

## FOCUS WASH 400 <br> User Manual

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## Europe Energy Saving Notice

Energy Saving Matters (EuP 2009/125/EC)
Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

## DOCUMENT VERSION



Due to additional product features and/or enhancements, an updated version of this document may be available online.
Please check www.adj.com for the latest revision/update of this manual before beginning installation and/or programming.

| Date | Document <br> Version | Software <br> Version | DMX Channels | Notes |
| :---: | :---: | :---: | :---: | :--- |
| $05 / 05 / 2021$ | 1.0 | 1.1 .1 | $16 / 21 / 23$ ch | lnitial Release |
| $06 / 25 / 2021$ | 2.0 | 1.1 .2 | $17 / 22 / 24 /$ CMY 18 <br> $/$ CMY 24 ch | Update DMX Traits, System Menu, <br> added Color Swatch Table, add <br> Snoot and Linear Lens Installation |
| $08 / 09 / 2021$ | 3.0 | N/C | No Change | Updated Dimensional Drawings |
| $08 / 25 / 2021$ | 4.0 | N/C | No Change | Corrected DMX Traits |
| $08 / 31 / 2021$ | 5.0 | N/C | No Change | Updated Color Macros Chart and <br> Specifications |
| $01 / 27 / 2022$ | 6.0 | 1.1 .4 | No Change | Updated System Menu, DMX Traits |
| $11 / 02 / 2022$ | 7.0 | N/C | No Change | Add RDM Information |

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## GENERAL INFORMATION

## INTRODUCTION

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

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

## 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.

## CUSTOMER SUPPORT

Contact ADJ Service for any product related service and support needs.
Also visit forums.adj.com with questions, comments or suggestions.
ADJ SERVICE USA - Monday - Friday 8:00am to 4:30pm PST
323-582-2650 I Fax: 323-832-2941 I support@adj.com
ADJ SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET
+31455468560 I Fax: +31455468596 I support@adj.eu

REPLACEMENT PARTS please visit parts.adj.com


THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT.
DO NOT ATTEMPT ANY REPAIRS YOURSELF; DOING SO WILL VOID YOUR MANUFACTURER’S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO WARRANTY CLAIMS AND/OR REPAIRS.

## LIMITED WARRANTY (USA ONLY)

A. ADJ Products, LLC hereby warrants, to the original purchaser, ADJ Products, LLC products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase (see specific warranty period on reverse). This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.
B. For warranty service, you must obtain a Return Authorization number (RA\#) before sending back the product-please contact ADJ Products, LLC Service Department at 800-322-6337. Send the product only to the ADJ Products, LLC factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, ADJ Products, LLC will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall have no liability whatsoever for loss of or damage to any such accessories, or for the safe return thereof.
C. This warranty is void of the serial number has been altered or removed; if the product is modified in any manner which ADJ Products, LLC concludes, after inspection, affects the reliability of the product, if the product has been repaired or service by anyone other than ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because not properly maintained as set forth in the instruction manual.
D. This is not a service contact, and this warranty does not include maintenance, cleaning or periodic check up. During the period specified above, ADJ Products, LLC will replace defective parts at its expense with new or refurbished parts, and will absorb all expenses for warrant service and repair labor by reason of defects in material or workmanship. The sole responsibility of ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC. All products covered by this warranty were manufactured after August 15, 2012, and bear identifying marks to that effect.
E. ADJ Products, LLC reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.
F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by ADJ Products, LLC in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and/or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall ADJ Products, LLC be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.
G. This warranty is the only written warranty applicable to ADJ Products, LLC Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

## LIMITED WARRANTY PERIODS

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


## WARRANTY REGISTRATION

Please fill out the enclosed warranty card to validate your purchase. All returned service items, whether under warranty or not, must be freight pre-paid and accompanied by a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper included in the shipping carton. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. You may obtain an R.A. number by contacting our customer support team on our customer support number. All packages returned to the service department not displaying an R.A. number on the outside of the package will be returned to the shipper.

## KEY FEATURES

- 10 to 46-degree motorized zoom
- Flicker free operation for TV and film
- 16-bit pan/tilt movement
- RGBACL color mixing
- Variable dimming modes/curves and strobe effects
- DMX and RDM protocol support
- DMX and power in/out connections
- LCD menu display with 6 button control panel
- Multiple unit power linking
- Multi-voltage universal auto switching power supply (AC100-240V)


## INCLUDED ITEMS

- Twist-lock power cable (x1)
- Omega brackets (x2)
- Snoot (x1)
- Linear Lens (x1)
- Screws (x4)


## SAFETY GUIDELINES

## For Your Own Personal Safety, Please Read and Understand This Manual Completely Before You Attempt To Install Or Operate This Unit!

- Be sure to save the packing carton in the unlikely event the device may have to be returned for service
- Do not spill water or other liquids into or on to the device
- Be sure that the local power outlet matches the required voltage for the device
- Do not open up the device for any reason. There are no user serviceable parts inside
- Disconnect the device's main power when left unused for long periods of time
- Never connect this device to a dimmer pack
- Do not attempt to operate this device if it has been damaged in any way
- Never operate this device with the cover removed
- To reduce the risk of electrical shock or fire, do not expose this device to rain or moisture
- Do not attempt to operate this device if the power cord has been frayed or broken.
- Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short
- Disconnect from main power before making any type of connection
- Never block the ventilation holes. Always be sure to mount this device in an area that will allow proper ventilation. Allow about 6 " $(15 \mathrm{~cm})$ between this device and a wall
- This unit is intended for indoor use only. Use of this product outdoors voids all warranties
- Always mount this unit in a safe and stable matter
- Please route your power cord out of the way of foot traffic. Power cords should be routed so they are not likely to be walked on, or pinched by items placed upon or against them

Maximum ambient operating temperature for this fixture is 113 degrees $F$ ( 45 degrees $C$ ). Do not operate this device when ambient temperature exceeds this value!

## Keep flammable materials away from this fixture!

## FIXTURE IS DESIGNED FOR INDOOR USE ONLY! DO NOT EXPOSE TO RAIN OR MOISTURE!

The device should be serviced by qualified service personnel when:
A. The power-supply cord or the plug has been damaged.
B. Objects have fallen on, or liquid has been spilled into, the device.
C. The device has been exposed to rain or water.
D. The appliance does not appear to operate normally or exhibits a marked change in performance.

## OVERVIEW


10. Power In

1. Display Screen
2. Left Button
3. Down Button
4. Enter Button
5. Right Button
6. Up Button
7. Carry Handle (x2)
8. Mode Button
9. Service Port
10. Power Out
11. DMX In, 3-pin
12. DMX $\operatorname{In}, 5$-pin
13. DMX Out, 3-pin
14. DMX Out, 5-pin
15. Fuse
16. Mounting Clamp Attachment (x4)
17. Safety Cable Attachment

## DMX SETUP

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

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

Data Cable (DMX Cable) Requirements (For DMX Operation): The Focus Wash 400 can be controlled via DMX-512 protocol. The DMX address is set on the front panel of the fixture. Your unit and your DMX controller require a standard 3-pin XLR connector for data input and data output. We recommend Accu-Cable DMX cables. If you are making your own cables, be sure to use standard 110120 Ohm shielded cable (This cable may be purchased at almost all pro lighting stores). Your cables should be made with a male XLR connector at one end and a female XLR connector on the other. Also remember that DMX cable must be daisy chained and cannot be split.

Notice: Be sure to follow figures 1 and 2 when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and may result in erratic behavior.


Figure 1


| XLR Pin Configuration |
| :--- |
| Pin 1 = Ground |
| Pin 2 = Data Compliment (negative) |
| Pin 3 = Data True (positive) |

Figure 2

## DMX SETUP

Special Note: Line Termination. When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will decrease the possibilities of erratic behavior.


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

5-Pin XLR DMX Connectors. Some manufacturers use 5-pin DMX-512 data cables for DATA transmission in place of 3-pin. 5-pin DMX fixtures may be implemented in a 3-pin DMX line. When inserting standard 5-pin data cables into a 3-pin line, a cable adaptor must be used. These adaptors are readily available at most electronics stores. The chart below details a proper cable conversion.

| 3-Pin XLR to 5-Pin XLR Conversion |  |  |
| :---: | :---: | :---: |
| Conductor | 3-Pin XLR Female (Out) | 5-Pin XLR Male (In) |
| Ground/Shield | Pin 1 | Pin 1 |
| Data Compliment (- signal) | Pin 2 | Pin 2 |
| Data True (+ signal) | Pin 3 | Pin 3 |
| Not Used |  | Do Not Use |
| Not Used |  | Do Not Use |

## INSTALLATION

## IP RATING

This device is IP30 rated. It is protected against instrusion of solids larger than 2.5 mm in size, such as tools and thick-gauge wires. The device is NOT protected against liquid instrusion of any kind.

## FLAMMABLE MATERIAL WARNING!

Keep device a minimum of 5.0 feet ( 1.5 m ) away from flammable material and/or pyrotechnics.

## ELECTRICAL CONNECTIONS

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

## MULTI-DEVICE DAISY CHAINING

- When connected to 240 V power, up to 3 devices may be daisy chained together.
- When connected to 110 V power, daisy chaining is NOT permitted. In this situation, only operate the fixture as a single standalone device!


## DO NOT INSTALL THE DEVICE IF YOU ARE NOT QUALIFIED TO DO SO!

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

Before installing or mounting any device, a professional equipment installer MUST be consulted to determine whether the mounting structure or surface is properly certified to safely support the combined weight of the fixture, clamps, cables, and accessories.

Overhead fixture installations must always be secured with a secondary safety attachment, such as an appropriately rated safety cable that meets all local, national, and country codes and regulations.

Maximum ambient operating temperature is $113^{\circ} \mathrm{F}\left(45^{\circ} \mathrm{C}\right)$. Do not operate this device when ambient temperature exceeds this value.

This fixture should be installed in areas outside walking paths, seating areas, and areas where unauthorized personnel might be able to reach the device by hand.

NEVER stand directly below the fixture when rigging, removing, or servicing.
Allow approximately 15 minutes for the fixture to cool down before servicing.

## INSTALLATION

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

This issue is not unique to ADJ lighting fixtures; 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 any potential damage if followed. Contact ADJ Service for more details.

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


## INSTALLATION

## CLAMP INSTALLATION

This fixture features multiple mounting clamp attachment points, as well as a safety cable attachment point, located on the bottom face of the fixture (see the illustration below). When mounting the fixture to a truss or any other suspended or overhead installation, be sure to secure appropriately rated clamps (not included) to the clamp attachment points and attach a separate SAFETY CABLE of the appropriate safety rating to the safety cable rigging point.



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

## RIGGING

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

## INSTALLATION

NOTICE: The max suitable enviromental temperature for this lighting fixture is $45^{\circ} \mathrm{C}$. Do not place this lighting fixture in an environment where the temperatures exceed this rating. This will allow the fixture to run at its best and help prolong the fixture life.


The Focus Wash 400 is fully operational in three different mounting positions: hanging upside-down from a ceiling or trussing, sideways on trussing, or set on a flat level surface. Be sure this fixture is kept at least 12 m (40ft) away from any flammable materials (decoration etc.). Always use and install a safety cable (not included) as a safety measure to prevent accidental damage and/or injury in the event the clamp fails. Never use the carrying handles for secondary attachment.

## INSTALLATION

SNOOT INSTALLATION: This device can be fitted with a removable snoot, which can be installed by following the directions below.

1. Find the four (4) mounting holes located around the frame of the lens.

2. Use a screwdriver to insert and tighten screws into each of the mounting tabs.

3. Align the mounting tabs on the snoot with the mounting holes on the frame of the lens.

4. Installation is now complete!


## INSTALLATION

LINEAR LENS INSTALLATION: This device can be fitted with a linear lens, which can be installed by following the directions below.

1. Find the four (4) mounting holes located around the frame of the fixture lens.

2. Use a screwdriver to insert and tighten screws into each of the mounting tabs.


## 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 |
| :---: | :---: | :---: | :--- |
| 1900 |  |  | Basic <br> standard <br> Extended |
|  | 0000-FFFF | 3 | CMY ST. <br> CMY EXT. |

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:

| [0x0011] Proxied Device Count | [0x0032] Clear Status ID | [0x0603] Realtime Clock |
| :---: | :---: | :---: |
| [0x0200] Sensor Definition | [0x0401] Lamp Hours | [0x1010] Power State |
| [0x0201] Sensor Value | [0x0402] Lamp Strikes | [0x1031] Preset Playback |
| [0x0080] Device Model Description | [0x0403] Lamp State | [0x0122] Default Slot Value |
| [0x0081] Manufacturer Label | [0x0404] Lamp Mode | [0x00B0] Language |
| [0x0082] Device Label | [0x0405] Device Power Cycles | [0x00A0] Language Capabilities |
| [0x00E0] DMX Personality | [0x0600] Pan Invert | [0x00C2] Boot Software Version Label |
| [0x00E1] DMX Personality Description | [0x0601] Tilt Invert | [0x00C1] Boot Software Version ID |
| [0x0400] Device Hours | [0x0602] Pan Tilt Swap | [0x0070] Product Detail ID List |
| [0x0015] Comms Status | [0x0500] Display Invert | [0x0030] Status Messages |
| [0x0031] Status ID Description | [0x0501] Display Level | $\begin{array}{\|l} \text { [0x1500] Undefined PID } \\ {[0 \times 1500,(5376)]} \\ \hline \end{array}$ |

## CONTROL PANEL

This fixture includes an easy to navigate control panel display, from which all necessary settings and adjustments can be made. During normal operating, pressing the MODE button once will access the fixture's main menu. Once in the main menu, the UP and DOWN buttons can be used to navigate through the different functions. Press the ENTER button to select the option displayed on the screen, and use the LEFT and RIGHT buttons to adjust the settings for the selected option. Press the ENTER button once more to confirm the setting. Pressing the MODE button at any time to return to the main menu without making any adjustments.

System Menu Access: To access the system menu when the fixture is not running on the internal battery, press and hold the MODE button to illuminate the display screen until the DMX address is displayed. Then navigate to the desired system menu.


## SYSTEM MENU



## SYSTEM MENU

| PERSONALITY (cont'd from prev page) | LED Refresh Rate | $900 \sim 1500 \mathrm{~Hz}$ |  | Default $=15 \mathrm{KHz}$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 2500 Hz |  |  |
|  |  | 4000 Hz |  |  |
|  |  | 5000 Hz |  |  |
|  |  | 6000 Hz |  |  |
|  |  | 10 kHz |  |  |
|  |  | 15 kHz |  |  |
|  |  | 20 kHz |  |  |
|  |  | 25 kHz |  |  |
|  | Dim Curve | Linear |  |  |
|  |  | Square |  |  |
|  |  | Inv Squa |  |  |
|  |  | S Curve |  |  |
|  | Reset Motors | Reset All Motors | Yes / No |  |
|  |  | Pan/Tilt Reset | Yes / No |  |
|  |  | Effect Reset | Yes / No |  |
|  | Display | Intensity | 1 ~ 10 |  |
|  |  | Display Invert | Yes / No |  |
|  |  | Screen Saver Delay | Off $\sim 10$ min | Default $=5 \mathrm{~min}$ |
|  |  | Key Lock | Off / On / On1 |  |
|  | Service | Passcode $=050$ | Effect Adjust (Calibration) Passcode $=050$ | $\begin{array}{\|l\|l} \hline \text { Pan } \\ -128 ~ 127 \\ \hline \end{array}$ |
|  |  |  |  | $\begin{array}{\|l\|} \hline \text { Tilt } \\ \hline-128 ~ 127 \\ \hline \end{array}$ |
|  |  |  |  | ... |
|  |  |  | USB Port Power | Off / On |
|  |  |  | Update Software | Off / On |
|  |  |  | Factory Restore | Off / On <br> Passcode $=011$ |
|  |  |  |  |  |

## SYSTEM MENU

| MANUAL | Pan | 000 ~ 255 |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Pan Fine | $000 \sim 255$ |  |  |
|  | Tilt | 000 ~ 255 |  |  |
|  | Tilt Fine | 000 ~ 255 |  |  |
|  | ... | $000 \sim 255$ |  |  |
| INTERNAL PROGRAMS | Program 1 | Speed | 000-255 |  |
|  |  | Fade | 000-255 |  |
|  | Program 2 | Speed | 000-255 |  |
|  |  | Fade | 000-255 |  |
|  | Program 3 | Speed | 000-255 |  |
|  |  | Fade | 000-255 |  |
|  | Program 4 | Speed | 000-255 |  |
|  |  | Fade | 000-255 |  |
|  | Program 5 | Speed | 000-255 |  |
|  |  | Fade | 000-255 |  |
|  | Program 6 | Speed | 000-255 |  |
|  |  | Fade | 000-255 |  |
|  | Program 7 | Speed | 000-255 |  |
|  |  | Fade | 000-255 |  |
| INFORMATION | Fixture Life Time | Power On Time |  |  |
|  |  | P-On Time-R <br> (Power On Resettable Time) |  |  |
|  |  | P-On Time-Reset (Power On Time Reset) | Passcode $=050$ |  |
|  | Total LED Time | LED On Time |  |  |
|  |  | LED On Time-R |  |  |
|  |  | LED Hours Reset | Passcode $=050$ |  |
|  |  |  |  |  |

## SYSTEM MENU

| INFORMATION (cont'd from prev page) | Fixture Temps | LEDs | Current |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Max Resettable |  |
|  |  | Base | Current |  |
|  |  |  | Max Resettable |  |
|  |  | Reset LED Temp | Yes / No | Passcode $=050$ |
|  |  | Reset Base Temp | Yes / No | Passcode $=050$ |
|  | Fan Info (RPM) | LED Fan |  |  |
|  |  | Base Fan |  |  |
|  | DMX Values | Pan |  |  |
|  |  | Pan Fine |  |  |
|  |  | ... |  |  |
|  | Error Logs | Fixture Errors |  | scrolls through error list |
|  |  | Reset Error Log | Yes / No | Passcode $=050$ |
|  | Software Version |  |  |  |

## DMX ADDRESSING

All fixtures should be given a DMX starting address when operating with a DMX controller, in order to ensure that the correct fixture responds to the correct control signal. This digital starting address is the channel number from which the fixture starts to "listen" to the digital control signal sent out from the DMX controller. This starting DMX address is assigned by setting the correct DMX address on the digital control display on the fixture.

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

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

As an example, when operating this fixture model in Basic (17 channel) mode, you should set the starting DMX address of the first unit to 1 , the second unit to $18(1+17)$, the third unit to $35(1+17+$ 17), and so on. (See the chart below for more details.)

| Channel Mode | Unit 1 Address | Unit 2 Address | Unit 3 Address | Unit 4 Address |
| :---: | :---: | :---: | :---: | :---: |
| Basic | 1 | 18 | 35 | 52 |
| Standard | 1 | 23 | 45 | 67 |
| Extended | 1 | 25 | 49 | 73 |
| CMY St. | 1 | 19 | 37 | 55 |
| CMY Ext. | 1 | 25 | 49 | 73 |

## DMX TRAITS

| CHANNEL |  |  |  |  | VALUES | FUNCTION |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Basic | Standard | Ext | CMY St. | CMY Ext |  |  |
| 1 | 1 | 1 | 1 | 1 | 000-255 | Pan Movement, 540/630 Degrees |
|  | 2 | 2 | 2 | 2 | 000-255 | Pan Fine Movement |
| 2 | 3 | 3 | 3 | 3 | 000-255 | Tilt Movement, 270 Degrees |
|  | 4 | 4 | 4 | 4 | 000-255 | Tilt Fine Movement |
| 3 | 5 | 5 |  |  | 000-255 | Red, 0\% - 100\% |
| 4 | 6 | 6 |  |  | 000-255 | Green, 0\% - 100\% |
| 5 | 7 | 7 |  |  | 000-255 | Blue, 0\%-100\% |
| 6 | 8 | 8 |  |  | 000-255 | Amber, 0\% - 100\% |
| 7 | 9 | 9 |  |  | 000-255 | Cyan, 0\%-100\% |
| 8 | 10 | 10 |  |  | 000-255 | Lime, 0\%-100\% |
|  |  |  | 5 | 5 | 000-255 | Cyan, (0-100\% Cyan) |
|  |  |  |  | 6 | 000-255 | Cyan Fine |
|  |  |  | 6 | 7 | 000-255 | Magenta, 0\% - 100\% |
|  |  |  |  | 8 | 000-255 | Magenta Fine |
|  |  |  | 7 | 9 | 000-255 | Yellow, 0\% - 100\% |
|  |  |  |  | 10 | 000-255 | Yellow Fine |
| 9 | 11 | 11 | 8 | 11 | 000-255 | Color Temperature Linear 2700K 10000K |
| 10 | 12 | 12 | 9 | 12 |  | Color Temperature Presets |
|  |  |  |  |  | 000-031 | No Function |
|  |  |  |  |  | 032-076 | 2700K |
|  |  |  |  |  | 077-121 | 3200K |
|  |  |  |  |  | 122-166 | 4000K |
|  |  |  |  |  | 167-211 | 5600K |
|  |  |  |  |  | 212-255 | 6500K |
| 11 | 13 | 13 | 10 | 13 |  | Color Wheel |
|  |  |  |  |  | 000 | Open |
|  |  |  |  |  | 001-060 | Virtual Swatch Colors (see Virtual Swatch Colors section) |
|  |  |  |  |  | 061-179 | Open |
|  |  |  |  |  | 180-201 | Color Scroll Clockwise, fast to slow |
|  |  |  |  |  |  |  |

## DMX TRAITS

| CHANNEL |  |  |  |  | VALUES | FUNCTION |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Basic | Standard | Ext | CMY St. | CMY Ext |  |  |
| 11 | 13 | 13 | 10 | 13 |  | Color Wheel (cont'd) |
|  |  |  |  |  | 202-207 | Stop |
|  |  |  |  |  | 208-229 | Color Scroll Counter-Clockwise, slow to fast |
|  |  |  |  |  | 230-234 | Open |
|  |  |  |  |  | 235-239 | Random Slots Fast |
|  |  |  |  |  | 240-244 | Random Slots Medium |
|  |  |  |  |  | 245-249 | Random Slots Slow |
|  |  |  |  |  | 250-255 | Open |
|  | 14 | 14 | 11 | 14 |  | Color Temperature Red to Green |
|  |  |  |  |  | 000 | No Function |
|  |  |  |  |  | 001-255 | Shift CT, Red to Green |
| 12 | 15 | 15 |  | 15 | 000-255 | Color Macros (see Color Macros Chart) |
| 13 | 16 | 16 | 12 | 16 |  | Shutter |
|  |  |  |  |  | 000-031 | Shutter Closed (LEDs Off) |
|  |  |  |  |  | 032-063 | Shutter Open (LEDs On) |
|  |  |  |  |  | 064-095 | Strobe effect, slow to fast |
|  |  |  |  |  | 096-127 | Shutter Open (LEDs On) |
|  |  |  |  |  | 128-159 | Pulse effect in sequences |
|  |  |  |  |  | 160-191 | Shutter Open (LEDs On) |
|  |  |  |  |  | 192-223 | Random strobe effect, slow to fast |
|  |  |  |  |  | 224-255 | Shutter Open (LEDs On) |
| 14 | 17 | 17 | 13 | 17 | 000-255 | Dimmer Intensity, 0 to 100\% |
|  | 18 | 18 |  | 18 | 000-255 | Dimmer Fine |
| 15 | 19 | 19 | 14 | 19 | 000-255 | Zoom, wide to narrow |
|  |  | 20 |  | 20 | 000-255 | Zoom Fine |
|  |  |  |  |  |  |  |

## DMX TRAITS

| CHANNEL |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Basic | Standard | Ext | CMY <br> St. | CMY <br> Ext | VALUES | FUNCTION |
|  |  |  |  |  | Dim Modes |  |

## DMX TRAITS

| CHANNEL |  |  |  |  | VALUES | FUNCTION |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Basic | Standard | Ext | $\begin{gathered} \text { CMY } \\ \text { St. } \end{gathered}$ | $\begin{gathered} \text { CMY } \\ \text { Ext } \end{gathered}$ |  |  |
|  |  | 22 | 16 | 22 |  | Dim Curves |
|  |  |  |  |  | 000-020 | Linear |
|  |  |  |  |  | 021-040 | Square |
|  |  |  |  |  | 041-060 | Inv. Squa |
|  |  |  |  |  | 061-080 | S. Curve |
|  |  |  |  |  | 081-255 | No Function |
| 16 | 21 | 23 | 17 | 23 | 000-255 | Pan/Tilt Speed, max to min |
| 17 | 22 | 24 | 18 | 24 |  | Special Functions |
|  |  |  |  |  | 000-010 | Default Refresh Rate ( 15 KHz ) |
|  |  |  |  |  | 011 | 900 Hz |
|  |  |  |  |  | 012 | 910 Hz |
|  |  |  |  |  | 013 | 920 Hz |
|  |  |  |  |  | 014 | 930 Hz |
|  |  |  |  |  | 015 | 940 Hz |
|  |  |  |  |  | 016 | 950 Hz |
|  |  |  |  |  | 017 | 960 Hz |
|  |  |  |  |  | 018 | 970 Hz |
|  |  |  |  |  | 019 | 980 Hz |
|  |  |  |  |  | 020 | 990 Hz |
|  |  |  |  |  | 021 | 1000 Hz |
|  |  |  |  |  | 022 | 1010 Hz |
|  |  |  |  |  | 023 | 1020 Hz |
|  |  |  |  |  | 024 | 1030 Hz |
|  |  |  |  |  | 025 | 1040 Hz |
|  |  |  |  |  | 026 | 1050 Hz |
|  |  |  |  |  | 027 | 1060 Hz |
|  |  |  |  |  | 028 | 1070 Hz |
|  |  |  |  |  | 029 | 1080 Hz |
|  |  |  |  |  | 030 | 1090 Hz |
|  |  |  |  |  | 031 | 1100 Hz |
|  |  |  |  |  |  |  |

## DMX TRAITS



## DMX TRAITS



DMX TRAITS

| CHANNEL |  |  |  |  | VALUES | FUNCTION |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Basic | Standard | Ext | CMY St. | CMY Ext |  |  |
| 17 | 22 | 24 | 18 | 24 |  | Special Functions (cont'd) |
|  |  |  |  |  | 170-174 | Enable Zoom Speed Fast |
|  |  |  |  |  | 175-179 | Disable Zoom Speed Fast |
|  |  |  |  |  | 180-189 | Internal Program 1 (Scenes 1-8) |
|  |  |  |  |  | 190-199 | Internal Program 2 (Scenes 9-16) |
|  |  |  |  |  | 200-209 | Internal Program 3 (Scenes 17-24) |
|  |  |  |  |  | 210-219 | Internal Program 4 (Scenes 25-32) |
|  |  |  |  |  | 220-229 | Internal Program 5 (Scenes 33-40) |
|  |  |  |  |  | 230-239 | Internal Program 6 (Scenes 41-48) |
|  |  |  |  |  | 240-249 | Internal Program 7 (Scenes 49-56) |
|  |  |  |  |  | 250-255 | No Function |
|  |  |  |  |  |  |  |

## COLOR MACROS CHART

| MACRO NUMBER | DMX VALUE | RED | GREEN | BLUE | AMBER | CYAN | LIME |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 001-004 | 80 | 255 | 234 | 80 | 0 | 0 |
| 2 | 005-008 | 80 | 255 | 164 | 80 | 0 | 0 |
| 3 | 009-012 | 77 | 255 | 112 | 77 | 0 | 0 |
| 4 | 013-016 | 117 | 255 | 83 | 83 | 0 | 0 |
| 5 | 017-020 | 160 | 255 | 77 | 77 | 0 | 0 |
| 6 | 021-024 | 223 | 255 | 83 | 83 | 0 | 0 |
| 7 | 025-028 | 255 | 243 | 77 | 77 | 0 | 0 |
| 8 | 029-032 | 255 | 200 | 74 | 74 | 0 | 0 |
| 9 | 033-036 | 255 | 166 | 77 | 77 | 0 | 0 |
| 10 | 037-040 | 255 | 125 | 74 | 74 | 0 | 0 |
| 11 | 041-044 | 255 | 97 | 77 | 74 | 0 | 0 |
| 12 | 045-048 | 255 | 71 | 77 | 71 | 0 | 0 |
| 13 | 049-052 | 255 | 83 | 134 | 83 | 0 | 0 |
| 14 | 053-056 | 255 | 93 | 182 | 93 | 0 | 0 |
| 15 | 057-060 | 255 | 96 | 236 | 96 | 0 | 0 |
| 16 | 061-064 | 238 | 93 | 255 | 93 | 0 | 0 |
| 17 | 065-068 | 196 | 87 | 255 | 87 | 0 | 0 |
| 18 | 069-072 | 150 | 90 | 255 | 90 | 0 | 0 |
| 19 | 073-076 | 100 | 77 | 255 | 77 | 0 | 0 |
| 20 | 077-080 | 77 | 100 | 255 | 77 | 0 | 0 |
| 21 | 081-084 | 67 | 148 | 255 | 67 | 0 | 0 |
| 22 | 085-088 | 77 | 195 | 255 | 77 | 0 | 0 |
| 23 | 089-092 | 77 | 234 | 255 | 77 | 0 | 0 |
| 24 | 093-096 | 158 | 255 | 144 | 144 | 0 | 0 |
| 25 | 097-100 | 255 | 251 | 153 | 153 | 0 | 0 |
| 26 | 101-104 | 255 | 175 | 147 | 147 | 0 | 0 |
| 27 | 105-108 | 255 | 138 | 186 | 138 | 0 | 0 |
| 28 | 109-112 | 255 | 147 | 251 | 147 | 0 | 0 |
| 29 | 113-116 | 151 | 138 | 255 | 138 | 0 | 0 |
| 30 | 117-120 | 99 | 0 | 255 | 100 | 0 | 0 |
| 31 | 121-124 | 138 | 169 | 255 | 138 | 0 | 0 |
| 32 | 125-128 | 255 | 255 | 255 | 255 | 0 | 0 |

## COLOR MACROS CHART

| MACRO <br> NUMBER | DMX <br> VALUE | RED | GREEN | BLUE | AMBER | CYAN | LIME |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 33 | $129-132$ | 254 | 206 | 143 | 0 | 0 | 0 |
| 34 | $133-136$ | 254 | 177 | 153 | 0 | 0 | 0 |
| 35 | $137-140$ | 254 | 192 | 138 | 0 | 0 | 0 |
| 36 | $141-144$ | 254 | 165 | 98 | 0 | 0 | 0 |
| 37 | $145-148$ | 254 | 121 | 0 | 0 | 0 | 0 |
| 38 | $149-152$ | 176 | 17 | 0 | 0 | 0 | 0 |
| 39 | $153-156$ | 96 | 0 | 11 | 0 | 0 | 0 |
| 40 | $157-160$ | 234 | 139 | 171 | 0 | 0 | 0 |
| 41 | $161-164$ | 224 | 5 | 97 | 0 | 0 | 0 |
| 42 | $165-168$ | 175 | 77 | 173 | 0 | 0 | 0 |
| 43 | $169-172$ | 119 | 130 | 199 | 0 | 0 | 0 |
| 44 | $173-176$ | 147 | 164 | 212 | 0 | 0 | 0 |
| 45 | $177-180$ | 88 | 2 | 163 | 0 | 0 | 0 |
| 46 | $181-184$ | 0 | 38 | 86 | 0 | 0 | 0 |
| 47 | $185-188$ | 0 | 142 | 208 | 0 | 0 | 0 |
| 48 | $189-192$ | 52 | 148 | 209 | 0 | 0 | 0 |
| 49 | $193-196$ | 1 | 134 | 201 | 0 | 0 | 0 |
| 50 | $197-200$ | 0 | 145 | 212 | 0 | 0 | 0 |
| 51 | $201-204$ | 0 | 121 | 192 | 0 | 0 | 0 |
| 52 | $205-208$ | 0 | 129 | 184 | 0 | 0 | 0 |
| 53 | $209-212$ | 0 | 83 | 115 | 0 | 0 | 0 |
| 54 | $213-216$ | 0 | 97 | 166 | 0 | 0 | 0 |
| 55 | $217-220$ | 1 | 100 | 167 | 0 | 0 | 0 |
| 56 | $221-224$ | 0 | 40 | 86 | 0 | 0 | 0 |
| 57 | $225-228$ | 209 | 219 | 182 | 0 | 0 | 0 |
| 58 | $229-232$ | 42 | 165 | 85 | 0 | 0 | 0 |
| 59 | $233-236$ | 0 | 46 | 35 | 0 | 0 | 0 |
| 60 | $237-240$ | 8 | 107 | 222 | 0 | 0 | 0 |
| 61 | $241-244$ | 254 | 0 | 0 | 0 | 0 | 0 |
| 62 | $245-248$ | 0 | 254 | 0 | 0 | 0 | 0 |
| 63 | $249-252$ | 0 | 0 | 254 | 0 | 0 | 0 |
| 64 | $253-255$ | 0 | 0 | 0 | 254 | 0 | 0 |
|  |  |  |  |  |  |  |  |

## VIRTUAL SWATCH COLORS

| Value | Filter Number | Name |
| :---: | :---: | :---: |
| 1 | 7 | pale yellow |
| 2 | 103 | straw |
| 3 | 151 | gold tint |
| 4 | 100 | spring yellow |
| 5 | 10 | medium yellow |
| 6 | 101 | yellow |
| 7 | 104 | deep amber |
| 8 | 15 | deep straw |
| 9 | 179 | loving amber |
| 10 | 21 | gold amber |
| 11 | 105 | orange |
| 12 | 158 | deep orange |
| 13 | 22 | dark amber |
| 14 | 778 | millenium gold |
| 15 | 135 | deep golden amber |
| 16 | 24 | scarlet |
| 17 | 106 | primary red |
| 18 | 26 | bright red |
| 19 | 27 | medium red |
| 20 | 19 | fire |
| 21 | 157 | pink |
| 22 | 36 | medium pink |
| 23 | 111 | dark pink |
| 24 | 128 | bright pink |
| 25 | 148 | bright rose |
| 26 | 332 | special rose pink |
| 27 | 793 | vanity fair |
| 28 | 113 | magenta |
| 29 | 46 | dark magenta |
| 30 | 48 | rose purple |


| Value | Filter <br> Number | Name |
| :---: | :---: | :--- |
| 31 | 126 | mauve |
| 32 | 49 | medium purple |
| 33 | 58 | lavender |
| 34 | 199 | palace blue |
| 35 | 119 | dark blue |
| 36 | 132 | medium blue |
| 37 | 120 | deep blue |
| 38 | 165 | daylight blue |
| 39 | 161 | slate blue |
| 40 | 118 | light blue |
| 41 | 68 | sky blue |
| 42 | 143 | pale navy blue |
| 43 | 131 | marine blue |
| 44 | 115 | peacock blue |
| 45 | 172 | lagoon blue |
| 46 | 116 | medium blue green |
| 47 | 90 | dark yellow green |
| 48 | 139 | primary green |
| 49 | 122 | fern green |
| 50 | 89 | moss green |
| 51 | 124 | dark green |
| 52 | 88 | lime green |
| 53 | 138 | pale green |
| 54 | 203 | Quarter CT Blue |
| 55 | 202 | Half CT Blue |
| 56 | 201 | FULL CT Blue |
| 57 | 200 | double CT Blue |
| 58 | 206 | Quarter CT Orange |
| 59 | 205 | Half CT Orange |
| 60 | 204 | FULL CT Orange |
|  |  |  |

## COLOR TEMPERATURE CHART

| DMX VALUES | COLOR <br> TEMPERATURE | DMX VALUES | COLOR <br> TEMPERATURE |
| :---: | :---: | :---: | :---: |
| 000-026 | No function | 047 | 4700 |
| 027 | 2700 | 048 | 4800 |
| 028 | 2800 | 049 | 4900 |
| 029 | 2900 | 050 | 5000 |
| 030 | 3000 | 051 | 5100 |
| 031 | 3100 | 052 | 5200 |
| 032 | 3200 | 053 | 5300 |
| 033 | 3300 | 054 | 5400 |
| 034 | 3400 | 055 | 5500 |
| 035 | 3500 | 056 | 5600 |
| 036 | 3600 | 057 | 5700 |
| 037 | 3700 | 058 | 5800 |
| 038 | 3800 | 059 | 5900 |
| 039 | 3900 | 060 | 6000 |
| 040 | 4000 | 061 | 6100 |
| 041 | 4100 | 062 | 6200 |
| 042 | 4200 | 063 | 6300 |
| 043 | 4300 | 064 | 6400 |
| 044 | 4400 | 065 | 6500 |
| 045 | 4500 | 066-255 | 10000 |
| 046 | 4600 |  |  |

## DIMMER MODES \& CURVES

## DIMMER



| Dimming Curve Ramp Effect | 0 sec Fade Time |  | 1 sec Fade Time |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $0$ | 255 |  |  |
|  | 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 |





## CLEANING \& MAINTENANCE

## WARNING! DISCONNECT UNIT FROM POWER BEFORE PERFORMING ANY CLEANING OR MAINTENANCE PROCEDURES!

## ALWAYS ALLOW THE FIXTURE TO COOL FOR AT LEAST 15 MINUTES BEFORE PERFORMING ANY CLEANING OR MAINTENANCE!

## CLEANING

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

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

## MAINTENANCE

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

Please refer to the following points during routine inspections:

- A detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing, color lenses, rigging hardware and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust 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.


## FUSE REPLACEMENT

Disconnect the unit from the power source, then use a flat head screw driver to unscrew the fuse holder located above the DMX ports. Remove the bad fuse and replace with a new one, then screw the fuse holder back in. Replace only with a new fuse of the same type and rating.

## FUSE LOCATION



## SOFTWARE UPDATES

ONLY QUALIFIED TECHNICIANS SHOULD PERFORM THIS FUNCTION! NOTE ALL MENU SETTINGS BEFORE UPDATING SOFTWARE!

## FIXTURE SOFTWARE CANNOT BE DOWNGRADED!

DOWNLOAD FIXTURE SOFTWARE TO PC ONLY! (NO MAC SUPPORT)

## PLEASE CONTACT ADJ CUSTOMER SERVICE FOR FURTHER INFORMATION.

1. Contact ADJ customer service to obtain the updated software. Download software to a USB flash drive. In order to minimize the risk of downloading the incorrect software to your device, make sure that the desired update files are the only files on the USB flash drive.
2. Disconnect any DMX connections from your device. Insert the USB flash drive into the service port on your device.
3. Use the display screen control panel to navigate to Personality > Service > USB Port Power. See the System Menu section of this manual for detailed instructions. Enter the passcode when prompted, and switch the USB Port Power setting to ON.
4. Highlight the desired file and press ENTER to select it and begin the download.
5. The unit will now update, run an automatic software check, and reset. This may take some time.
6. Repeat this process for each software update file.
7. Verify by navigating to Information > Software Version and confirming that the correct software version number is shown there (see the System Menu section of this manual for detailed instructions).

## DIMENSIONAL DRAWINGS

Without Snoot


Snoot Installed


Drawings may not be to scale.

## SPECIFICATIONS

## SOURCE:

- 400W RGBACL LED
- 50,000 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:

- Zoom Range $10^{\circ}-46^{\circ}$
- Color Temperature: 10000K
-4,600 Total Lumen Fixture Output
- Lux @ 10': 10,384 lx (965 foot candles), 1.8' diameter
-CRI: 94
-CRI R9: 87.3
- TM30 Rf: 90.8
- TM30 Rg: 99.5


## COLOR:

- RGBWACL (Red, Green, Blue, Amber, Cyan, Lime)


## EFFECTS:

- RGBACL Color Mixing
- 10~46-degree Motorized Zoom
- Electronic Strobe
- Color Temperature Red to Green control via DMX
- Linear Color Temperature control, 2700k to 10,000k
- Preset Color Temperatures (2700k, 3200k, 4000k, 5600k and 6500k)


## CONTROL / CONNECTIONS:

- 3 DMX Channel Modes (16, 21 \& 23 Channel Modes)
- Selectable LED Refresh Rates, 900 Hz to 25 K Hz .
- Linear Dimming with user selectable Dim Curves, Dim Modes and Dim Speeds
- 6-button Control Panel and LCD Menu Display
- RDM (Remote Device Management)
- Locking 3-pin and 5-pin XLR Connector In/Out
- IP65 Locking Power Connector In/Out
- With Wired Digital Communication Network


## SIZE / WEIGHT:

-Length: 10.96" (278.43mm)

- Width: 8.40" (213.33mm)
- Vertical Height (Without Snoot): 19.61" (498.1mm)
- Vertical Height (Snoot Installed): 22.37" ( 568.1 mm )
- Weight: 23.5 lbs . ( 10.7 kg )


## ELECTRICAL / THERMAL:

- Multi-voltage: AC $100-240 \mathrm{~V}-47 / 63 \mathrm{~Hz}$
- 438W Max Power Consumption
- Multiple Unit Power Linking
- $5^{\circ} \mathrm{F}$ to $113^{\circ} \mathrm{F}\left(-15^{\circ} \mathrm{C}\right.$ to $\left.45^{\circ} \mathrm{C}\right)$


## APPROVALS / RATINGS:

- CE I cETLus (Pending) I IP20

Specifications and documentation subject to change without notice.

