectural		
						081 - 100	Theatre		
						101 - 120	Stage 2		
							Dimmer Delay Time		
						121	0s		
						122	0.1s		
						123	0.2s		
						124	0.3s		
						125	0.4s		
						126	0.5s		
						127	0.6s		
						128	0.7s		
						129	0.8s		
						130	0.9s		
						131	1.0s		
						132	1.5s		
						133	2.0s		
						134	3.0s		

DMX TRAITS (4 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
12 ch B	16 ch B	12 ch C	40 ch	32 ch A	61 ch				
					60		Dimmer Delay Time (continued)	X	0
						135	4.0s		
						136	5.0s		
						137	6.0s		
						138	7.0s		
						139	8.0s		
						140	9.0s		
						141	10s		
						142 - 149	Idle		
							Dim to Warm		
						150 - 154	DTW On		
						155 - 159	DTW Off (default)		
						160 - 255	Idle		
							Control		
						000 - 009	Idle		
				32	61	010 - 014	Fan Mode Auto (default)	X	0
						015 - 019	Fan Mode Mute		
						020 - 024	Fan Mode Silent		
						020 - 029	Fan Mode High		
						030 - 049	Idle		
						050 - 054	Default Pixel Order		
						055 - 059	Flip Pixel Order		
						060 - 064	Default Cell Layout		
						065 - 069	Split Cell Layout		
						070 - 099	Idle		
							Refresh Rate (Hz)		
						100	900		
						101	910		
						102	920		
						103	930		
						104	940		
						105	950		
						106	960		
						107	970		
						108	980		
						109	990		
						110	1000		
						111	1010		
						112	1020		

DMX TRAITS (4 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
12 ch B	16 ch B	12 ch C	40 ch	32 ch A	61 ch				
				32	61		Refresh Rate (Hz) (continued)	X	0
						113	1030		
						114	1040		
						115	1050		
						116	1060		
						117	1070		
						118	1080		
						119	1090		
						120	1100		
						121	1110		
						122	1120		
						123	1130		
						124	1140		
						125	1150		
						126	1160		
						127	1170		
						128	1180		
						129	1190		
						130	1200 (default)		
						131	1210		
						132	1220		
						133	1230		
						134	1240		
						135	1250		
						136	1260		
						137	1270		
						138	1280		
						139	1290		
						140	1300		
						141	1310		
						142	1320		
						143	1330		
						144	1340		
						145	1350		
						146	1360		
						147	1370		
						148	1380		
						149	1390		
						150	1400		

DMX TRAITS (4 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
12 ch B	16 ch B	12 ch C	40 ch	32 ch A	61 ch				
				32	61		Refresh Rate (Hz) (continued)	X	0
						151	1410		
						152	1420		
						153	1430		
						154	1440		
						155	1450		
						156	1460		
						157	1470		
						158	1480		
						159	1490		
						160	1500		
						161	2500		
						162	4000		
						163	5000		
						164	6000		
						165	10000		
						166	15000		
						167	20000		
						168	25000		
						169 - 174	Idle		
							Color Tuning		
						175 - 176	Highest Fidelity		
						177 - 178	Balanced Output and Fidelity		
						179 - 180	Highest Output (default)		
							Output Balance		
						181 - 182	Bright (Highest Output) (default)		
						183 - 184	Uniform (Elation Full Spectrum Match)		
						185 - 200	Idle		
							Dimmer Curves		
						201 - 210	Linear		
						211 - 220	Square		
						221 - 230	Inverse Square		
						231 - 240	S-Curve (default)		
						241 - 255	Idle		

DMX TRAITS (6 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
18 ch A	24 ch A	18 ch B	60 ch	44 ch	87 ch				
				1	1		Dimmer		0
						000 - 255	Intensity, 0 - 100%		
				2	2		Dimmer Fine		0
						000 - 255	Fine intensity control		
				3	3		Shutter/Strobe		50
						000 - 031	Shutter closed		
						032 - 063	No function (shutter open)		
						064 - 095	Strobe effect, slow to fast		
						096 - 127	No function (shutter open)		
						128 - 159	Pulse effect in sequences		
						160 - 191	No function (shutter open)		
						192 - 223	Random strobe effect, slow to fast		
						224 - 225	No function (shutter open)		
						226 - 253	Random pixel, slow to fast		
						254 - 255	No function (shutter open)		
1	1		1	4	4		Red		
						000 - 255	0 - 100%		
			2		5		Red Fine		
						000 - 255	Fine adjustment		
2	2		3	5	6		Green		
						000 - 255	0 - 100%		
			4		7		Green Fine		
						000 - 255	Fine adjustment		
3	3		5	6	8		Blue		
						000 - 255	0 - 100%		
			6		9		Blue Fine		
						000 - 255	Fine adjustment		
			7	7	10		Mint		
						000 - 255	0 - 100%		
			8		11		Mint Fine		
						000 - 255	Fine adjustment		
	4		9	8	12		Amber		
						000 - 255	0 - 100%		
			10		13		Amber Fine		
						000 - 255	Fine adjustment		
4	5		11	9	14		Red 2		
						000 - 255	0 - 100%		
			12		15		Red 2 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (6 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
18 ch A	24 ch A	18 ch B	60 ch	44 ch	87 ch				
5	6		13	10	16		Green 2		
						000 - 255	0 - 100%		
			14		17		Green 2 Fine		
						000 - 255	Fine adjustment		
6	7		15	11	18		Blue 2		
						000 - 255	0 - 100%		
			16		19		Blue 2 Fine		
						000 - 255	Fine adjustment		
			17	12	20		Mint 2		
						000 - 255	0 - 100%		
			18		21		Mint 2 Fine		
						000 - 255	Fine adjustment		
	8		19	13	22		Amber 2		
						000 - 255	0 - 100%		
			20		23		Amber 2 Fine		
						000 - 255	Fine adjustment		
	9		21	14	24		Red 3		
						000 - 255	0 - 100%		
			22		25		Red 3 Fine		
						000 - 255	Fine adjustment		
	10		23	15	26		Green 3		
						000 - 255	0 - 100%		
			24		27		Green 3 Fine		
						000 - 255	Fine adjustment		
	11		25	16	28		Blue 3		
						000 - 255	0 - 100%		
			26		29		Blue 3 Fine		
						000 - 255	Fine adjustment		
			27	17	30		Mint 3		
						000 - 255	0 - 100%		
			28		31		Mint 3 Fine		
						000 - 255	Fine adjustment		
	12		29	18	32		Amber 3		
						000 - 255	0 - 100%		
			30		33		Amber 3 Fine		
						000 - 255	Fine adjustment		
	13		31	19	34		Red 4		
						000 - 255	0 - 100%		
			32		35		Red 4 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (6 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
18 ch A	24 ch A	18 ch B	60 ch	44 ch	87 ch				
	14		33	20	36		Green 4		
						000 - 255	0 - 100%		
			34		37		Green 4 Fine		
						000 - 255	Fine adjustment		
	15		35	21	38		Blue 4		
						000 - 255	0 - 100%		
			36		39		Blue 4 Fine		
						000 - 255	Fine adjustment		
			37	22	40		Mint 4		
						000 - 255	0 - 100%		
			38		41		Mint 4 Fine		
						000 - 255	Fine adjustment		
	16		39	23	42		Amber 4		
						000 - 255	0 - 100%		
			40		43		Amber 4 Fine		
						000 - 255	Fine adjustment		
	17		41	24	44		Red 5		
						000 - 255	0 - 100%		
			42		45		Red 5 Fine		
						000 - 255	Fine adjustment		
	18		43	25	46		Green 5		
						000 - 255	0 - 100%		
			44		47		Green 5 Fine		
						000 - 255	Fine adjustment		
	19		45	26	48		Blue 5		
						000 - 255	0 - 100%		
			46		49		Blue 5 Fine		
						000 - 255	Fine adjustment		
			47	27	50		Mint 5		
						000 - 255	0 - 100%		
			48		51		Mint 5 Fine		
						000 - 255	Fine adjustment		
	20		49	28	52		Amber 5		
						000 - 255	0 - 100%		
			50		53		Amber 5 Fine		
						000 - 255	Fine adjustment		
	21		51	29	54		Red 6		
						000 - 255	0 - 100%		
			52		55		Red 6 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (6 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
18 ch A	24 ch A	18 ch B	60 ch	44 ch	87 ch				
	22		53	30	56		Green 6		
						000 - 255	0 - 100%		
			54		57		Green 6 Fine		
						000 - 255	Fine adjustment		
	23		55	31	58		Blue 6		
						000 - 255	0 - 100%		
			56		59		Blue 6 Fine		
						000 - 255	Fine adjustment		
			57	32	60		Mint 6		
						000 - 255	0 - 100%		
			58		61		Mint 6 Fine		
						000 - 255	Fine adjustment		
	24		59	33	62		Amber 6		
						000 - 255	0 - 100%		
			60		63		Amber 6 Fine		
						000 - 255	Fine adjustment		
		1					Hue		0
						000 - 255	0 to 360°		
		2					Saturation		0
						000 - 255	0 to 100%		
		3					Dimmer 1		0
						000 - 255	Intensity 0 to 100%		
		4					Hue 2		0
						000 - 255	0 to 360°		
		5					Saturation 2		0
						000 - 255	0 to 100%		
		6					Dimmer 2		0
						000 - 255	Intensity 0 to 100%		
		7					Hue 3		0
						000 - 255	0 to 360°		
		8					Saturation 3		0
						000 - 255	0 to 100%		
		9					Dimmer 3		0
						000 - 255	Intensity 0 to 100%		
		10					Hue 4		0
						000 - 255	0 to 360°		
		11					Saturation 4		0
						000 - 255	0 to 100%		

DMX TRAITS (6 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
18 ch A	24 ch A	18 ch B	60 ch	44 ch	87 ch				
		12					Dimmer 5		0
						000 - 255	Intensity 0 to 100%		
		13					Hue 5		0
						000 - 255	0 to 360°		
		14					Saturation 5		0
						000 - 255	0 to 100%		
		15					Dimmer 1		0
						000 - 255	Intensity 0 to 100%		
		16					Hue 6		0
						000 - 255	0 to 360°		
		17					Saturation 6		0
						000 - 255	0 to 100%		
		18					Dimmer 6		0
						000 - 255	Intensity 0 to 100%		
				34			CCT Presets	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				35			CCT Presets 2	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				36			CCT Presets 3	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				37			CCT Presets 4	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				38			CCT Presets 5	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				39			CCT Presets 6	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		

DMX TRAITS (6 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
18 ch A	24 ch A	18 ch B	60 ch	44 ch	87 ch				
					64		Variable CCT		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					65		Variable CCT Fine		0
						000 - 255	Fine adjustment		
					66		Variable CCT 2		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					67		Variable CCT Fine 2		0
						000 - 255	Fine adjustment		
					68		Variable CCT 3		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					69		Variable CCT Fine 3		0
						000 - 255	Fine adjustment		
					70		Variable CCT 4		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					71		Variable CCT Fine 4		0
						000 - 255	Fine adjustment		
					72		Variable CCT 5		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					73		Variable CCT Fine 5		0
						000 - 255	Fine adjustment		
					74		Variable CCT 6		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					75		Variable CCT Fine 6		0
						000 - 255	Fine adjustment		
					76		Green Shift		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					77		Green Shift 2		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		

DMX TRAITS (6 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
18 ch A	24 ch A	18 ch B	60 ch	44 ch	87 ch				
					78		Green Shift 3		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					79		Green Shift 4		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					80		Green Shift 5		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					81		Green Shift 6		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
				40	82		Color		0
						000	Open		
						001 - 179	Virtual Swatch Book (See Virtual Colors Table)		
							Color Scroll		
						180 - 201	Clockwise, fast to slow		
						202 - 207	Stop		
						228 - 229	Counter-clockwise, slow to fast		
						230 - 234	Open		
							Random Slots		
						235 - 239	Fast		
						240 - 244	Medium		
						245 - 249	Slow		
						250 - 255	Open		
				41	83		Effect Selection	X	0
						000 - 255	FX Selection, 1 - 255 (see table)		
				42	84		Effect Speed		0
						000 - 126	Fast to slow		
						127 - 128	Stop		
						129 - 255	Slow to fast		

DMX TRAITS (6 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
18 ch A	24 ch A	18 ch B	60 ch	44 ch	87 ch				
				43	85		Effect Offset	X	0
						000	Idle		
						001 - 035	Fixture Offset, 10° to 350°		
						036	Synchronized		
						037 - 049	Random Fixture Offset		
						050 - 059	Random Pixel Order		
						060 - 069	Random Steps		
						070 - 079	Idle		
							Effect Fade		
						080 - 089	Sinewave - Cross		
						090 - 099	Sinewave - Full		
						100 - 109	Sawtooth - Cross		
						110 - 119	Sawtooth - Full		
						120 - 129	Ramp Up		
						130 - 139	Ramp Down		
						140 - 149	Steps		
						150 - 255	Idle		
					86		Dim Modes	X	0
						000 - 020	Standard		
						021 - 040	Stage		
						041 - 060	TV		
						061 - 080	Architectural		
						081 - 100	Theatre		
						101 - 120	Stage 2		
							Dimmer Delay Time		
						121	0s		
						122	0.1s		
						123	0.2s		
						124	0.3s		
						125	0.4s		
						126	0.5s		
						127	0.6s		
						128	0.7s		
						129	0.8s		
						130	0.9s		
						131	1.0s		
						132	1.5s		
						133	2.0s		
						134	3.0s		

DMX TRAITS (6 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
18 ch A	24 ch A	18 ch B	60 ch	44 ch	87 ch				
					86		Dimmer Delay Time	X	0
						135	4.0s		
						136	5.0s		
						137	6.0s		
						138	7.0s		
						139	8.0s		
						140	9.0s		
						141	10s		
						142 - 149	Idle		
							Dim to Warm		
						150 - 154	DTW On		
						155 - 159	DTW Off (default)		
						160 - 255	Idle		
							Control		
						000 - 009	Idle		
				44	87	010 - 014	Fan Mode Auto (default)	X	0
						015 - 019	Fan Mode Mute		
						020 - 024	Fan Mode Silent		
						025 - 029	Fan Mode High		
						030 - 049	Idle		
						050 - 054	Default Pixel Order		
						055 - 059	Flip Pixel Order		
						060 - 064	Default Cell Layout		
						065 - 069	Split Cell Layout		
						070 - 099	Idle		
							Refresh Rate (Hz)		
						100	900		
						101	910		
						102	920		
						103	930		
						104	940		
						105	950		
						106	960		
						107	970		
						108	980		
						109	990		
						110	1000		
						111	1010		
						112	1020		

DMX TRAITS (6 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
18 ch A	24 ch A	18 ch B	60 ch	44 ch	87 ch				
							Refresh Rate (Hz) (continued)		
						113	1030		
						114	1040		
						115	1050		
						116	1060		
						117	1070		
						118	1080		
						119	1090		
						120	1100		
						121	1110		
						122	1120		
						123	1130		
						124	1140		
						125	1150		
						126	1160		
						127	1170		
						128	1180		
						129	1190		
						130	1200 (default)		
				44	87	131	1210	X	0
						132	1220		
						133	1230		
						134	1240		
						135	1250		
						136	1260		
						137	1270		
						138	1280		
						139	1290		
						140	1300		
						141	1310		
						142	1320		
						143	1330		
						144	1340		
						145	1350		
						146	1360		
						147	1370		
						148	1380		
						149	1390		
						150	1400		

DMX TRAITS (6 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
18 ch A	24 ch A	18 ch B	60 ch	44 ch	87 ch				
							Refresh Rate (Hz) (continued)		
						151	1410		
						152	1420		
						153	1430		
						154	1440		
						155	1450		
						156	1460		
						157	1470		
						158	1480		
						159	1490		
						160	1500		
						161	2500		
						162	4000		
						163	5000		
						164	6000		
						165	10000		
						166	15000		
						167	20000		
						168	25000		
						169 - 174	Idle		
							Color Tuning		
						175 - 176	Highest Fidelity		
						177 - 178	Balanced Output and Fidelity		
						179 - 180	Highest Output (default)		
							Output Balance		
						181 - 182	Bright (Highest Output) (default)		
						183 - 184	Uniform (Elation Full Spectrum Match)		
						185 - 200	Idle		
							Dimmer Curves		
						201 - 210	Linear		
						211 - 220	Square		
						221 - 230	Inverse Square		
						231 - 240	S-Curve (default)		
						241 - 255	Idle		

DMX TRAITS (8 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
24 ch B	32 ch B	24 ch C	80 ch A	56 ch	113 ch				
				1	1		Dimmer		0
						000 - 255	Intensity, 0 - 100%		
				2	2		Dimmer Fine		0
						000 - 255	Fine intensity control		
				3	3		Shutter/Strobe		50
						000 - 031	Shutter closed		
						032 - 063	No function (shutter open)		
						064 - 095	Strobe effect, slow to fast		
						096 - 127	No function (shutter open)		
						128 - 159	Pulse effect in sequences		
						160 - 191	No function (shutter open)		
						192 - 223	Random strobe effect, slow to fast		
						224 - 225	No function (shutter open)		
						226 - 253	Random pixel, slow to fast		
						254 - 255	No function (shutter open)		
1	1		1	4	4		Red		
						000 - 255	0 - 100%		
			2		5		Red Fine		
						000 - 255	Fine adjustment		
2	2		3	5	6		Green		
						000 - 255	0 - 100%		
			4		7		Green Fine		
						000 - 255	Fine adjustment		
3	3		5	6	8		Blue		
						000 - 255	0 - 100%		
			6		9		Blue Fine		
						000 - 255	Fine adjustment		
			7	7	10		Mint		
						000 - 255	0 - 100%		
			8		11		Mint Fine		
						000 - 255	Fine adjustment		
	4		9	8	12		Amber		
						000 - 255	0 - 100%		
			10		13		Amber Fine		
						000 - 255	Fine adjustment		
4	5		11	9	14		Red 2		
						000 - 255	0 - 100%		
			12		15		Red 2 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (8 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
24 ch B	32 ch B	24 ch C	80 ch A	56 ch	113 ch				
5	6		13	10	16		Green 2		
						000 - 255	0 - 100%		
			14		17		Green 2 Fine		
						000 - 255	Fine adjustment		
6	7		15	11	18		Blue 2		
						000 - 255	0 - 100%		
			16		19		Blue 2 Fine		
						000 - 255	Fine adjustment		
			17	12	20		Mint 2		
						000 - 255	0 - 100%		
			18		21		Mint 2 Fine		
						000 - 255	Fine adjustment		
	8		19	13	22		Amber 2		
						000 - 255	0 - 100%		
			20		23		Amber 2 Fine		
						000 - 255	Fine adjustment		
7	9		21	14	24		Red 3		
						000 - 255	0 - 100%		
			22		25		Red 3 Fine		
						000 - 255	Fine adjustment		
8	10		23	15	26		Green 3		
						000 - 255	0 - 100%		
			24		27		Green 3 Fine		
						000 - 255	Fine adjustment		
9	11		25	16	28		Blue 3		
						000 - 255	0 - 100%		
			26		29		Blue 3 Fine		
						000 - 255	Fine adjustment		
			27	17	30		Mint 3		
						000 - 255	0 - 100%		
			28		31		Mint 3 Fine		
						000 - 255	Fine adjustment		
	12		29	18	32		Amber 3		
						000 - 255	0 - 100%		
			30		33		Amber 3 Fine		
						000 - 255	Fine adjustment		
10	13		31	19	34		Red 4		
						000 - 255	0 - 100%		
			32		35		Red 4 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (8 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
24 ch B	32 ch B	24 ch C	80 ch A	56 ch	113 ch				
11	14		33	20	36		Green 4		
						000 - 255	0 - 100%		
			34		37		Green 4 Fine		
						000 - 255	Fine adjustment		
12	15		35	21	38		Blue 4		
						000 - 255	0 - 100%		
			36		39		Blue 4 Fine		
						000 - 255	Fine adjustment		
			37	22	40		Mint 4		
						000 - 255	0 - 100%		
			38		41		Mint 4 Fine		
						000 - 255	Fine adjustment		
	16		39	23	42		Amber 4		
						000 - 255	0 - 100%		
			40		43		Amber 4 Fine		
						000 - 255	Fine adjustment		
13	17		41	24	44		Red 5		
						000 - 255	0 - 100%		
			42		45		Red 5 Fine		
						000 - 255	Fine adjustment		
14	18		43	25	46		Green 5		
						000 - 255	0 - 100%		
			44		47		Green 5 Fine		
						000 - 255	Fine adjustment		
15	19		45	26	48		Blue 5		
						000 - 255	0 - 100%		
			46		49		Blue 5 Fine		
						000 - 255	Fine adjustment		
			47	27	50		Mint 5		
						000 - 255	0 - 100%		
			48		51		Mint 5 Fine		
						000 - 255	Fine adjustment		
	20		49	28	52		Amber 5		
						000 - 255	0 - 100%		
			50		53		Amber 5 Fine		
						000 - 255	Fine adjustment		
16	21		51	29	54		Red 6		
						000 - 255	0 - 100%		
			52		55		Red 6 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (8 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
24 ch B	32 ch B	24 ch C	80 ch A	56 ch	113 ch				
17	22		53	30	56		Green 6		
						000 - 255	0 - 100%		
			54		57		Green 6 Fine		
						000 - 255	Fine adjustment		
18	23		55	31	58		Blue 6		
						000 - 255	0 - 100%		
			56		59		Blue 6 Fine		
						000 - 255	Fine adjustment		
			57	32	60		Mint 6		
						000 - 255	0 - 100%		
			58		61		Mint 6 Fine		
						000 - 255	Fine adjustment		
	24		59	33	62		Amber 6		
						000 - 255	0 - 100%		
			60		63		Amber 6 Fine		
						000 - 255	Fine adjustment		
19	25		61	34	64		Red 7		
						000 - 255	0 - 100%		
			62		65		Red 7 Fine		
						000 - 255	Fine adjustment		
20	26		63	35	66		Green 7		
						000 - 255	0 - 100%		
			64		67		Green 7 Fine		
						000 - 255	Fine adjustment		
21	27		65	36	68		Blue 7		
						000 - 255	0 - 100%		
			66		69		Blue 7 Fine		
						000 - 255	Fine adjustment		
			67	37	70		Mint 7		
						000 - 255	0 - 100%		
			68		71		Mint 7 Fine		
						000 - 255	Fine adjustment		
	28		69	38	72		Amber 7		
						000 - 255	0 - 100%		
			70		73		Amber 7 Fine		
						000 - 255	Fine adjustment		
22	29		71	39	74		Red 8		
						000 - 255	0 - 100%		
			72		75		Red 8 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (8 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
24 ch B	32 ch B	24 ch C	80 ch A	56 ch	113 ch				
23	30		73	40	76		Green 8		
						000 - 255	0 - 100%		
			74		77		Green 8 Fine		
						000 - 255	Fine adjustment		
24	31		75	41	78		Blue 8		
						000 - 255	0 - 100%		
			76		79		Blue 8 Fine		
						000 - 255	Fine adjustment		
			77	42	80		Mint 8		
						000 - 255	0 - 100%		
			78		81		Mint 8 Fine		
						000 - 255	Fine adjustment		
	32		79	43	82		Amber 8		
						000 - 255	0 - 100%		
			80		83		Amber 8 Fine		
						000 - 255	Fine adjustment		
		1					Hue		0
						000 - 255	0 to 360°		
		2					Saturation		0
						000 - 255	0 to 100%		
		3					Dimmer 1		0
						000 - 255	Intensity 0 to 100%		
		4					Hue 2		0
						000 - 255	0 to 360°		
		5					Saturation 2		0
						000 - 255	0 to 100%		
		6					Dimmer 2		0
						000 - 255	Intensity 0 to 100%		
		7					Hue 3		0
						000 - 255	0 to 360°		
		8					Saturation 3		0
						000 - 255	0 to 100%		
		9					Dimmer 4		0
						000 - 255	Intensity 0 to 100%		
		10					Hue 4		0
						000 - 255	0 to 360°		
		11					Saturation 4		0
						000 - 255	0 to 100%		
		12					Dimmer 4		0
						000 - 255	Intensity 0 to 100%		

DMX TRAITS (8 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
24 ch B	32 ch B	24 ch C	80 ch A	56 ch	113 ch				
		13					Hue 5		0
						000 - 255	0 to 360°		
		14					Saturation 5		0
						000 - 255	0 to 100%		
		15					Dimmer 5		0
						000 - 255	Intensity 0 to 100%		
		16					Hue 6		0
						000 - 255	0 to 360°		
		17					Saturation 6		0
						000 - 255	0 to 100%		
		18					Dimmer 6		0
						000 - 255	Intensity 0 to 100%		
		19					Hue 7		0
						000 - 255	0 to 360°		
		20					Saturation 7		0
						000 - 255	0 to 100%		
		21					Dimmer 7		0
						000 - 255	Intensity 0 to 100%		
		22					Hue 8		0
						000 - 255	0 to 360°		
		23					Saturation 8		0
						000 - 255	0 to 100%		
		24					Dimmer 8		0
						000 - 255	Intensity 0 to 100%		
				44			CCT Presets		
						000 - 023	Open	X	0
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				45			CCT Presets 2		
						000 - 023	Open	X	0
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				46			CCT Presets 3		
						000 - 023	Open	X	0
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				47			CCT Presets 4		
						000 - 023	Open	X	0
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		

DMX TRAITS (8 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
24 ch B	32 ch B	24 ch C	80 ch A	56 ch	113 ch				
				48			CCT Presets 5	X	0
					000 - 023	Open			
					024 - 085	2400K to 8500K (see Color Temperature Table)			
					086 - 255	8500K			
				49			CCT Presets 6	X	0
					000 - 023	Open			
					024 - 085	2400K to 8500K (see Color Temperature Table)			
					086 - 255	8500K			
				50			CCT Presets 7	X	0
					000 - 023	Open			
					024 - 085	2400K to 8500K (see Color Temperature Table)			
					086 - 255	8500K			
				51			CCT Presets 8	X	0
					000 - 023	Open			
					024 - 085	2400K to 8500K (see Color Temperature Table)			
					086 - 255	8500K			
				84			Variable CCT		0
					000 - 023	Open			
					024 - 255	2400K to 8500K			
				85			Variable CCT Fine		0
					000 - 255	Fine adjustment			
				86			Variable CCT 2		0
					000 - 023	Open			
					024 - 255	2400K to 8500K			
				87			Variable CCT Fine 2		0
					000 - 255	Fine adjustment			
				88			Variable CCT 3		0
					000 - 023	Open			
					024 - 255	2400K to 8500K			
				89			Variable CCT Fine 3		0
					000 - 255	Fine adjustment			
				90			Variable CCT 4		0
					000 - 023	Open			
					024 - 255	2400K to 8500K			
				91			Variable CCT Fine 4		0
					000 - 255	Fine adjustment			

DMX TRAITS (8 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
24 ch B	32 ch B	24 ch C	80 ch A	56 ch	113 ch				
					92		Variable CCT 5		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					93		Variable CCT Fine 5		0
						000 - 255	Fine adjustment		
					94		Variable CCT 6		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					95		Variable CCT Fine 6		0
						000 - 255	Fine adjustment		
					96		Variable CCT 7		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					97		Variable CCT Fine 7		0
						000 - 255	Fine adjustment		
					98		Variable CCT 8		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					99		Variable CCT Fine 8		0
						000 - 255	Fine adjustment		
					100		Green Shift		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					101		Green Shift 2		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					102		Green Shift 3		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					103		Green Shift 4		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		

DMX TRAITS (8 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
24 ch B	32 ch B	24 ch C	80 ch A	56 ch	113 ch				
					104		Green Shift 5		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					105		Green Shift 6		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					106		Green Shift 7		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					107		Green Shift 8		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
				52	108		Color		0
						000	Open		
						001 - 179	Virtual Swatch Book (See Virtual Colors Table)		
							Color Scroll		
						180 - 201	Clockwise, fast to slow		
						202 - 207	Stop		
						228 - 229	Counter-clockwise, slow to fast		
						230 - 234	Open		
							Random Slots		
						235 - 239	Fast		
						240 - 244	Medium		
						245 - 249	Slow		
						250 - 255	Open		
				53	109		Effect Selection	X	0
						000 - 255	FX Selection, 1 - 255 (see table)		
				54	110		Effect Speed		0
						000 - 126	Fast to slow		
						127 - 128	Stop		
						129 - 255	Slow to fast		

DMX TRAITS (8 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
24 ch B	32 ch B	24 ch C	80 ch A	56 ch	113 ch				
				55	111		Effect Offset	X	0
						000	Idle		
						001 - 035	Fixture Offset, 10° to 350°		
						036	Synchronized		
						037 - 049	Random Fixture Offset		
						050 - 059	Random Pixel Order		
						060 - 069	Random Steps		
						070 - 079	Idle		
							Effect Fade		
						080 - 089	Sinewave - Cross		
						090 - 099	Sinewave - Full		
						100 - 109	Sawtooth - Cross		
						110 - 119	Sawtooth - Full		
						120 - 129	Ramp Up		
						130 - 139	Ramp Down		
						140 - 149	Steps		
						150 - 255	Idle		
					112		Dim Modes	X	0
						000 - 020	Standard		
						021 - 040	Stage		
						041 - 060	TV		
						061 - 080	Architectural		
						081 - 100	Theatre		
						101 - 120	Stage 2		
							Dimmer Delay Time		
						121	0s		
						122	0.1s		
						123	0.2s		
						124	0.3s		
						125	0.4s		
						126	0.5s		
						127	0.6s		
						128	0.7s		
						129	0.8s		
						130	0.9s		
						131	1.0s		
						132	1.5s		
						133	2.0s		
						134	3.0s		

DMX TRAITS (8 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
24 ch B	32 ch B	24 ch C	80 ch A	56 ch	113 ch				
					112		Dimmer Delay Time (continued)	X	0
						135	4.0s		
						136	5.0s		
						137	6.0s		
						138	7.0s		
						139	8.0s		
						140	9.0s		
						141	10s		
						142 - 149	Idle		
							Dim to Warm		
						150 - 154	DTW On		
						155 - 159	DTW Off (default)		
						160 - 255	Idle		
							Control		
						000 - 009	Idle		
				56	113	010 - 014	Fan Mode Auto (default)	X	0
						015 - 019	Fan Mode Mute		
						020 - 024	Fan Mode Silent		
						025 - 029	Fan Mode High		
						030 - 049	Idle		
						050 - 054	Default Pixel Order		
						055 - 059	Flip Pixel Order		
						060 - 064	Default Cell Layout		
						065 - 069	Split Cell Layout		
						070 - 099	Idle		
							Refresh Rate (Hz)		
						100	900		
						101	910		
						102	920		
						103	930		
						104	940		
						105	950		
						106	960		
						107	970		
						108	980		
						109	990		
						110	1000		
						111	1010		
						112	1020		

DMX TRAITS (8 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
24 ch B	32 ch B	24 ch C	80 ch A	56 ch	113 ch				
							Refresh Rate (Hz) (continued)		
						113	1030		
						114	1040		
						115	1050		
						116	1060		
						117	1070		
						118	1080		
						119	1090		
						120	1100		
						121	1110		
						122	1120		
						123	1130		
						124	1140		
						125	1150		
						126	1160		
						127	1170		
						128	1180		
						129	1190		
						130	1200 (default)		
				56	113	131	1210	X	0
						132	1220		
						133	1230		
						134	1240		
						135	1250		
						136	1260		
						137	1270		
						138	1280		
						139	1290		
						140	1300		
						141	1310		
						142	1320		
						143	1330		
						144	1340		
						145	1350		
						146	1360		
						147	1370		
						148	1380		
						149	1390		
						150	1400		

DMX TRAITS (8 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
24 ch B	32 ch B	24 ch C	80 ch A	56 ch	113 ch				
							Refresh Rate (Hz) (continued)		
						151	1410		
						152	1420		
						153	1430		
						154	1440		
						155	1450		
						156	1460		
						157	1470		
						158	1480		
						159	1490		
						160	1500		
						161	2500		
						162	4000		
						163	5000		
						164	6000		
						165	10000		
				56	113	166	15000	X	0
						167	20000		
						168	25000		
						169 - 174	Idle		
							Color Tuning		
						175 - 176	Highest Fidelity		
						177 - 178	Balanced Output and Fidelity		
						179 - 180	Highest Output (default)		
							Output Balance		
						181 - 182	Bright (Highest Output) (default)		
						183 - 184	Uniform (Elation Full Spectrum Match)		
						185 - 200	Idle		
							Dimmer Curves		
						201 - 210	Linear		
						211 - 220	Square		
						221 - 230	Inverse Square		
						231 - 240	S-Curve (default)		
						241 - 255	Idle		

DMX TRAITS (12 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
36 ch A	48 ch B	36 ch B	120 ch	80 ch B	165 ch				
				1	1		Dimmer		0
						000 - 255	Intensity, 0 - 100%		
				2	2		Dimmer Fine		0
						000 - 255	Fine intensity control		
				3	3		Shutter/Strobe		50
						000 - 031	Shutter closed		
						032 - 063	No function (shutter open)		
						064 - 095	Strobe effect, slow to fast		
						096 - 127	No function (shutter open)		
						128 - 159	Pulse effect in sequences		
						160 - 191	No function (shutter open)		
						192 - 223	Random strobe effect, slow to fast		
						224 - 225	No function (shutter open)		
						226 - 253	Random pixel, slow to fast		
						254 - 255	No function (shutter open)		
1	1		1	4	4		Red		
						000 - 255	0 - 100%		
			2		5		Red Fine		
						000 - 255	Fine adjustment		
2	2		3	5	6		Green		
						000 - 255	0 - 100%		
			4		7		Green Fine		
						000 - 255	Fine adjustment		
3	3		5	6	8		Blue		
						000 - 255	0 - 100%		
			6		9		Blue Fine		
						000 - 255	Fine adjustment		
			7	7	10		Mint		
						000 - 255	0 - 100%		
			8		11		Mint Fine		
						000 - 255	Fine adjustment		
	4		9	8	12		Amber		
						000 - 255	0 - 100%		
			10		13		Amber Fine		
						000 - 255	Fine adjustment		
4	5		11	9	14		Red 2		
						000 - 255	0 - 100%		
			12		15		Red 2 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (12 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
36 ch A	48 ch B	36 ch B	120 ch	80 ch B	165 ch				
5	6		13	10	16		Green 2		
						000 - 255	0 - 100%		
			14		17		Green 2 Fine		
						000 - 255	Fine adjustment		
6	7		15	11	18		Blue 2		
						000 - 255	0 - 100%		
			16		19		Blue 2 Fine		
						000 - 255	Fine adjustment		
			17	12	20		Mint 2		
						000 - 255	0 - 100%		
			18		21		Mint 2 Fine		
						000 - 255	Fine adjustment		
	8		19	13	22		Amber 2		
						000 - 255	0 - 100%		
			20		23		Amber 2 Fine		
						000 - 255	Fine adjustment		
7	9		21	14	24		Red 3		
						000 - 255	0 - 100%		
			22		25		Red 3 Fine		
						000 - 255	Fine adjustment		
8	10		23	15	26		Green 3		
						000 - 255	0 - 100%		
			24		27		Green 3 Fine		
						000 - 255	Fine adjustment		
9	11		25	16	28		Blue 3		
						000 - 255	0 - 100%		
			26		29		Blue 3 Fine		
						000 - 255	Fine adjustment		
			27	17	30		Mint 3		
						000 - 255	0 - 100%		
			28		31		Mint 3 Fine		
						000 - 255	Fine adjustment		
	12		29	18	32		Amber 3		
						000 - 255	0 - 100%		
			30		33		Amber 3 Fine		
						000 - 255	Fine adjustment		
10	13		31	19	34		Red 4		
						000 - 255	0 - 100%		
			32		35		Red 4 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (12 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
36 ch A	48 ch B	36 ch B	120 ch	80 ch B	165 ch				
11	14		33	20	36		Green 4		
						000 - 255	0 - 100%		
			34		37		Green 4 Fine		
						000 - 255	Fine adjustment		
12	15		35	21	38		Blue 4		
						000 - 255	0 - 100%		
			36		39		Blue 4 Fine		
						000 - 255	Fine adjustment		
			37	22	40		Mint 4		
						000 - 255	0 - 100%		
			38		41		Mint 4 Fine		
						000 - 255	Fine adjustment		
	16		39	23	42		Amber 4		
						000 - 255	0 - 100%		
			40		43		Amber 4 Fine		
						000 - 255	Fine adjustment		
13	17		41	24	44		Red 5		
						000 - 255	0 - 100%		
			42		45		Red 5 Fine		
						000 - 255	Fine adjustment		
14	18		43	25	46		Green 5		
						000 - 255	0 - 100%		
			44		47		Green 5 Fine		
						000 - 255	Fine adjustment		
15	19		45	26	48		Blue 5		
						000 - 255	0 - 100%		
			46		49		Blue 5 Fine		
						000 - 255	Fine adjustment		
			47	27	50		Mint 5		
						000 - 255	0 - 100%		
			48		51		Mint 5 Fine		
						000 - 255	Fine adjustment		
	20		49	28	52		Amber 5		
						000 - 255	0 - 100%		
			50		53		Amber 5 Fine		
						000 - 255	Fine adjustment		
16	21		51	29	54		Red 6		
						000 - 255	0 - 100%		
			52		55		Red 6 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (12 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
36 ch A	48 ch B	36 ch B	120 ch	80 ch B	165 ch				
17	22		53	30	56		Green 6		
						000 - 255	0 - 100%		
			54		57		Green 6 Fine		
						000 - 255	Fine adjustment		
18	23		55	31	58		Blue 6		
						000 - 255	0 - 100%		
			56		59		Blue 6 Fine		
						000 - 255	Fine adjustment		
			57	32	60		Mint 6		
						000 - 255	0 - 100%		
			58		61		Mint 6 Fine		
						000 - 255	Fine adjustment		
	24		59	33	62		Amber 6		
						000 - 255	0 - 100%		
			60		63		Amber 6 Fine		
						000 - 255	Fine adjustment		
19	25		61	34	64		Red 7		
						000 - 255	0 - 100%		
			62		65		Red 7 Fine		
						000 - 255	Fine adjustment		
20	26		63	35	66		Green 7		
						000 - 255	0 - 100%		
			64		67		Green 7 Fine		
						000 - 255	Fine adjustment		
21	27		65	36	68		Blue 7		
						000 - 255	0 - 100%		
			66		69		Blue 7 Fine		
						000 - 255	Fine adjustment		
			67	37	70		Mint 7		
						000 - 255	0 - 100%		
			68		71		Mint 7 Fine		
						000 - 255	Fine adjustment		
	28		69	38	72		Amber 7		
						000 - 255	0 - 100%		
			70		73		Amber 7 Fine		
						000 - 255	Fine adjustment		
22	29		71	39	74		Red 8		
						000 - 255	0 - 100%		
			72		75		Red 8 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (12 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
36 ch A	48 ch B	36 ch B	120 ch	80 ch B	165 ch				
23	30		73	40	76		Green 8		
						000 - 255	0 - 100%		
			74		77		Green 8 Fine		
						000 - 255	Fine adjustment		
24	31		75	41	78		Blue 8		
						000 - 255	0 - 100%		
			76		79		Blue 8 Fine		
						000 - 255	Fine adjustment		
			77	42	80		Mint 8		
						000 - 255	0 - 100%		
			78		81		Mint 8 Fine		
						000 - 255	Fine adjustment		
	32		79	43	82		Amber 8		
						000 - 255	0 - 100%		
			80		83		Amber 8 Fine		
						000 - 255	Fine adjustment		
25	33		81	44	84		Red 9		
						000 - 255	0 - 100%		
			82		85		Red 9 Fine		
						000 - 255	Fine adjustment		
26	34		83	45	86		Green 9		
						000 - 255	0 - 100%		
			84		87		Green 9 Fine		
						000 - 255	Fine adjustment		
27	35		85	46	88		Blue 9		
						000 - 255	0 - 100%		
			86		89		Blue 9 Fine		
						000 - 255	Fine adjustment		
			87	47	90		Mint 9		
						000 - 255	0 - 100%		
			88		91		Mint 9 Fine		
						000 - 255	Fine adjustment		
	36		89	48	92		Amber 9		
						000 - 255	0 - 100%		
			90		93		Amber 9 Fine		
						000 - 255	Fine adjustment		
28	37		91	49	94		Red 10		
						000 - 255	0 - 100%		
			92		95		Red 10 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (12 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
36 ch A	48 ch B	36 ch B	120 ch	80 ch B	165 ch				
29	38		93	50	96		Green 10		
						000 - 255	0 - 100%		
			94		97		Green 10 Fine		
						000 - 255	Fine adjustment		
30	39		95	51	98		Blue 10		
						000 - 255	0 - 100%		
			96		99		Blue 10 Fine		
						000 - 255	Fine adjustment		
			97	52	100		Mint 10		
						000 - 255	0 - 100%		
			98		101		Mint 10 Fine		
						000 - 255	Fine adjustment		
	40		99	53	102		Amber 10		
						000 - 255	0 - 100%		
			100		103		Amber 10 Fine		
						000 - 255	Fine adjustment		
31	41		101	54	104		Red 11		
						000 - 255	0 - 100%		
			102		105		Red 11 Fine		
						000 - 255	Fine adjustment		
32	42		103	55	106		Green 11		
						000 - 255	0 - 100%		
			104		107		Green 11 Fine		
						000 - 255	Fine adjustment		
33	43		105	56	108		Blue 11		
						000 - 255	0 - 100%		
			106		109		Blue 11 Fine		
						000 - 255	Fine adjustment		
			107	57	110		Mint 11		
						000 - 255	0 - 100%		
			108		111		Mint 11 Fine		
						000 - 255	Fine adjustment		
	44		109	58	112		Amber 11		
						000 - 255	0 - 100%		
			110		113		Amber 11 Fine		
						000 - 255	Fine adjustment		
34	45		111	59	114		Red 12		
						000 - 255	0 - 100%		
			112		115		Red 12 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (12 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
36 ch A	48 ch B	36 ch B	120 ch	80 ch B	165 ch				
35	46		113	60	116		Green 12		
						000 - 255	0 - 100%		
			114		117		Green 12 Fine		
						000 - 255	Fine adjustment		
36	47		115	61	118		Blue 12		
						000 - 255	0 - 100%		
			116		119		Blue 12 Fine		
						000 - 255	Fine adjustment		
			117	62	120		Mint 12		
						000 - 255	0 - 100%		
			118		121		Mint 12 Fine		
						000 - 255	Fine adjustment		
	48		119	63	122		Amber 12		
						000 - 255	0 - 100%		
			120		123		Amber 12 Fine		
						000 - 255	Fine adjustment		
		1					Hue		0
						000 - 255	0 to 360°		
		2					Saturation		0
						000 - 255	0 to 100%		
		3					Dimmer 1		0
						000 - 255	Intensity 0 to 100%		
		4					Hue 2		0
						000 - 255	0 to 360°		
		5					Saturation 2		0
						000 - 255	0 to 100%		
		6					Dimmer 2		0
						000 - 255	Intensity 0 to 100%		
		7					Hue 3		0
						000 - 255	0 to 360°		
		8					Saturation 3		0
						000 - 255	0 to 100%		
		9					Dimmer 3		0
						000 - 255	Intensity 0 to 100%		
		10					Hue 4		0
						000 - 255	0 to 360°		
		11					Saturation 4		0
						000 - 255	0 to 100%		
		12					Dimmer 4		0
						000 - 255	Intensity 0 to 100%		

DMX TRAITS (12 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
36 ch A	48 ch B	36 ch B	120 ch	80 ch B	165 ch				
		13					Hue 5		0
						000 - 255	0 to 360°		
		14					Saturation 5		0
						000 - 255	0 to 100%		
		15					Dimmer 5		0
						000 - 255	Intensity 0 to 100%		
		16					Hue 6		0
						000 - 255	0 to 360°		
		17					Saturation 6		0
						000 - 255	0 to 100%		
		18					Dimmer 6		0
						000 - 255	Intensity 0 to 100%		
		19					Hue 7		0
						000 - 255	0 to 360°		
		20					Saturation 7		0
						000 - 255	0 to 100%		
		21					Dimmer 7		0
						000 - 255	Intensity 0 to 100%		
		22					Hue 8		0
						000 - 255	0 to 360°		
		23					Saturation 8		0
						000 - 255	0 to 100%		
		24					Dimmer 8		0
						000 - 255	Intensity 0 to 100%		
		25					Hue 9		0
						000 - 255	0 to 360°		
		26					Saturation 9		0
						000 - 255	0 to 100%		
		27					Dimmer 9		0
						000 - 255	Intensity 0 to 100%		
		28					Hue 10		0
						000 - 255	0 to 360°		
		29					Saturation 10		0
						000 - 255	0 to 100%		
		30					Dimmer 10		0
						000 - 255	Intensity 0 to 100%		

DMX TRAITS (12 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
36 ch A	48 ch B	36 ch B	120 ch	80 ch B	165 ch				
		31					Hue 11		0
						000 - 255	0 to 360°		
		32					Saturation 11		0
						000 - 255	0 to 100%		
		33					Dimmer 11		0
						000 - 255	Intensity 0 to 100%		
		34					Hue 12		0
						000 - 255	0 to 360°		
		35					Saturation 12		0
						000 - 255	0 to 100%		
		36					Dimmer 12		0
						000 - 255	Intensity 0 to 100%		
				64			CCT Presets	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				65			CCT Presets 2	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				66			CCT Presets 3	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				67			CCT Presets 4	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				68			CCT Presets 5	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				69			CCT Presets 6	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				70			CCT Presets 7	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		

DMX TRAITS (12 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
36 ch A	48 ch B	36 ch B	120 ch	80 ch B	165 ch				
				71			CCT Presets 8		
						000 - 023	Open	X	0
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				72			CCT Presets 9		
						000 - 023	Open	X	0
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				73			CCT Presets 10		
						000 - 023	Open	X	0
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				74			CCT Presets 11		
						000 - 023	Open	X	0
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				75			CCT Presets 12		
						000 - 023	Open	X	0
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
					124		Variable CCT		
						000 - 023	Open		0
						024 - 255	2400K to 8500K		
					125		Variable CCT Fine		
						000 - 255	Fine adjustment		0
					126		Variable CCT 2		
						000 - 023	Open		0
						024 - 255	2400K to 8500K		
					127		Variable CCT Fine 2		
						000 - 255	Fine adjustment		0
					128		Variable CCT 3		
						000 - 023	Open		0
						024 - 255	2400K to 8500K		
					129		Variable CCT Fine 3		
						000 - 255	Fine adjustment		0
					130		Variable CCT 4		
						000 - 023	Open		0
						024 - 255	2400K to 8500K		
					131		Variable CCT Fine 4		
						000 - 255	Fine adjustment		0

DMX TRAITS (12 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
36 ch A	48 ch B	36 ch B	120 ch	80 ch B	165 ch				
					132		Variable CCT 5		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					133		Variable CCT Fine 5		0
						000 - 255	Fine adjustment		
					134		Variable CCT 6		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					135		Variable CCT Fine 6		0
						000 - 255	Fine adjustment		
					136		Variable CCT 7		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					137		Variable CCT Fine 7		0
						000 - 255	Fine adjustment		
					138		Variable CCT 8		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					139		Variable CCT Fine 8		0
						000 - 255	Fine adjustment		
					140		Variable CCT 9		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					141		Variable CCT Fine 9		0
						000 - 255	Fine adjustment		
					142		Variable CCT 10		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					143		Variable CCT Fine 10		0
						000 - 255	Fine adjustment		
					144		Variable CCT 11		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					145		Variable CCT Fine 11		0
						000 - 255	Fine adjustment		
					146		Variable CCT 12		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					147		Variable CCT Fine 12		0
						000 - 255	Fine adjustment		

DMX TRAITS (12 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
36 ch A	48 ch B	36 ch B	120 ch	80 ch B	165 ch				
					148		Green Shift		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					149		Green Shift 2		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					150		Green Shift 3		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					151		Green Shift 4		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					152		Green Shift 5		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					153		Green Shift 6		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					154		Green Shift 7		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					155		Green Shift 8		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		

DMX TRAITS (12 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
36 ch A	48 ch B	36 ch B	120 ch	80 ch B	165 ch				
					156		Green Shift 9		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					157		Green Shift 10		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					158		Green Shift 11		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					159		Green Shift 12		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
				76	160		Color		0
						000	Open		
						001 - 179	Virtual Swatch Book (See Virtual Colors Table)		
							Color Scroll		
						180 - 201	Clockwise, fast to slow		
						202 - 207	Stop		
						228 - 229	Counter-clockwise, slow to fast		
						230 - 234	Open		
							Random Slots		
						235 - 239	Fast		
						240 - 244	Medium		
						245 - 249	Slow		
						250 - 255	Open		
				77	161		Effect Selection		0
						000 - 255	FX Selection, 1 - 255 (see table)	X	
				78	162		Effect Speed		0
						000 - 126	Fast to slow		
						127 - 128	Stop		
						129 - 255	Slow to fast		

DMX TRAITS (12 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
36 ch A	48 ch B	36 ch B	120 ch	80 ch B	165 ch				
				79	163		Effect Offset	X	0
						000	Idle		
						001 - 035	Fixture Offset, 10° to 350°		
						036	Synchronized		
						037 - 049	Random Fixture Offset		
						050 - 059	Random Pixel Order		
						060 - 069	Random Steps		
						070 - 079	Idle		
							Effect Fade		
						080 - 089	Sinewave - Cross		
						090 - 099	Sinewave - Full		
						100 - 109	Sawtooth - Cross		
						110 - 119	Sawtooth - Full		
						120 - 129	Ramp Up		
						130 - 139	Ramp Down		
						140 - 149	Steps		
						150 - 255	Idle		
					164		Dim Modes	X	0
						000 - 020	Standard		
						021 - 040	Stage		
						041 - 060	TV		
						061 - 080	Architectural		
						081 - 100	Theatre		
						101 - 120	Stage 2		
							Dimmer Delay Time		
						121	0s		
						122	0.1s		
						123	0.2s		
						124	0.3s		
						125	0.4s		
						126	0.5s		
						127	0.6s		
						128	0.7s		
						129	0.8s		
						130	0.9s		
						131	1.0s		
						132	1.5s		
						133	2.0s		
						134	3.0s		

DMX TRAITS (12 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
36 ch A	48 ch B	36 ch B	120 ch	80 ch B	165 ch				
					164		Dimmer Delay Time (continued)	X	0
						135	4.0s		
						136	5.0s		
						137	6.0s		
						138	7.0s		
						139	8.0s		
						140	9.0s		
						141	10s		
						142 - 149	Idle		
							Dim to Warm		
						150 - 154	DTW On		
						155 - 159	DTW Off (default)		
						160 - 255	Idle		
							Control		
						000 - 009	Idle		
				80	165	010 - 014	Fan Mode Auto (default)	X	0
						015 - 019	Fan Mode Mute		
						020 - 024	Fan Mode Silent		
						025 - 029	Fan Mode High		
						030 - 049	Idle		
						050 - 054	Default Pixel Order		
						055 - 059	Flip Pixel Order		
						060 - 064	Default Cell Layout		
						065 - 069	Split Cell Layout		
						070 - 099	Idle		
							Refresh Rate (Hz)		
						100	900		
						101	910		
						102	920		
						103	930		
						104	940		
						105	950		
						106	960		
						107	970		
						108	980		
						109	990		
						110	1000		
						111	1010		
						112	1020		

DMX TRAITS (12 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
36 ch A	48 ch B	36 ch B	120 ch	80 ch B	165 ch				
				80	165		Refresh Rate (Hz) (continued)	X	0
						113	1030		
						114	1040		
						115	1050		
						116	1060		
						117	1070		
						118	1080		
						119	1090		
						120	1100		
						121	1110		
						122	1120		
						123	1130		
						124	1140		
						125	1150		
						126	1160		
						127	1170		
						128	1180		
						129	1190		
						130	1200 (default)		
						131	1210		
						132	1220		
						133	1230		
						134	1240		
						135	1250		
						136	1260		
						137	1270		
						138	1280		
						139	1290		
						140	1300		
						141	1310		
						142	1320		
						143	1330		
						144	1340		
						145	1350		
						146	1360		
						147	1370		
						148	1380		
						149	1390		
						150	1400		

DMX TRAITS (12 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
36 ch A	48 ch B	36 ch B	120 ch	80 ch B	165 ch				
				80	165		Refresh Rate (Hz) (continued)	X	0
						151	1410		
						152	1420		
						153	1430		
						154	1440		
						155	1450		
						156	1460		
						157	1470		
						158	1480		
						159	1490		
						160	1500		
						161	2500		
						162	4000		
						163	5000		
						164	6000		
						165	10000		
						166	15000		
						167	20000		
						168	25000		
						169 - 174	Idle		
							Color Tuning		
						175 - 176	Highest Fidelity		
						177 - 178	Balanced Output and Fidelity		
						179 - 180	Highest Output (default)		
							Output Balance		
						181 - 182	Bright (Highest Output) (default)		
						183 - 184	Uniform (Elation Full Spectrum Match)		
						185 - 200	Idle		
							Dimmer Curves		
						201 - 210	Linear		
						211 - 220	Square		
						221 - 230	Inverse Square		
						231 - 240	S-Curve (default)		
						241 - 255	Idle		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
				1	1		Dimmer		0
						000 - 255	Intensity, 0 - 100%		
				2	2		Dimmer Fine		0
						000 - 255	Fine intensity control		
				3	3		Shutter/Strobe		50
						000 - 031	Shutter closed		
						032 - 063	No function (shutter open)		
						064 - 095	Strobe effect, slow to fast		
						096 - 127	No function (shutter open)		
						128 - 159	Pulse effect in sequences		
						160 - 191	No function (shutter open)		
						192 - 223	Random strobe effect, slow to fast		
						224 - 225	No function (shutter open)		
						226 - 253	Random pixel, slow to fast		
						254 - 255	No function (shutter open)		
1	1		1	4	4		Red		
						000 - 255	0 - 100%		
			2		5		Red Fine		
						000 - 255	Fine adjustment		
2	2		3	5	6		Green		
						000 - 255	0 - 100%		
			4		7		Green Fine		
						000 - 255	Fine adjustment		
3	3		5	6	8		Blue		
						000 - 255	0 - 100%		
			6		9		Blue Fine		
						000 - 255	Fine adjustment		
			7	7	10		Mint		
						000 - 255	0 - 100%		
			8		11		Mint Fine		
						000 - 255	Fine adjustment		
	4		9	8	12		Amber		
						000 - 255	0 - 100%		
			10		13		Amber Fine		
						000 - 255	Fine adjustment		
4	5		11	9	14		Red 2		
						000 - 255	0 - 100%		
			12		15		Red 2 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
5	6		13	10	16		Green 2		
						000 - 255	0 - 100%		
			14		17		Green 2 Fine		
						000 - 255	Fine adjustment		
6	7		15	11	18		Blue 2		
						000 - 255	0 - 100%		
			16		19		Blue 2 Fine		
						000 - 255	Fine adjustment		
			17	12	20		Mint 2		
						000 - 255	0 - 100%		
			18		21		Mint 2 Fine		
						000 - 255	Fine adjustment		
	8		19	13	22		Amber 2		
						000 - 255	0 - 100%		
			20		23		Amber 2 Fine		
						000 - 255	Fine adjustment		
7	9		21	14	24		Red 3		
						000 - 255	0 - 100%		
			22		25		Red 3 Fine		
						000 - 255	Fine adjustment		
8	10		23	15	26		Green 3		
						000 - 255	0 - 100%		
			24		27		Green 3 Fine		
						000 - 255	Fine adjustment		
9	11		25	16	28		Blue 3		
						000 - 255	0 - 100%		
			26		29		Blue 3 Fine		
						000 - 255	Fine adjustment		
			27	17	30		Mint 3		
						000 - 255	0 - 100%		
			28		31		Mint 3 Fine		
						000 - 255	Fine adjustment		
	12		29	18	32		Amber 3		
						000 - 255	0 - 100%		
			30		33		Amber 3 Fine		
						000 - 255	Fine adjustment		
10	13		31	19	34		Red 4		
						000 - 255	0 - 100%		
			32		35		Red 4 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
11	14		33	20	36		Green 4		
						000 - 255	0 - 100%		
			34		37		Green 4 Fine		
						000 - 255	Fine adjustment		
12	15		35	21	38		Blue 4		
						000 - 255	0 - 100%		
			36		39		Blue 4 Fine		
						000 - 255	Fine adjustment		
			37	22	40		Mint 4		
						000 - 255	0 - 100%		
			38		41		Mint 4 Fine		
						000 - 255	Fine adjustment		
	16		39	23	42		Amber 4		
						000 - 255	0 - 100%		
			40		43		Amber 4 Fine		
						000 - 255	Fine adjustment		
13	17		41	24	44		Red 5		
						000 - 255	0 - 100%		
			42		45		Red 5 Fine		
						000 - 255	Fine adjustment		
14	18		43	25	46		Green 5		
						000 - 255	0 - 100%		
			44		47		Green 5 Fine		
						000 - 255	Fine adjustment		
15	19		45	26	48		Blue 5		
						000 - 255	0 - 100%		
			46		49		Blue 5 Fine		
						000 - 255	Fine adjustment		
			47	27	50		Mint 5		
						000 - 255	0 - 100%		
			48		51		Mint 5 Fine		
						000 - 255	Fine adjustment		
	20		49	28	52		Amber 5		
						000 - 255	0 - 100%		
			50		53		Amber 5 Fine		
						000 - 255	Fine adjustment		
16	21		51	29	54		Red 6		
						000 - 255	0 - 100%		
			52		55		Red 6 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
17	22		53	30	56		Green 6		
						000 - 255	0 - 100%		
			54		57		Green 6 Fine		
						000 - 255	Fine adjustment		
18	23		55	31	58		Blue 6		
						000 - 255	0 - 100%		
			56		59		Blue 6 Fine		
						000 - 255	Fine adjustment		
			57	32	60		Mint 6		
						000 - 255	0 - 100%		
			58		61		Mint 6 Fine		
						000 - 255	Fine adjustment		
	24		59	33	62		Amber 6		
						000 - 255	0 - 100%		
			60		63		Amber 6 Fine		
						000 - 255	Fine adjustment		
19	25		61	34	64		Red 7		
						000 - 255	0 - 100%		
			62		65		Red 7 Fine		
						000 - 255	Fine adjustment		
20	26		63	35	66		Green 7		
						000 - 255	0 - 100%		
			64		67		Green 7 Fine		
						000 - 255	Fine adjustment		
21	27		65	36	68		Blue 7		
						000 - 255	0 - 100%		
			66		69		Blue 7 Fine		
						000 - 255	Fine adjustment		
			67	37	70		Mint 7		
						000 - 255	0 - 100%		
			68		71		Mint 7 Fine		
						000 - 255	Fine adjustment		
	28		69	38	72		Amber 7		
						000 - 255	0 - 100%		
			70		73		Amber 7 Fine		
						000 - 255	Fine adjustment		
22	29		71	39	74		Red 8		
						000 - 255	0 - 100%		
			72		75		Red 8 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
23	30		73	40	76		Green 8		
						000 - 255	0 - 100%		
			74		77		Green 8 Fine		
						000 - 255	Fine adjustment		
24	31		75	41	78		Blue 8		
						000 - 255	0 - 100%		
			76		79		Blue 8 Fine		
						000 - 255	Fine adjustment		
			77	42	80		Mint 8		
						000 - 255	0 - 100%		
			78		81		Mint 8 Fine		
						000 - 255	Fine adjustment		
	32		79	43	82		Amber 8		
						000 - 255	0 - 100%		
			80		83		Amber 8 Fine		
						000 - 255	Fine adjustment		
25	33		81	44	84		Red 9		
						000 - 255	0 - 100%		
			82		85		Red 9 Fine		
						000 - 255	Fine adjustment		
26	34		83	45	86		Green 9		
						000 - 255	0 - 100%		
			84		87		Green 9 Fine		
						000 - 255	Fine adjustment		
27	35		85	46	88		Blue 9		
						000 - 255	0 - 100%		
			86		89		Blue 9 Fine		
						000 - 255	Fine adjustment		
			87	47	90		Mint 9		
						000 - 255	0 - 100%		
			88		91		Mint 9 Fine		
						000 - 255	Fine adjustment		
	36		89	48	92		Amber 9		
						000 - 255	0 - 100%		
			90		93		Amber 9 Fine		
						000 - 255	Fine adjustment		
28	37		91	49	94		Red 10		
						000 - 255	0 - 100%		
			92		95		Red 10 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
29	38		93	50	96		Green 10		
						000 - 255	0 - 100%		
			94		97		Green 10 Fine		
						000 - 255	Fine adjustment		
30	39		95	51	98		Blue 10		
						000 - 255	0 - 100%		
			96		99		Blue 10 Fine		
						000 - 255	Fine adjustment		
			97	52	100		Mint 10		
						000 - 255	0 - 100%		
			98		101		Mint 10 Fine		
						000 - 255	Fine adjustment		
	40		99	53	102		Amber 10		
						000 - 255	0 - 100%		
			100		103		Amber 10 Fine		
						000 - 255	Fine adjustment		
31	41		101	54	104		Red 11		
						000 - 255	0 - 100%		
			102		105		Red 11 Fine		
						000 - 255	Fine adjustment		
32	42		103	55	106		Green 11		
						000 - 255	0 - 100%		
			104		107		Green 11 Fine		
						000 - 255	Fine adjustment		
33	43		105	56	108		Blue 11		
						000 - 255	0 - 100%		
			106		109		Blue 11 Fine		
						000 - 255	Fine adjustment		
			107	57	110		Mint 11		
						000 - 255	0 - 100%		
			108		111		Mint 11 Fine		
						000 - 255	Fine adjustment		
	44		109	58	112		Amber 11		
						000 - 255	0 - 100%		
			110		113		Amber 11 Fine		
						000 - 255	Fine adjustment		
34	45		111	59	114		Red 12		
						000 - 255	0 - 100%		
			112		115		Red 12 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
35	46		113	60	116		Green 12		
						000 - 255	0 - 100%		
			114		117		Green 12 Fine		
						000 - 255	Fine adjustment		
36	47		115	61	118		Blue 12		
						000 - 255	0 - 100%		
			116		119		Blue 12 Fine		
						000 - 255	Fine adjustment		
			117	62	120		Mint 12		
						000 - 255	0 - 100%		
			118		121		Mint 12 Fine		
						000 - 255	Fine adjustment		
	48		119	63	122		Amber 12		
						000 - 255	0 - 100%		
			120		123		Amber 12 Fine		
						000 - 255	Fine adjustment		
37	49		121	64	124		Red 13		
						000 - 255	0 - 100%		
			122		125		Red 13 Fine		
						000 - 255	Fine adjustment		
38	50		123	65	126		Green 13		
						000 - 255	0 - 100%		
			124		127		Green 13 Fine		
						000 - 255	Fine adjustment		
39	51		125	66	128		Blue 13		
						000 - 255	0 - 100%		
			126		129		Blue 13 Fine		
						000 - 255	Fine adjustment		
			127	67	130		Mint 13		
						000 - 255	0 - 100%		
			128		131		Mint 13 Fine		
						000 - 255	Fine adjustment		
	52		129	68	132		Amber 13		
						000 - 255	0 - 100%		
			130		133		Amber 13 Fine		
						000 - 255	Fine adjustment		
40	53		131	69	134		Red 14		
						000 - 255	0 - 100%		
			132		135		Red 14 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
41	54		133	70	136		Green 14		
						000 - 255	0 - 100%		
			134		137		Green 14 Fine		
						000 - 255	Fine adjustment		
42	55		135	71	138		Blue 14		
						000 - 255	0 - 100%		
			136		139		Blue 14 Fine		
						000 - 255	Fine adjustment		
			137	72	140		Mint 14		
						000 - 255	0 - 100%		
			138		141		Mint 14 Fine		
						000 - 255	Fine adjustment		
	56		139	73	142		Amber 14		
						000 - 255	0 - 100%		
			140		143		Amber 14 Fine		
						000 - 255	Fine adjustment		
43	57		141	74	144		Red 15		
						000 - 255	0 - 100%		
			142		145		Red 15 Fine		
						000 - 255	Fine adjustment		
44	58		143	75	146		Green 15		
						000 - 255	0 - 100%		
			144		147		Green 15 Fine		
						000 - 255	Fine adjustment		
45	59		145	76	148		Blue 15		
						000 - 255	0 - 100%		
			146		149		Blue 15 Fine		
						000 - 255	Fine adjustment		
			147	77	150		Mint 15		
						000 - 255	0 - 100%		
			148		151		Mint 15 Fine		
						000 - 255	Fine adjustment		
	60		149	78	152		Amber 15		
						000 - 255	0 - 100%		
			150		153		Amber 15 Fine		
						000 - 255	Fine adjustment		
46	61		151	79	154		Red 16		
						000 - 255	0 - 100%		
			152		155		Red 16 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
47	62		153	80	156		Green 16		
						000 - 255	0 - 100%		
			154		157		Green 16 Fine		
						000 - 255	Fine adjustment		
48	63		155	81	158		Blue 16		
						000 - 255	0 - 100%		
			156		159		Blue 16 Fine		
						000 - 255	Fine adjustment		
			157	82	160		Mint 16		
						000 - 255	0 - 100%		
			158		161		Mint 16 Fine		
						000 - 255	Fine adjustment		
	64		159	83	162		Amber 16		
						000 - 255	0 - 100%		
			160		163		Amber 16 Fine		
						000 - 255	Fine adjustment		
49	65		161	84	164		Red 17		
						000 - 255	0 - 100%		
			162		165		Red 17 Fine		
						000 - 255	Fine adjustment		
50	66		163	85	166		Green 17		
						000 - 255	0 - 100%		
			164		167		Green 17 Fine		
						000 - 255	Fine adjustment		
51	67		165	86	168		Blue 17		
						000 - 255	0 - 100%		
			166		169		Blue 17 Fine		
						000 - 255	Fine adjustment		
			167	87	170		Mint 17		
						000 - 255	0 - 100%		
			168		171		Mint 17 Fine		
						000 - 255	Fine adjustment		
	68		169	88	172		Amber 17		
						000 - 255	0 - 100%		
			170		173		Amber 17 Fine		
						000 - 255	Fine adjustment		
52	69		171	89	174		Red 18		
						000 - 255	0 - 100%		
			172		175		Red 18 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
53	70		173	90	176		Green 18		
						000 - 255	0 - 100%		
			174		177		Green 18 Fine		
						000 - 255	Fine adjustment		
54	71		175	91	178		Blue 18		
						000 - 255	0 - 100%		
			176		179		Blue 18 Fine		
						000 - 255	Fine adjustment		
			177	92	180		Mint 18		
						000 - 255	0 - 100%		
			178		181		Mint 18 Fine		
						000 - 255	Fine adjustment		
	72		179	93	182		Amber 18		
						000 - 255	0 - 100%		
			180		183		Amber 18 Fine		
						000 - 255	Fine adjustment		
55	73		181	94	184		Red 19		
						000 - 255	0 - 100%		
			182		185		Red 19 Fine		
						000 - 255	Fine adjustment		
56	74		183	95	186		Green 19		
						000 - 255	0 - 100%		
			184		187		Green 19 Fine		
						000 - 255	Fine adjustment		
57	75		185	96	188		Blue 19		
						000 - 255	0 - 100%		
			186		189		Blue 19 Fine		
						000 - 255	Fine adjustment		
			187	97	190		Mint 19		
						000 - 255	0 - 100%		
			188		191		Mint 19 Fine		
						000 - 255	Fine adjustment		
	76		189	98	192		Amber 19		
						000 - 255	0 - 100%		
			190		193		Amber 19 Fine		
						000 - 255	Fine adjustment		
58	77		191	99	194		Red 20		
						000 - 255	0 - 100%		
			192		195		Red 20 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
59	78		193	100	196		Green 20		
						000 - 255	0 - 100%		
			194		197		Green 20 Fine		
						000 - 255	Fine adjustment		
60	79		195	101	198		Blue 20		
						000 - 255	0 - 100%		
			196		199		Blue 120 Fine		
						000 - 255	Fine adjustment		
			197	102	200		Mint 20		
						000 - 255	0 - 100%		
			198		201		Mint 20 Fine		
						000 - 255	Fine adjustment		
	80		199	103	202		Amber 20		
						000 - 255	0 - 100%		
			200		203		Amber 20 Fine		
						000 - 255	Fine adjustment		
61	81		201	104	204		Red 21		
						000 - 255	0 - 100%		
			202		205		Red 21 Fine		
						000 - 255	Fine adjustment		
62	82		203	105	206		Green 21		
						000 - 255	0 - 100%		
			204		207		Green 21 Fine		
						000 - 255	Fine adjustment		
63	83		205	106	208		Blue 21		
						000 - 255	0 - 100%		
			206		209		Blue 21 Fine		
						000 - 255	Fine adjustment		
			207	107	210		Mint 21		
						000 - 255	0 - 100%		
			208		211		Mint 21 Fine		
						000 - 255	Fine adjustment		
	84		209	108	212		Amber 21		
						000 - 255	0 - 100%		
			210		213		Amber 21 Fine		
						000 - 255	Fine adjustment		
64	85		211	109	214		Red 22		
						000 - 255	0 - 100%		
			212		215		Red 22 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
65	86		213	110	216		Green 22		
						000 - 255	0 - 100%		
			214		217		Green 22 Fine		
						000 - 255	Fine adjustment		
66	87		215	111	218		Blue 22		
						000 - 255	0 - 100%		
			216		219		Blue 22 Fine		
						000 - 255	Fine adjustment		
			217	112	220		Mint 22		
						000 - 255	0 - 100%		
			218		221		Mint 22 Fine		
						000 - 255	Fine adjustment		
	88		219	113	222		Amber 22		
						000 - 255	0 - 100%		
			220		223		Amber 22 Fine		
						000 - 255	Fine adjustment		
67	89		221	114	224		Red 23		
						000 - 255	0 - 100%		
			222		225		Red 23 Fine		
						000 - 255	Fine adjustment		
68	90		223	115	226		Green 23		
						000 - 255	0 - 100%		
			224		227		Green 23 Fine		
						000 - 255	Fine adjustment		
69	91		225	116	228		Blue 23		
						000 - 255	0 - 100%		
			226		229		Blue 23 Fine		
						000 - 255	Fine adjustment		
			227	117	230		Mint 23		
						000 - 255	0 - 100%		
			228		231		Mint 23 Fine		
						000 - 255	Fine adjustment		
	92		229	118	232		Amber 23		
						000 - 255	0 - 100%		
			230		233		Amber 23 Fine		
						000 - 255	Fine adjustment		
70	93		231	119	234		Red 24		
						000 - 255	0 - 100%		
			232		235		Red 24 Fine		
						000 - 255	Fine adjustment		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
71	94		233	120	236		Green 24		
						000 - 255	0 - 100%		
			234		237		Green 24 Fine		
						000 - 255	Fine adjustment		
72	95		235	121	238		Blue 24		
						000 - 255	0 - 100%		
			236		239		Blue 24 Fine		
						000 - 255	Fine adjustment		
			237	122	240		Mint 24		
						000 - 255	0 - 100%		
			238		241		Mint 24 Fine		
						000 - 255	Fine adjustment		
	96		239	123	242		Amber 24		
						000 - 255	0 - 100%		
			240		243		Amber 24 Fine		
						000 - 255	Fine adjustment		
		1					Hue		0
						000 - 255	0 to 360°		
		2					Saturation		0
						000 - 255	0 to 100%		
		3					Dimmer 1		0
						000 - 255	Intensity 0 to 100%		
		4					Hue 2		0
						000 - 255	0 to 360°		
		5					Saturation 2		0
						000 - 255	0 to 100%		
		6					Dimmer 2		0
						000 - 255	Intensity 0 to 100%		
		7					Hue 3		0
						000 - 255	0 to 360°		
		8					Saturation 3		0
						000 - 255	0 to 100%		
		9					Dimmer 3		0
						000 - 255	Intensity 0 to 100%		
		10					Hue 4		0
						000 - 255	0 to 360°		
		11					Saturation 4		0
						000 - 255	0 to 100%		
		12					Dimmer 4		0
						000 - 255	Intensity 0 to 100%		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
		13					Hue 5		0
						000 - 255	0 to 360°		
		14					Saturation 5		0
						000 - 255	0 to 100%		
		15					Dimmer 5		0
						000 - 255	Intensity 0 to 100%		
		16					Hue 6		0
						000 - 255	0 to 360°		
		17					Saturation 6		0
						000 - 255	0 to 100%		
		18					Dimmer 6		0
						000 - 255	Intensity 0 to 100%		
		19					Hue 7		0
						000 - 255	0 to 360°		
		20					Saturation 7		0
						000 - 255	0 to 100%		
		21					Dimmer 7		0
						000 - 255	Intensity 0 to 100%		
		22					Hue 8		0
						000 - 255	0 to 360°		
		23					Saturation 8		0
						000 - 255	0 to 100%		
		24					Dimmer 8		0
						000 - 255	Intensity 0 to 100%		
		25					Hue 9		0
						000 - 255	0 to 360°		
		26					Saturation 9		0
						000 - 255	0 to 100%		
		27					Dimmer 9		0
						000 - 255	Intensity 0 to 100%		
		28					Hue 10		0
						000 - 255	0 to 360°		
		29					Saturation 10		0
						000 - 255	0 to 100%		
		30					Dimmer 10		0
						000 - 255	Intensity 0 to 100%		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
		31					Hue 11		0
						000 - 255	0 to 360°		
		32					Saturation 11		0
						000 - 255	0 to 100%		
		33					Dimmer 11		0
						000 - 255	Intensity 0 to 100%		
		34					Hue 12		0
						000 - 255	0 to 360°		
		35					Saturation 12		0
						000 - 255	0 to 100%		
		36					Dimmer 12		0
						000 - 255	Intensity 0 to 100%		
		37					Hue 13		0
						000 - 255	0 to 360°		
		38					Saturation 13		0
						000 - 255	0 to 100%		
		39					Dimmer 13		0
						000 - 255	Intensity 0 to 100%		
		40					Hue 14		0
						000 - 255	0 to 360°		
		41					Saturation 14		0
						000 - 255	0 to 100%		
		42					Dimmer 14		0
						000 - 255	Intensity 0 to 100%		
		43					Hue 15		0
						000 - 255	0 to 360°		
		44					Saturation 15		0
						000 - 255	0 to 100%		
		45					Dimmer 15		0
						000 - 255	Intensity 0 to 100%		
		46					Hue 16		0
						000 - 255	0 to 360°		
		47					Saturation 16		0
						000 - 255	0 to 100%		
		48					Dimmer 16		0
						000 - 255	Intensity 0 to 100%		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
		49					Hue 17		0
						000 - 255	0 to 360°		
		50					Saturation 17		0
						000 - 255	0 to 100%		
		51					Dimmer 17		0
						000 - 255	Intensity 0 to 100%		
		52					Hue 18		0
						000 - 255	0 to 360°		
		53					Saturation 18		0
						000 - 255	0 to 100%		
		54					Dimmer 18		0
						000 - 255	Intensity 0 to 100%		
		55					Hue 19		0
						000 - 255	0 to 360°		
		56					Saturation 19		0
						000 - 255	0 to 100%		
		57					Dimmer 19		0
						000 - 255	Intensity 0 to 100%		
		58					Hue 20		0
						000 - 255	0 to 360°		
		59					Saturation 20		0
						000 - 255	0 to 100%		
		60					Dimmer 20		0
						000 - 255	Intensity 0 to 100%		
		61					Hue 21		0
						000 - 255	0 to 360°		
		62					Saturation 21		0
						000 - 255	0 to 100%		
		63					Dimmer 21		0
						000 - 255	Intensity 0 to 100%		
		64					Hue 22		0
						000 - 255	0 to 360°		
		65					Saturation 22		0
						000 - 255	0 to 100%		
		66					Dimmer 22		0
						000 - 255	Intensity 0 to 100%		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
		67					Hue 23		0
						000 - 255	0 to 360°		
		68					Saturation 23		0
						000 - 255	0 to 100%		
		69					Dimmer 23		0
						000 - 255	Intensity 0 to 100%		
		70					Hue 24		0
						000 - 255	0 to 360°		
		71					Saturation 24		0
						000 - 255	0 to 100%		
		72					Dimmer 24		0
						000 - 255	Intensity 0 to 100%		
				124			CCT Presets	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				125			CCT Presets 2	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				126			CCT Presets 3	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				127			CCT Presets 4	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				128			CCT Presets 5	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				129			CCT Presets 6	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				130			CCT Presets 7	X	0
						000 - 023	Open		
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
				131			CCT Presets 8	X	0
					000 - 023	Open			
					024 - 085	2400K to 8500K (see Color Temperature Table)			
					086 - 255	8500K			
				132			CCT Presets 9	X	0
					000 - 023	Open			
					024 - 085	2400K to 8500K (see Color Temperature Table)			
					086 - 255	8500K			
				133			CCT Presets 10	X	0
					000 - 023	Open			
					024 - 085	2400K to 8500K (see Color Temperature Table)			
					086 - 255	8500K			
				134			CCT Presets 11	X	0
					000 - 023	Open			
					024 - 085	2400K to 8500K (see Color Temperature Table)			
					086 - 255	8500K			
				135			CCT Presets 12	X	0
					000 - 023	Open			
					024 - 085	2400K to 8500K (see Color Temperature Table)			
					086 - 255	8500K			
				136			CCT Presets 13	X	0
					000 - 023	Open			
					024 - 085	2400K to 8500K (see Color Temperature Table)			
					086 - 255	8500K			
				137			CCT Presets 14	X	0
					000 - 023	Open			
					024 - 085	2400K to 8500K (see Color Temperature Table)			
					086 - 255	8500K			
				138			CCT Presets 15	X	0
					000 - 023	Open			
					024 - 085	2400K to 8500K (see Color Temperature Table)			
					086 - 255	8500K			
				139			CCT Presets 16	X	0
					000 - 023	Open			
					024 - 085	2400K to 8500K (see Color Temperature Table)			
					086 - 255	8500K			
				140			CCT Presets 17	X	0
					000 - 023	Open			
					024 - 085	2400K to 8500K (see Color Temperature Table)			
					086 - 255	8500K			

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
				141			CCT Presets 18		
						000 - 023	Open	X	0
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				142			CCT Presets 19		
						000 - 023	Open	X	0
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				143			CCT Presets 20		
						000 - 023	Open	X	0
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				144			CCT Presets 21		
						000 - 023	Open	X	0
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				145			CCT Presets 22		
						000 - 023	Open	X	0
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				146			CCT Presets 23		
						000 - 023	Open	X	0
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
				146			CCT Presets 24		
						000 - 023	Open	X	0
						024 - 085	2400K to 8500K (see Color Temperature Table)		
						086 - 255	8500K		
					244		Variable CCT		
						000 - 023	Open		0
						024 - 255	2400K to 8500K		
					245		Variable CCT Fine		
						000 - 255	Fine adjustment		0
					246		Variable CCT 2		
						000 - 023	Open		0
						024 - 255	2400K to 8500K		
					247		Variable CCT Fine 2		
						000 - 255	Fine adjustment		0

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
					248		Variable CCT 3		
						000 - 023	Open		0
						024 - 255	2400K to 8500K		
					249		Variable CCT Fine 3		0
						000 - 255	Fine adjustment		
					250		Variable CCT 4		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					251		Variable CCT Fine 4		0
						000 - 255	Fine adjustment		
					252		Variable CCT 5		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					253		Variable CCT Fine 5		0
						000 - 255	Fine adjustment		
					254		Variable CCT 6		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					255		Variable CCT Fine 6		0
						000 - 255	Fine adjustment		
					256		Variable CCT 7		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					257		Variable CCT Fine 7		0
						000 - 255	Fine adjustment		
					258		Variable CCT 8		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					259		Variable CCT Fine 8		0
						000 - 255	Fine adjustment		
					260		Variable CCT 9		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					261		Variable CCT Fine 9		0
						000 - 255	Fine adjustment		
					262		Variable CCT 10		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					263		Variable CCT Fine 10		0
						000 - 255	Fine adjustment		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
					264		Variable CCT 11		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					265		Variable CCT Fine 11		0
						000 - 255	Fine adjustment		
					266		Variable CCT 12		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					267		Variable CCT Fine 12		0
						000 - 255	Fine adjustment		
					268		Variable CCT 13		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					269		Variable CCT Fine 13		0
						000 - 255	Fine adjustment		
					270		Variable CCT 14		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					271		Variable CCT Fine 14		0
						000 - 255	Fine adjustment		
					272		Variable CCT 15		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					273		Variable CCT Fine 15		0
						000 - 255	Fine adjustment		
					274		Variable CCT 16		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					275		Variable CCT Fine 16		0
						000 - 255	Fine adjustment		
					276		Variable CCT 17		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					277		Variable CCT Fine 17		0
						000 - 255	Fine adjustment		
					278		Variable CCT 18		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					279		Variable CCT Fine 18		0
						000 - 255	Fine adjustment		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
					280		Variable CCT 19		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					281		Variable CCT Fine 19		0
						000 - 255	Fine adjustment		
					282		Variable CCT 20		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					283		Variable CCT Fine 20		0
						000 - 255	Fine adjustment		
					284		Variable CCT 21		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					285		Variable CCT Fine 21		0
						000 - 255	Fine adjustment		
					286		Variable CCT 22		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					287		Variable CCT Fine 22		0
						000 - 255	Fine adjustment		
					288		Variable CCT 23		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					289		Variable CCT Fine 23		0
						000 - 255	Fine adjustment		
					291		Variable CCT 24		0
						000 - 023	Open		
						024 - 255	2400K to 8500K		
					291		Variable CCT Fine 24		0
						000 - 255	Fine adjustment		
					292		Green Shift		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					293		Green Shift 2		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
					294		Green Shift 3		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					295		Green Shift 4		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					296		Green Shift 5		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					297		Green Shift 6		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					298		Green Shift 7		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					299		Green Shift 8		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					300		Green Shift 9		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					301		Green Shift 10		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
					302		Green Shift 11		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					303		Green Shift 12		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					304		Green Shift 13		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					305		Green Shift 14		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					306		Green Shift 15		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					307		Green Shift 16		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					308		Green Shift 17		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					309		Green Shift 18		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
					310		Green Shift 19		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					311		Green Shift 20		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					312		Green Shift 21		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					313		Green Shift 22		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					314		Green Shift 23		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		
					315		Green Shift 24		0
						000	Idle		
						001 - 127	Full Minus Green to Neutral		
						128	Neutral White		
						129 - 255	Neutral to Full Plus Green		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
				148	316		Color		0
						000	Open		
						001 - 179	Virtual Swatch Book (See Virtual Colors Table)		
							Color Scroll		
						180 - 201	Clockwise, fast to slow		
						202 - 207	Stop		
						228 - 229	Counter-clockwise, slow to fast		
						230 - 234	Open		
							Random Slots		
						235 - 239	Fast		
						240 - 244	Medium		
						245 - 249	Slow		
						250 - 255	Open		
				149	317		Effect Selection	X	0
						000 - 255	FX Selection, 1 - 255 (see table)		
				150	318		Effect Speed		0
						000 - 126	Fast to slow		
						127 - 128	Stop		
						129 - 255	Slow to fast		
				151	319		Effect Offset	X	0
						000	Idle		
						001 - 035	Fixture Offset, 10° to 350°		
						036	Synchronized		
						037 - 049	Random Fixture Offset		
						050 - 059	Random Pixel Order		
						060 - 069	Random Steps		
						070 - 079	Idle		
							Effect Fade		
						080 - 089	Sinewave - Cross		
						090 - 099	Sinewave - Full		
						100 - 109	Sawtooth - Cross		
						110 - 119	Sawtooth - Full		
						120 - 129	Ramp Up		
						130 - 139	Ramp Down		
						140 - 149	Steps		
						150 - 255	Idle		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
					320		Dim Modes	X	0
						000 - 020	Standard		
						021 - 040	Stage		
						041 - 060	TV		
						061 - 080	Architectural		
						081 - 100	Theatre		
						101 - 120	Stage 2		
							Dimmer Delay Time		
						121	0s		
						122	0.1s		
						123	0.2s		
						124	0.3s		
						125	0.4s		
						126	0.5s		
						127	0.6s		
						128	0.7s		
						129	0.8s		
						130	0.9s		
						131	1.0s		
						132	1.5s		
						133	2.0s		
						134	3.0s		
						135	4.0s		
						136	5.0s		
						137	6.0s		
						138	7.0s		
						139	8.0s		
						140	9.0s		
						141	10s		
						142 - 149	Idle		
							Dim to Warm		
						150 - 154	DTW On		
						155 - 159	DTW Off (default)		
						160 - 255	Idle		

DMX TRAITS (24 CELL)

MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
							Control		
						000 - 009	Idle		
						010 - 014	Fan Mode Auto (default)		
						015 - 019	Fan Mode Mute		
						020 - 024	Fan Mode Silent		
						025 - 029	Fan Mode High		
						030 - 049	Idle		
						050 - 054	Default Pixel Order		
						055 - 059	Flip Pixel Order		
						060 - 064	Default Cell Layout		
						065 - 069	Split Cell Layout		
						070 - 099	Idle		
							Refresh Rate (Hz)		
						100	900		
						101	910		
						102	920		
						103	930		
						104	940		
						105	950		
				152	321	106	960	X	0
						107	970		
						108	980		
						109	990		
						110	1000		
						111	1010		
						112	1020		
						113	1030		
						114	1040		
						115	1050		
						116	1060		
						117	1070		
						118	1080		
						119	1090		
						120	1100		
						121	1110		
						122	1120		
						123	1130		
						124	1140		
						125	1150		

DMX TRAITS (24 CELL)

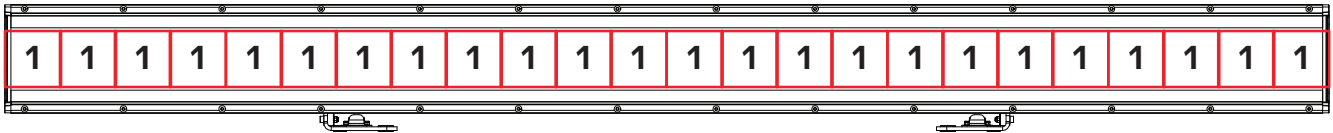
MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
				152	321		Refresh Rate (Hz)	X	0
						126	1160		
						127	1170		
						128	1180		
						129	1190		
						130	1200 (default)		
						131	1210		
						132	1220		
						133	1230		
						134	1240		
						135	1250		
						136	1260		
						137	1270		
						138	1280		
						139	1290		
						140	1300		
						141	1310		
						142	1320		
						143	1330		
						144	1340		
						145	1350		
						146	1360		
						147	1370		
						148	1380		
						149	1390		
						150	1400		
						151	1410		
						152	1420		
						153	1430		
						154	1440		
						155	1450		
						156	1460		
						157	1470		
						158	1480		
						159	1490		
						160	1500		
						161	2500		
						162	4000		
						163	5000		

DMX TRAITS (24 CELL)

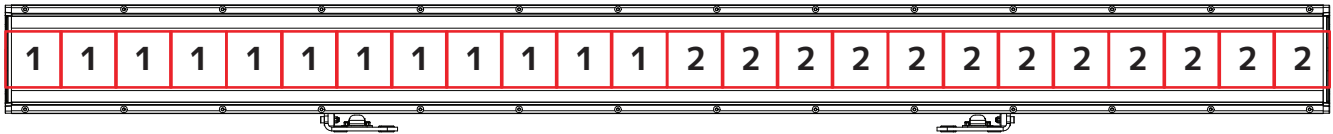
MODE/CHANNEL						DMX VALUES	FUNCTION	SNAP	DEF VAL
72 ch A	96 ch	72 ch B	240 ch	152 ch	321 ch				
							Refresh Rate (Hz) (continued)		
						164	6000		
						165	10000		
						166	15000		
						167	20000		
						168	25000		
						169 - 174	Idle		
							Color Tuning		
						175 - 176	Highest Fidelity		
						177 - 178	Balanced Output and Fidelity		
				152	321	179 - 180	Highest Output (default)	X	0
							Output Balance		
						181 - 182	Bright (Highest Output) (default)		
						183 - 184	Uniform (Elation Full Spectrum Match)		
						185 - 200	Idle		
							Dimmer Curves		
						201 - 210	Linear		
						211 - 220	Square		
						221 - 230	Inverse Square		
						231 - 240	S-Curve (default)		
						241 - 255	Idle		

CELL ZONES

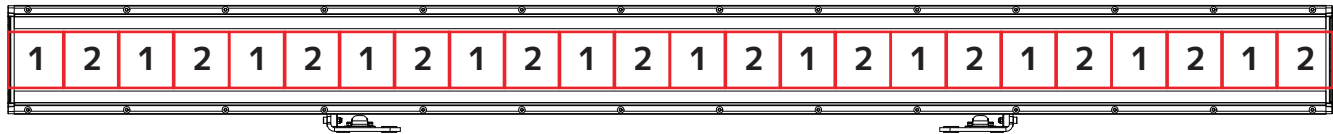
DEFAULT 1 CELL



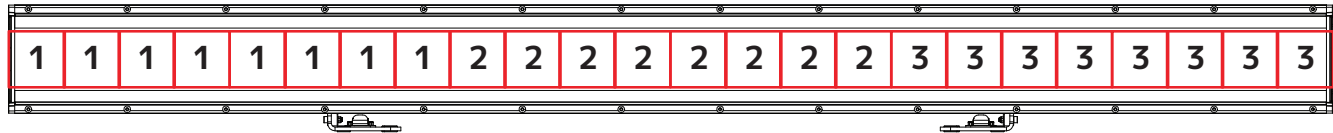
DEFAULT 2 CELL



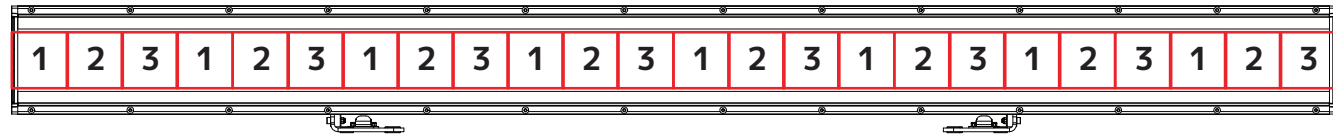
SPLIT 2 CELL



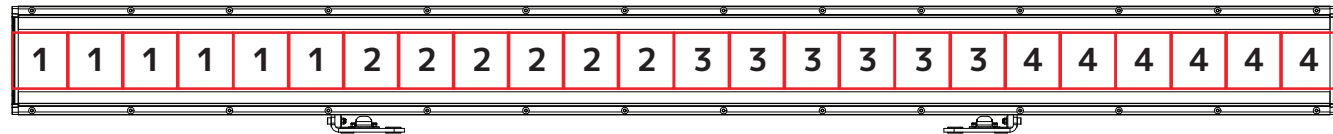
DEFAULT 3 CELL



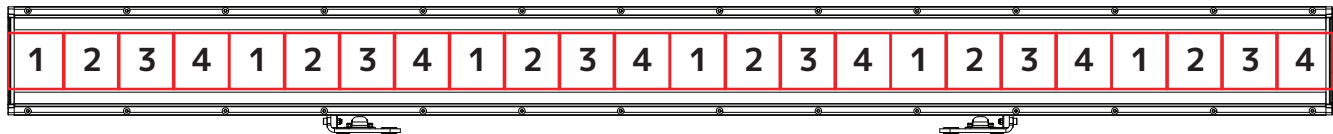
SPLIT 3 CELL



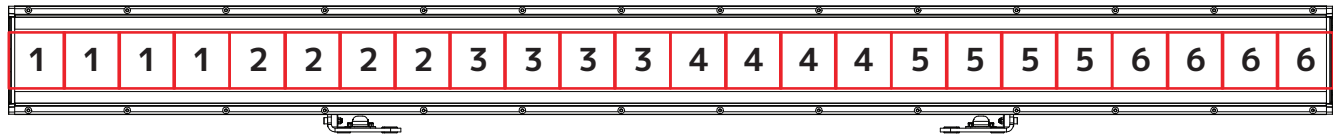
DEFAULT 4 CELL



SPLIT 4 CELL

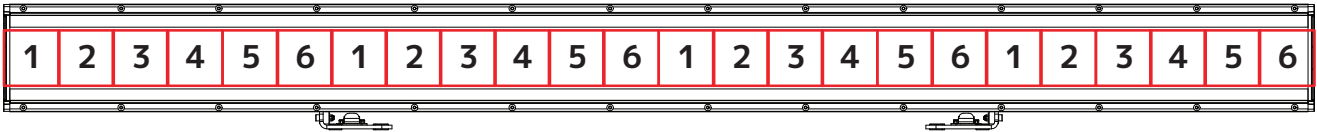


DEFAULT 6 CELL

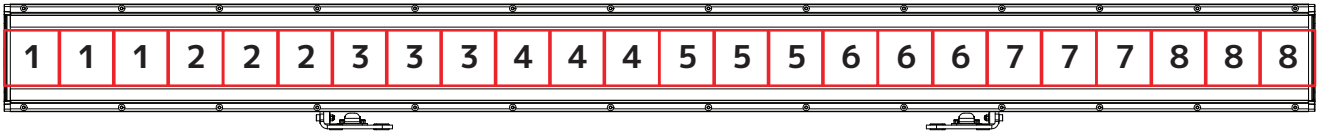


CELL ZONES

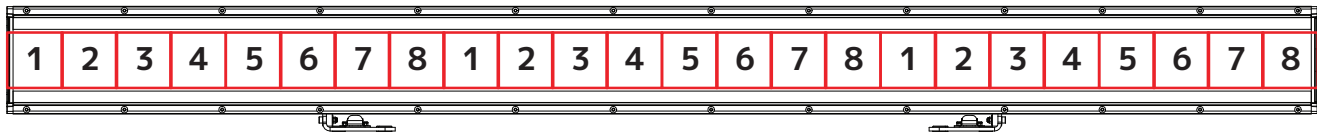
SPLIT 6 CELL



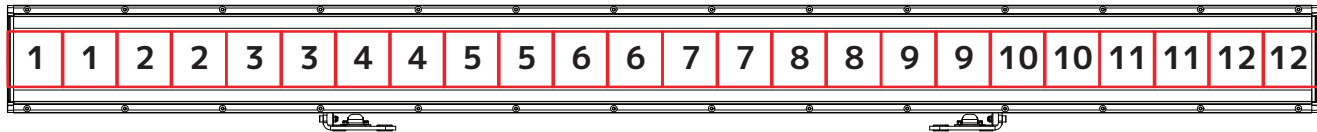
DEFAULT 8 CELL



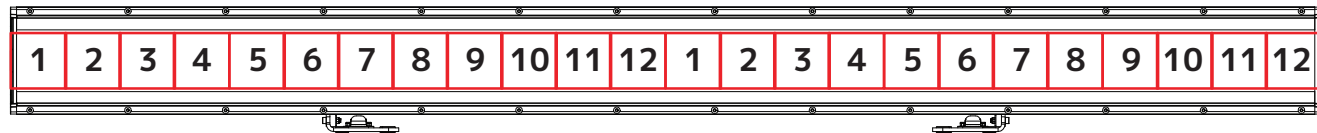
SPLIT 8 CELL



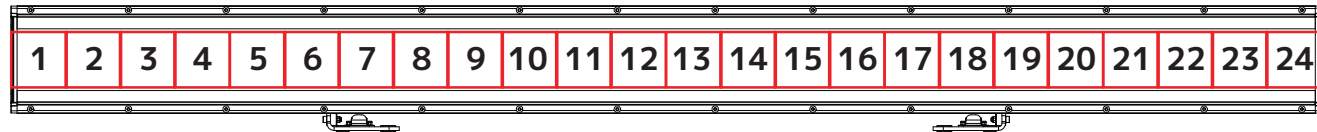
DEFAULT 12 CELL



SPLIT 12 CELL



DEFAULT 24 CELL



COLOR TEMPERATURE TABLE

Colors shown are an approximate representation. <https://www.luxalight.eu/en/cie-convector>

DMX VALUE	COLOR TEMPERATURE (K)	DMX VALUE	COLOR TEMPERATURE (K)
24	2400	55	5500
25	2500	56	5600
26	2600	57	5700
27	2700	58	5800
28	2800	59	5900
29	2900	60	6000
30	3000	61	6100
31	3100	62	6200
32	3200	63	6300
33	3300	64	6400
34	3400	65	6500
35	3500	66	6600
36	3600	67	6700
37	3700	68	6800
38	3800	69	6900
39	3900	70	7000
40	4000	71	7100
41	4100	72	7200
42	4200	73	7300
43	4300	74	7400
44	4400	75	7500
45	4500	76	7600
46	4600	77	7700
47	4700	78	7800
48	4800	79	7900
49	4900	80	8000
50	5000	81	8100
51	5100	82	8200
52	5200	83	8300
53	5300	84	8400
54	5400	85	8500

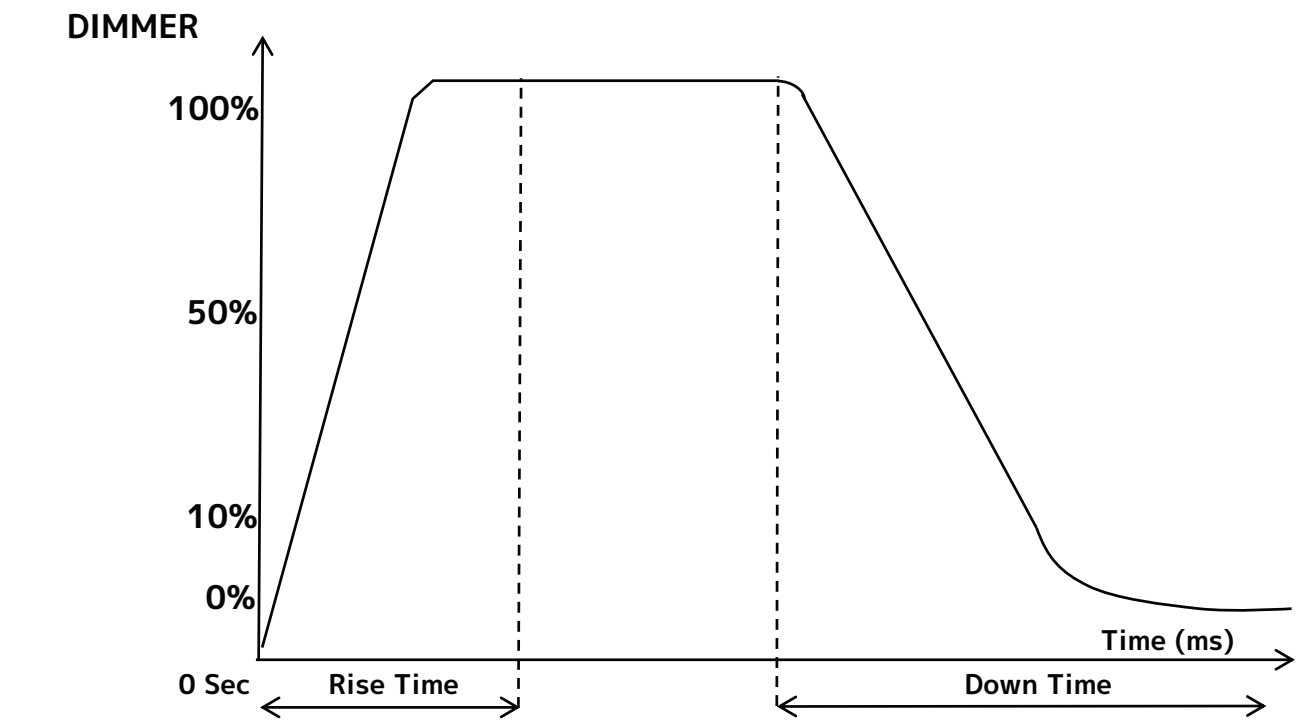
VIRTUAL COLORS

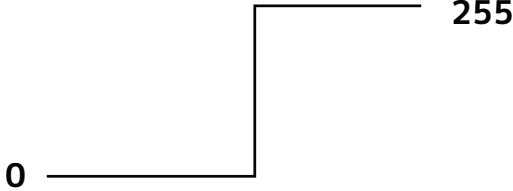
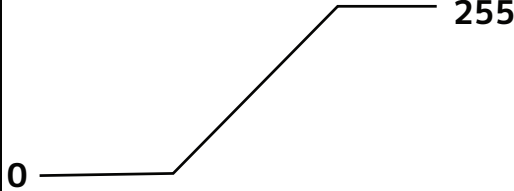
VALUE	FILTER #	COLOR	VALUE	FILTER #	COLOR
1	7	Pale Yellow	32	49	Medium Purple
2	103	Straw	33	58	Lavender
3	151	Gold Tint	34	199	Palace Blue
4	100	Spring Yellow	35	119	Dark Blue
5	10	Medium Yellow	36	132	Medium Blue
6	101	Yellow	37	120	Deep Blue
7	104	Deep Amber	38	165	Daylight Blue
8	15	Deep Straw	39	161	Slate Blue
9	179	Loving Amber	40	118	Light Blue
10	21	Gold Amber	41	68	Sky Blue
11	105	Orange	42	143	Pale Navy Blue
12	158	Deep Orange	43	131	Marine Blue
13	22	Dark Amber	44	115	Peacock Blue
14	778	Millennium Gold	45	172	Lagoon Blue
15	135	Deep Golden Amber	46	116	Medium Blue Green
16	24	Scarlet	47	90	Dark Yellow Green
17	106	Primary Red	48	139	Primary Green
18	26	Bright Red	49	122	Fern Green
19	27	Medium Red	50	89	Moss Green
20	19	Fire	51	124	Dark Green
21	157	Pink	52	88	Lime Green
22	36	Medium Pink	53	138	Pale Green
23	111	Dark Pink	54	203	Quarter CT Blue
24	128	Bright Pink	55	202	Half CT Blue
25	148	Bright Rose	56	201	Full CT Blue
26	332	Special Rose Pink	57	200	Double CT Blue
27	793	Vanity Fair	58	206	Quarter CT Orange
28	113	Magenta	59	205	Half CT Orange
29	46	Dark Magenta	60	204	Full CT Orange
30	48	Rose Purple	61-179	-	No Function
31	126	Mauve			

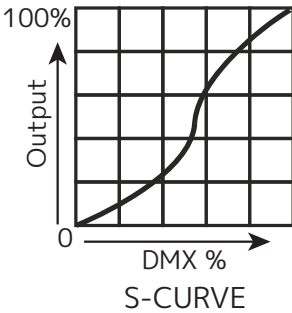
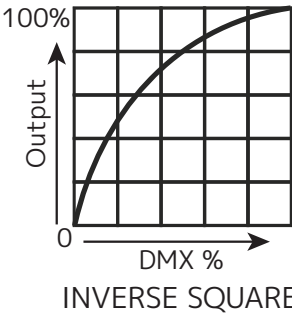
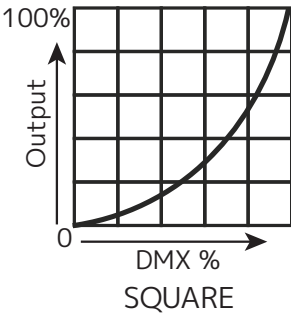
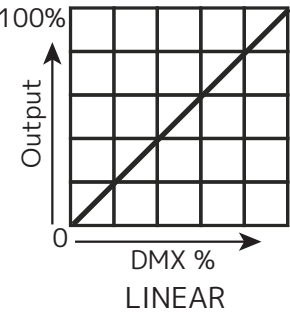
EFFECT SELECTION

DMX VALUES	PROGRAM
001	Program 1
002	Program 2
003	Program 3
004	Program 4
005	Program 5
006	Program 6
007	Program 7
008	Program 8
009	Program 9
010	Program 10
011	Program 11
012	Program 12
013	Program 13
014 - 255	No Function

DIMMER CURVES



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



MAINTENANCE GUIDELINES



DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

CLEANING

Frequent cleaning is recommended to ensure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Periodically clean the external lens surface with a soft cloth to avoid dirt/debris accumulation. **NEVER** use alcohol, solvents, or ammonia-based cleaners.

MAINTENANCE

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

Please refer to the following points during routine inspections:

- A detailed electric 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 to enter into the fixture. Damaged rigging points or unsecured rigging could cause the 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.

ERROR CODES

CODE	DESCRIPTION
Base Temp	Base temperature error
LED Temp 1	LED temperature 1 error
LED Temp 2	LED temperature 2 error
LED Temp 3	LED temperature 3 error
LED Temp 4	LED temperature 4 error
LED Temp 5	LED temperature 5 error
LED Temp 6	LED temperature 6 error
Base Fan 1	Base fan 1 error

CODE	DESCRIPTION
Base Fan 2	Base fan 2 error
LED Fan 1	LED fan 1 error
LED Fan 2	LED fan 2 error
LED Fan 3	LED fan 3 error
LED Fan 4	LED fan 4 error
LED Fan 5	LED fan 5 error
LED Fan 6	LED fan 6 error
Net error	Network error

TORQUE SETTINGS FOR SCREWS

IN ORDER TO MAINTAIN THE IP66 RATING ON THE LIGHTING FIXTURES, ALL SCREWS MUST BE TIGHTENED TO THE FOLLOWING TORQUE SPECIFICATION USING A TORQUE DRIVER.

Refer to the table and diagram below for torque specifications.

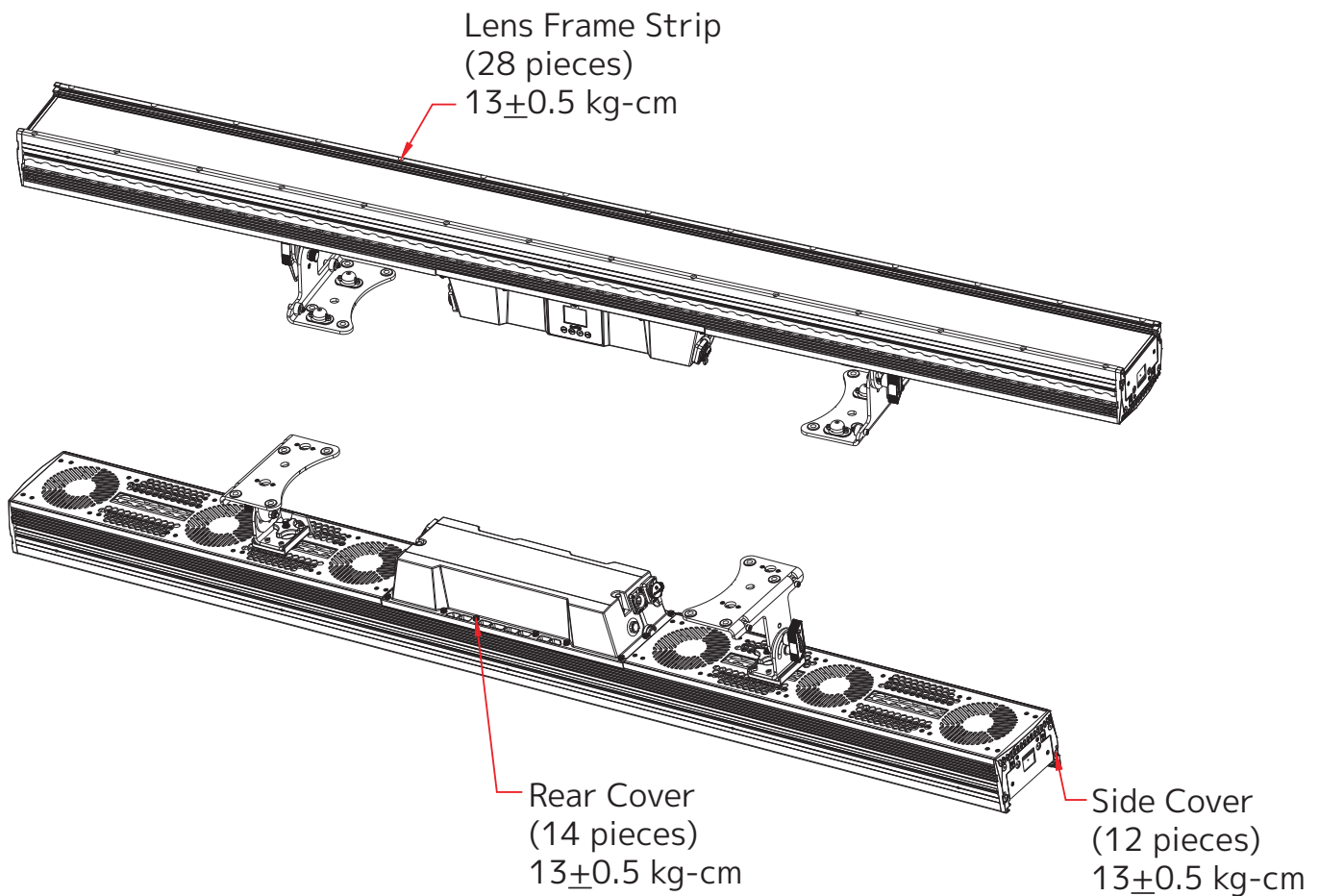
TORQUE DRIVERS (Recommended): UTICA TS-30 (shown)

ALTERNATE DRIVERS:

- Proto J6107A
- Wiha 28887

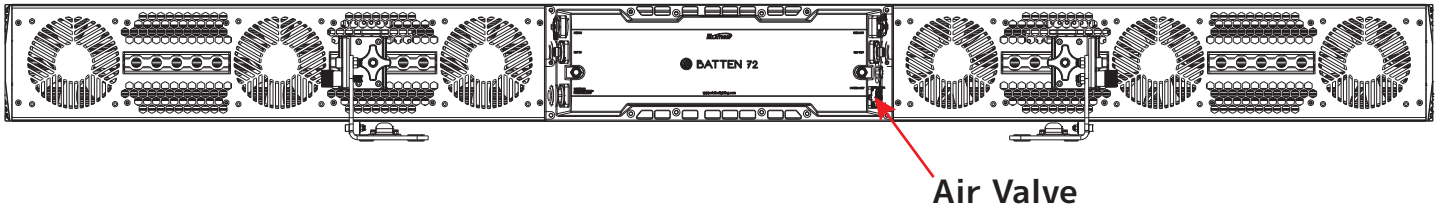


CAUTION! DO NOT OVER TORQUE SCREWS, AS THIS CAN CAUSE LEAKAGE ISSUES!



IP TEST PARAMETERS

Following any repair or maintenance procedure that requires disassembly of the fixture, use Elation's IP Tester to confirm the IP integrity of the fixture. This fixture features an air valve on the underside of the control panel housing, as shown in the diagram below. Please contact Elation Service for information regarding the Elation IP Tester, or visit the product information page online at: <https://www.elationlighting.com/ip-tester>



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

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



IP PRESSURE TESTING PARAMETERS					
Low Pressure Limit	High Pressure Limit	Inflation Time	Stabilization Time	Detection Time	Acceptable Leakage
20 kPa	23 kPa	30 s	15 s	15 s	100 Pa

SOFTWARE UPDATES



ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION!
NOTE ALL MENU SETTINGS BEFORE UPDATING SOFTWARE!
FIXTURE SOFTWARE CAN NOT BE DOWNGRADED!
DOWNLOAD FIXTURE SOFTWARE TO PC ONLY! (NO MAC SUPPORT)
PLEASE CONTACT ELATION SERVICE FOR FURTHER INFORMATION.

Updates can be performed over the **Aria** connection, or with an **Elation C-Loader** device. Please contact Elation service for details or to order the C-Loader device.

ELATION SERVICE USA - Monday - Friday 8:00am to 4:30pm PST
323-582-3322 | support@elationlighting.com

ELATION SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET
+31 45 546 85 63 | support@elationlighting.eu

ORDERING INFORMATION

SKU (US)	SKU (EU)	DESCRIPTION
KL B372	Pending	Elation KL Batten 72
OB-107-90B	Pending	90-degree Slotted Omega Bracket
LTR001	1744000021	L-Track to M10 Adapter, 70mm
LTR008	Pending	L-Track to M10 Adapter, 44.5mm
LTR100	Pending	L-Track C-Clamp & Adapter Assembly, 70mm
LTR112	Pending	L-Track C-Clamp & Adapter Assembly, 44.5mm

SPECIFICATIONS

SOURCE

(24) x 100W RGBMA LEDs

30,000 Hour Average LED Life*

*May vary depending on several factors including but not limited to: Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control and Dimming.

PHOTOMETRIC DATA

Total Lumen Output:

61,275 (Integrating Sphere)

CRI- 94.9

TLCI- 95

Beam Angle: 82° x 22°

Field Angle: 97° x 53°

EFFECTS

Full Pixel Control

Electronic Dimmer and Strobe

Variable 16-bit Dimming Modes and Curves

COLOR

RGBMA Color Array

CMY Emulation

16bit Fully Variable CCT 2400K - 8500K

Green/Magenta Shift

Dim-to-Warm Fade

Virtual Gel Swatch Book

CONTROL / CONNECTIONS

52 DMX Channel Modes (1ch, 3ch-A, 4ch-A, 4ch-B, 3ch-B, 6ch-A, 10ch, 14ch, 22ch, 16ch-A, 6ch-B, 8ch, 6ch-C, 20ch-A, 20ch-B, 35ch, 9ch-A, 12ch-A, 9ch-B, 30ch, 26ch, 48ch-A, 12ch-B, 16ch-B, 12ch-C, 40ch, 32ch-A, 61ch, 18ch-A, 24ch-A, 18ch-B, 60ch, 44ch, 87ch, 24ch-B, 32ch-B, 24ch-C, 80ch-A, 56ch, 113ch, 36ch-A, 48ch-B, 36ch-B, 120ch, 80ch-B, 165ch, 72ch-A, 96ch, 72ch-B, 240ch, 152ch, 321ch)

4 Button Control Panel, Color LED Display

RDM (Remote Device Management)

Aria x2 Wireless Device Management

NFC Configuration

IP65 5pin XLR DMX In/Out

IP65 RJ45 Ethernet In/Out (Art-Net & sACN)

IP65 Locking Power Cable In/Out

SIZE / WEIGHT

Length: 71.1" (1806mm)

Width: 7.2" (184mm)

Vertical Height: 9.4" (239mm)

Vertical Height (Low Clearance): 8.6" (219mm)

Weight: 60.4 lbs / 27.4kg

ELECTRICAL / THERMAL

AC 100-240V - 50/60Hz

1200W Max Power Consumption

-40°F to 131°F (-40°C to 55°C)

BTU/hr (+/- 10%) 4,092

INCLUDED ITEMS

Glare Shield

Border Light Filter

2x Safety Cable

IP65 Locking Power Cable

OPTIONAL ITEMS

Omega Bracket (Qty.2)

L-Track to M10 Adapter, 70mm (LTR001)

L-Track to M10 Adapter, 44.5mm (LTR008)

L Track C-Clamp & Adapter Assembly, 70mm (LTR100)

L Track C-Clamp & Adapter Assembly, 44.5mm (LTR112)

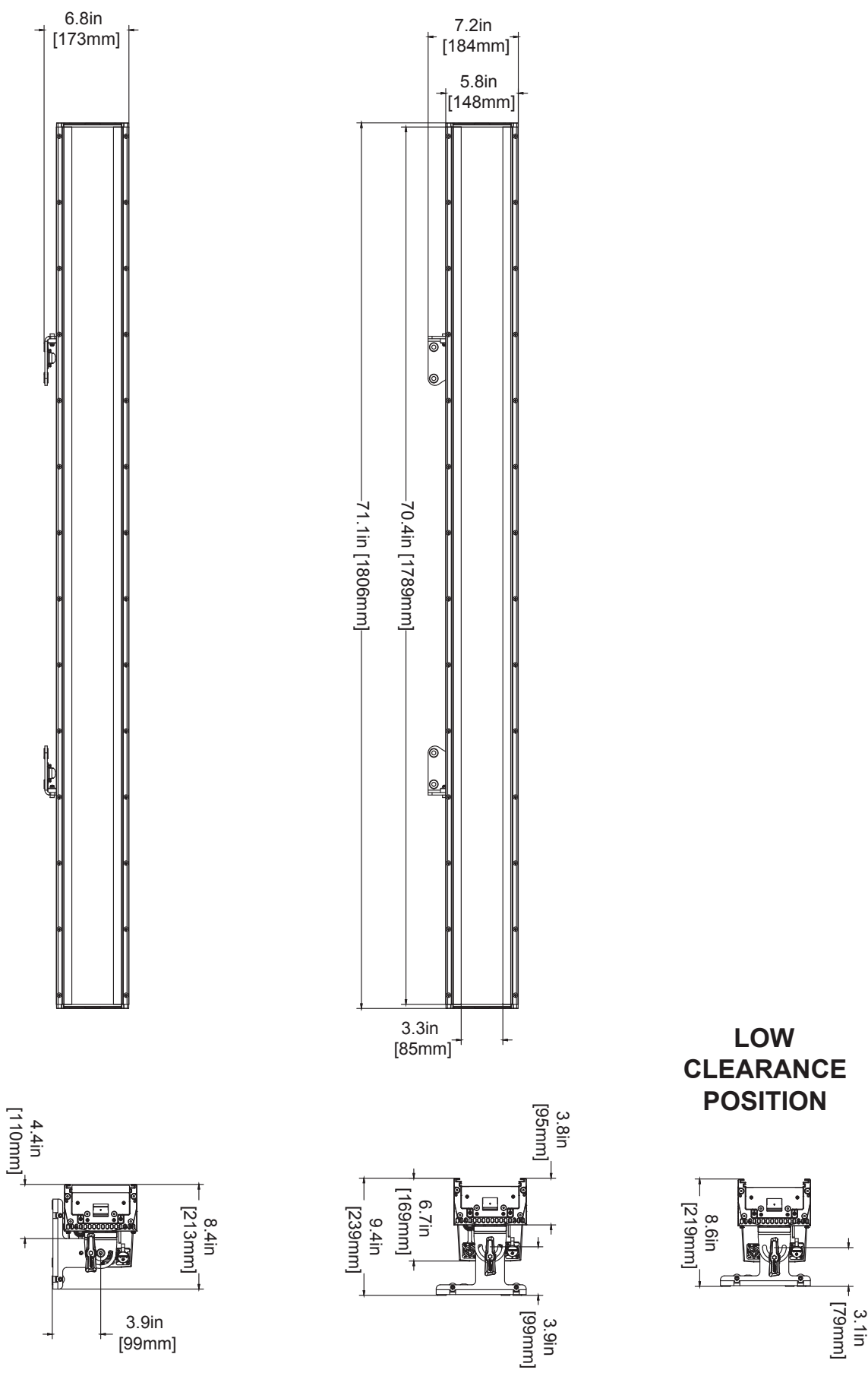
APPROVALS / RATINGS

CE | cETLus | IP65 | FCC | UKCA



Specifications and documentation subject to change without notice.

DIMENSIONAL DRAWINGS



FCC STATEMENT

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

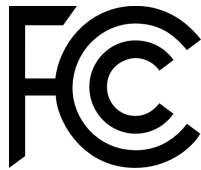
FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS

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

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

Energy Saving Matters (EuP 2009/125/EC)

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



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