

MAVERICK STORM

3 BEAMWASH

User Manual



Model ID: MAVERICKSTORM3BEAMWASH

CHAUVET
PROFESSIONAL

Edition Notes

The Maverick Storm 3 BeamWash User Manual includes a description, safety precautions, installation, programming, operation, and maintenance instructions for the Maverick Storm 3 BeamWash as of the release date of this edition.

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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	09/2023	USB software update revision: Method 1

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Before You Begin

1. Before You Begin

What Is Included

- Maverick Storm 3 BeamWash
- Seetronic Powerkon IP65 power cable to bare wire
- (2) 140 D 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
	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.
	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.

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 32.8 ft (10 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 200 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 hanging/mounting bracket 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.
- 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 a 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

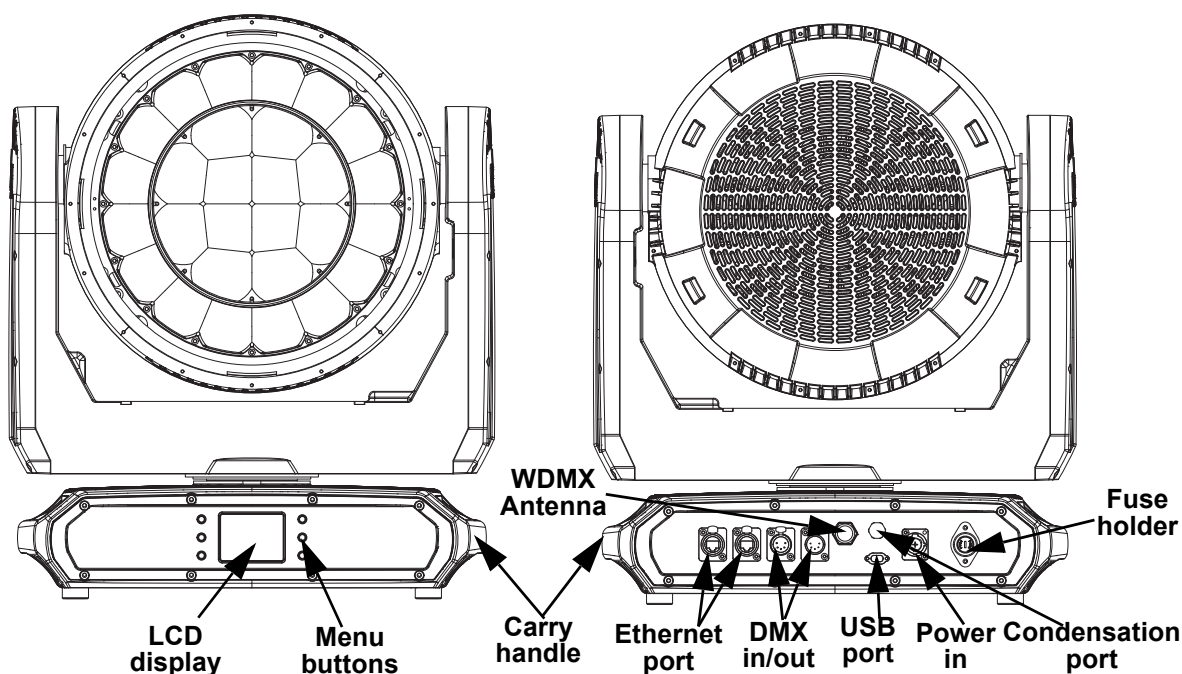
Description

Maverick Storm 3 BeamWash creates new possibilities with two zones of zoom control. Both zones independently zoom from 4.6° to 53.6° allowing for beam and wash combinations from a single fixture. A 16-lens outer zone and 12-lens inner zone combine to deliver a massive 19,062 lumens of output from 28x45W RGBW LEDs. Built-in macros with foreground and background control easily generate stunning pixel eye candy. A unique lens design delivers excellent color blending, tight aerial beam effects, and visual impact live or on camera. Dual mode operation enables pixel-mapped eye candy to run under ArtNet/sACN control with separate assignment of motorized functions to DMX. Housed in an advanced IP65-rated alloy body, Maverick Storm 3 BeamWash is built with the durability and versatility to perform in any venue, indoors or out.

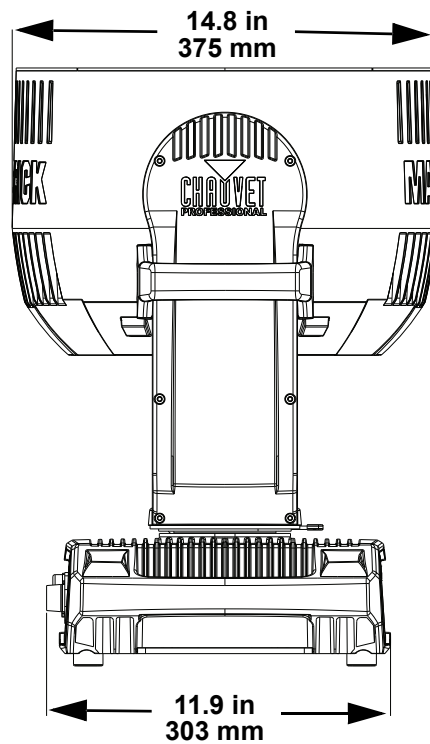
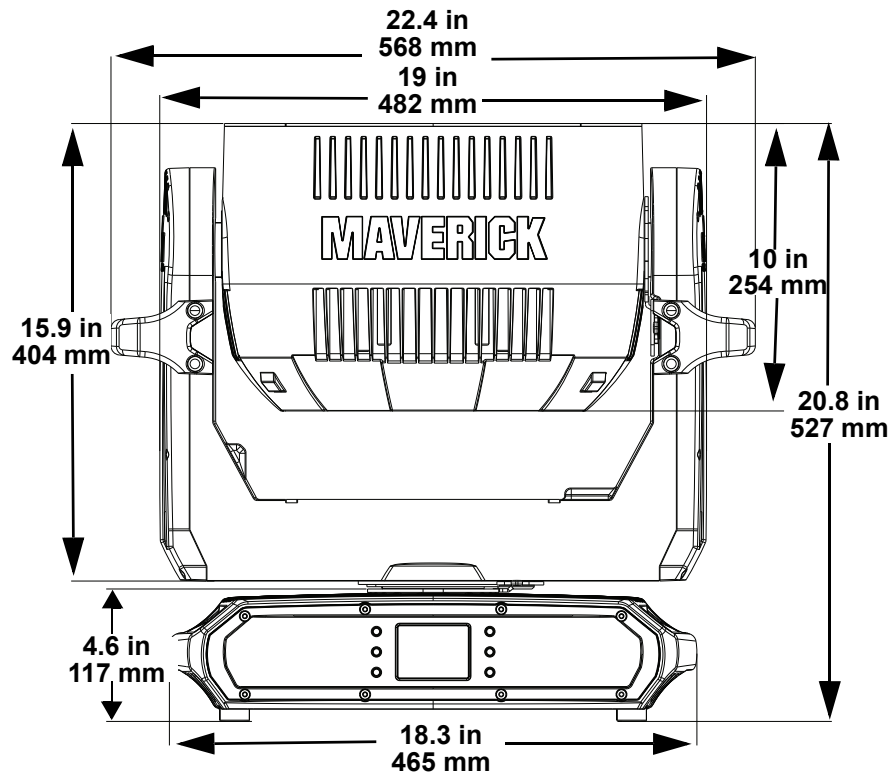
Features

- Fully-featured, compact IP65 BeamWash with (28) 45 w RGBW LEDs that zoom down to 4.6° to produce powerful, tight aerial beams and out to 53.6° for wide washes and individual pixel control for stunning eye candy effects with two independent zones of zoom control.
- 4.6° to 53.6° zoom range in both zoom zones
- Incredibly bright! Over 19,000 lumens!
- Fully pixel-mappable LEDs
- Built-in LED macros with foreground and background control for easy generation of pixel effects
- Unique lens design for excellent color blending and tight beam effects
- Fast, smooth pan and tilt movement
- User-selectable full output 7500 K calibrated white
- Selectable Pulse Width Modulation (PWM) settings for camera operation
- 6 distinct dimming modes for advanced control
- Simple and complex DMX channel profiles for programming versatility, including dual mode operation.
- 5-pin DMX and EtherCON input/output connections
- RDM enabled for remote addressing & trouble shooting
- Easy-to-read OLED display with simple, effective menu options
- USB-C port for convenient software uploads
- Removable handles on the arms make moving the fixture easy.
- Failsafe Ethernet connectivity allows for data to pass even if fixture power is lost

Product Overview



Product Dimensions



3. Setup

AC Power

The Maverick Storm 3 BeamWash 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). Make sure 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 Maverick Storm 3 BeamWash comes with a power input cable terminated with a Seetronic Powerkon A connector and bare end on the other end (U.S. market). 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

Power Linking

It is possible to power link Maverick Storm 3 BeamWash 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, 60 Hz
Current Draw	10.76 A	8.92 A	5.04 A	4.65 A	4.42 A

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

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 (T25 A, 750 V).
4. Screw the fuse holder cap back in place and reconnect power.

Signal Connections

The Maverick Storm 3 BeamWash can receive a DMX, Art-Net™, or sACN, signal. The Maverick Storm 3 BeamWash has two Amphenol XLRnet through ports and 5-pin DMX in and out ports. If using other compatible products with this product, it is possible to control each individually with a single controller.

Control Personalities

The Maverick Storm 3 BeamWash uses a 5-pin DMX data connection, WDMX, Art-Net™, Kling-Net, or sACN for its control personalities:

Single Control	Dual Control Movement	Dual Control Pixels
Basic (22-channel)	Basic (10-channel)	Basic (84-channel)
Standard (134-channel)	Standard (22-channel)	Standard (112-channel)
Advanced (252-channel)	Advanced (28-channel)	Advanced (224-channel)
Tour (308-channel)		
Basic2 (27-channel)		
Standard2 (41-channel)		
Advanced2 (323-channel)		

- Refer to the [Operation](#) chapter to learn how to configure the Maverick Storm 3 BeamWash to work in these personalities.
- The [Control Channel Assignments and Values](#) section provides detailed information regarding the control personalities.



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.

DMX Linking

The Maverick Storm 3 BeamWash can link to a DMX controller using a 5-pin DMX connection or a WDMX connection. For more information about DMX, read the DMX primer at:

https://www.chauvetprofessional.com/wp-content/uploads/2016/06/DMX_Primer.pdf.

Art-Net™ Connection

Art-Net™ is an Ethernet protocol that uses TCP/IP that transfers a large amount of DMX512 data using an Amphenol XLRnet RJ45 connection over a large network. An Art-Net™ protocol document is available from www.chauvetprofessional.com.

Art-Net™ designed by and copyright Artistic Licence Holdings Ltd.

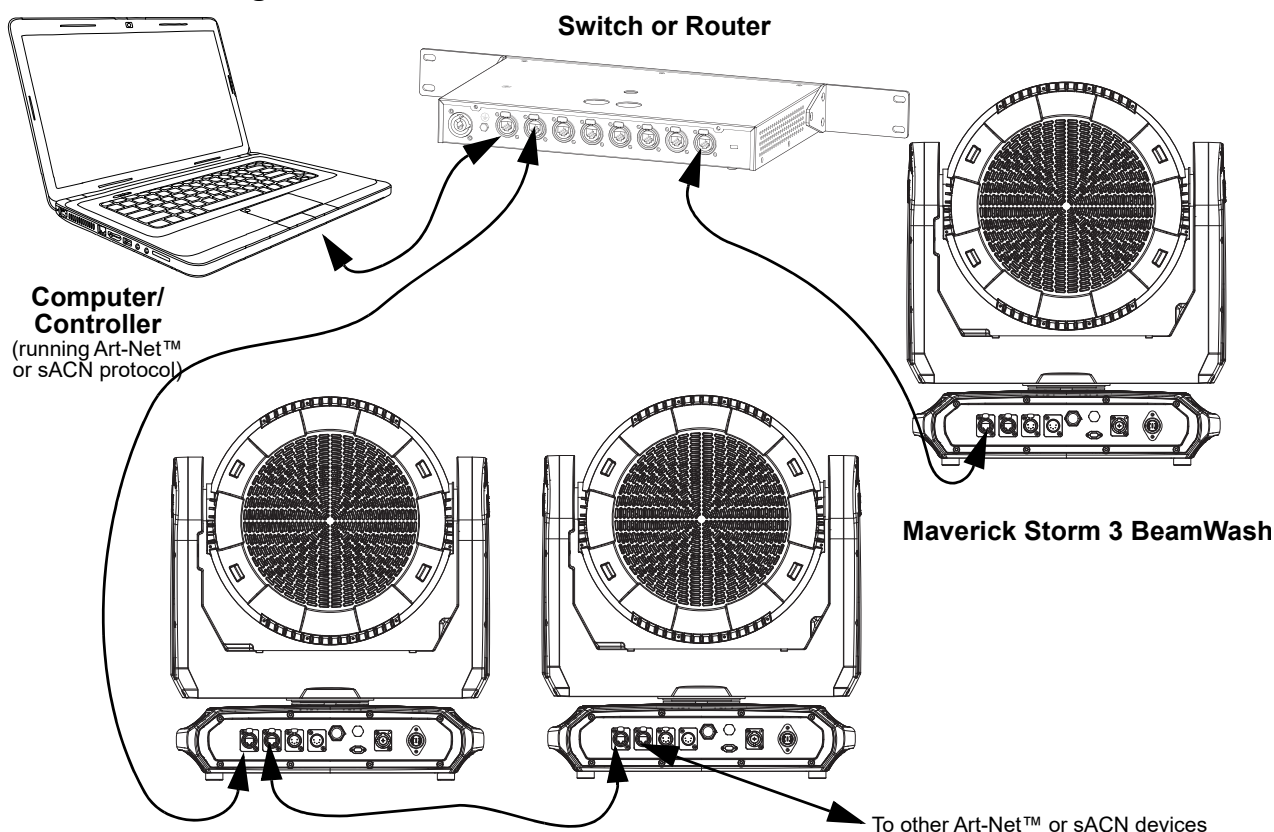
sACN Connection

Streaming ACN (Architecture for Control Networks), also known as ANSI E1.31, is an Ethernet protocol that uses the layering and formatting of ACN to transport DMX512 data over IP or any other ACN-compatible network.

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 Maverick Storm 3 BeamWash supports RDM protocol that allows feedback to make changes to menu map options.

Connection Diagram



USB Software Update

The Maverick Storm 3 BeamWash allows for software updates with a USB device using the built-in USB port. To update the software using a USB flash drive, do the following:

1. Power on the product, 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**.



It is possible to update multiple units with the USB if they are daisy chained via DMX.

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**”. The update can take several minutes to complete.
 - When the USB firmware is done uploading, in some fixtures, the display will change to: “**DO NOT UNPLUG, UPDATING**”.
6. When the update is completed, the fixture will automatically reboot.
7. Go to Fixture Information on the product’s menu map and confirm the firmware revision.
8. 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 the USB LED is 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.

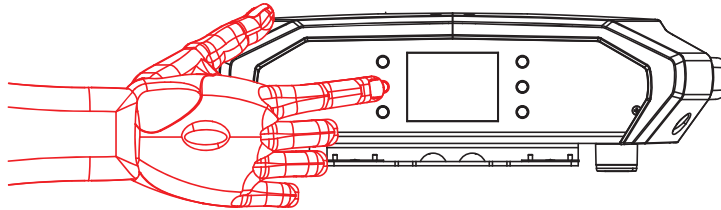
4. Operation

Control Panel Description

Button	Name	Function
	<UP>	Navigates upwards through the menu list or increases the value when in a function
	<MENU>	Exits from the current menu or function
	<DOWN>	Navigates downwards through the menu list or decreases the value when in a function
	<LEFT>	Navigates leftwards through the menu list
	<ENTER>	Enables the currently displayed menu or sets the selected value into the function
	<RIGHT>	Navigates rightwards through the menu list

Battery-Powered Display

The Maverick Storm 3 BeamWash has a battery-powered display that enables access to the menu when the product is powered off. Press and hold <MENU> until the display activates (approximately 15 seconds).



Home Screen

The Maverick Storm 3 BeamWash has a home screen that shows the current control protocols, personalities, starting addresses, IP addresses, and universes. To see the home screen, press <MENU> repeatedly until it shows on the display. From the home screen, touch any of the displayed control settings to immediately jump to that part of the menu, such as the personality, starting address, or universe, or press <ENTER> to reach the main menu.

Control Panel Lock

The setting locks or unlocks the control panel.

1. Go to the **Settings** main level.
2. Select the **Lock Screen** option.
3. Select **NO** (control panel stays unlocked) or **YES** (locks control panel).



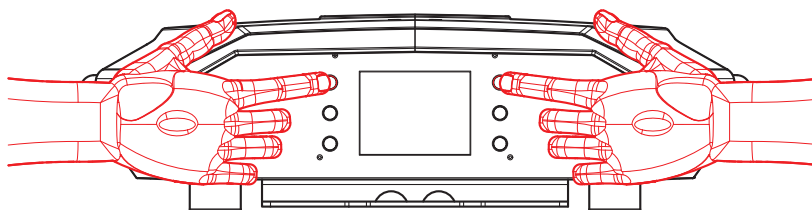
When the control panel lock is activated, the product will prompt for the passcode in order to access the menu. Enter the passcode as described below.

Passcode

After being prompted to enter the passcode, enter the numbers **0920**.

Technician Mode

The technician mode disables the pan/tilt motors, allowing the output of the product to be aimed by hand. To enable the technician mode of the Maverick Storm 3 BeamWash, hold <UP> and <LEFT> while the product is powering on. When the product is turned off and back on, the pan and tilt will return to normal function.



Menu Map

Refer to the Maverick Storm 3 BeamWash product page on www.chauvetprofessional.com for the latest menu map.

Programming Levels				Description
Control Settings				Control Settings Main Level
Control Settings	Single Control	DMX	Basic	Sets the DMX personality: (see Control Personalities)
			Standard	
			Advanced	
			Tour	
			Basic 2	
			Standard2	
			Advanced2	
		Start Address	001–512	Sets the DMX starting address
		ArtNet	Basic	Sets the Art-Net™ personality: (see Control Personalities)
			Standard	
			Advanced	
			Tour	
			Basic 2	
			Standard2	
			Advanced2	
		Start Address	001–512	Sets the Art-Net™ starting address
		Universe	000–255	Sets the Art-Net™ universe
		sACN	Basic	Sets the sACN personality: (see Control Personalities)
			Standard	
			Advanced	
			Tour	
			Basic 2	
			Standard2	
			Advanced2	
		Start Address	001–512	Sets the sACN starting address
		Universe	001–256	Sets the sACN universe
	WDMX	Personality	Basic	Sets the WDMX personality (see Control Personalities)
			Standard	
			Advanced	
			Tour	
			Basic 2	
			Standard2	
			Advanced2	
		Start Address	001–512	Sets the WDMX address

Programming Levels					Description	
Control Settings	Dual Control	Movement	DMX	Personality	Basic	Sets the DMX personality: (see Control Personalities)
					Standard	
					Advanced	
			Start Address	1–512	Sets the DMX starting address	
			ArtNet	Personality	Basic	Sets the Art-Net™ personality: (see Control Personalities)
					Standard	
					Advanced	
		Start Address		1–512	Sets the Art-Net™ starting address	
		Universe	0–255	Sets the Art-Net™ universe		
		sACN	Personality	Basic	Sets the sACN personality: (see Control Personalities)	
				Standard		
				Advanced		
			Start Address	1–512	Sets the sACN starting address	
		Universe	1–256	Sets the sACN universe		
	Pixels	DMX	Personality	Basic	Sets the DMX personality (see Control Personalities)	
				Standard		
				Advanced		
			Start Address	001–512	Sets the DMX starting address	
		ArtNet	Personality	Basic	Sets the Art-Net™ personality: (see Control Personalities)	
				Standard		
				Advanced		
			Start Address	001–512	Sets the Art-Net™ starting address	
		Universe	000–255	Sets the Art-Net™ universe		
		sACN	Personality	Basic	Sets the sACN personality: (see Control Personalities)	
				Standard		
				Advanced		
			Start Address	1–512	Sets the sACN starting address	
		Universe	0–255	Sets the sACN universe		
		Kling-Net	Personality	Basic	Sets the Kling-Net personality: (see Control Personalities)	
				Standard		

Main Level	Programming Levels			Description
Test Mode	Auto Test			Auto test all functions
	Manual Test	Pan	000–255	Manually control and test all settings through the control panel
		Tilt		
		P/T Speed		
		Red		
		Green		
		Blue		
		White		
		CTC		
		Color		
		Pattern		
		LED Macro		
		LED Ma. Speed		
		LED Ma. Fade		
		Background		
		Background Dim.		
		Dimmer		
		Shutter		
		Control		
		Zoom1		
		Zoom2		
Setup	Network Setting	IP Mode	Manual	Manually set IP address
			DHCP	Network sets IP address
			Static	Product sets IP address
		IP	---'---'---	Sets IP address in Manual mode

		SubMask	---'---'---	Sets Subnet Mask in Manual mode

	Pan Reverse	NO		Normal pan
		YES		Reversed pan
	Tilt Reverse	NO		Normal tilt
		YES		Reversed tilt
	Zoom Reverse	NO		Normal zoom
		YES		Reversed zoom
	Screen Reverse	NO		Normal display
		YES		Inverted display
		AUTO		Automatic display orientation
	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
	BL. O. P/T Move	NO		Do not black out while pan/tilt
		YES		Blackout while pan/tilt
	Swap XY	NO		Do not swap pan and tilt
		YES		Pan controls tilt, tilt controls pan
	Lock Screen	NO		Lock the buttons and touch screen
		YES		Passcode: 0920
	WDMX Reset	NO		Do not reset WDMX
		YES		Reset WDMX

Main Level	Programming Levels		Description
Setup (cont.)	Backlight Timer	30S	Display turns off after 30 seconds
		1M	Display turns off after 1 minute
		5M	Display turns off after 5 minutes
		ON	Display stays on
	Loss of Data	Hold	Holds last signal received
		Close	Blacks out fixture
	Fans	Auto	Fan speed according to product temperature
		Full	Fan speed set on high
		ECO	Quiet mode
	C Mixing Mode	RGBW	RGBW mode
		CMY	CMY mode (R=C, G=M, B=Y)
	Dimmer Curve	Linear	Set the dimmer curve
		Square	
		I Squa	
		SCurve	
	Dimmer Speed	Smooth	Set the dimmer speed
		Fast	
	PWM Option	600Hz	Define Pulse Width Modulation setting
		1200Hz	
		2000Hz	
		4000Hz	
		6000Hz	
		15000Hz	
	Color Balance	Red	Sets red LED maximum value
		Green	
		Blue	
		White	
	Calibrated White	ON	Calibrated white balance
		OFF	Uses maximum white values
		Custom	Uses custom white balance
	White Balance	Red	Sets red LED maximum value
		Green	
		Blue	
		White	
	Merge Channel	NO	Merge zoom function
		YES	
	Preset Select	PRESET A	Recorded preset menu options
		PRESET B	
		PRESET C	
	Preset Sync	NO	Allows recorded preset menu options to be transferred to other Maverick Storm 3 BeamWash products in the DMX daisy chain
		YES	
	USB Update	NO	Update firmware via USB-C
		YES	
	Reset Function	Pan/Tilt	NO
			YES
		Zoom	NO
			YES
		All	NO
			YES
	Factory Settings	NO	Reset to factory default settings
		YES	

Main Level	Programming Levels		Description
Sys Info	Fixture Information	Ver	V _ _ _ _ _
		Running Mode	_ _ _
		Address	_ _ _
		Temperature	_ _ _
		Fixture Hours	_ _ _ _ _
		Ip	_ _ . _ _ . _ _ . _ _
		SubMask	_ _ . _ _ . _ _ . _ _
		MAC	_ _ : _ _ : _ _ . _ _ . _ _ . _ _
		LED Hours	_ _ _ _ _
	Fan Information	Head Fan1 Speed	_ _ _ _ _
		Head Fan2 Speed	_ _ _ _ _
		Head Fan3 Speed	_ _ _ _ _
		Head Fan4 Speed	_ _ _ _ _
		Head Fan5 Speed	_ _ _ _ _
		Head Fan6 Speed	_ _ _ _ _
		DEFROST XFAN2	_ _ _ _ _
		XFAN3 Speed	_ _ _ _ _
		Base Fan1 Speed	_ _ _ _ _
		Base Fan2 Speed	_ _ _ _ _
		Base Fan3 Speed	_ _ _ _ _
		Base Fan4 Speed	_ _ _ _ _
	Error Information	No Error!*	
			Shows any errors, or No Error!

Main Level	Programming Levels		Description
Sys Info (cont.)	Channel Information	Frequency	---
		Pan	
		Pan Fine	
		Tilt	
		Tilt Fine	
		P/T Speed	
		CTC	
		Color	
		Pattern	
		LED Macro	
		LED Ma. Speed	
		LED Ma. Fade	
		Background	
		Background Dim.	
		Big. Dim. Fine	
		Dimmer	
		Dimmer Fine	
		Bg. Dim. Fine	
		Dimmer	
		Dimmer Fine	
		Shutter	
		Zoom1	
		Zoom2	
		Control	
		Red	
		Red Fine	
		Green	
		Green Fine	
		Blue	
		Blue Fine	
		White	
		White Fine	
		Dimmer (all, 1–28)	
		Dimmer Fine (all, 1–28)	
		Red (all, 1–28)	
		Red Fine (all, 1–28)	
		Green (all, 1–28)	
		Green Fine (all, 1–28)	
		Blue (all, 1–28)	
		Blue Fine (all, 1–28)	
		White (all, 1–28)	
		White Fine (all, 1–28)	

Configuration

Use control configurations to operate the product with a DMX, WDMX, Art-Net™, Kling-Net, and sACN control signals.

Control Mode

The Maverick Storm 3 BeamWash works with wired DMX, WDMX, Art-Net™, Kling-Net, and sACN control signals. To select which single control protocol to use:

1. Go to the **Control Settings** main level.
2. Select the **Single Control** option
3. Select the desired protocol, from **DMX**, **ArtNet**, **sACN**, or **WDMX**.

To select which dual control protocol to use:

1. Go to the **Control Settings** main level.
2. Select the **Dual Control** option
1. Select either **Movement** (select from **DMX**, **ArtNet**, or **sACN**) or **Pixels** (select from **DMX**, **ArtNet**, or **KlingNet**).



In Dual Control mode, the Movement protocol and the Pixels protocol cannot be the same.



- See the [WDMX Reset](#) section for further setup of WDMX.
- See the [Network Setup](#) section for further setup of ethernet protocols (Art-Net™ or sACN).

Control Personalities

To set the control personality:

1. Select the **Personality** option.
2. Select the desired personality, from:

Single Control	Dual Control Movement	Dual Control Pixels
Basic (22-channel)	Basic (10-channel)	Basic (84-channel)
Standard (134-channel)	Standard (22-channel)	Standard (112-channel)
Advanced (252-channel)	Advanced (28-channel)	Advanced (224-channel)
Tour (308-channel)		
Basic2 (27-channel)		
Standard2 (41-channel)		
Advanced2 (323-channel)		



- 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.**

Operation

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 Single Control mode:

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

Control Mode	Personality	Channels	Highest Address
Single Control	Basic	22	491
	Standard	134	379
	Advanced	252	261
	Tour	308	205
	Basic2	27	486
	Standard2	41	472
	Advanced2	323	190
Dual Control Movement	Basic	10	503
	Standard	22	491
	Advanced	28	485
Dual Control Pixels	Basic	84	429
	Standard	112	401
	Advanced	224	289

Network Setup

The Network Setup settings control the IP address, subnet mask, and universe of the product.

IP Mode

To choose how the IP address is set:

1. Go to the **Network Setting** level.
2. Select the **IP Mode** option.
3. Select the desired IP mode, from **Manual** (to set a custom IP address), **DHCP** (the IP address is assigned by the connected network), or **Static** (the product uses a default, preset IP address).

Manual IP Address

To set the IP address when the **IP Mode** is set to **Manual**:

1. Go to the **Network Setting** level.
2. Select the **Ip** option.
3. Set the 4 values of the IP address from **000–255**.

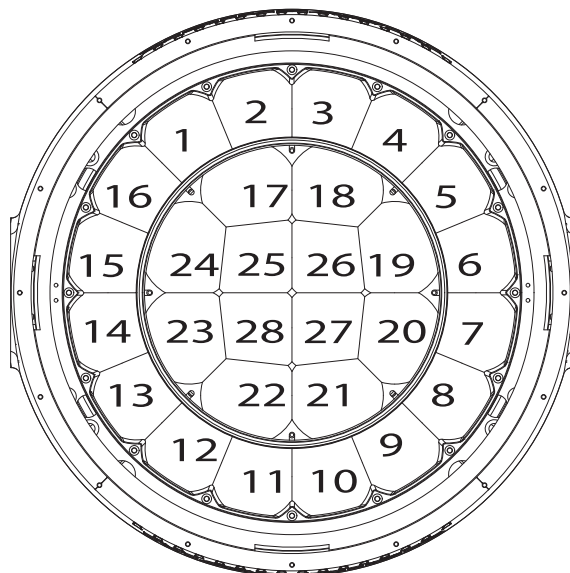
Subnet Mask

To set the subnet mask:

1. Go to the **Network Setting** level.
2. Select the **SubMask** option.
3. Set the 4 values of the subnet mask from **000–255**.

Control Channel Assignments and Values

Pixel Chart



Single Control Values

B: Basic (22 channels), **B2:** Basic 2 (27 channels), **S2:** Standard2 (41 channels)

B	B2	S2	Function	Value	Percent/Setting
1	1	1	Pan	000 ⇔ 255	0–100%
2	2	2	Pan fine	000 ⇔ 255	0–100%
3	3	3	Tilt	000 ⇔ 255	0–100%
4	4	4	Tilt fine	000 ⇔ 255	0–100%
5	5	5	Pan/Tilt speed	000 ⇔ 255	Pan/Tilt speed, fast to slow
6	6	6	CTC	000	No function
				001 ⇔ 255	Color temperature, 19000–2700K
7	7	7	Color macro (ring)	000 ⇔ 255	See Color Chart
		8	Color macro (inner plate)		
8	8	9	Gobo	000	No function
				001 ⇔ 255	Gobos (indexed)
9	9	10	LED macro/ Auto program	000 ⇔ 015	No function
				016 ⇔ 135	LED macros
				136 ⇔ 255	Auto programs
10	10	11	LED macro/ Auto program speed	000 ⇔ 127	Auto speed, fast to slow
				128	Hold
				129 ⇔ 255	Auto speed, slow to fast
11	11	12	LED macro delay	000 ⇔ 255	Fast to slow
12	12	13	Background color (ring)	000 ⇔ 255	See Color Chart
		14	Background color (inner plate)		
13	13	15	Background dimmer (ring)	000 ⇔ 255	0–100%
–	–	–	Background dimmer fine (ring)	000 ⇔ 255	0–100%

Operation

B	B2	S2	Function	Value	Percent/Setting
13	13	16	Background dimmer (inner plate)	000 ⇔ 255	0–100%
–	–	–	Background dimmer fine (inner plate)	000 ⇔ 255	0–100%
14	14	17	Dimmer (ring)	000 ⇔ 255	0–100%
–	15	18	Dimmer fine (ring)	000 ⇔ 255	0–100%
14	14	19	Dimmer (inner plate)	000 ⇔ 255	0–100%
–	15	20	Dimmer fine (inner plate)	000 ⇔ 255	0–100%
15	16	21	Shutter (ring)	000 ⇔ 255	See Strobe Chart
		22	Shutter	000 ⇔ 255	
16	17	23	Ring zoom	000 ⇔ 255	Wide to narrow
17	18	24	Main zoom	000 ⇔ 255	Wide to narrow
18	19	25	Control	000 ⇔ 255	See Control Chart
19	20	26	Red (ring)	000 ⇔ 255	0–100%
		27	Red (inner plate)	000 ⇔ 255	0–100%
–	21	28	Red fine (ring)	000 ⇔ 255	0–100%
		29	Red fine (inner plate)	000 ⇔ 255	0–100%
20	22	30	Green (ring)	000 ⇔ 255	0–100%
		31	Green(inner plate)	000 ⇔ 255	0–100%
–	23	32	Green fine (ring)	000 ⇔ 255	0–100%
		33	Green fine (inner plate)	000 ⇔ 255	0–100%
21	24	34	Blue (ring)	000 ⇔ 255	0–100%
		35	Blue (inner plate)	000 ⇔ 255	0–100%
–	25	36	Blue fine (ring)	000 ⇔ 255	0–100%
		37	Blue fine (inner plate)	000 ⇔ 255	0–100%
22	26	38	White (ring)	000 ⇔ 255	0–100%
		39	White (inner plate)	000 ⇔ 255	0–100%
–	27	40	White fine (ring)	000 ⇔ 255	0–100%
		41	White fine (inner plate)	000 ⇔ 255	0–100%

Single Control Values

S: Standard (134 channels), **A:** Advanced (252 channels), **T:** Tour (308 channels),
A2: Advanced2 (323 channels)

S	A	T	A2	Function	Value	Percent/Setting
1	1	1	1	Pan	000 ⇔ 255	0–100%
2	2	2	2	Pan fine	000 ⇔ 255	0–100%
3	3	3	3	Tilt	000 ⇔ 255	0–100%
4	4	4	4	Tilt fine	000 ⇔ 255	0–100%
5	5	5	5	Pan/Tilt speed	000 ⇔ 255	Pan/Tilt speed, fast to slow
6	6	6	6	CTC	000	No function
					001 ⇔ 255	Color temperature, 19000–2700K
7	7	7	7	Color macro (ring)	000 ⇔ 255	See Color Chart
			8	Color macro (inner plate)		
8	8	8	9	Gobo	000	No function
					001 ⇔ 255	Gobos (indexed)
9	9	9	10	LED macro/ Auto program	000 ⇔ 015	No function
					016 ⇔ 135	LED macros
					136 ⇔ 255	Auto programs
10	10	10	11	LED macro/ Auto program speed	000 ⇔ 127	Auto speed, fast to slow
					128	Hold
					129 ⇔ 255	Auto speed, slow to fast
11	11	11	12	LED macro delay	000 ⇔ 255	Fast to slow
12	12	12	13	Background color (ring)	000 ⇔ 255	See Color Chart
			14	Background color (inner plate)		
13	13	13	15	Background dimmer (ring)	000 ⇔ 255	0–100%
–	14	14	16	Background dimmer fine (ring)	000 ⇔ 255	0–100%
13	13	13	17	Background dimmer (inner plate)	000 ⇔ 255	0–100%
–	14	14	18	Background dimmer fine (inner plate)	000 ⇔ 255	0–100%
14	15	15	19	Dimmer (ring)	000 ⇔ 255	0–100%
–	16	16	20	Dimmer fine (ring)	000 ⇔ 255	0–100%
14	15	15	21	Dimmer (inner plate)	000 ⇔ 255	0–100%
–	16	16	22	Dimmer fine (inner plate)	000 ⇔ 255	0–100%
15	17	17	23	Shutter (ring)	000 ⇔ 255	See Strobe Chart
			24	Shutter (inner plate)	000 ⇔ 255	
16	18	18	25	Ring zoom	000 ⇔ 255	Wide to narrow
17	19	19	26	Main zoom	000 ⇔ 255	Wide to narrow
18	20	20	27	Control	000 ⇔ 255	See Control Chart
19	21	21	28	Red (ring)	000 ⇔ 255	0–100%
	21	21	29	Red (inner plate)	000 ⇔ 255	0–100%
–	22	22	30	Red fine (ring)	000 ⇔ 255	0–100%
	22	22	31	Red fine (inner plate)	000 ⇔ 255	0–100%
20	23	23	32	Green (ring)	000 ⇔ 255	0–100%
	23	23	33	Green (inner plate)	000 ⇔ 255	0–100%

S	A	T	A2	Function	Value	Percent/Setting
–	24	24	34	Green fine (ring)	000 ⇔ 255	0–100%
	24	24	35	Green fine (inner plate)	000 ⇔ 255	0–100%
21	25	25	36	Blue (ring)	000 ⇔ 255	0–100%
	25	25	37	Blue (inner plate)	000 ⇔ 255	0–100%
–	26	26	38	Blue fine (ring)	000 ⇔ 255	0–100%
	26	26	39	Blue fine (inner plate)	000 ⇔ 255	0–100%
22	27	27	40	White (ring)	000 ⇔ 255	0–100%
	27	27	41	White (inner plate)	000 ⇔ 255	0–100%
–	28	28	42	White fine (ring)	000 ⇔ 255	0–100%
	28	28	43	White fine (inner plate)	000 ⇔ 255	0–100%
–	–	29	44	Dimmer 1	000 ⇔ 255	0–100%
–	–	30	45	Dimmer fine 1	000 ⇔ 255	0–100%
23	29	31	46	Red 1	000 ⇔ 255	0–100%
–	30	32	47	Red fine 1	000 ⇔ 255	0–100%
24	31	33	48	Green 1	000 ⇔ 255	0–100%
–	32	34	49	Green fine 1	000 ⇔ 255	0–100%
25	33	35	50	Blue 1	000 ⇔ 255	0–100%
–	34	36	51	Blue fine 1	000 ⇔ 255	0–100%
26	35	37	52	White 1	000 ⇔ 255	0–100%
–	36	38	53	White fine 1	000 ⇔ 255	0–100%
–	–	39	54	Dimmer 2	000 ⇔ 255	0–100%
–	–	40	55	Dimmer fine 2	000 ⇔ 255	0–100%
27	37	41	56	Red 2	000 ⇔ 255	0–100%
–	38	42	57	Red fine 2	000 ⇔ 255	0–100%
28	39	43	58	Green 2	000 ⇔ 255	0–100%
–	40	44	59	Green fine 2	000 ⇔ 255	0–100%
29	41	45	60	Blue 2	000 ⇔ 255	0–100%
–	42	46	61	Blue fine 2	000 ⇔ 255	0–100%
30	43	47	62	White 2	000 ⇔ 255	0–100%
–	44	48	63	White fine 2	000 ⇔ 255	0–100%
–	–	49	64	Dimmer 3	000 ⇔ 255	0–100%
–	–	50	65	Dimmer fine 3	000 ⇔ 255	0–100%
31	45	51	66	Red 3	000 ⇔ 255	0–100%
–	46	52	67	Red fine 3	000 ⇔ 255	0–100%
32	47	53	68	Green 3	000 ⇔ 255	0–100%
–	48	54	69	Green fine 3	000 ⇔ 255	0–100%
33	49	55	70	Blue 3	000 ⇔ 255	0–100%
–	50	56	71	Blue fine 3	000 ⇔ 255	0–100%
34	51	57	72	White 3	000 ⇔ 255	0–100%
–	52	58	73	White fine 3	000 ⇔ 255	0–100%
–	–	59	74	Dimmer 4	000 ⇔ 255	0–100%
–	–	60	75	Dimmer fine 4	000 ⇔ 255	0–100%
35	53	61	76	Red 4	000 ⇔ 255	0–100%
–	54	62	77	Red fine 4	000 ⇔ 255	0–100%
36	55	63	78	Green 4	000 ⇔ 255	0–100%
–	56	64	79	Green fine 4	000 ⇔ 255	0–100%

S	A	T	A2	Function	Value	Percent/Setting
37	57	65	80	Blue 4	000 ⇄ 255	0–100%
–	58	66	81	Blue fine 4	000 ⇄ 255	0–100%
38	59	67	82	White 4	000 ⇄ 255	0–100%
–	60	68	83	White fine 4	000 ⇄ 255	0–100%
–	–	69	84	Dimmer 5	000 ⇄ 255	0–100%
–	–	70	85	Dimmer fine 5	000 ⇄ 255	0–100%
39	61	71	86	Red 5	000 ⇄ 255	0–100%
–	62	72	87	Red fine 5	000 ⇄ 255	0–100%
40	63	73	88	Green 5	000 ⇄ 255	0–100%
–	64	74	89	Green fine 5	000 ⇄ 255	0–100%
41	65	75	90	Blue 5	000 ⇄ 255	0–100%
–	66	76	91	Blue fine 5	000 ⇄ 255	0–100%
42	67	77	92	White 5	000 ⇄ 255	0–100%
–	68	78	93	White fine 5	000 ⇄ 255	0–100%
–	–	79	94	Dimmer 6	000 ⇄ 255	0–100%
–	–	80	95	Dimmer fine 6	000 ⇄ 255	0–100%
43	69	81	96	Red 6	000 ⇄ 255	0–100%
–	70	82	97	Red fine 6	000 ⇄ 255	0–100%
44	71	83	98	Green 6	000 ⇄ 255	0–100%
–	72	84	99	Green fine 6	000 ⇄ 255	0–100%
45	73	85	100	Blue 6	000 ⇄ 255	0–100%
–	74	86	101	Blue fine 6	000 ⇄ 255	0–100%
46	75	87	102	White 6	000 ⇄ 255	0–100%
–	76	88	103	White fine 6	000 ⇄ 255	0–100%
–	–	89	104	Dimmer 7	000 ⇄ 255	0–100%
–	–	90	105	Dimmer fine 7	000 ⇄ 255	0–100%
47	77	91	106	Red 7	000 ⇄ 255	0–100%
–	78	92	107	Red fine 7	000 ⇄ 255	0–100%
48	79	93	108	Green 7	000 ⇄ 255	0–100%
–	80	94	109	Green fine 7	000 ⇄ 255	0–100%
49	81	95	110	Blue 7	000 ⇄ 255	0–100%
–	82	96	111	Blue fine 7	000 ⇄ 255	0–100%
50	83	97	112	White 7	000 ⇄ 255	0–100%
–	84	98	113	White fine 7	000 ⇄ 255	0–100%
–	–	99	114	Dimmer 8	000 ⇄ 255	0–100%
–	–	100	115	Dimmer fine 8	000 ⇄ 255	0–100%
51	85	101	116	Red 8	000 ⇄ 255	0–100%
–	86	102	117	Red fine 8	000 ⇄ 255	0–100%
52	87	103	118	Green 8	000 ⇄ 255	0–100%
–	88	104	119	Green fine 8	000 ⇄ 255	0–100%
53	89	105	120	Blue 8	000 ⇄ 255	0–100%
–	90	106	121	Blue fine 8	000 ⇄ 255	0–100%
54	91	107	122	White 8	000 ⇄ 255	0–100%
–	92	108	123	White fine 8	000 ⇄ 255	0–100%
–	–	109	124	Dimmer 9	000 ⇄ 255	0–100%
–	–	110	125	Dimmer fine 9	000 ⇄ 255	0–100%

Operation

S	A	T	A2	Function	Value	Percent/Setting
55	93	111	126	Red 9	000 ⇄ 255	0–100%
–	94	112	127	Red fine 9	000 ⇄ 255	0–100%
56	95	113	128	Green 9	000 ⇄ 255	0–100%
–	96	114	129	Green fine 9	000 ⇄ 255	0–100%
57	97	115	130	Blue 9	000 ⇄ 255	0–100%
–	98	116	131	Blue fine 9	000 ⇄ 255	0–100%
58	99	117	132	White 9	000 ⇄ 255	0–100%
–	100	118	133	White fine 9	000 ⇄ 255	0–100%
–	–	119	134	Dimmer 10	000 ⇄ 255	0–100%
–	–	120	135	Dimmer fine 10	000 ⇄ 255	0–100%
59	101	121	136	Red 10	000 ⇄ 255	0–100%
–	102	122	137	Red fine 10	000 ⇄ 255	0–100%
60	103	123	138	Green 10	000 ⇄ 255	0–100%
–	104	124	139	Green fine 10	000 ⇄ 255	0–100%
61	105	125	140	Blue 10	000 ⇄ 255	0–100%
–	106	126	141	Blue fine 10	000 ⇄ 255	0–100%
62	107	127	142	White 10	000 ⇄ 255	0–100%
–	108	128	143	White fine 10	000 ⇄ 255	0–100%
–	–	129	144	Dimmer 11	000 ⇄ 255	0–100%
–	–	130	145	Dimmer fine 11	000 ⇄ 255	0–100%
63	109	131	146	Red 11	000 ⇄ 255	0–100%
–	110	132	147	Red fine 11	000 ⇄ 255	0–100%
64	111	133	148	Green 11	000 ⇄ 255	0–100%
–	112	134	149	Green fine 11	000 ⇄ 255	0–100%
65	113	135	150	Blue 11	000 ⇄ 255	0–100%
–	114	136	151	Blue fine 11	000 ⇄ 255	0–100%
66	115	137	152	White 11	000 ⇄ 255	0–100%
–	116	138	153	White fine 11	000 ⇄ 255	0–100%
–	–	139	154	Dimmer 12	000 ⇄ 255	0–100%
–	–	140	155	Dimmer fine 12	000 ⇄ 255	0–100%
67	117	141	156	Red 12	000 ⇄ 255	0–100%
–	118	142	157	Red fine 12	000 ⇄ 255	0–100%
68	119	143	158	Green 12	000 ⇄ 255	0–100%
–	120	144	159	Green fine 12	000 ⇄ 255	0–100%
69	121	145	160	Blue 12	000 ⇄ 255	0–100%
–	122	146	161	Blue fine 12	000 ⇄ 255	0–100%
70	123	147	162	White 12	000 ⇄ 255	0–100%
–	124	148	163	White fine 12	000 ⇄ 255	0–100%
–	–	149	164	Dimmer 13	000 ⇄ 255	0–100%
–	–	150	165	Dimmer fine 13	000 ⇄ 255	0–100%
71	125	151	166	Red 13	000 ⇄ 255	0–100%
–	126	152	167	Red fine 13	000 ⇄ 255	0–100%
72	127	153	168	Green 13	000 ⇄ 255	0–100%
–	128	154	169	Green fine 13	000 ⇄ 255	0–100%
73	129	155	170	Blue 13	000 ⇄ 255	0–100%
–	130	156	171	Blue fine 13	000 ⇄ 255	0–100%

S	A	T	A2	Function	Value	Percent/Setting
74	131	157	172	White 13	000 ⇄ 255	0–100%
–	132	158	173	White fine 13	000 ⇄ 255	0–100%
–	–	159	174	Dimmer 14	000 ⇄ 255	0–100%
–	–	160	175	Dimmer fine 14	000 ⇄ 255	0–100%
75	133	161	176	Red 14	000 ⇄ 255	0–100%
–	134	162	177	Red fine 14	000 ⇄ 255	0–100%
76	135	163	178	Green 14	000 ⇄ 255	0–100%
–	136	164	179	Green fine 14	000 ⇄ 255	0–100%
77	137	165	180	Blue 14	000 ⇄ 255	0–100%
–	138	166	181	Blue fine 14	000 ⇄ 255	0–100%
78	139	167	182	White 14	000 ⇄ 255	0–100%
–	140	168	183	White fine 14	000 ⇄ 255	0–100%
–	–	169	184	Dimmer 15	000 ⇄ 255	0–100%
–	–	170	185	Dimmer fine 15	000 ⇄ 255	0–100%
79	141	171	186	Red 15	000 ⇄ 255	0–100%
–	142	172	187	Red fine 15	000 ⇄ 255	0–100%
80	143	173	188	Green 15	000 ⇄ 255	0–100%
–	144	174	189	Green fine 15	000 ⇄ 255	0–100%
81	145	175	190	Blue 15	000 ⇄ 255	0–100%
–	146	176	191	Blue fine 15	000 ⇄ 255	0–100%
82	147	177	192	White 15	000 ⇄ 255	0–100%
–	148	178	193	White fine 15	000 ⇄ 255	0–100%
–	–	179	194	Dimmer 16	000 ⇄ 255	0–100%
–	–	180	195	Dimmer fine 16	000 ⇄ 255	0–100%
83	149	181	196	Red 16	000 ⇄ 255	0–100%
–	150	182	197	Red fine 16	000 ⇄ 255	0–100%
84	151	183	198	Green 16	000 ⇄ 255	0–100%
–	152	184	199	Green fine 16	000 ⇄ 255	0–100%
85	153	185	200	Blue 16	000 ⇄ 255	0–100%
–	154	186	201	Blue fine 16	000 ⇄ 255	0–100%
86	155	187	202	White 16	000 ⇄ 255	0–100%
–	156	188	203	White fine 16	000 ⇄ 255	0–100%
–	–	189	204	Dimmer 17	000 ⇄ 255	0–100%
–	–	190	205	Dimmer fine 17	000 ⇄ 255	0–100%
87	157	191	206	Red 17	000 ⇄ 255	0–100%
–	158	192	207	Red fine 17	000 ⇄ 255	0–100%
88	159	193	208	Green 17	000 ⇄ 255	0–100%
–	160	194	209	Green fine 17	000 ⇄ 255	0–100%
89	161	195	210	Blue 17	000 ⇄ 255	0–100%
–	162	196	211	Blue fine 17	000 ⇄ 255	0–100%
90	163	197	212	White 17	000 ⇄ 255	0–100%
–	164	198	213	White fine 17	000 ⇄ 255	0–100%
–	–	199	214	Dimmer 18	000 ⇄ 255	0–100%
–	–	200	215	Dimmer fine 18	000 ⇄ 255	0–100%
91	165	201	216	Red 18	000 ⇄ 255	0–100%
–	166	202	217	Red fine 18	000 ⇄ 255	0–100%

Operation

S	A	T	A2	Function	Value	Percent/Setting
92	167	203	218	Green 18	000 ⇄ 255	0–100%
–	168	204	219	Green fine 18	000 ⇄ 255	0–100%
93	169	205	220	Blue 18	000 ⇄ 255	0–100%
–	170	206	221	Blue fine 18	000 ⇄ 255	0–100%
94	171	207	222	White 18	000 ⇄ 255	0–100%
–	172	208	223	White fine 18	000 ⇄ 255	0–100%
–	–	209	224	Dimmer 19	000 ⇄ 255	0–100%
–	–	210	225	Dimmer fine 19	000 ⇄ 255	0–100%
95	173	211	226	Red 19	000 ⇄ 255	0–100%
–	174	212	227	Red fine 19	000 ⇄ 255	0–100%
96	175	213	228	Green 19	000 ⇄ 255	0–100%
–	176	214	229	Green fine 19	000 ⇄ 255	0–100%
97	177	215	230	Blue 19	000 ⇄ 255	0–100%
–	178	216	231	Blue fine 19	000 ⇄ 255	0–100%
98	179	217	232	White 19	000 ⇄ 255	0–100%
–	180	218	233	White fine 19	000 ⇄ 255	0–100%
–	–	219	234	Dimmer 20	000 ⇄ 255	0–100%
–	–	220	235	Dimmer fine 20	000 ⇄ 255	0–100%
99	181	221	236	Red 20	000 ⇄ 255	0–100%
–	182	222	237	Red fine 20	000 ⇄ 255	0–100%
100	183	223	238	Green 20	000 ⇄ 255	0–100%
–	184	224	239	Green fine 20	000 ⇄ 255	0–100%
101	185	225	240	Blue 20	000 ⇄ 255	0–100%
–	186	226	241	Blue fine 20	000 ⇄ 255	0–100%
102	187	227	242	White 20	000 ⇄ 255	0–100%
–	188	228	243	White fine 20	000 ⇄ 255	0–100%
–	–	229	244	Dimmer 21	000 ⇄ 255	0–100%
–	–	230	245	Dimmer fine 21	000 ⇄ 255	0–100%
103	189	231	246	Red 21	000 ⇄ 255	0–100%
–	190	232	247	Red fine 21	000 ⇄ 255	0–100%
104	191	233	248	Green 21	000 ⇄ 255	0–100%
–	192	234	249	Green fine 21	000 ⇄ 255	0–100%
105	193	235	250	Blue 21	000 ⇄ 255	0–100%
–	194	236	251	Blue fine 21	000 ⇄ 255	0–100%
106	195	237	252	White 21	000 ⇄ 255	0–100%
–	196	238	253	White fine 21	000 ⇄ 255	0–100%
–	–	239	254	Dimmer 22	000 ⇄ 255	0–100%
–	–	240	255	Dimmer fine 22	000 ⇄ 255	0–100%
107	197	241	256	Red 22	000 ⇄ 255	0–100%
–	198	242	257	Red fine 22	000 ⇄ 255	0–100%
108	199	243	258	Green 22	000 ⇄ 255	0–100%
–	200	244	259	Green fine 22	000 ⇄ 255	0–100%
109	201	245	260	Blue 22	000 ⇄ 255	0–100%
–	202	246	261	Blue fine 22	000 ⇄ 255	0–100%
110	203	247	262	White 22	000 ⇄ 255	0–100%
–	204	248	263	White fine 22	000 ⇄ 255	0–100%

S	A	T	A2	Function	Value	Percent/Setting
–	–	249	264	Dimmer 23	000 ⇄ 255	0–100%
–	–	250	265	Dimmer fine 23	000 ⇄ 255	0–100%
111	205	251	266	Red 23	000 ⇄ 255	0–100%
–	206	252	267	Red fine 23	000 ⇄ 255	0–100%
112	207	253	268	Green 23	000 ⇄ 255	0–100%
–	208	254	269	Green fine 23	000 ⇄ 255	0–100%
113	209	255	270	Blue 23	000 ⇄ 255	0–100%
–	210	256	271	Blue fine 23	000 ⇄ 255	0–100%
114	211	257	272	White 23	000 ⇄ 255	0–100%
–	212	258	273	White fine 23	000 ⇄ 255	0–100%
–	–	259	274	Dimmer 24	000 ⇄ 255	0–100%
–	–	260	275	Dimmer fine 24	000 ⇄ 255	0–100%
115	213	261	276	Red 24	000 ⇄ 255	0–100%
–	214	262	277	Red fine 24	000 ⇄ 255	0–100%
116	215	263	278	Green 24	000 ⇄ 255	0–100%
–	216	264	279	Green fine 24	000 ⇄ 255	0–100%
117	217	265	280	Blue 24	000 ⇄ 255	0–100%
–	218	266	281	Blue fine 24	000 ⇄ 255	0–100%
118	219	267	282	White 24	000 ⇄ 255	0–100%
–	220	268	283	White fine 24	000 ⇄ 255	0–100%
–	–	269	284	Dimmer 25	000 ⇄ 255	0–100%
–	–	270	285	Dimmer fine 25	000 ⇄ 255	0–100%
119	221	271	286	Red 25	000 ⇄ 255	0–100%
–	222	272	287	Red fine 25	000 ⇄ 255	0–100%
120	223	273	288	Green 25	000 ⇄ 255	0–100%
–	224	274	289	Green fine 25	000 ⇄ 255	0–100%
121	225	275	290	Blue 25	000 ⇄ 255	0–100%
–	226	276	291	Blue fine 25	000 ⇄ 255	0–100%
122	227	277	292	White 25	000 ⇄ 255	0–100%
–	228	278	293	White fine 25	000 ⇄ 255	0–100%
–	–	279	294	Dimmer 26	000 ⇄ 255	0–100%
–	–	280	295	Dimmer fine 26	000 ⇄ 255	0–100%
123	229	281	296	Red 26	000 ⇄ 255	0–100%
–	230	282	297	Red fine 26	000 ⇄ 255	0–100%
124	231	283	298	Green 26	000 ⇄ 255	0–100%
–	232	284	299	Green fine 26	000 ⇄ 255	0–100%
125	233	285	300	Blue 26	000 ⇄ 255	0–100%
–	234	286	301	Blue fine 26	000 ⇄ 255	0–100%
126	235	287	302	White 26	000 ⇄ 255	0–100%
–	236	288	303	White fine 26	000 ⇄ 255	0–100%
–	–	289	304	Dimmer 27	000 ⇄ 255	0–100%
–	–	290	305	Dimmer fine 27	000 ⇄ 255	0–100%
127	237	291	306	Red 27	000 ⇄ 255	0–100%
–	238	292	307	Red fine 27	000 ⇄ 255	0–100%
128	239	293	308	Green 27	000 ⇄ 255	0–100%
–	240	294	309	Green fine 27	000 ⇄ 255	0–100%

Operation

S	A	T	A2	Function	Value	Percent/Setting
129	241	295	310	Blue 27	000 ⇄ 255	0–100%
–	242	296	311	Blue fine 27	000 ⇄ 255	0–100%
130	243	297	312	White 27	000 ⇄ 255	0–100%
–	244	298	313	White fine 27	000 ⇄ 255	0–100%
–	–	299	314	Dimmer 28	000 ⇄ 255	0–100%
–	–	300	315	Dimmer fine 28	000 ⇄ 255	0–100%
131	245	301	316	Red 28	000 ⇄ 255	0–100%
–	246	302	317	Red fine 28	000 ⇄ 255	0–100%
132	247	303	318	Green 28	000 ⇄ 255	0–100%
–	248	304	319	Green fine 28	000 ⇄ 255	0–100%
133	249	305	320	Blue 28	000 ⇄ 255	0–100%
–	250	306	321	Blue fine 28	000 ⇄ 255	0–100%
134	251	307	322	White 28	000 ⇄ 255	0–100%
–	252	308	323	White fine 28	000 ⇄ 255	0–100%

Dual Control Movement Values

B: Basic (10 channels), S: Standard (22 channels), A: Advanced (28 channels)

B	S	A	Function	Value	Percent/Setting
1	1	1	Pan	000 ⇔ 255	0–100%
2	2	2	Pan fine	000 ⇔ 255	0–100%
3	3	3	Tilt	000 ⇔ 255	0–100%
4	4	4	Tilt fine	000 ⇔ 255	0–100%
5	5	5	Pan/tilt speed	000 ⇔ 255	0–100%
–	6	6	CTC	000	No function
–	7	7	Color macro	001 ⇔ 255	Color temperature, 19000–2700 K
–	8	8	Gobo	000	No function
–	9	9	LED macro/ Auto program	001 ⇔ 255	Gobos (indexed)
–	10	10	LED macro/ Auto program speed	000 ⇔ 015 016 ⇔ 135 136 ⇔ 255	No function LED macros Auto programs
–	11	11	LED macro delay	000 ⇔ 127 128 129 ⇔ 255	Auto speed, fast to slow Hold Auto speed, slow to fast
–	12	12	LED macro	000 ⇔ 255	Fast to slow
–	13	13	Background color	000 ⇔ 255	See Color Chart
–	–	14	Background dimmer	000 ⇔ 255	0–100%
–	–	15	Background fine dimmer	000 ⇔ 255	0–100%
6	14	15	Main dimmer	000 ⇔ 255	0–100%
–	–	16	Main fine dimmer	000 ⇔ 255	0–100%
7	15	17	Shutter	000 ⇔ 255	See Strobe Chart
8	16	18	Ring Zoom	000 ⇔ 255	Wide to narrow
9	17	19	Main Zoom	000 ⇔ 255	Wide to narrow
10	18	20	Control	000 ⇔ 009	See Control Chart
–	19	21	Main red	000 ⇔ 255	0–100%
–	–	22	Main red fine	000 ⇔ 255	0–100%
–	20	23	Main green	000 ⇔ 255	0–100%
–	–	24	Main green fine	000 ⇔ 255	0–100%
–	21	25	Main blue	000 ⇔ 255	0–100%
–	–	26	Main blue fine	000 ⇔ 255	0–100%
–	22	27	Main white	000 ⇔ 255	0–100%
–	–	28	Main white fine	000 ⇔ 255	0–100%

Operation

Dual Control Pixels Values

B: Basic (84 channels), S: Standard (112 channels), A: Advanced (224 channels)

B	S	A	Function	Value	Percent/Setting
1	1	1	Red 1	000 ⇔ 255	0–100%
–	–	2	Red fine 1	000 ⇔ 255	0–100%
2	2	3	Green 1	000 ⇔ 255	0–100%
–	–	4	Green fine 1	000 ⇔ 255	0–100%
3	3	5	Blue 1	000 ⇔ 255	0–100%
–	–	6	Blue fine 1	000 ⇔ 255	0–100%
–	4	7	White 1	000 ⇔ 255	0–100%
–	–	8	White fine 1	000 ⇔ 255	0–100%
4	5	9	Red 2	000 ⇔ 255	0–100%
–	–	10	Red fine 2	000 ⇔ 255	0–100%
5	6	11	Green 2	000 ⇔ 255	0–100%
–	–	12	Green fine 2	000 ⇔ 255	0–100%
6	7	13	Blue 2	000 ⇔ 255	0–100%
–	–	14	Blue fine 2	000 ⇔ 255	0–100%
–	8	15	White 2	000 ⇔ 255	0–100%
–	–	16	White fine 2	000 ⇔ 255	0–100%
7	9	17	Red 3	000 ⇔ 255	0–100%
–	–	18	Red fine 3	000 ⇔ 255	0–100%
8	10	19	Green 3	000 ⇔ 255	0–100%
–	–	20	Green fine 3	000 ⇔ 255	0–100%
9	11	21	Blue 3	000 ⇔ 255	0–100%
–	–	22	Blue fine 3	000 ⇔ 255	0–100%
–	12	23	White 3	000 ⇔ 255	0–100%
–	–	24	White fine 3	000 ⇔ 255	0–100%
10	13	25	Red 4	000 ⇔ 255	0–100%
–	–	26	Red fine 4	000 ⇔ 255	0–100%
11	14	27	Green 4	000 ⇔ 255	0–100%
–	–	28	Green fine 4	000 ⇔ 255	0–100%
12	15	29	Blue 4	000 ⇔ 255	0–100%
–	–	30	Blue fine 4	000 ⇔ 255	0–100%
–	16	31	White 4	000 ⇔ 255	0–100%
–	–	32	White fine 4	000 ⇔ 255	0–100%
13	17	33	Red 5	000 ⇔ 255	0–100%
–	–	34	Red fine 5	000 ⇔ 255	0–100%
14	18	35	Green 5	000 ⇔ 255	0–100%
–	–	36	Green fine 5	000 ⇔ 255	0–100%
15	19	37	Blue 5	000 ⇔ 255	0–100%
–	–	38	Blue fine 5	000 ⇔ 255	0–100%
–	20	39	White 5	000 ⇔ 255	0–100%
–	–	40	White fine 5	000 ⇔ 255	0–100%
16	21	41	Red 6	000 ⇔ 255	0–100%
–	–	42	Red fine 6	000 ⇔ 255	0–100%
17	22	43	Green 6	000 ⇔ 255	0–100%
–	–	44	Green fine 6	000 ⇔ 255	0–100%

B	S	A	Function	Value	Percent/Setting
18	23	45	Blue 6	000 ⇄ 255	0–100%
–	–	46	Blue fine 6	000 ⇄ 255	0–100%
–	24	47	White 6	000 ⇄ 255	0–100%
–	–	48	White fine 6	000 ⇄ 255	0–100%
19	25	49	Red 7	000 ⇄ 255	0–100%
–	–	50	Red fine 7	000 ⇄ 255	0–100%
20	26	51	Green 7	000 ⇄ 255	0–100%
–	–	52	Green fine 7	000 ⇄ 255	0–100%
21	27	53	Blue 7	000 ⇄ 255	0–100%
–	–	54	Blue fine 7	000 ⇄ 255	0–100%
–	28	55	White 7	000 ⇄ 255	0–100%
–	–	56	White fine 7	000 ⇄ 255	0–100%
22	29	57	Red 8	000 ⇄ 255	0–100%
–	–	58	Red fine 8	000 ⇄ 255	0–100%
23	30	59	Green 8	000 ⇄ 255	0–100%
–	–	60	Green fine 8	000 ⇄ 255	0–100%
24	31	61	Blue 8	000 ⇄ 255	0–100%
–	–	62	Blue fine 8	000 ⇄ 255	0–100%
–	32	63	White 8	000 ⇄ 255	0–100%
–	–	64	White fine 8	000 ⇄ 255	0–100%
25	33	65	Red 9	000 ⇄ 255	0–100%
–	–	66	Red fine 9	000 ⇄ 255	0–100%
26	34	67	Green 9	000 ⇄ 255	0–100%
–	–	68	Green fine 9	000 ⇄ 255	0–100%
27	35	69	Blue 9	000 ⇄ 255	0–100%
–	–	70	Blue fine 9	000 ⇄ 255	0–100%
–	36	71	White 9	000 ⇄ 255	0–100%
–	–	72	White fine 9	000 ⇄ 255	0–100%
28	37	73	Red 10	000 ⇄ 255	0–100%
–	–	74	Red fine 10	000 ⇄ 255	0–100%
29	38	75	Green 10	000 ⇄ 255	0–100%
–	–	76	Green fine 10	000 ⇄ 255	0–100%
30	39	77	Blue 10	000 ⇄ 255	0–100%
–	–	78	Blue fine 10	000 ⇄ 255	0–100%
–	40	79	White 10	000 ⇄ 255	0–100%
–	–	80	White fine 10	000 ⇄ 255	0–100%
31	41	81	Red 11	000 ⇄ 255	0–100%
–	–	82	Red fine 11	000 ⇄ 255	0–100%
32	42	83	Green 11	000 ⇄ 255	0–100%
–	–	84	Green fine 11	000 ⇄ 255	0–100%
33	43	85	Blue 11	000 ⇄ 255	0–100%
–	–	86	Blue fine 11	000 ⇄ 255	0–100%
–	44	87	White 11	000 ⇄ 255	0–100%
–	–	88	White fine 11	000 ⇄ 255	0–100%
34	45	89	Red 12	000 ⇄ 255	0–100%
–	–	90	Red fine 12	000 ⇄ 255	0–100%

B	S	A	Function	Value	Percent/Setting
35	46	91	Green 12	000 ⇔ 255	0–100%
–	–	92	Green fine 12	000 ⇔ 255	0–100%
36	47	93	Blue 12	000 ⇔ 255	0–100%
–	–	94	Blue fine 12	000 ⇔ 255	0–100%
–	48	95	White 12	000 ⇔ 255	0–100%
–	–	96	White fine 12	000 ⇔ 255	0–100%
37	49	97	Red 13	000 ⇔ 255	0–100%
–	–	98	Red fine 13	000 ⇔ 255	0–100%
38	50	99	Green 13	000 ⇔ 255	0–100%
–	–	100	Green fine 13	000 ⇔ 255	0–100%
39	51	101	Blue 13	000 ⇔ 255	0–100%
–	–	102	Blue fine 13	000 ⇔ 255	0–100%
–	52	103	White 13	000 ⇔ 255	0–100%
–	–	104	White fine 13	000 ⇔ 255	0–100%
40	53	105	Red 14	000 ⇔ 255	0–100%
–	–	106	Red fine 14	000 ⇔ 255	0–100%
41	54	107	Green 14	000 ⇔ 255	0–100%
–	–	108	Green fine 14	000 ⇔ 255	0–100%
42	55	109	Blue 14	000 ⇔ 255	0–100%
–	–	110	Blue fine 14	000 ⇔ 255	0–100%
–	56	111	White 14	000 ⇔ 255	0–100%
–	–	112	White fine 14	000 ⇔ 255	0–100%
43	57	113	Red 15	000 ⇔ 255	0–100%
–	–	114	Red fine 15	000 ⇔ 255	0–100%
44	58	115	Green 15	000 ⇔ 255	0–100%
–	–	116	Green fine 15	000 ⇔ 255	0–100%
45	59	117	Blue 15	000 ⇔ 255	0–100%
–	–	118	Blue fine 15	000 ⇔ 255	0–100%
–	60	119	White 15	000 ⇔ 255	0–100%
–	–	120	White fine 15	000 ⇔ 255	0–100%
46	61	121	Red 16	000 ⇔ 255	0–100%
–	–	122	Red fine 16	000 ⇔ 255	0–100%
47	62	123	Green 16	000 ⇔ 255	0–100%
–	–	124	Green fine 16	000 ⇔ 255	0–100%
48	63	125	Blue 16	000 ⇔ 255	0–100%
–	–	126	Blue fine 16	000 ⇔ 255	0–100%
–	64	127	White 16	000 ⇔ 255	0–100%
–	–	128	White fine 16	000 ⇔ 255	0–100%
49	65	129	Red 17	000 ⇔ 255	0–100%
–	–	130	Red fine 17	000 ⇔ 255	0–100%
50	66	131	Green 17	000 ⇔ 255	0–100%
–	–	132	Green fine 17	000 ⇔ 255	0–100%
51	67	133	Blue 17	000 ⇔ 255	0–100%
–	–	134	Blue fine 17	000 ⇔ 255	0–100%
–	68	135	White 17	000 ⇔ 255	0–100%
–	–	136	White fine 17	000 ⇔ 255	0–100%

B	S	A	Function	Value	Percent/Setting
52	69	137	Red 18	000 ⇄ 255	0–100%
–	–	138	Red fine 18	000 ⇄ 255	0–100%
53	70	139	Green 18	000 ⇄ 255	0–100%
–	–	140	Green fine 18	000 ⇄ 255	0–100%
54	71	141	Blue 18	000 ⇄ 255	0–100%
–	–	142	Blue fine 18	000 ⇄ 255	0–100%
–	72	143	White 18	000 ⇄ 255	0–100%
–	–	144	White fine 18	000 ⇄ 255	0–100%
55	73	145	Red 19	000 ⇄ 255	0–100%
–	–	146	Red fine 19	000 ⇄ 255	0–100%
56	74	147	Green 19	000 ⇄ 255	0–100%
–	–	148	Green fine 19	000 ⇄ 255	0–100%
57	75	149	Blue 19	000 ⇄ 255	0–100%
–	–	150	Blue fine 19	000 ⇄ 255	0–100%
–	76	151	White 19	000 ⇄ 255	0–100%
–	–	152	White fine 19	000 ⇄ 255	0–100%
58	77	153	Red 20	000 ⇄ 255	0–100%
–	–	154	Red fine 20	000 ⇄ 255	0–100%
59	78	155	Green 20	000 ⇄ 255	0–100%
–	–	156	Green fine 20	000 ⇄ 255	0–100%
60	79	157	Blue 20	000 ⇄ 255	0–100%
–	–	158	Blue fine 20	000 ⇄ 255	0–100%
–	80	159	White 20	000 ⇄ 255	0–100%
–	–	160	White fine 20	000 ⇄ 255	0–100%
61	81	161	Red 21	000 ⇄ 255	0–100%
–	–	162	Red fine 21	000 ⇄ 255	0–100%
62	82	163	Green 21	000 ⇄ 255	0–100%
–	–	164	Green fine 21	000 ⇄ 255	0–100%
63	83	165	Blue 21	000 ⇄ 255	0–100%
–	–	166	Blue fine 21	000 ⇄ 255	0–100%
–	84	167	White 21	000 ⇄ 255	0–100%
–	–	168	White fine 21	000 ⇄ 255	0–100%
64	85	169	Red 22	000 ⇄ 255	0–100%
–	–	170	Red fine 22	000 ⇄ 255	0–100%
65	86	171	Green 22	000 ⇄ 255	0–100%
–	–	172	Green fine 22	000 ⇄ 255	0–100%
66	87	173	Blue 22	000 ⇄ 255	0–100%
–	–	174	Blue fine 22	000 ⇄ 255	0–100%
–	88	175	White 22	000 ⇄ 255	0–100%
–	–	176	White fine 22	000 ⇄ 255	0–100%
67	89	177	Red 23	000 ⇄ 255	0–100%
–	–	178	Red fine 23	000 ⇄ 255	0–100%
68	90	179	Green 23	000 ⇄ 255	0–100%
–	–	180	Green fine 23	000 ⇄ 255	0–100%
69	91	181	Blue 23	000 ⇄ 255	0–100%
–	–	182	Blue fine 23	000 ⇄ 255	0–100%

B	S	A	Function	Value	Percent/Setting
–	92	183	White 23	000 ⇔ 255	0–100%
–	–	184	White fine 23	000 ⇔ 255	0–100%
70	93	185	Red 24	000 ⇔ 255	0–100%
–	–	186	Red fine 24	000 ⇔ 255	0–100%
71	94	187	Green 24	000 ⇔ 255	0–100%
–	–	188	Green fine 24	000 ⇔ 255	0–100%
72	95	189	Blue 24	000 ⇔ 255	0–100%
–	–	190	Blue fine 24	000 ⇔ 255	0–100%
–	96	191	White 24	000 ⇔ 255	0–100%
–	–	192	White fine 24	000 ⇔ 255	0–100%
73	97	193	Red 25	000 ⇔ 255	0–100%
–	–	194	Red fine 25	000 ⇔ 255	0–100%
74	98	195	Green 25	000 ⇔ 255	0–100%
–	–	196	Green fine 25	000 ⇔ 255	0–100%
75	99	197	Blue 25	000 ⇔ 255	0–100%
–	–	198	Blue fine 25	000 ⇔ 255	0–100%
–	100	199	White 25	000 ⇔ 255	0–100%
–	–	200	White fine 25	000 ⇔ 255	0–100%
76	101	201	Red 26	000 ⇔ 255	0–100%
–	–	202	Red fine 26	000 ⇔ 255	0–100%
77	102	203	Green 26	000 ⇔ 255	0–100%
–	–	204	Green fine 26	000 ⇔ 255	0–100%
78	103	205	Blue 26	000 ⇔ 255	0–100%
–	–	206	Blue fine 26	000 ⇔ 255	0–100%
–	104	207	White 26	000 ⇔ 255	0–100%
–	–	208	White fine 26	000 ⇔ 255	0–100%
79	105	209	Red 27	000 ⇔ 255	0–100%
–	–	210	Red fine 27	000 ⇔ 255	0–100%
80	106	211	Green 27	000 ⇔ 255	0–100%
–	–	212	Green fine 27	000 ⇔ 255	0–100%
81	107	213	Blue 27	000 ⇔ 255	0–100%
–	–	214	Blue fine 27	000 ⇔ 255	0–100%
–	108	215	White 27	000 ⇔ 255	0–100%
–	–	216	White fine 27	000 ⇔ 255	0–100%
82	109	217	Red 28	000 ⇔ 255	0–100%
–	–	218	Red fine 28	000 ⇔ 255	0–100%
83	110	219	Green 28	000 ⇔ 255	0–100%
–	–	220	Green fine 28	000 ⇔ 255	0–100%
84	111	221	Blue 28	000 ⇔ 255	0–100%
–	–	222	Blue fine 28	000 ⇔ 255	0–100%
–	112	223	White 28	000 ⇔ 255	0–100%
–	–	224	White fine 28	000 ⇔ 255	0–100%

Color Chart

DMX Value	Function	Red Value	Green Value	Blue Value	White Value
000	No function	N/A	N/A	N/A	N/A
001 ⇌ 002	2700K	R: 255	G: 175	B: 0	W: 50
003 ⇌ 004	3200K	R: 243	G: 211	B: 0	W: 55
005 ⇌ 006	4000K	R: 177	G: 177	B: 0	W: 100
007 ⇌ 008	4200K	R: 251	G: 255	B: 8	W: 145
009 ⇌ 010	5600K	R: 109	G: 146	B: 0	W: 210
011 ⇌ 012	6500K	R: 106	G: 157	B: 12	W: 211
013 ⇌ 014	7500K	R: 66	G: 127	B: 11	W: 255
015	Blue	R: 0	G: 0	B: 255	W: 0
016 ⇌ 051	Blue to cyan	R: 0	G: +	B: 255	W: 0
052	Cyan	R: 0	G: 255	B: 255	W: 0
053 ⇌ 088	Cyan to green	R: 0	G: 255	B: –	W: 0
089	Green	R: 0	G: 255	B: 0	W: 0
090 ⇌ 125	Green to yellow	R: +	G: 255	B: 0	W: 0
126	Yellow	R: 255	G: 255	B: 0	W: 0
127 ⇌ 162	Yellow to red	R: 255	G: –	B: 0	W: 0
163	Red	R: 255	G: 0	B: 0	W: 0
164 ⇌ 200	Red to magenta	R: 255	G: 0	B: +	W: 0
201	Magenta	R: 255	G: 0	B: 255	W: 0
202 ⇌ 238	Magenta to blue	R: –	G: 0	B: 255	W: 0
239	Blue	R: 0	G: 0	B: 255	W: 0
240 ⇌ 247	Color fade, fast to slow	N/A	N/A	N/A	N/A
248 ⇌ 255	Color snap, fast to slow	N/A	N/A	N/A	N/A

Strobe Chart

DMX Value	Function	DMX Value	Function
000 ⇌ 019	Off	145 ⇌ 149	On
020 ⇌ 024	On	150 ⇌ 164	Random 0–100% strobe, fast to slow
025 ⇌ 064	Strobe, fast to slow	165 ⇌ 169	On
065 ⇌ 069	On	170 ⇌ 184	Pulse strobe 1, fast to slow
070 ⇌ 084	100–0% strobe, fast to slow	185 ⇌ 189	On
085 ⇌ 089	On	190 ⇌ 204	Random pulse strobe, fast to slow
090 ⇌ 104	0–100% strobe, fast to slow	205 ⇌ 209	On
105 ⇌ 109	On	210 ⇌ 224	100–0–100% strobe, fast to slow
110 ⇌ 124	Random strobe, fast to slow	225 ⇌ 229	On
125 ⇌ 129	On	230 ⇌ 244	Pulse strobe 2, fast to slow
130 ⇌ 144	Random 100–0% strobe, fast to slow	245 ⇌ 255	On

Operation

Control Chart

DMX Value	Function	DMX Value	Function
000 ⇔ 009	No function	115 ⇔ 119	Reserved for future use
010 ⇔ 014	Blackout on pan/tilt	120 ⇔ 124	Fan mode ECO
015 ⇔ 019	Reserved for future use	125 ⇔ 129	Fan mode full
020 ⇔ 024	RGBW color mixing	130 ⇔ 134	Fan mode auto
025 ⇔ 029	CMY color mixing	135 ⇔ 139	Dimmer mode fast
030 ⇔ 034	Combine main and ring	140 ⇔ 144	Dimmer mode smooth
035 ⇔ 039	Disable combine main and ring	145 ⇔ 149	Dimmer curve linear
040 ⇔ 044	Defrost fan on	150 ⇔ 154	Dimmer curve square
045 ⇔ 049	Defrost fan off	155 ⇔ 159	Dimmer curve inverse square
050 ⇔ 054	Reset pan	160 ⇔ 164	Dimmer curve S-curve
055 ⇔ 059	Reset tilt	165 ⇔ 169	WHITE mode
060 ⇔ 064	Zoom reset	170 ⇔ 174	FULL mode
065 ⇔ 066	Zoom reverse on	175 ⇔ 179	Single-color calibration off
067 ⇔ 069	Zoom reverse off	180 ⇔ 184	Single-color calibration on
070 ⇔ 074	Reset all	185 ⇔ 186	PWM 600 Hz
075 ⇔ 079	Reserved for future use	187 ⇔ 188	PWM 1200 Hz
080 ⇔ 084	Reverse pan/tilt	189 ⇔ 190	PWM 2000 Hz
085 ⇔ 089	Reverse pan	191 ⇔ 192	PWM 4000 Hz
090 ⇔ 094	Reverse tilt	193 ⇔ 194	PWM 6000 Hz
095 ⇔ 099	Disable reverse pan	195 ⇔ 196	PWM 15000 Hz
100 ⇔ 104	Disable reverse tilt	197 ⇔ 239	No function
105 ⇔ 109	Disable reverse pan/tilt	240 ⇔ 247	Calibration on
110 ⇔ 112	Preset color HTP on	248 ⇔ 255	Calibration off
113 ⇔ 114	Preset color HTP off		



Preset Color HTP

When preset color HTP is on, manual color controls may be used at the same time as preset color controls.

When preset color HTP is off, preset color controls will override all manual color controls.

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 **NO** (normal pan motion), or **YES** (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 **NO** (normal tilt motion), or **YES** (reversed tilt motion).

Zoom Reverse

To set the orientation of the zoom:

1. Go to the **Setup** main level.
2. Select the **Zoom Reverse** option.
3. Select from **NO** (normal zoom), or **YES** (reversed zoom).

Screen Reverse

To set the orientation of the display:

1. Go to the **Setup** main level.
2. Select the **Screen Reverse** option.
3. Select from **NO** (right-side up), **YES** (upside-down), or **AUTO** (automatic orientation).

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 **090** (90°).

Black out on Movement

To set the product to black out while the pan/tilt, color wheel, or gobo wheels are moving:

1. Go to the **Setup** main level.
2. Select the **BL. O. P/T Move** option.
3. Select from **NO** or **YES**.

Swap Pan and Tilt

To swap the controls for the pan and tilt:

1. Go to the **Setup** main level.
2. Select the **Swap XY** option.
3. Select from **NO** (pan controls pan, tilt controls tilt) or **YES** (pan controls tilt, tilt controls pan).

Lock Screen

To swap the controls for the pan and tilt:

1. Go to the **Setup** main level.
2. Select the **Lock Screen** option.
3. Select from **NO** or **YES**.

WDMX Reset

To reset the WDMX connection:

1. Go to the **Setup** main level.
2. Select the **WDMX Reset** option.
3. Select from **NO** or **YES**.

Operation

Display Backlight Timer

To set how long before an inactive display will turn off:

1. Go to the **Setup** main level.
2. Select the **Backlight Timer** option.
3. Select the length of the backlight timer, from **30S** (30 seconds), **1M** (1 minute), **5M** (5 minutes), or **ON** (always on).

Loss of Data

To select how the product will respond to a loss of the control signal:

1. Go to the **Setup** main level.
2. Select the **Loss of Data** option.
3. Select from **Hold** (holds last signal received) or **Close** (blacks out fixture).

Fan Speed

To set the speed of the fans:

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

Color Mixing Mode

To set the color mixing mode:

1. Go to the **Setup** main level.
2. Select the **C Mixing Mode** option.
3. Select **RGBW** (additive mode: red, green, blue, and white), or **CMY** (subtractive mode: red controls cyan, green controls magenta, blue controls yellow).

Dimmer Curve

To set the dimmer curve:

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

Dimmer Speed

To set the dimmer speed:

1. Go to the **Setup** main level.
2. Select the **Dimmer speed** option.
3. Select **Smooth** or **Fast**.

Pulse Width Modulation

To adjust the frequency of the pulse width modulation:

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

Color Balance

To set the maximum values of a given color in the mix:

1. Go to the **Setup** main level.
2. Select the **Color Balance** option.
3. Select from **Red**, **Green**, **Blue**, or **White** options.
4. Select a value from **100–255**

Calibrated White

To set the white mode:

1. Go to the **Setup** main level.
2. Select the **Calibrated White** option.
3. Select from **ON** (uses the factory-calibrated white balance), **OFF** (uses the maximum white values), or **Custom** (uses the custom white values defined under [White Balance](#))

White Balance

To set the custom white balance:

1. Go to the **Setup** main level.
2. Select the **White Balance** option.
3. Select from **Red**, **Green**, **Blue**, or **White**.
4. Select a value from **000–255**.

Merge Channel

To merge the zoom functions:

1. Go to the **Setup** main level.
2. Select the **Merge Channel** option.
1. Select from **NO** or **YES**.

Preset Select

This option saves three different preset menu option configurations. To record and set these presets, follow the instructions below:

1. Go to the **Setup** main level.
2. Select the **Preset Select** option.
3. Select from **PRESET A**, **PRESET B**, or **PRESET C**.
4. The product will reset. Any changes made to the menu options will be saved to this preset.
 - Default is **PRESET A**. Once changes are made inside **PRESET A**, those changes are saved to **PRESET A** without having to do anything.
 - To create a new preset, highlight and select **PRESET SELECT**. Highlight **PRESET B** or **PRESET C** and press **<ENTER>**. The product will reset automatically. Go back and make the necessary changes in the menu. This will automatically save to the present preset.



Preset Sync

To sync all menu presets to other Maverick Storm 3 BeamWashes:

1. Go to the **Setup** main level.
2. Select the **Preset Sync** option.
3. Select **NO** or **YES**.
 - To sync other Maverick Storm 3 BeamWashes, connect those products via DMX cable.
 - The product can be in any control mode except WDMX. ArtNet, DMX, sACN are all acceptable.
 - All menu options are transferred, including the DMX address. Only the IP address is not affected in the other products.



Only connect Maverick Storm 3 BeamWash.

USB Update

To enable or disable software update using USB:

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

See the [USB Software Update](#) section for the detailed instructions on how to update the Maverick Storm 3 BeamWash software using a USB C connection.



Reset function

To reset the pan, tilt, or all functions as if from startup:

1. Go to the **Settings** main level.
2. Select the **Reset Function**.
3. Select from **Pan/ Tilt, Zoom**, or **All**.
4. Select from **NO** or **YES**.

Operation

Factory Reset

To reset the product to factory settings:

1. Go to the **Settings** main level.
2. Select the **Factory Settings** option.
3. Select **NO** (to cancel) or **YES** (to reset the product configuration).

Test Mode

Auto Test

To have the Maverick Storm 3 BeamWash automatically test all functions one after the other:

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

Manual Test

To manually test an individual function of the Maverick Storm 3 BeamWash:

1. Go to the **Test Mode** main level.
2. Select the **Manual Test** option.
3. Select a function to test, from **Pan, Tilt, P/T Speed, Red, Green, Blue, White, CTC, Color, Pattern, LED Macro, LED Ma. Speed, LED Ma. Fade, Background, Background Dim, Dimmer, Shutter, Control, Zoom1, or Zoom2.**
4. Increase or decrease the value of the selected function from **0–255** to test it.

System Information

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

1. Go to the **System Information** main level.
2. Select from the **Fixture Information, Fan Information, Error Information, or Channel Information** options.
3. Use **<UP>** and **<DOWN>** to view all information.

Offset 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: **0920** and press **<ENTER>**.
3. Select the “zero” position to adjust, from **PAN, TILT, ZOOM, MAC4, MAC5, MAC6, RDM4, RDM5, RDM6.**
4. Adjust the “zero” position for the selected function from **000–255.**

Web Server

The Maverick Storm 3 BeamWash Web Server can be accessed by any computer on the same network as the product. It allows network access to system information, settings such as control setup, manual testing of all functions, firmware updates, and the ability to change the Web Server password.

1. Connect the product to power, and set the [Control Mode](#) to **ArtNet** and the [IP Mode](#) to **Static**.
2. Connect the product to a Windows computer with a network cable.
3. On the computer, set the first value of the IP address of the new network to match the first value of the IP address of the product. The IP address of the product is displayed on the [Home Screen](#).
4. Enter the IP address of the product into the URL bar of a web browser on the computer.
5. Enter both the User Name and Password as **admin** to log in.

Information

The Information page on the Web Server displays the current settings and the system information of the Maverick Storm 3 BeamWash.

Setup

The Setup page on the Web Server provides options for control, similar to the **Setup** menu on the product. Click **Save Settings** to send the new configuration to the product.

Manual Test

The Manual Test page on the Web Server allows all output functions of the product to be controlled through the browser. To set all functions back to default, click **Reset**.

Firmware Update

The Upgrade page on the Web Server allows the product to be updated with the latest firmware. Go to <https://www.chauvetprofessional.com> to download firmware updates.

Security

The Security page on the Web Server gives the option to change the password to the connected product's web server. Enter the old password (**admin**, by default) and the new password twice, then click **Save Settings** to change the password.

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 all lighting products 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.



Do not spin the cooling fans with compressed air. Damage may occur.

Torque Measurements

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

- Screws inside feet: 15.3 Kgf.cm, 13.3 lgb.in
- Base screws around outside (not the feet): 53 Kgf.cm, 46 lgb.in
- Base screws in middle: 89.7 Kgf.cm, 77.8 lgb.in
- Omega bracket holder: 12.2 Kgf.cm, 10.6 lgb.in
- Front and rear base cover: 25.5 Kgf.cm, 22.1 lgb.in
- Screws around power and data ports: 35.6 Kgf.cm, 30 lgb.in
- Fuse: 10.7 Kgf.cm, 9.2 lgb.in
- Center of yoke plate: 25.5 Kgf.cm, 22.1 lgb.in
- Arm cover screws: 25.5 Kgf.cm, 22.1 lgb.in
- Allen Key screws holding in front lens cover: 15.2 Kgf.cm, 13.2 lgb.in
- Allen Key screws next to heat pipes on the back: 20.3 Kgf.cm, 17.7 lgb.in
- Allen Key screws head covers: 25.5 Kgf.cm, 22.1 lgb.in

Vacuum Test Measurements

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

- Method: Positive
- Test Pressure (kPa): 2.18
- Test Duration (seconds): 60
- PASS State leak pressure (kPa): <0.02

6. Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
18.98 in (482 mm)	11.93 in (303 mm)	23.74 in (603 mm)	82.45 lb (37.4 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, 60 Hz
Consumption	1060 W	1060 W	1020 W	1030 W	1030 W
Operating Current	10.76 A	8.92 A	5.04 A	4.65 A	4.42 A
Fuse/Breaker	T25 A, 750 V	T25 A, 750 V	T25 A, 750 V	T25 A, 750 V	T25 A, 750 V
Power I/O	U.S./Worldwide		UK/Europe		
Power Input Connector	Seetronic Powerkon IP65		Seetronic Powerkon IP65		
Power Cable Plug	Bare wire		Bare wire		

Light Source

Type	Quantity	Power	Current	Lifespan
Quad-color RGBW	28 LED	45 W	3 A	50,000 hours

Photometrics

Beam Angle	Field Angle	Cutoff Angle	Zoom Range
4.6° to 35°	7.9° to 47.7°	9.1° to 53.6°	4.6° to 53.6°
Illuminance		Temperature	
50,855 lux @ 5 m (4.6° field)		2700 to 8000 K	
2,399 lux @ 5 m (47.7° field)			

Thermal

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

Control

DMX I/O Connector	Ethernet I/O Connector	Channel Range
5-pin IP-rated XLR	Neutrik IP-rated RJ45	24Ch, 136Ch, 254Ch, 310Ch, 12Ch-84Ch, 24Ch-112Ch, or 30Ch-224Ch

Ordering

Product Name	Item Name	Item Code	UPC Number
Maverick Storm 3 BeamWash	MAVERICKSTORM3BEAMWASH	08011994	781462223427



UL 1573
CSA C22.2 No. 166
E113093



RoHS



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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.