ROGUE OUTCAST 3X WASH

User Manual

Model ID: ROGUEOUTCAST3XWASH

CHAUVET PROFESSIONAL

Edition Notes

The Rogue Outcast 3X Wash User Manual includes a description, safety precautions, installation, programming, operation, and maintenance instructions for the Rogue Outcast 3X Wash as of the release date of this edition.

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Document Printing

For best results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure the printer to scale the content accordingly.

Intended Audience

Any person installing, operating, and/or maintaining this product should completely read through the guide that shipped with the product, as well as this manual, before installing, operating, or maintaining this product.

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Document Revision

Go to www.chauvetprofessional.com for the latest version.

Revision	Date	Description
2	07/2025	Added Manual Test programming level and 27CH personality

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1. Before You Begin

What Is Included

- Rogue Outcast 3X Wash
- Seetronic Powerkon IP65 power cable
- (2) 140D Omega brackets with mounting hardware
- Quick Reference Guide

Claims

Carefully unpack the product immediately and check the container to make sure all the parts are in the package and are in good condition.

If the box or the contents (the product and included accessories) appear damaged from shipping, or show signs of mishandling, notify the carrier immediately, not Chauvet. Failure to report damage to the carrier immediately may invalidate a claim. In addition, keep the box and contents for inspection.

For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with Chauvet within 7 days of delivery.

Text Conventions

Convention	Meaning
1–512	A range of values
50/60	A set of values of which only one can be chosen
Settings	A menu option not to be modified
<ENTER>	A key to be pressed on the product's control panel

Symbols

Symbol	Meaning
	Electrical warning. Not following these instructions may cause electrical damage to the product, accessories, or the user.
	Critical installation, configuration, or operation information. Not following these instructions may make the product not work, cause damage to the product, or cause harm to the operator.
	Pinch point warning. Not following these instructions may result in damage to, or loss of, tools, digits, or limbs.
	Important installation or configuration information. The product may not function correctly if this information is not used.
	Useful information.

Any reference to data or power connections in this manual assumes the use of Seetronic IP-rated cables.

The term "DMX" used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.

Connection of the control signal: DMX line

- **The product has XLR sockets for DMX input and output.**
- **Notice: This control circuit is isolated and belongs to the Class 2 data port.**

The control circuit has a cumulative leakage current of less than 3.5 mA.

Safety Notes

Read all the following safety notes before working with this product. These notes contain important information about the installation, usage, and maintenance of this product.

This product contains no user-serviceable parts. Any reference to servicing in this User Manual will only apply to properly trained, certified technicians. Do not open the housing or attempt any repairs.

All applicable local codes and regulations apply to proper installation of this product.

- The luminaire is intended for professional use only.
- The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 16.4 ft (5 m) is not expected.
- If the external flexible cable or cord of this luminaire is damaged, it shall be replaced by a special cord or cord exclusively available from the manufacturer or its service agent.
- The light source contained in this luminaire shall only be replaced by the manufacturer or its service agent or a similar qualified person.
- **CAUTION:**
  - This product's housing may be hot when operating. Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
  - When transferring the product from extreme temperature environments, (e.g., cold truck to warm humid ballroom) condensation may form on the internal electronics of the product. To avoid causing a failure, allow the product to fully acclimate to the surrounding environment before connecting it to power.
  - Flashing light is known to trigger epileptic seizures. User must comply with local laws regarding notification of strobe use.
- **ALWAYS:**
  - Disconnect from power before cleaning the product or replacing the fuse.
  - When using an IP65-rated product in an outdoor environment, use IP65- (or higher) rated power and data cable.
  - Replace and secure IP-rated protective covers to all power, data, USB, or other ports when not in use.
  - Replace the fuse with the same type and rating.
  - Use a safety cable when mounting this product overhead.
  - Connect this product to a grounded and protected circuit.
- **DO NOT:**
  - Open this product. It contains no user-serviceable parts.
  - Look at the light source when the product is on.
  - Leave any flammable material within 20 cm of this product while operating or connected to power.
  - Connect this product to a dimmer or rheostat.
  - Operate this product if the housing, lenses, or cables appear damaged.
  - Submerge this product (adhere to standards for the published IP rating). Regular outdoor operation is fine.
  - Permanently install outdoors in locations with extreme environmental conditions. This includes, but is not limited to:
    - Exposure to a marine/saline environment (within 3 miles of a saltwater body of water).
    - Locations where normal temperatures exceed the temperature ranges in this manual.
    - Locations that are prone to flooding or being buried in snow.
    - Other areas where the product will be subject to extreme radiation or caustic substances.
  - ONLY use the handles or the hanging/mounting brackets to carry this product.
  - The maximum ambient temperature is 113 °F (45 °C). Do not operate this product at higher temperatures.
  - The minimum startup temperature is -4°F (-20°C). Do not start the product at lower temperatures.
  - The minimum ambient temperature is -22°F (-30°C). Do not operate the product at lower temperatures.
  - To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.
  - In the event of a serious operating problem, stop using immediately.

If this Chauvet product requires service, contact Chauvet Technical Support.

FCC Statement of Compliance

This device complies with Part 15 Part B 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.

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure Warning for North America and Australia

Warning! This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and the user. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Expected LED Lifespan

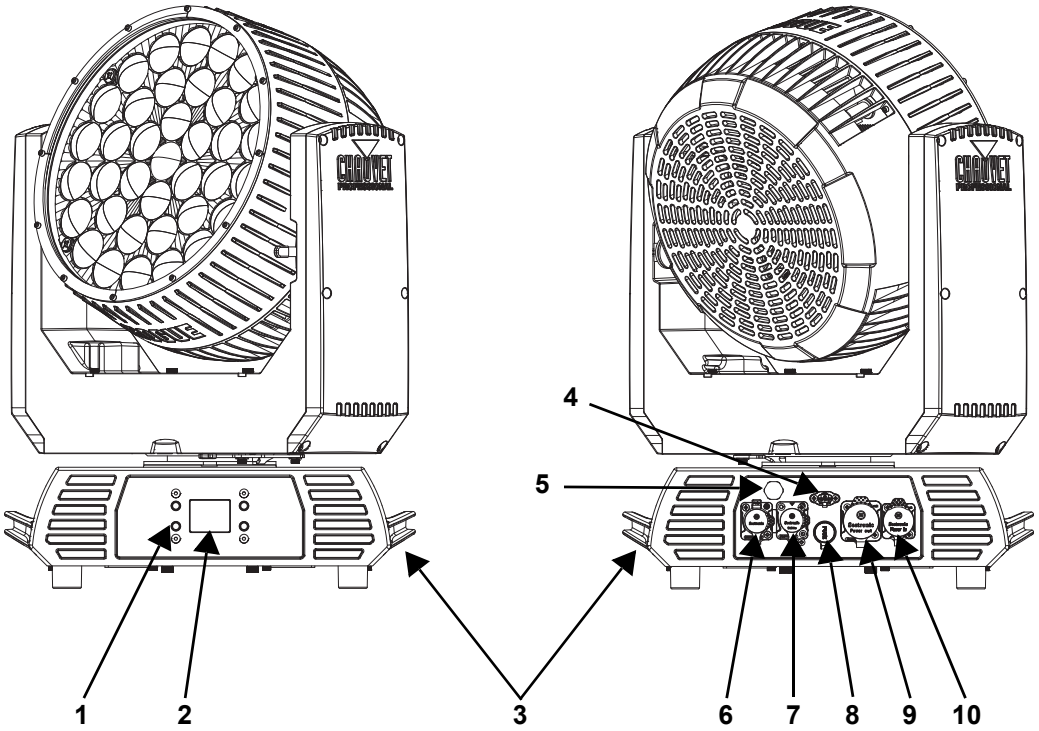
Over time, use and heat will gradually reduce LED brightness. Clustered LEDs produce more heat than single LEDs, contributing to shorter lifespans if always used at full intensity. The average LED lifespan is 40,000 to 50,000 hours. To extend LED lifespan, maintain proper ventilation around the product, and limit the overall intensity.

2. Introduction

Features

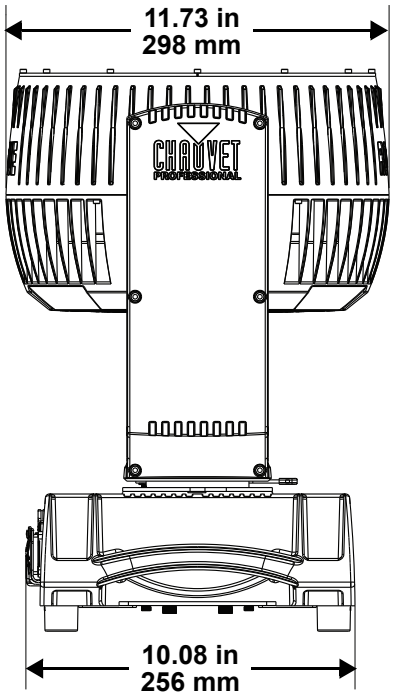
- Fully featured IP65 RGBW LED yoke wash fixture with LED zone control, zoom, durable, and lightweight aluminum/magnesium alloy body
- 16-bit dimming of master dimmer as well as individual colors for smooth control of fades
- 37 RGBW LEDs, 25 W each
- 5-pin DMX input/output connections
- 9 zones of LED control for pixel mapping control
- Fast, smooth pan and tilt movement
- RDM enabled for remote addressing and trouble shooting
- Selectable PWM options for camera operation
- Easy-to-read OLED display with simple, effective menu options
- User-selectable calibrated white for 7500 K at full output
- 6 distinct dimming modes for advanced control
- Simple and complex DMX channel profiles for programming versatility
- USB-C port for uploading software

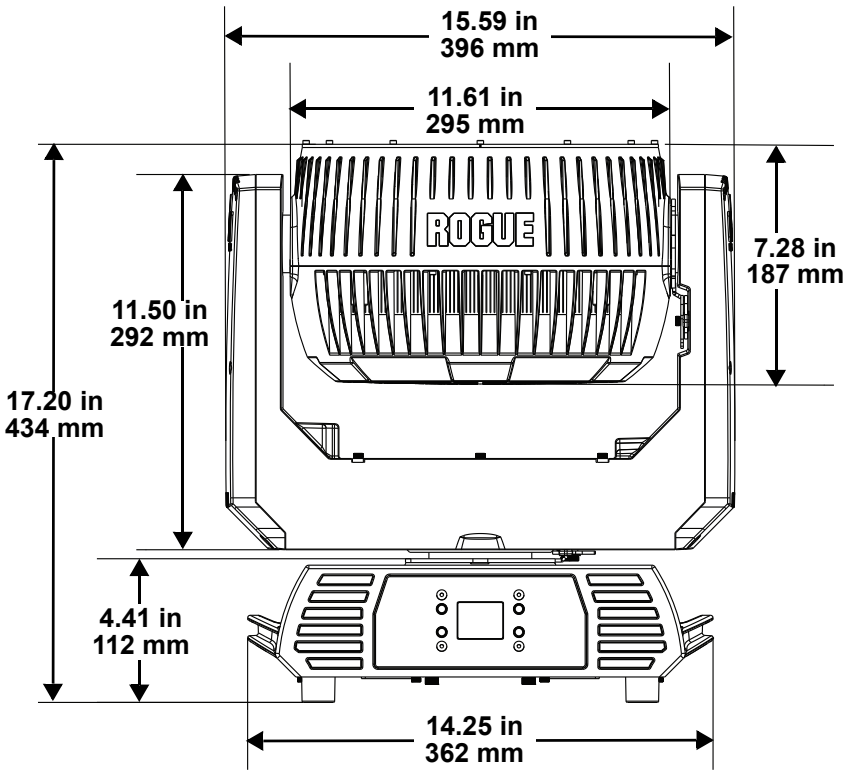
Product Overview



#	Name	#	Name
1	Menu buttons	**6**	5-pin DMX in
2	OLED display	**7**	5-pin DMX out
3	Carrying handles	**8**	Fuse holder
4	USB port	**9**	Seetronic power out
5	Condensation valve	**10**	Seetronic power in

Product Dimensions





3. Setup

AC Power

The Rogue Outcast 3X Wash has an auto-ranging power supply and it can work with an input voltage range of 100 to 240 VAC, 50/60 Hz.

To determine the product's power requirements (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or refer to the product's specifications chart. The listed current rating indicates the product's average current draw under normal conditions.

- **Always connect the product to a protected circuit (a circuit breaker or fuse). Ensure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.**
- **To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.**

Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

AC Plug

The Rogue Outcast 3X Wash comes with a power input cable terminated with a Seetronic Powerkon A connector on one end and an Edison plug on the other end (U.S. market). If the power cable that came with the product has no plug, or if it is necessary to change the plug, use the table below to wire a plug.

Connection	Wire (U.S.)	Wire (Europe)	Screw Color
AC Live	Black	Brown	Yellow or Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

Fuse Replacement

1. Disconnect this product from the power outlet.
2. Using a flat-head screwdriver, unscrew the fuse holder cap from the housing.
3. Remove the blown fuse and replace with another fuse of the same type and rating (T/F 12 A, 250 V).
4. Screw the fuse holder cap back in place and reconnect power.

Power Linking

It is possible to power link Rogue Outcast 3X Wash products. See the table below for the current draw at each voltage and frequency:

	100 V, 60 Hz	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz	240 V, 50 Hz
Current Draw	7.27 A	5.98 A	3.40 A	3.07 A	2.95 A

Never exceed 12 A on a single circuit. Power-linking cables can be purchased separately.

DMX Linking

The Rogue Outcast 3X Wash can be linked to a DMX controller using a 5-pin DMX connection. If using other DMX-compatible products with this product, it's possible to control each individually with a single DMX controller.

DMX Personalities

The Rogue Outcast 3X Wash uses a 5-pin DMX data connection for its four DMX personalities, ranging from **21CH** to **107CH**.

- Refer to the Operation chapter to learn how to configure the Rogue Outcast 3X Wash to work in these personalities.
- The Control Channel Assignments and Values section provides detailed information regarding the DMX personalities.

For information about DMX standards, Master/Slave connectivity, or the DMX cables needed to link this product to a DMX controller, download the DMX Primer from the Chauvet website: www.chauvetprofessional.com.

Remote Device Management

Remote Device Management (RDM) is a standard for allowing DMX-enabled devices to communicate bi-directionally along existing DMX cabling. Check the DMX controller's User Manual or with the manufacturer as not all DMX controllers have this capability. The Rogue Outcast 3X Wash supports RDM protocol that allows feedback to make changes to menu map options.

Master/Slave Connectivity

The Master/Slave mode allows an Rogue Outcast 3X Wash (the master) to control one or more Rogue Outcast 3X Wash products (the slaves) without a DMX controller. One Rogue Outcast 3X Wash becomes the master when running an auto program or in Static mode.

Each slave's control panel must be configured to operate in Slave mode. During Master/Slave operation, the slaves will operate in unison with the master.

DO NOT connect a DMX controller to products operating in Master/Slave mode. The DMX controller signals may interfere with the signals from the master.

- **The Operation section of this manual provides detailed instructions on how to configure the master and slaves.**
- **For more information about DMX standards or the DMX cables needed to link this product to a DMX controller, download the DMX primer from the Chauvet website: www.chauvetprofessional.com.**

Mounting

Before mounting the product, read and follow the safety recommendations indicated in the Safety Notes.

Orientation

Always mount this product in a safe position, making sure there is adequate room for ventilation, configuration, and maintenance.

Rigging

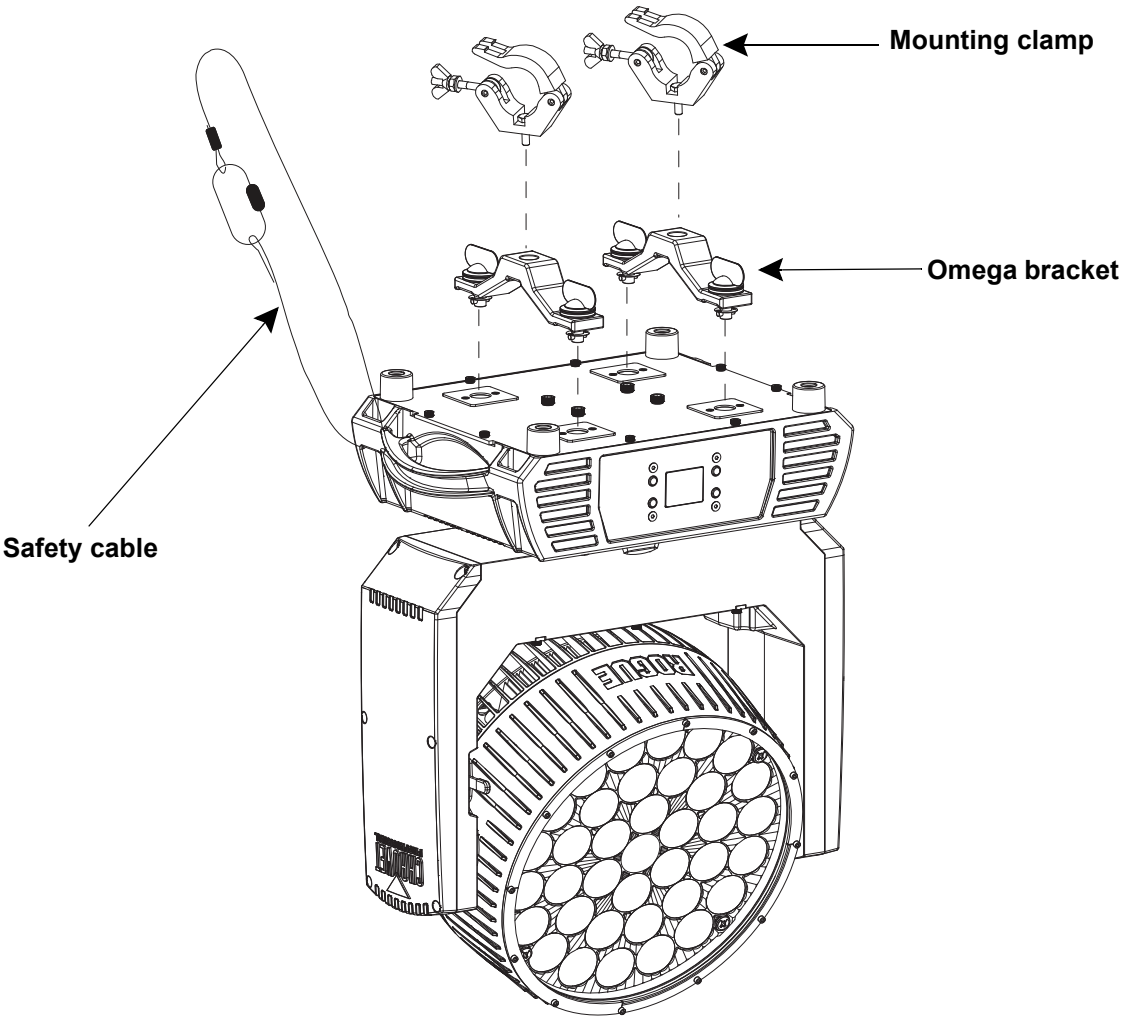
Chauvet recommends using the following general guidelines when mounting this product.

- Before deciding on a location for the product, make sure there is easy access to the product for maintenance and programming purposes.
- Make sure that the structure and attachment points can support the weight before hanging the product (see the Technical Specifications for weight information).
- When mounting the product overhead, always use a safety cable. Mount the product securely to a rigging point, whether an elevated platform or a truss.
- When rigging the product onto a truss, use a mounting clamp of appropriate weight capacity.
- When power linking multiple products, mount the products close enough for power-linking cables to reach.

Procedure

The Rogue Outcast 3X Wash comes with a two 140D Omega brackets. The user can directly attach a mounting clamp (sold separately) to this Omega bracket. Make sure the clamp is capable of supporting the weight of this product. For the Chauvet Professional line of mounting clamps, go to http://www.trusst.com/products.

Mounting Diagram



USB Software Update

The Rogue Outcast 3X Wash allows for software update through USB using the built-in USB port. To update the software using a USB type C flash drive, do the following:

1. Power on the fixture and plug the flash drive into the USB port.
2. Once the flash drive has been detected, the message "**USB UPDATE**" will be displayed. Select **YES**.
3. The next screen will show the software versions available for this fixture on the USB drive. For multiple versions of the software for the same fixture, use <**UP**> or <**DOWN**> to select the desired version. Press <**ENTER**>.
4. The "**USB UPDATE**" screen will re-appear. Select <**YES**>
5. The upgrade will start. **DO NOT** turn off the power or disconnect the USB while the USB LED is still blinking during the process. The screen display will read: "**USB UPDATE WAIT**". USB update can take several minutes to complete.

When the USB stops blinking, all the motors will power down and the display will go blank. DO NOT turn off the power. The fixture will automatically reboot when the update is done.

6. Go to the Fixture Information on the product's menu map and confirm the firmware revision
7. When the boot-up process is finished, restart the product.

- **Place the .chl file in the root directory of the USB drive.**
- **The product's USB port supports up to 32GB capacity and only works with FAT32 file format.**

Turning off the power or removing the USB while still blinking during the update will cause partial or total firmware failure in the targeted fixture(s). If this occurs, the user will need the UPLOAD 08 device to fix this. Please contact Chauvet regarding this device.

4. Operation

Control Panel Description

Button	Function
<MENU>	Exits from the current menu or function
<UP>	Enables the currently displayed menu or sets the currently selected value in to the current function
<DOWN>	Navigates upward through the menu list or increases the numeric value when in a function
<ENTER>	Navigates downward through the menu list or decreases the numeric value when in a function

Control Options

Set the Rogue Outcast 3X Wash starting address in the **001–512** DMX range.

Programming

Refer to the Menu Map to understand the menu options. The menu map shows the main level and a variable number of programming levels for each option.

- To go to the desired main level, press **<MENU>** repeatedly until the option shows on the display. Press **<ENTER>** to select. This will take you to the first programming level for that option.
- To select an option or value within the current programming level, press **<UP>** or **<DOWN>** until the option shows on the display. Press **<ENTER>** to select. In this case, if there is another programming level, you will see that first option, or you will see the selected value.
- Press **<MENU>** repeatedly to exit to the previous main level.

Menu Map

Main Level	Programming Levels				Description
Address	**001–512**				Sets the starting address
Run Mode	**DMX**	**21 CH**			Selects the DMX personality
		27 CH			
		62 CH			
		71 CH			
		107 CH			
	Auto Test				Auto test all functions
	Manual Test	**Crossfade (sec)**	**0000–1200**		Sets playback speed in seconds
		Hold time (sec)	**0000–1200**		Sets time between playback in seconds
		Step 1	**Clear**	**NO**	Resets Step 1 manual values
				YES	
			Delete	**NO**	Removes Step 1 from playback
				YES	
			Pan	**000–255**	Manually control and test all settings through the control panel
			Tilt		
			Dimmer		
			Shutter		
			Red1		
			Green1		
			Blue1		
			White1		
			Red2		
			Green2		
			Blue2		
			White2		
			Red3		
			Green3		
			Blue3		

Main Level	Programming Levels				Description
Run Mode (cont.)	Manual Test (cont.)	Step 1 (cont.)	White3	000–255	Manually control and test all settings through the control panel
			Red4		
			Green4		
			Blue4		
			White4		
			Red5		
			Green5		
			Blue5		
			White5		
			Red6		
			Green6		
			Blue6		
			White6		
			Red7		
			Green7		
			Blue7		
			White7		
			Red8		
			Green8		
			Blue8		
			White8		
			Red9		
			Green9		
			Blue9		
			White9		
			Zoom		
		Step 2	Clear	NO	Resets Step 2 manual values
				YES	
			Delete	NO	Removes Step 2 from playback
				YES	
			Pan	000–255	Manually control and test all settings through the control panel
			Tilt		
			Dimmer		
			Shutter		
			Red1		
			Green1		
			Blue1		
			White1		
			Red2		
			Green2		
			Blue2		
			White2		
			Red3		
			Green3		
			Blue3		
			White3		
			Red4		
			Green4		
			Blue4		
			White4		
			Red5		

Main Level	Programming Levels				Description
Run Mode (cont.)	Manual Test (cont.)	Step 2 (cont.)	Green5	000–255	Manually control and test all settings through the control panel
			Blue5		
			White5		
			Red6		
			Green6		
			Blue6		
			White6		
			Red7		
			Green7		
			Blue7		
			White7		
			Red8		
			Green8		
			Blue8		
			White8		
			Red9		
			Green9		
			Blue9		
			White9		
			Zoom		
Setup	Pan Reverse		OFF		Normal pan
			ON		Reversed pan
	Tilt Reverse		OFF		Normal tilt
			ON		Reversed tilt
	Pan Angle		540		540° pan range
			360		360° pan range
			180		180° pan range
	Tilt Angle		260		260° tilt range
			180		180° tilt range
			90		90° tilt range
	Fans		Auto		Fan speed according to product temperature
			Full		Fan speed set on high
			ECO		Quiet mode
	Display		OFF		Display turns off
			ON		Display stays on
	Screen Rev		OFF		Normal display
			ON		Inverted display
	Dimmer Curve		Linear		Set the dimmer curve
			Square		
			I Squa		
			SCurve		
	Dimmer Speed		Smooth		Smooth dimmer speed
			Fast		Fast dimmer speed
	PWM Option		600Hz		Sets the PWM frequency
			1200Hz		
			2000Hz		
			4000Hz		
			6000Hz		
			15000Hz		

Main Level	Programming Levels				Description
Setup (cont.)	**LED R POWER**		**50–100**		Sets red LED power
	LED G POWER				Sets green LED power
	LED B POWER				Sets blue LED power
	LED W POWER				Sets white LED power
	White Mode	**On**			Calibrates white to 7500K
		Off			Uses maximum output values
		Custom	**RED**	**000–255**	Sets red LED maximum value
			GREEN		Sets green LED maximum value
			BLUE		Sets blue LED maximum value
			WHITE		Sets white LED maximum value
	Color Calibration	**On**			Uses factory default settings
		Off			Sets all colors to maximum output
		Custom	**RED**	**100–255**	Sets red LED maximum value
			GREEN		Sets green LED maximum value
			BLUE		Sets blue LED maximum value
	USB Update		**NO**		Disables software update through USB-C
			YES		Enables software update through USB-C
	Reset Function	**Pan/Tilt**	**NO**		Reset individual functions or all functions from start-up
			YES		
		Zoom	**NO**		
			YES		
		All	**NO**		
			YES		
	Factory Reset		**Yes**		Reset to factory default settings
			No		
Sys Info	**Ver**				Shows firmware version
	Running Mode				Shows current running mode
	DMX Address				Shows current starting address
	Temperature				Shows current product temperature in °C
	Fixture Time				Shows number of hours product has been powered on
	UID				Shows product UID
	Head Fan1				Shows head fan 1 information
	Head Fan2				Shows head fan 2 information
	Base Fan1				Shows base fan 1 information
	Base Fan1				Shows base fan 2 information
	XFAN1				Shows XFAN1 information

DMX Configuration

Use control configurations to operate the product with a DMX controller.

DMX Personalities

To set the DMX personality:

1. Go to the **DMX Channel** main level.
2. Select the desired personality, from **21Ch**, **27Ch**, **62Ch**, **71Ch**, or **107Ch**.

- **See the Starting Address section for the highest selectable starting address for each personality.**
- **Make sure that the starting addresses on the various products do not overlap due to the new personality setting.**

Starting Address

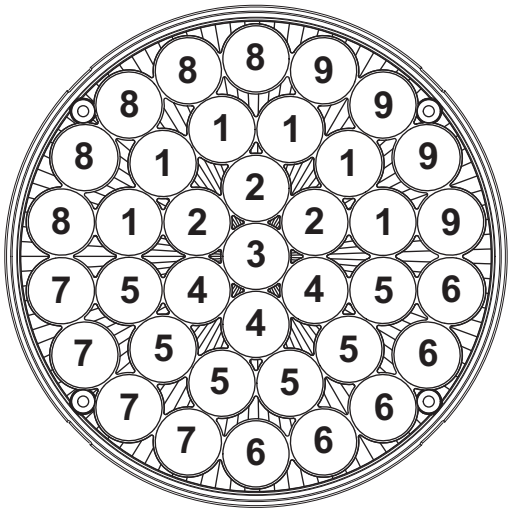
Each product will respond to a unique starting address from the controller. All products with the same starting address will respond in unison. To set the starting address in DMX mode:

1. Go to the **DMX Address** main level.
2. Select the starting address (**001–512**).

Personality	Highest Address
21Ch	492
27Ch	486
62Ch	451
71Ch	442
107Ch	406

Control Channel Assignments and Values

Zones for DMX Control



DMX Values

107CH	Function	Value	Percent/Setting
1	Pan	000 ⇔ 255	0–100%
2	Fine Pan	000 ⇔ 255	Fine control (16-bit)
3	Tilt	000 ⇔ 255	0–100%
4	Fine Tilt	000 ⇔ 255	Fine control (16-bit)
5	Pan/Tilt Speed	000 ⇔ 255	Fast to slow
6	Dimmer	000 ⇔ 255	0–100%
7	Fine Dimmer	000 ⇔ 255	Fine control (16-bit)
8	Shutter	000 ⇔ 019	Closed
		020 ⇔ 024	Open
		025 ⇔ 064	Strobe 1 with decreasing speed
		065 ⇔ 069	Open
		070 ⇔ 084	Strobe 2 (fast on slow off) with decreasing speed
		085 ⇔ 089	Open
		090 ⇔ 104	Strobe 3 (slow on fast off) with decreasing speed
		105 ⇔ 109	Open
		110 ⇔ 124	Strobe 4 (random strobe) with decreasing speed
		125 ⇔ 129	Open
		130 ⇔ 144	Strobe 5 (random fast on slow off) with decreasing speed
		145 ⇔ 149	Open
		150 ⇔ 164	Strobe 6 (random slow on fast off) with decreasing speed
		165 ⇔ 169	Open
		170 ⇔ 184	Strobe 7 (pulse strobe) with decreasing speed
		185 ⇔ 189	Open
		190 ⇔ 204	Strobe 8 (random pulse strobe) with decreasing speed
		205 ⇔ 209	Open
		210 ⇔ 224	Strobe 9 (fade on or off) with decreasing speed
		225 ⇔ 229	Open
		230 ⇔ 244	Strobe 10 (pulse strobe) with decreasing speed
		245 ⇔ 255	Open
9	CTC	000	No function
		245 ⇔ 255	10,000K to 2800K

107CH	Function		Value	Percent/Setting
10	Colors		000 ⇔ 255	see Color Chart
11	Gobos		000 ⇔ 255	see Gobo Values
12	LED Built-ins		000 ⇔ 255	see LED Built-ins
13	LED Built-in Speed		000 ⇔ 127 128 129 ⇔ 255	Clockwise, fast to slow Stop Counterclockwise, slow to fast
14	LED Built-in Delay		000 ⇔ 255	Fast to slow
15	Background Color Macros		000 ⇔ 255	see Color Chart
16	Background Color Dimmer		000 ⇔ 255	0–100%
17	Background Color Fine Dimmer		000 ⇔ 255	Fine control (16-bit)
18	Background Red		000 ⇔ 255	0–100%
19	Background Fine Red		000 ⇔ 255	Fine control (16-bit)
20	Background Green		000 ⇔ 255	0–100%
21	Background Fine Green		000 ⇔ 255	Fine control (16-bit)
22	Background Blue		000 ⇔ 255	0–100%
23	Background Fine Blue		000 ⇔ 255	Fine control (16-bit)
24	Background White		000 ⇔ 255	0–100%
25	Background Fine White		000 ⇔ 255	Fine control (16-bit)
26	Zoom		000 ⇔ 255	Narrow to wide
27	Control		000 ⇔ 009 010 ⇔ 014 015 ⇔ 019 020 ⇔ 024 025 ⇔ 029 030 ⇔ 049 050 ⇔ 054 055 ⇔ 059 060 ⇔ 064 065 ⇔ 069 070 ⇔ 074 075 ⇔ 079 080 ⇔ 084 085 ⇔ 089 090 ⇔ 094 095 ⇔ 099 100 ⇔ 104 105 ⇔ 109 110 ⇔ 119 120 ⇔ 124 125 ⇔ 129 130 ⇔ 134 135 ⇔ 139 140 ⇔ 144 145 ⇔ 149 150 ⇔ 154 155 ⇔ 159 160 ⇔ 164 165 ⇔ 169 170 ⇔ 174 175 ⇔ 255	No function Pan/Tilt blackout No function RGBW color mixing (5 sec.) CMY color mixing (5 sec.) No function Pan reset Tilt reset Zoom reset No function Reset all No function Pan/tilt reverse Pan reverse Tilt reverse Cancel pan reverse Cancel tilt reverse Cancel pan/tilt reverse No function Fan low speed Fan full speed Fan auto Dimmer fast mode Dimmer smooth mode Linear curve Square curve I Squa curve S-Curve White mode on White mode off No function
28	Red	Cyan	000 ⇔ 255	0–100% / 100–0%
29	Fine Red	Fine Cyan	000 ⇔ 255	Fine control (16-bit)
30	Green	Magenta	000 ⇔ 255	0–100% / 100–0%

107CH	Function		Value	Percent/Setting
31	Fine Green	Fine Magenta	000 ⇔ 255	Fine control (16-bit)
32	Blue	Yellow	000 ⇔ 255	0–100% / 100–0%
33	Fine Blue	Fine Yellow	000 ⇔ 255	Fine control (16-bit)
34	White		000 ⇔ 255	0–100% / 100–0%
35	Fine White		000 ⇔ 255	Fine control (16-bit)
36	Red 1	Cyan 1	000 ⇔ 255	0–100% / 100–0%
37	Fine Red 1	Fine Cyan 1	000 ⇔ 255	Fine control (16-bit)
38	Green 1	Magenta 1	000 ⇔ 255	0–100% / 100–0%
39	Fine Green 1	Fine Magenta 1	000 ⇔ 255	Fine control (16-bit)
40	Blue 1	Yellow 1	000 ⇔ 255	0–100% / 100–0%
41	Fine Blue 1	Fine Yellow 1	000 ⇔ 255	Fine control (16-bit)
42	White 1		000 ⇔ 255	0–100% / 100–0%
43	Fine White 1		000 ⇔ 255	Fine control (16-bit)
44	Red 2	Cyan 2	000 ⇔ 255	0–100% / 100–0%
45	Fine Red 2	Fine Cyan 2	000 ⇔ 255	Fine control (16-bit)
46	Green 2	Magenta 2	000 ⇔ 255	0–100% / 100–0%
47	Fine Green 2	Fine Magenta 2	000 ⇔ 255	Fine control (16-bit)
48	Blue 2	Yellow 2	000 ⇔ 255	0–100% / 100–0%
49	Fine Blue 2	Fine Yellow 2	000 ⇔ 255	Fine control (16-bit)
50	White 2		000 ⇔ 255	0–100% / 100–0%
51	Fine White 2		000 ⇔ 255	Fine control (16-bit)
52	Red 3	Cyan 3	000 ⇔ 255	0–100% / 100–0%
53	Fine Red 3	Fine Cyan 3	000 ⇔ 255	Fine control (16-bit)
54	Green 3	Magenta 3	000 ⇔ 255	0–100% / 100–0%
55	Fine Green 3	Fine Magenta 3	000 ⇔ 255	Fine control (16-bit)
56	Blue	Yellow 3	000 ⇔ 255	0–100% / 100–0%
57	Fine Blue	Fine Yellow 3	000 ⇔ 255	Fine control (16-bit)
58	White 3		000 ⇔ 255	0–100% / 100–0%
59	Fine White 3		000 ⇔ 255	Fine control (16-bit)
60	Red 4	Cyan 4	000 ⇔ 255	0–100% / 100–0%
61	Fine Red 4	Fine Cyan 4	000 ⇔ 255	Fine control (16-bit)
62	Green 4	Magenta 4	000 ⇔ 255	0–100% / 100–0%
63	Fine Green 4	Fine Magenta 4	000 ⇔ 255	Fine control (16-bit)
64	Blue 4	Yellow 4	000 ⇔ 255	0–100% / 100–0%
65	Fine Blue 4	Fine Yellow 4	000 ⇔ 255	Fine control (16-bit)
66	White 4		000 ⇔ 255	0–100% / 100–0%
67	Fine White 4		000 ⇔ 255	Fine control (16-bit)
68	Red 5	Cyan 5	000 ⇔ 255	0–100% / 100–0%
69	Fine Red 5	Fine Cyan 5	000 ⇔ 255	Fine control (16-bit)
70	Green 5	Magenta 5	000 ⇔ 255	0–100% / 100–0%
71	Fine Green 5	Fine Magenta 5	000 ⇔ 255	Fine control (16-bit)
72	Blue 5	Yellow 5	000 ⇔ 255	0–100% / 100–0%
73	Fine Blue 5	Fine Yellow 5	000 ⇔ 255	Fine control (16-bit)
74	White 5		000 ⇔ 255	0–100% / 100–0%
75	Fine White 5		000 ⇔ 255	Fine control (16-bit)
76	Red 6	Cyan 6	000 ⇔ 255	0–100% / 100–0%
77	Fine Red 6	Fine Cyan 6	000 ⇔ 255	Fine control (16-bit)
78	Green 6	Magenta 6	000 ⇔ 255	0–100% / 100–0%
79	Fine Green 6	Fine Magenta 6	000 ⇔ 255	Fine control (16-bit)
80	Blue 6	Yellow 6	000 ⇔ 255	0–100% / 100–0%
81	Fine Blue 6	Fine Yellow 6	000 ⇔ 255	Fine control (16-bit)
82	White 6		000 ⇔ 255	0–100% / 100–0%
83	Fine White 6		000 ⇔ 255	Fine control (16-bit)

107CH	Function		Value	Percent/Setting
84	Red 7	Cyan 7	000 ⇔ 255	0–100% / 100–0%
85	Fine Red 7	Fine Cyan 7	000 ⇔ 255	Fine control (16-bit)
86	Green 7	Magenta 7	000 ⇔ 255	0–100% / 100–0%
87	Fine Green 7	Fine Magenta 7	000 ⇔ 255	Fine control (16-bit)
88	Blue 7	Yellow 7	000 ⇔ 255	0–100% / 100–0%
89	Fine Blue 7	Fine Yellow 7	000 ⇔ 255	Fine control (16-bit)
90	White 7		000 ⇔ 255	0–100% / 100–0%
91	Fine White 7		000 ⇔ 255	Fine control (16-bit)
92	Red 8	Cyan 8	000 ⇔ 255	0–100% / 100–0%
93	Fine Red 8	Fine Cyan 8	000 ⇔ 255	Fine control (16-bit)
94	Green 8	Magenta 8	000 ⇔ 255	0–100% / 100–0%
95	Fine Green 8	Fine Magenta 8	000 ⇔ 255	Fine control (16-bit)
96	Blue 8	Yellow 8	000 ⇔ 255	0–100% / 100–0%
97	Fine Blue 8	Fine Yellow 8	000 ⇔ 255	Fine control (16-bit)
98	White 8		000 ⇔ 255	0–100% / 100–0%
99	Fine White 8		000 ⇔ 255	Fine control (16-bit)
100	Red 9	Cyan 9	000 ⇔ 255	0–100% / 100–0%
101	Fine Red 9	Fine Cyan 9	000 ⇔ 255	Fine control (16-bit)
102	Green 9	Magenta 9	000 ⇔ 255	0–100% / 100–0%
103	Fine Green 9	Fine Magenta 9	000 ⇔ 255	Fine control (16-bit)
104	Blue 9	Yellow 9	000 ⇔ 255	0–100% / 100–0%
105	Fine Blue 9	Fine Yellow 9	000 ⇔ 255	Fine control (16-bit)
106	White 9		000 ⇔ 255	0–100% / 100–0%
107	Fine White 9		000 ⇔ 255	Fine control (16-bit)

21CH	27CH	62CH	71CH	Function	Value	Percent/Setting
1	1	1	1	Pan	000 ⇔ 255	0–100%
2	2	2	2	Fine Pan	000 ⇔ 255	Fine control (16-bit)
3	3	3	3	Tilt	000 ⇔ 255	0–100%
4	4	4	4	Fine Tilt	000 ⇔ 255	Fine control (16-bit)
5	5	5	5	Pan/Tilt Speed	000 ⇔ 255	Fast to slow
6	6	6	6	Dimmer	000 ⇔ 255	0–100%
–	7	7	7	Fine Dimmer	000 ⇔ 255	Fine control (16-bit)
7	8	8	8	Strobe	000 ⇔ 019	Closed
					020 ⇔ 024	Open
					025 ⇔ 064	Strobe 1 with decreasing speed
					065 ⇔ 069	Open
					070 ⇔ 084	Strobe 2 (fast on slow off) with decreasing speed
					085 ⇔ 089	Open
					090 ⇔ 104	Strobe 3 (slow on fast off) with decreasing speed
					105 ⇔ 109	Open
					110 ⇔ 124	Strobe 4 (random strobe) with decreasing speed
					125 ⇔ 129	Open
					130 ⇔ 144	Strobe 5 (random fast on slow off) with decreasing speed
					145 ⇔ 149	Open
					150 ⇔ 164	Strobe 6 (random slow on fast off) with decreasing speed
					165 ⇔ 169	Open
					170 ⇔ 184	Strobe 7 (pulse strobe) with decreasing speed
					185 ⇔ 189	Open
					190 ⇔ 204	Strobe 8 (random pulse strobe) with decreasing speed
					205 ⇔ 209	Open
					210 ⇔ 224	Strobe 9 (fade on or off) with decreasing speed
					225 ⇔ 229	Open
					230 ⇔ 244	Strobe 10 (pulse strobe) with decreasing speed
					245 ⇔ 255	Open
8	9	9	9	CTC	000	No function
					245 ⇔ 255	10,000K to 2800K
9	10	10	10	Colors	000 ⇔ 255	see Color Chart
10	11	11	11	Gobos	000 ⇔ 255	see Gobo Values
11	12	12	12	LED Built-ins	000 ⇔ 255	see LED Built-ins
12	13	13	13	LED Built-in Speed	000 ⇔ 127	Clockwise, fast to slow
					128	Stop
					129 ⇔ 255	Counterclockwise, slow to fast
13	14	14	14	LED Built-in Delay	000 ⇔ 255	Fast to slow
14	15	15	15	Background Color Macros	000 ⇔ 255	see Color Chart
15	16	16	16	Background Color Dimmer	000 ⇔ 255	0–100%
–	17	–	–	Background Color Fine Dimmer	000 ⇔ 255	Fine control (16-bit)

21CH	27CH	62CH	71CH	Function		Value	Percent/Setting
–	–	17	17	Background Red		000 ⇔ 255	0–100%
–	–	18	18	Background Green		000 ⇔ 255	0–100%
–	–	19	19	Background Blue		000 ⇔ 255	0–100%
–	–	20	20	Background White		000 ⇔ 255	0–100%
16	18	21	21	Zoom		000 ⇔ 255	Narrow to wide
17	19	22	22	Control		000 ⇔ 009	No function
						010 ⇔ 014	Pan/Tilt blackout
						015 ⇔ 019	No function
						020 ⇔ 024	RGBW color mixing (5 sec.)
						025 ⇔ 029	CMY color mixing (5 sec.)
						030 ⇔ 049	No function
						050 ⇔ 054	Pan reset
						055 ⇔ 059	Tilt reset
						060 ⇔ 064	Zoom reset
						065 ⇔ 069	No function
						070 ⇔ 074	Reset all
						075 ⇔ 079	No function
						080 ⇔ 084	Pan/tilt reverse
						085 ⇔ 089	Pan reverse
						090 ⇔ 094	Tilt reverse
						095 ⇔ 099	Cancel pan reverse
						100 ⇔ 104	Cancel tilt reverse
						105 ⇔ 109	Cancel pan/tilt reverse
						110 ⇔ 119	No function
						120 ⇔ 124	Fan low speed
						125 ⇔ 129	Fan full speed
						130 ⇔ 134	Fan auto
						135 ⇔ 139	Dimmer fast mode
						140 ⇔ 144	Dimmer smooth mode
						145 ⇔ 149	Linear curve
						150 ⇔ 154	Square curve
						155 ⇔ 159	I Squa curve
						160 ⇔ 164	S-Curve
						165 ⇔ 169	White mode on
						170 ⇔ 174	White mode off
						175 ⇔ 255	No function
18	20	23	23	Red	Cyan	000 ⇔ 255	0–100% / 100–0%
–	21	–	–	Fine Red	Fine Cyan	000 ⇔ 255	Fine control (16-bit)
19	22	24	24	Green	Magenta	000 ⇔ 255	0–100% / 100–0%
–	23	–	–	Fine Green	Fine Magenta	000 ⇔ 255	Fine control (16-bit)
20	24	25	25	Blue	Yellow	000 ⇔ 255	0–100% / 100–0%
–	25	–	–	Fine Blue	Yellow	000 ⇔ 255	Fine control (16-bit)
21	26	26	26	White		000 ⇔ 255	0–100%
–	27	–	–	Fine White		000 ⇔ 255	Fine control (16-bit)
–	–	–	27	Dimmer 1		000 ⇔ 255	0–100%
–	–	27	28	Red 1	Cyan 1	000 ⇔ 255	0–100% / 100–0%
–	–	28	29	Green 1	Magenta 1	000 ⇔ 255	0–100% / 100–0%
–	–	29	30	Blue 1	Yellow 1	000 ⇔ 255	0–100% / 100–0%

21CH	27CH	62CH	71CH	Function		Value	Percent/Setting
–	–	30	31	White 1		000 ⇔ 255	0–100%
–	–	–	32	Dimmer 2		000 ⇔ 255	0–100%
–	–	31	33	Red 2	Cyan 2	000 ⇔ 255	0–100% / 100–0%
–	–	32	34	Green 2	Magenta 2	000 ⇔ 255	0–100% / 100–0%
–	–	33	35	Blue 2	Yellow 2	000 ⇔ 255	0–100% / 100–0%
–	–	34	36	White 2		000 ⇔ 255	0–100%
–	–	–	37	Dimmer 3		000 ⇔ 255	0–100%
–	–	35	38	Red 3	Cyan 3	000 ⇔ 255	0–100% / 100–0%
–	–	36	39	Green 3	Magenta 3	000 ⇔ 255	0–100% / 100–0%
–	–	37	40	Blue 3	Yellow 3	000 ⇔ 255	0–100% / 100–0%
–	–	38	41	White 3		000 ⇔ 255	0–100%
–	–	–	42	Dimmer 4		000 ⇔ 255	0–100%
–	–	39	43	Red 4	Cyan 4	000 ⇔ 255	0–100% / 100–0%
–	–	40	44	Green 4	Magenta 4	000 ⇔ 255	0–100% / 100–0%
–	–	41	45	Blue 4	Yellow 4	000 ⇔ 255	0–100% / 100–0%
–	–	42	46	White 4		000 ⇔ 255	0–100%
–	–	–	47	Dimmer 5		000 ⇔ 255	0–100%
–	–	43	48	Red 5	Cyan 5	000 ⇔ 255	0–100% / 100–0%
–	–	44	49	Green 5	Magenta 5	000 ⇔ 255	0–100% / 100–0%
–	–	45	50	Blue 5	Yellow 5	000 ⇔ 255	0–100% / 100–0%
–	–	46	51	White 5		000 ⇔ 255	0–100%
–	–	–	52	Dimmer 6		000 ⇔ 255	0–100%
–	–	47	53	Red 6	Cyan 6	000 ⇔ 255	0–100% / 100–0%
–	–	48	54	Green 6	Magenta 6	000 ⇔ 255	0–100% / 100–0%
–	–	49	55	Blue 6	Yellow 6	000 ⇔ 255	0–100% / 100–0%
–	–	50	56	White 6		000 ⇔ 255	0–100%
–	–	–	57	Dimmer 7		000 ⇔ 255	0–100%
–	–	51	58	Red 7	Cyan 7	000 ⇔ 255	0–100% / 100–0%
–	–	52	59	Green 7	Magenta 7	000 ⇔ 255	0–100% / 100–0%
–	–	53	60	Blue 7	Yellow 7	000 ⇔ 255	0–100% / 100–0%
–	–	54	61	White 7		000 ⇔ 255	0–100%
–	–	–	62	Dimmer 8		000 ⇔ 255	0–100%
–	–	55	63	Red 8	Cyan 8	000 ⇔ 255	0–100% / 100–0%
–	–	56	64	Green 8	Magenta 8	000 ⇔ 255	0–100% / 100–0%
–	–	57	65	Blue 8	Yellow 8	000 ⇔ 255	0–100% / 100–0%
–	–	58	66	White 8		000 ⇔ 255	0–100%
–	–	–	67	Dimmer 9		000 ⇔ 255	0–100%
–	–	59	68	Red 9	Cyan 9	000 ⇔ 255	0–100% / 100–0%
–	–	60	69	Green 9	Magenta 9	000 ⇔ 255	0–100% / 100–0%
–	–	61	70	Blue 9	Yellow 9	000 ⇔ 255	0–100% / 100–0%
–	–	62	71	White 9		000 ⇔ 255	0–100%

Color Chart

DMX Value	Percent/Setting	Red Value	Green Value	Blue Value	White Value
000	**No function**	000	000	000	000
001 ⇔ 002	**White 2700K**	156	118	000	063
003 ⇔ 004	**White 3200K**	156	141	005	089
005 ⇔ 006	**White 4200K**	156	141	014	255
007 ⇔ 008	**White 5600K**	156	207	054	255
009 ⇔ 010	**White 8000K**	130	255	096	255
011	**Blue**	000	000	255	000
012 ⇔ 048		000	+	255	000
049	**Cyan**	000	255	255	000
050 ⇔ 086		000	255	-	000
087	**Green**	000	255	000	000
088 ⇔ 124		+	255	000	000
125	**Yellow**	255	255	000	000
126 ⇔ 162		255	-	000	000
163	**Red**	255	000	000	000
164 ⇔ 200		255	000	+	000
201	**Magenta**	255	000	255	000
202 ⇔ 238		-	000	255	000
239	**Blue**	000	000	255	000
240 ⇔ 247	**Color fade, fast to slow**	Various	Various	Various	Various
248 ⇔ 255	**Color snap, fast to slow**	Various	Various	Various	Various

Gobo Values

Values	Gobo	Values	Gobo	Values	Gobo
000 ⇔ 003	No function	**088 ⇔ 090**	Gobo 28	**172 ⇔ 174**	Gobo 56
004 ⇔ 006	Gobo 1	**091 ⇔ 093**	Gobo 29	**175 ⇔ 177**	Gobo 57
007 ⇔ 009	Gobo 2	**094 ⇔ 096**	Gobo 30	**178 ⇔ 180**	Gobo 58
010 ⇔ 012	Gobo 3	**097 ⇔ 099**	Gobo 31	**181 ⇔ 183**	Gobo 59
013 ⇔ 015	Gobo 4	**100 ⇔ 102**	Gobo 32	**184 ⇔ 186**	Gobo 60
016 ⇔ 018	Gobo 5	**103 ⇔ 105**	Gobo 33	**187 ⇔ 189**	Gobo 61
019 ⇔ 021	Gobo 6	**106 ⇔ 108**	Gobo 34	**190 ⇔ 192**	Gobo 62
022 ⇔ 024	Gobo 7	**109 ⇔ 111**	Gobo 35	**193 ⇔ 195**	Gobo 63
025 ⇔ 027	Gobo 8	**112 ⇔ 114**	Gobo 36	**196 ⇔ 198**	Gobo 64
028 ⇔ 030	Gobo 9	**115 ⇔ 117**	Gobo 37	**199 ⇔ 201**	Gobo 65
031 ⇔ 033	Gobo 10	**118 ⇔ 120**	Gobo 38	**202 ⇔ 204**	Gobo 66
034 ⇔ 036	Gobo 11	**121 ⇔ 123**	Gobo 39	**205 ⇔ 207**	Gobo 67
037 ⇔ 039	Gobo 12	**124 ⇔ 126**	Gobo 40	**208 ⇔ 210**	Gobo 68
040 ⇔ 042	Gobo 13	**127 ⇔ 129**	Gobo 41	**211 ⇔ 213**	Gobo 69
043 ⇔ 045	Gobo 14	**130 ⇔ 132**	Gobo 42	**214 ⇔ 216**	Gobo 70
046 ⇔ 048	Gobo 15	**133 ⇔ 135**	Gobo 43	**217 ⇔ 219**	Gobo 71
049 ⇔ 051	Gobo 16	**136 ⇔ 138**	Gobo 44	**220 ⇔ 222**	Gobo 72
052 ⇔ 054	Gobo 17	**139 ⇔ 141**	Gobo 45	**223 ⇔ 225**	Gobo 73
055 ⇔ 057	Gobo 18	**142 ⇔ 144**	Gobo 46	**226 ⇔ 228**	Gobo 74
058 ⇔ 060	Gobo 19	**145 ⇔ 147**	Gobo 47	**229 ⇔ 231**	Gobo 75
061 ⇔ 063	Gobo 20	**148 ⇔ 150**	Gobo 48	**232 ⇔ 234**	Gobo 76
067 ⇔ 069	Gobo 21	**151 ⇔ 153**	Gobo 49	**235 ⇔ 237**	Gobo 77
070 ⇔ 072	Gobo 22	**154 ⇔ 156**	Gobo 50	**238 ⇔ 240**	Gobo 78
073 ⇔ 075	Gobo 23	**157 ⇔ 159**	Gobo 51	**241 ⇔ 243**	Gobo 79
076 ⇔ 078	Gobo 24	**160 ⇔ 162**	Gobo 52	**244 ⇔ 246**	Gobo 80
079 ⇔ 081	Gobo 25	**163 ⇔ 165**	Gobo 53	**247 ⇔ 249**	Gobo 81
082 ⇔ 084	Gobo 26	**166 ⇔ 168**	Gobo 54	**250 ⇔ 252**	Gobo 82
085 ⇔ 087	Gobo 27	**169 ⇔ 171**	Gobo 55	**253 ⇔ 255**	Gobo 83

LED Built-ins

Values	LED Built-in (color controllable)	Values	LED Built-ins (auto color)
000 ⇔ 015	No function	**136 ⇔ 137**	Built-in 37
016 ⇔ 017	Built-in 1	**138 ⇔ 139**	Built-in 38
018 ⇔ 019	Built-in 2	**140 ⇔ 141**	Built-in 39
020 ⇔ 021	Built-in 3	**142 ⇔ 143**	Built-in 40
022 ⇔ 023	Built-in 4	**144 ⇔ 145**	Built-in 41
024 ⇔ 025	Built-in 5	**146 ⇔ 147**	Built-in 42
026 ⇔ 027	Built-in 6	**148 ⇔ 149**	Built-in 43
028 ⇔ 029	Built-in 7	**150 ⇔ 151**	Built-in 44
030 ⇔ 031	Built-in 8	**152 ⇔ 153**	Built-in 45
032 ⇔ 033	Built-in 9	**154 ⇔ 155**	Built-in 46
034 ⇔ 035	Built-in 10	**156 ⇔ 157**	Built-in 47
036 ⇔ 037	Built-in 11	**158 ⇔ 159**	Built-in 48
038 ⇔ 039	Built-in 12	**160 ⇔ 161**	Built-in 49
040 ⇔ 041	Built-in 13	**162 ⇔ 163**	Built-in 50
042 ⇔ 043	Built-in 14	**164 ⇔ 165**	Built-in 51
044 ⇔ 045	Built-in 15	**166 ⇔ 167**	Built-in 52
046 ⇔ 047	Built-in 16	**168 ⇔ 169**	Built-in 53
048 ⇔ 049	Built-in 17	**170 ⇔ 171**	Built-in 54
050 ⇔ 051	Built-in 18	**172 ⇔ 173**	Built-in 55
052 ⇔ 053	Built-in 19	**174 ⇔ 175**	Built-in 56
054 ⇔ 055	Built-in 20	**176 ⇔ 177**	Built-in 57
056 ⇔ 057	Built-in 21	**178 ⇔ 179**	Built-in 58
058 ⇔ 059	Built-in 22	**180 ⇔ 181**	Built-in 59
060 ⇔ 061	Built-in 23	**182 ⇔ 183**	Built-in 60
062 ⇔ 063	Built-in 24	**184 ⇔ 185**	Built-in 61
064 ⇔ 065	Built-in 25	**186 ⇔ 187**	Built-in 62
066 ⇔ 067	Built-in 26	**188 ⇔ 189**	Built-in 63
068 ⇔ 069	Built-in 27	**190 ⇔ 191**	Built-in 64
070 ⇔ 071	Built-in 28	**192 ⇔ 193**	Built-in 65
072 ⇔ 073	Built-in 29	**194 ⇔ 195**	Built-in 66
074 ⇔ 075	Built-in 30	**196 ⇔ 197**	Built-in 67
076 ⇔ 077	Built-in 31	**198 ⇔ 199**	Built-in 68
078 ⇔ 079	Built-in 32	**200 ⇔ 201**	Built-in 69
080 ⇔ 081	Built-in 33	**202 ⇔ 203**	Built-in 70
082 ⇔ 083	Built-in 34	**204 ⇔ 205**	Built-in 71
084 ⇔ 085	Built-in 35	**206 ⇔ 255**	Built-in 72 (main)
086 ⇔ 135	Built-in 36 (main)		

Test Mode

Auto Test

To have the Rogue Outcast 3X Wash automatically test all functions one after the other:

1. Go to the **Run Mode** main level.
2. Select the **Auto Test** option.

Manual Test

To manually test an individual function of the Rogue Outcast 3X Wash:

1. Go to the **Run Mode** main level.
2. Select the **Manual Test** option.
3. Select a function to test, from **Pan**, **Tilt**, **Dimmer**, **Shutter**, **Red1–9**, **Green1–9**, **Blue1–9**, **White1–9**, or **Zoom**.
4. Increase or decrease the value of the selected function from **000–255** to test it.

Settings Configuration

Pan Reverse

To set the orientation of the pan:

1. Go to the **Setup** main level.
2. Select the **Pan Reverse** option.
3. Select from **OFF** (normal pan motion), or **ON** (reversed pan motion).

Tilt Reverse

To set the orientation of the tilt:

1. Go to the **Setup** main level.
2. Select the **Tilt Reverse** option.
3. Select from **OFF** (normal tilt motion), or **ON** (reversed tilt motion).

Pan Angle

To set the maximum angle of the pan:

1. Go to the **Setup** main level.
2. Select the **Pan Angle** option.
3. Select from **540** (540°), **360** (360°), or **180** (180°).

Tilt Angle

To set the maximum angle of the tilt:

1. Go to the **Setup** main level.
2. Select the **Tilt Angle** option.
3. Select from **260** (260°), **180** (180°), or **90** (90°).

Fan Mode

To set the fan speed mode:

1. Go to the **Setup** main level.
2. Select the **Fans** option.
3. Select the fan mode, from **Auto** (fan speed adjusts to product temperature), **ECO** (quiet mode), or **Full** (fan speed at maximum).

Display Backlight

To set whether an inactive display will turn off:

1. Go to the **Setup** main level.
2. Select the **Display** option.
3. Select **OFF** (turns off when inactive) or **ON** (always on).

Screen Reverse

To set the orientation of the display:

1. Go to the **Setup** main level.
2. Select the **Screen Rev** option.
3. Select from **OFF** (right-side up) or **ON** (upside-down).

Dimmer Curve

To set the dimmer curve:

1. Go to the **Setup** main level.
2. Select the **Dimmer Curve** option.
3. Select the dimmer curve, from **Linear**, **Square**, **I Squa**, or **SCurve**.

Dimmer Speed

To set the dimmer speed mode:

1. Go to the **Setup** main level.
2. Select the **Dimmer Speed** option.
3. Select the dimmer curve, from **Smooth** or **Fast**.

Pulse-Width Modulation Options

To set the PWM frequency:

1. Go to the **Setup** main level.
2. Select the **PWM Option** option.
3. Select the frequency, from **600Hz**, **1200Hz**, **2000Hz**, **4000Hz**, **6000Hz**, or **15000Hz**.

White Mode

To turn the White Mode on or off, or edit the balance of the White Mode:

1. Go to the **Setup** main level.
2. Select the **White Mode** option.
3. Select **On** (to calibrate the color temperature to 7500K), **Off** (to sets all colors to maximum output), or **Custom** (to customize the White Mode).
4. If **Custom** was selected, then select which color to edit, from **RED**, **GREEN**, **BLUE**, or **WHITE**.
5. Increase or decrease the maximum output level of the selected color, from **000–255**.

Color Calibration

To alter the color calibration settings:

1. Go to the **Setup** main level.
2. Select the **Color Calibration** option.
3. Select the calibration mode, from **On** (Uses factory default settings), **Off** (Sets all colors to maximum output), or **Custom** (To set a custom white balance).
4. If **Custom** was selected, then select which color to edit, from **RED**, **GREEN**, or **BLUE**.
5. Increase or decrease the maximum output level of the selected color, from **100–255**.

USB Update

To enable or disable software update using USB:

1. Go to the **Setup** main level.
2. Select the **USB Update**.
3. Select **NO** (to disable software update through USB) or **YES** (to enable software update through USB).

See the USB Software Update section for the detailed instructions on how to update the Rogue Outcast 3X Wash software using a USB-C connection.

Reset Function

To reset specific functions or the entire product:

1. Go to the **Setup** main level.
2. Select the **Reset Function** option.
3. Select the functions to reset, from **Pan/Tilt**, **Zoom**, or **All**.
4. Select **NO** (to cancel) or **YES** (to reset the selected functions).

Factory Reset

To reset the product to factory settings:

1. Go to the **Setup** main level.
2. Select the **Factory Set** option.
3. Select **NO** (do not reset) or **YES** (reset).

System Information

The information section of the menu displays statistics and the current status of the product's various functions. To view these information sections:

1. Go to the **Sys Info** main level.
2. Select the **System Information** option.

Zero Adjust Mode

The Offset mode provides fine adjustments for the home position of every moving part in the optical path as well as the pan and tilt movements. To adjust these options and prevent borders showing or reduction of the light output:

1. From the main level screen, press and hold **<MENU>** until the passcode screen appears.
2. Enter the passcode: **2323** and press **<ENTER>**.
3. Select the "zero" position to adjust, from **PAN**, **TILT**, **ZOOM**, **RDM4**, **RDM5**, or **RDM6**.
4. Adjust the "zero" position for the selected function from **000–255**.

Error Codes

See the table below for error codes and recommended solutions:

Error Code	Possible Reason	Potential Solution
Base Fan1	Base Fan 1 is damaged	Replace base fan 1
	Fan wires have poor connection	Check fan wire connection
CPU-B	The pan/tilt driver PCB is damaged	Replace the pan/tilt driver board
	CPU-B software upload failed	Re-upload the CPU-B software
CPU-C	The gobo/color motor driver PCB is damaged	Replace the gobo/color motor driver PCB
	CPU-C software upload failed	Re-upload the CPU-C software
CPU-D	The zoom/focus motor driver PCB is damaged	Replace the zoom/focus motor driver PCB
	CPU-D software upload failed	Re-upload the CPU-D software
CPU-E	The CMY motor driver PCB is damaged	Replace the CMY motor driver PCB
	CPU-E software upload failed	Re-upload the CPU-E software
Head Fan1	Head Fan 1 is damaged	Replace head fan 1
	Fan wires have poor connection	Check fan wire connection
Head Fan2	Head Fan 2 is damaged	Replace head fan 2
	Fan wires have poor connection	Check fan wire connection
Lamp Hot	Lamp overheated	Factory reset
		Update software
		Check connection of head to base
		Replace lamp
Thermistor Open	Bad thermistor	Factory reset
		Update software
		Check connection of head to base
		Replace thermistor
Thermistor Hot	Bad thermistor	Factory reset
		Update software
		Check connection of head to base
		Replace thermistor
XFan1	X Fan 1 is damaged	Replace X fan 1
	Fan wires have poor connection	Check fan wire connection
X_cm1 / X_cm2	Pan magnetic locating board is damaged	Replace the pan magnetic locating board
	Pan/tilt driver board is damaged	Replace the pan/tilt driver board
X_op	Pan optocoupler board is damaged	Replace the pan optocoupler board
	Pan/tilt driver board is damaged	Replace the pan/tilt driver board
Y_cm	Tilt magnetic locating board is damaged	Replace the tilt magnetic locating board
	Pan/tilt driver board is damaged	Replace the pan/tilt driver board
Y_op	Tilt optocoupler board is damaged	Replace the tilt optocoupler board
	Pan/tilt driver board is damaged	Replace the pan/tilt driver board

5. Maintenance

Product Maintenance

Dust build-up reduces light output performance and can cause overheating. This can lead to reduction of the light source's life and/or mechanical wear. To maintain optimum performance and minimize wear, clean each lighting product at least twice a month. However, be aware that usage and environmental conditions could be contributing factors to increase the cleaning frequency.

To clean the product, follow the instructions below:

1. Unplug the product from power.
2. Wait until the product is at room temperature.
3. Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external surface/vents.
4. Clean all transparent surfaces with a mild soap solution, ammonia-free glass cleaner, or isopropyl alcohol.
5. Apply the solution directly to a soft, lint free cotton cloth or a lens cleaning tissue.
6. Softly drag any dirt or grime to the outside of the transparent surface.
7. Gently polish the transparent surfaces until they are free of haze and lint.

Always dry the transparent surfaces carefully after cleaning them.

Torque Measurements

To maintain the IP rating when reassembling the product, use the given torque measurements for each of the following screws and bolts:

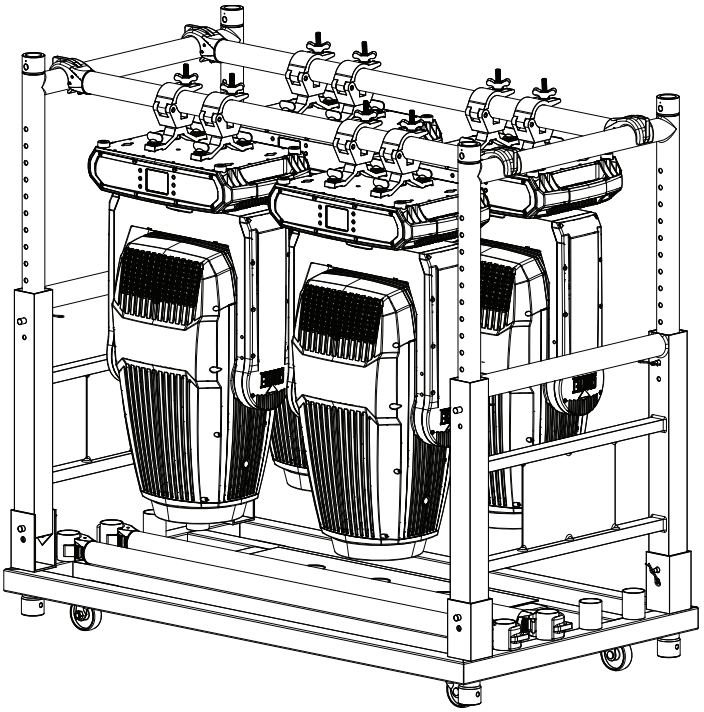
Fixture Parts	Torque Rating (Kgf.cm)	Torque Rating (lgb.in)
Screws inside feet	10.1	8.85
Base screws around outside (not the feet)	16.3	14.1
Base screws in middle	35.6	30.9
Omega bracket holder	12.2	10.6
Screws around display	9.1	8.0
Screws around data ports	6.1	5.3
Screws around power ports	3.5	3.0
Fuse	6.1	5.3
Center of yoke plate	15.2	13.2
Arm cover screws	25.5	22.1
Allen Key screws holding in front lens cover	10.2	8.8
Allen Key screws around head fan	15.3	13.3

Vacuum Test Measurements

Use the IP Tester from Chauvet Professional to ensure the product has been reassembled correctly by following the information below:

Parameters	Values
Method	Positive
Test pressure	2.18 kPa
Test duration	60 seconds
PASS state leak pressure	<0.02 kPa

Transporting on Truss or Racks



When transporting fixtures in pre-rigged truss and transportation racks, mount fixtures in the vertical position with the lenses facing down and the pan and tilt locks engaged. This is to prevent undue stress on the tilt locks and limit the amount of off-axis bounce on internal components.

6. Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
15.59 in (396 mm)	11.73 in (298 mm)	17.20 in (437 mm)	38.2 lb (17.38 kg)

Note: Dimensions in inches are rounded.

Power

Power Supply Type	Range	Voltage Selection
Switching (internal)	100 to 240 VAC, 50/60 Hz	Auto-ranging

Parameter	100 V, 60 Hz	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz	240 V, 50 Hz
Consumption	724 W	711 W	701 W	695 W	695 W
Operating Current	7.27 A	5.98 A	3.40 A	3.07 A	2.95 A
Power-Linking Current	12 A (1 product)	12 A (2 products)	12 A (3 products)	12 A (3 products)	12 A (4 products)
Fuse	T/F 12 A, 250 V	T/F 12 A, 250 V	T/F 12 A, 250 V	T/F 12 A, 250 V	T/F 12 A, 250 V

Power I/O	U.S./Worldwide	UK/Europe
Power Input Connector	Seetronic Powerkon IP65	Seetronic Powerkon IP65
Power Output Connector	Seetronic Powerkon IP65	Seetronic Powerkon IP65
Power Cable plug	Edison	Local plug

Light Source

Type	Color	Quantity	Current	Lifespan
LED	Quad-color RGBW	37	1.5 A	50,000 hours

Photometrics

Beam Angle	Field Angle	Cutoff Angle	Zoom Range
9.1° to 32.3°	11.2° to 49.2°	12.4° to 63.2°	11° to 63.2°

Color Temperature Range	Illuminance @ 5 m (11°)	Illuminance @ 5 m (60.6°)
2800 to 10000 K	18,860 lux	1,647 lux

Thermal

Maximum External Temperature	Cooling System
113 °F (45 °C)	Fan-assisted Convection

Control

DMX I/O Connector	Channel Range
5-pin XLR	21, 27, 62, 71, or 107

Ordering

Product Name	Item Name	Item Code	UPC Number
Rogue Outcast 3X Wash	ROGUEOUTCAST3XWASH	08012354	781462227029

UL 1573
CSA C22.2 No. 166
E113093

Contact Us

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Warranty & Returns

For warranty terms and conditions and return information, please visit our website.

For customers in the United States and Mexico: www.chauvetlighting.com/warranty-registration.

For customers in the United Kingdom, Republic of Ireland, Belgium, the Netherlands, Luxembourg, France, and Germany: www.chauvetlighting.eu/warranty-registration.