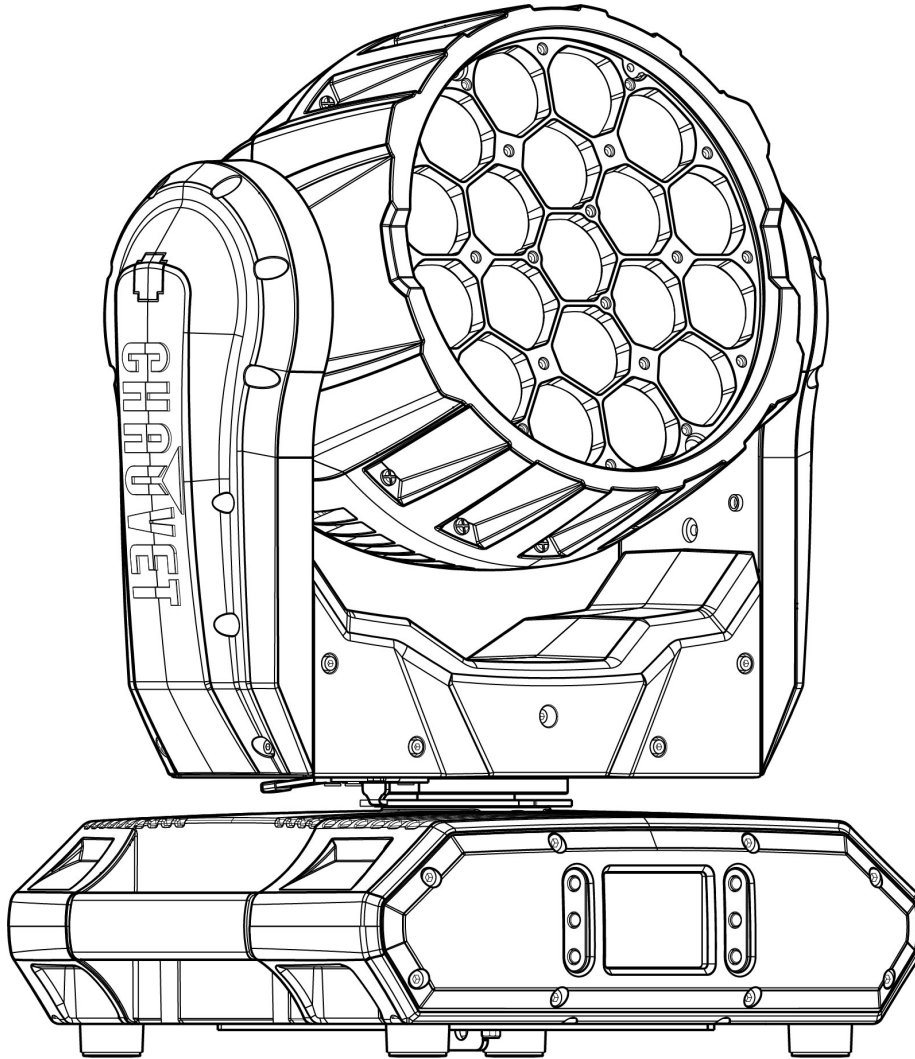


MAVERICK

STORM 1 WASH

User Manual



CHAUVET
PROFESSIONAL

Edition Notes

The Maverick Storm 1 Wash User Manual includes a description, safety precautions, installation, programming, operation and maintenance instructions for the Maverick Storm 1 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

This Maverick Storm 1 Wash User Manual is the 1st edition of this document. Go to www.chauvetprofessional.com for the latest version.

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1. Before You Begin

What Is Included

- Maverick Storm 1 Wash
- Seetronic Powerkon IP65 Power Cord
- 2 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 your 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.

Manual Conventions

Convention	Meaning
1–512	A range of values
50/60	A set of values of which only one can be chosen
<SET>	A button on the product's control panel
Settings	A product function or a menu option

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.
	Important installation or configuration information. The product may not function correctly if this information is not used.
	Useful information.



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.

Personal Safety

- Avoid direct eye exposure to the light source while the product is on.
- Always disconnect the product from the power source before cleaning or replacing the fuse.
- Always connect the product to a grounded circuit to avoid the risk of electrocution.
- Do not touch the product's housing when operating because it may be very hot.

Mounting and Rigging

- Do not submerge this product (IP65). Temporary outdoor operation is fine.
- When using this product in an outdoor environment, use IP65 (or higher) rated power and data cables. Secure unused power and data ports with attached IP65 covers.
- CAUTION: When transferring 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 product to fully acclimate to the surrounding environment before connecting it to power.
- Not for permanent outdoor installation 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 the normal high or low temperatures exceed the temperature ranges in this manual.
 - Locations that are prone to flooding or being buried in snow.
 - Areas where the product will be subjected to extreme radiation or caustic substances.
- Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- Make sure there are no flammable materials close to the product when operating.
- When hanging this product, always secure to a fastening device using a safety cable.

Power and Wiring

- Always make sure you are connecting the product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- Never connect the product to a dimmer pack or rheostat.
- Never disconnect this product by pulling or tugging on the power cable.

Operation

- Do not operate this product if there is damage on the housing, lenses, or cables. Have the damaged parts replaced by an authorized technician at once.
- Do not cover the ventilation slots when operating to avoid internal overheating.
- The maximum ambient temperature is 113 °F (45 °C). Do not operate the 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.
- In the event of a serious operation problem, stop using this product immediately!



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

Expected LED Lifespan

LEDs gradually decline in brightness over time, primarily because of heat. LEDs that are arranged in clusters experience higher operating temperatures than single LEDs. For this reason, operating clustered LEDs at their fullest intensity significantly reduces the LEDs' lifespan. Under normal conditions, this lifespan is 40,000 to 50,000 hours. If extending this lifespan is vital, lower the operating temperature by improving the ventilation around the product, thus reducing the ambient temperature. In addition, limiting the overall projection intensity may extend the LEDs' lifespan.

2. Introduction

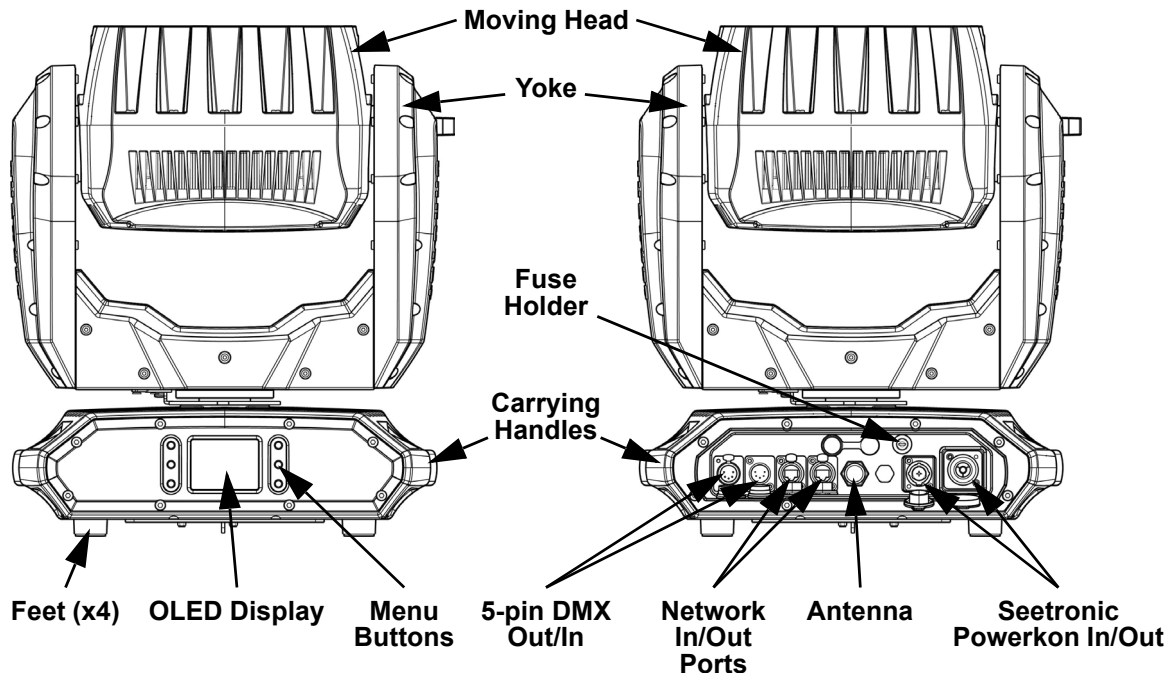
Description

The Maverick Storm 1 Wash is a powerful, IP65-rated RGBW Osram LED moving head. It features a compact and rugged die-cast aluminum housing built with 316 stainless steel screws to withstand even the harshest elements. With an output of 6,000 lumens, its customized optics are well suited for audience and aerial washing, even at larger venues. Pixel-mapping effects and a massive zoom range further add to the unit's versatility; and a virtual gobo wheel with background colors creates an array of immersive atmospheric effects. The RDM-enabled unit features 16-bit dimming and can be controlled via DMX, W-DMX, sACN, and Art-Net™.

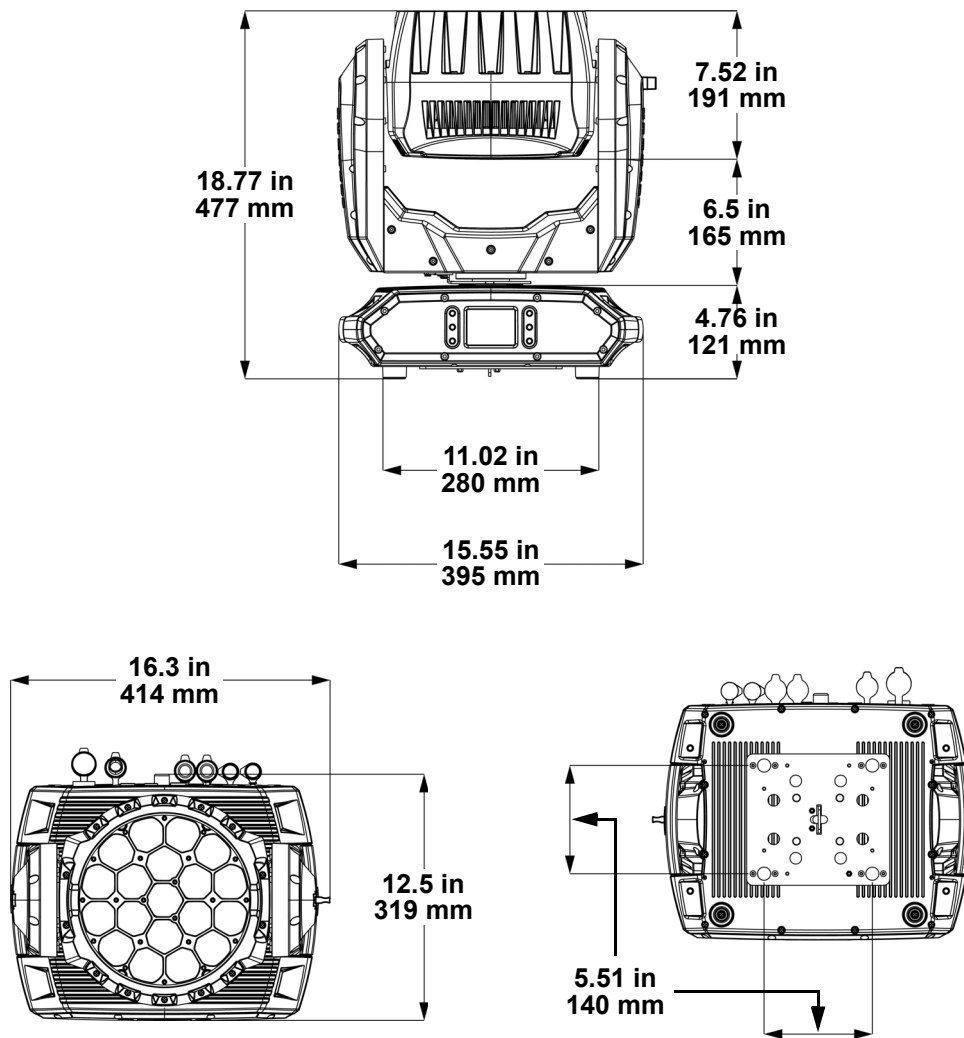
Features

- Fully featured IP65 rated RGBW LED yoke wash fixture with pixel mapping and zoom
- 16-bit dimming of master dimmer as well as individual colors for smooth control of fades
- Built-in colors for quick design possibilities
- Built-in virtual gobo wheel with background colors for impressive atmospheric effects
- Precise movement of pan, tilt, and zoom
- Quiet operation for a wide range of installation situations, both indoor and outdoor
- DMX, W-DMX, S ACN, Art-Net, and Kling-Net control for full flexibility
- RDM Enabled for remote addressing and trouble shooting
- 11° - 42° Zoom angle for variable beam sizes
- True 1 compatible power input/output.
- Battery backup display with auto rotate depending on fixture orientation
- Three setup menu presets and preset sync for cross loading to multiple like-fixtures for easy shop setup

Product Overview



Product Dimensions



3. Setup

AC Power

Each Maverick Storm 1 Wash has an auto-ranging power supply that works with an input voltage range of 100 to 240 VAC, 50/60 Hz. To determine the power requirements for each Maverick Storm 1 Wash, refer to the label affixed to the product. You can also refer to the [Technical Specifications](#) chart in this manual.

The listed current rating indicates the maximum current draw during normal operation. For more information, download Sizing Circuit Breakers from the Chauvet website: www.chauvetprofessional.com.



- **Always connect the product to a protected circuit (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 1 Wash comes with a power input cord terminated with a Seetronic Powerkon A connector on one end and an Edison plug on the other end (U.S. market). If the power input cord that came with your product has no plug, or if you need to change the plug, use the table below to wire the new 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

The product supports power linking. You can power link up to 3 products at 120 V; up to 6 at 208 V; or up to 7 at 230 V.

This product comes with a power input cord. Power linking cables are available from Chauvet for purchase.

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 (F 20 A, 250 V).
4. Screw the fuse holder cap back in place and reconnect power.

Remote Device Management (RDM)

Remote Device Management, or 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 1 Wash supports RDM protocol that allows feedback to make changes to menu map options.

Setup

Mounting

Before mounting the product, read and follow the safety recommendations indicated in the [Safety Notes](#). For our CHAUVET Professional line of mounting clamps, go to <http://trusst.com/products/>.

Orientation

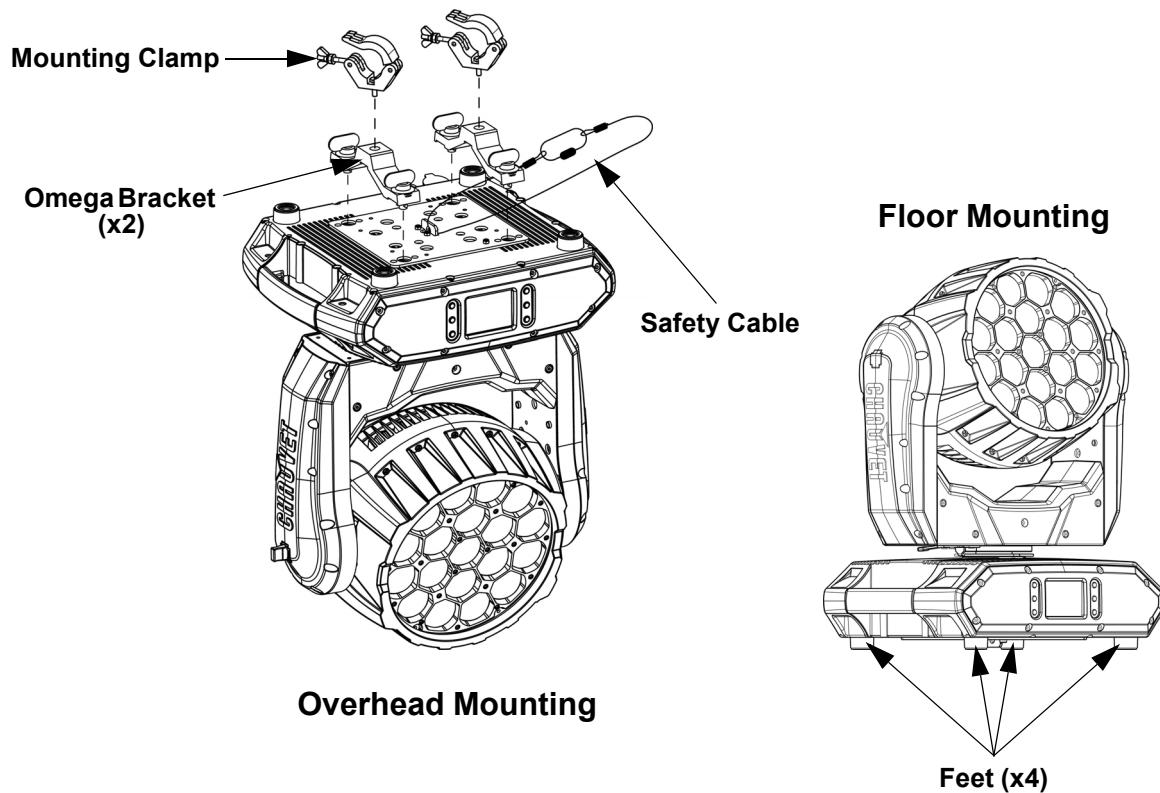
Always mount this product in a safe position and make sure there is adequate room for ventilation, configuration, and maintenance. The Maverick Storm 1 Wash can be suspended upright or upside down using the 2 Omega brackets included, or it can be placed on its rubber feet on a flat level surface.

Rigging

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

- When selecting an installation location, consider easy access to this product for operation, programming adjustments, and routine maintenance.
- The product is not intended for permanent installation.
- Make sure to mount this product away from any flammable material.
- Never mount in places where rain, high humidity, extreme temperature changes, or restricted ventilation may affect the product.
- If hanging this product, make sure that the mounting location can support the product's weight. See the [Technical Specifications](#) for the weight-bearing requirements of this product.
- When hanging this product, always secure to a fastening device using a safety cable. For our CHAUVET Professional line of safety cables, go to <http://trusst.com/products/>.
- When mounting the product on the floor, make sure that the product and cables are away from people and vehicles.
- Place the Maverick Storm 1 Wash so that it can move freely without hitting anything or anybody.
- Leave enough slack on the cables to prevent tension and pull on the plugs.

Mounting Diagram



Signal Connections

The Maverick Storm 1 Wash can receive DMX, WDMX, Art-Net™, sACN, or Kling-Net signal. The Maverick Storm 1 Wash has 2 ethernet ports, and 5-pin DMX in and out ports.

For more information about DMX, read the DMX primer at: https://www.chauvetprofessional.com/wp-content/uploads/2016/06/DMX_Primer.pdf.

For instructions on pairing the Maverick Storm 1 Wash with a WDMX transmitter, see [WDMX Reset](#).

Art-Net™ Connection

Art-Net™ is an Ethernet protocol that uses TCP/IP which transfers a large amount of DMX512 data using an ethernet 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

Also known as ANSI E1.31, streaming ACN is an ethernet protocol that uses the layering and formatting of Architecture for Control Networks to transport DMX512 data over IP or any other ACN compatible network.

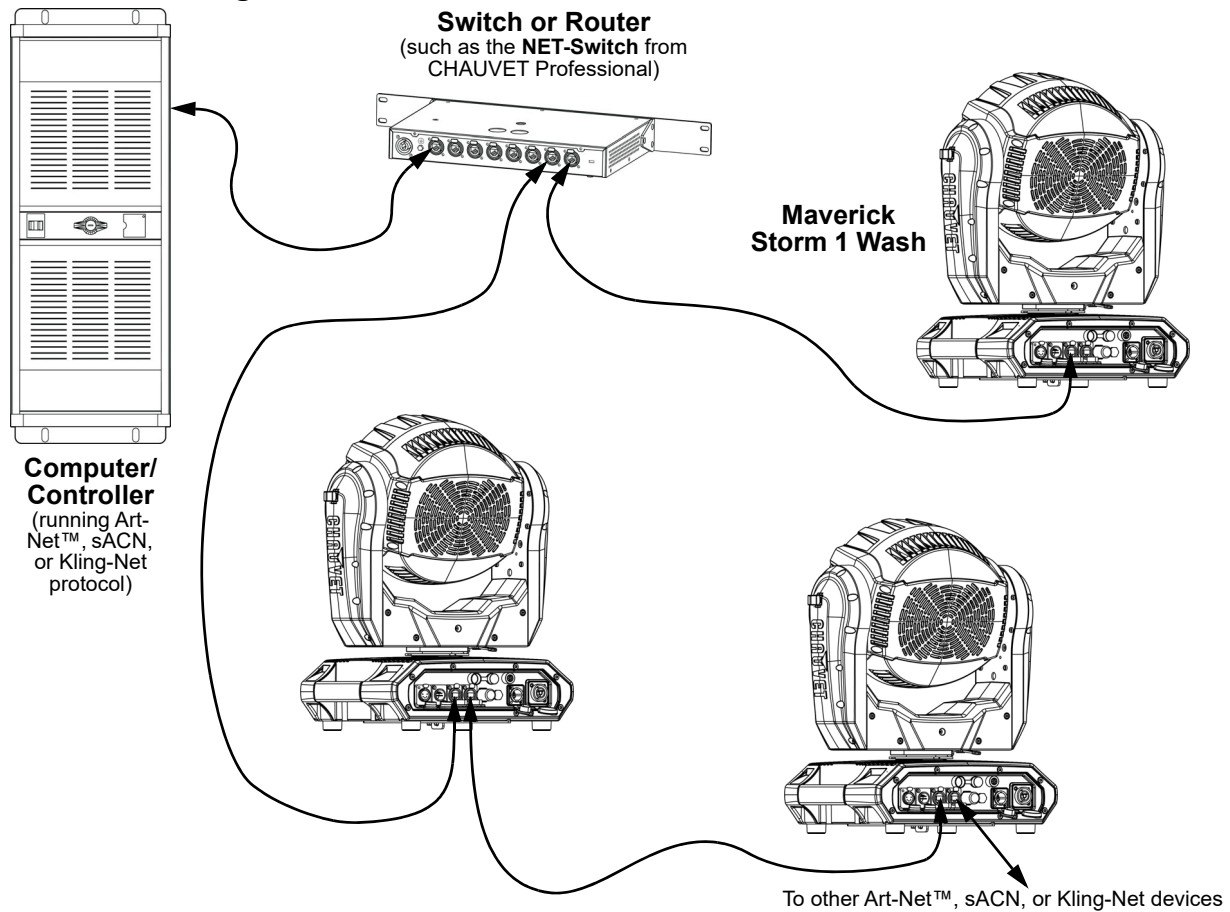
Kling-Net Connection

Kling-Net is a network protocol that allows auto configuration of display devices using an ethernet connection. Refer to the ArKaos software manual for detailed instructions on programming this product.









ArKaos Kling-Net does not support the pan and tilt functions, and must be paired with another protocol for full functionality with the Maverick Storm 1 Wash.

Connection Diagram



4. Operation

Control Panel Description

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

Menu Map

Programming Levels				Description	
Control Settings				Main Level	
Control Settings	Single Control	DMX	Personality	Basic	Sets the DMX personality (see Control Personalities)
				Standard	
				Advanced	
				Tour	
			Start Address	1-512	
		ArtNet	Personality	Basic	Sets the Art-Net™ personality (see Control Personalities)
				Standard	
				Advanced	
				Tour	
			Start Address	1-512	
	sACN	Personality	Basic	Sets the sACN personality (see Control Personalities)	
			Standard		
			Advanced		
			Tour		
		Start Address	1-512		Sets the sACN starting address
	WDMX	Personality	Basic	Sets the WDMX personality (see Control Personalities)	
			Standard		
			Advanced		
			Tour		
		Start Address	1-512		Sets the WDMX starting address

Programming Levels					Description
Control Settings					Main Level
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	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		
KlingNet	Personality		Basic Sets the Kling-Net personality (see Control Personalities)		
		Standard			



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

Programming Levels			Description	
Test Mode			Test Mode Main Level	
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				
Function				
Zoom				
Setup			Setup Main Level	
Setup	Network Settings	IP Mode	Manual	Manually set IP address
			DHCP	Network sets IP address
			Static	Product sets IP address
		IpAddress	---'----'----'- --	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	270	270° 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	
	Lock Screen	NO	Lock the control panel	
		YES	Passcode: 0920	
	Swap XY	NO	Do not swap pan and tilt	
		YES	Pan controls tilt, tilt controls pan	
	WDMX Reset	NO	Do not reset WDMX	
		YES	Reset WDMX	
	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	

Programming Levels		Description	
Setup (cont.)		Setup Main Level (cont.)	
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 (additive mode)	
	CMY	CMY mode (subtractive mode)	
Dimmer Curve	Linear	Set the dimmer curve	
	Square		
	I Squa		
	SCurve		
Dimmer Speed	Smooth	Set the dimmer speed	
	Fast		
PWM Option	600Hz	Sets the Pulse Width Modulation frequency	
	1200Hz		
	2000Hz		
	4000Hz		
	6000Hz		
Color Balance	Red	100–255	Sets red LED maximum value
	Green		Sets green LED maximum value
	Blue		Sets blue LED maximum value
	White		Sets white LED maximum value
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 1 Wash products in the DMX daisy chain	
	YES		
Reset Function	Pan/Tilt	NO	Reset individual functions or all functions from start-up
		YES	
	Zoom	NO	
		YES	
All	NO		
	YES		
Factory Settings	NO	Reset to factory default settings	
	YES		
Sys Info		Sys Info Main Level	
Sys Info	Ver	V_ . _ _ _ _	Shows firmware version
	Running Mode	_ _ _ _	Shows current running mode
	Address	_ _ _ _	Shows current starting address
	Temperature	_ _ _ _	Shows current product temperature in °C
	Fixture Hours	_ _ _ _ _	Shows number of hours product has been powered on
	Ip	_ _ _ _ . _ _ _ . _ _ _ _	Shows current IP address
	SubMask	_ _ _ _ . _ _ _ . _ _ _ _	Shows current Subnet Mask
	MAC	_ _ : _ _ : _ _ : _ _ : _ _ : _ _	Shows current MAC address
Fan Information	Head Fan1 Speed	_ _ _ _	Shows speed of head fans in rpm
	Head Fan2 Speed	_ _ _ _	
Error Information	No Error!*		Shows any errors, or No Error!

Programming Levels		Description
Sys Info (cont.)		Sys Info Main Level (cont.)
Sys Info (cont.)	Channel Information	---
	Frequency	
	Pan	
	Pan Fine	
	Tilt	
	Tilt Fine	
	CTC	
	Color	
	Pattern	
	LED Macro	
	LED Ma. Speed	
	LED Ma. Fine	
	Background	
	Background Dim.	
	Bg. Dim. Fine	
	Dimmer	
	Dimmer Fine	
	Shutter	
	Zoom	
	Function	
	Red (all, 1–19)	
	Red Fine (all, 1–19)	
	Green (all, 1–19)	
	Green fine (all, 1–19)	
	Blue (all, 1–19)	
	Blue Fine (all, 1–19)	
White (all, 1–19)		
White Fine (all, 1–19)		
Dimmer (1–19)		
Dimmer Fine (1–19)		

Protocol Configuration

The Maverick Storm 1 Wash can be set to respond to DMX, WDMX, Art-Net™, sACN, Kling-Net, or a combination of those protocols. The protocol configuration must be set for the product to respond correctly to the controller(s).

Control Personalities

The following control personalities are available on the Maverick Storm 1 Wash:

Single Control	Dual Control Movement	Dual Control Pixels
Basic (20-channel)	Basic (8-channel)	Basic (57-channel)
Standard (96-channel)	Standard (20-channel)	Standard (76-channel)
Advanced (178-channel)	Advanced (26-channel)	Advanced (152-channel)
Tour (216-channel) Uses DMX, Art-Net™, sACN, or WDMX	Uses DMX, Art-Net™, or sACN	Uses DMX, Art-Net™, sACN, or Kling-Net

Single Control

In Single Control mode, the Maverick Storm 1 Wash is controlled by a single protocol input. Choose from DMX, Art-Net™, sACN, or WDMX. In this mode, the four personalities available are **Basic** (20 channels), **Standard** (96 channels), **Advanced** (178 channels), and **Tour** (216 channels).

Single Control Protocol

To select the Single Control protocol, follow the instructions below:

1. Press **<MENU>** repeatedly until the [Home Screen](#) shows on the display. Press **<ENTER>**.
2. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **Control Settings**.
3. Press **<ENTER>**.
4. Use **<UP>** or **<DOWN>** to select **Single Control**.
5. Press **<ENTER>**.
6. Use **<UP>** or **<DOWN>** to select from **DMX**, **ArtNet**, **sACN**, or **WDMX**.
7. Press **<ENTER>**.

Single Control Personality

To select the Single Control personality, set the [Protocol](#), then do the following:

1. Use **<UP>** or **<DOWN>** to select **Personality**.
2. Press **<ENTER>**.
3. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select from **Basic** (20-channel), **Standard** (96-channel), **Advanced** (178-channel), or **Tour** (216-channel).
4. Press **<ENTER>**.



For WDMX control, ensure the antenna is raised and there are no obstructions between the controller and the product. See [WDMX Reset](#) for troubleshooting information.

Single Control Start Address

To set the starting address of the Single Control mode, set the [Protocol](#), then follow the instructions below:

1. Use **<UP>** or **<DOWN>** to select **Start Address**.
2. Press **<ENTER>**.
3. Enter the starting address (**1–512**) using the buttons:
 - a. Use **<LEFT>** or **<RIGHT>** to select the digit to be altered.
 - b. Use **<UP>** or **<DOWN>** to increase or decrease the number value of that digit.
 - c. Repeat until the address is set as desired.
4. Press **<ENTER>**.

Single Control Universe

To set the Universe address of the Single Control mode when using Art-Net™ or sACN, set the [Protocol](#) to **ArtNet** or **sACN**, then do the following:

1. Use **<UP>** or **<DOWN>** to select **Universe**.
2. Press **<ENTER>**.
3. Enter the universe address (**0–255** for Art-Net™ or **1–256** for sACN) using the buttons:
 - a. Use **<LEFT>** or **<RIGHT>** to select the digit to be altered.
 - b. Use **<UP>** or **<DOWN>** to increase or decrease the number value of that digit.
 - c. Repeat until the address is set as desired.
4. Press **<ENTER>**.

Operation

Dual Control

In Dual Control mode, the Maverick Storm 1 Wash is controlled by two protocol inputs. One controls the movement of the yoke and zoom, as well as the dimmers and shutter, while the other controls the individual LED output.

Dual Control Movement

The Movement protocol controls the movement of the yoke and zoom, as well as the dimmers and shutter. Choose from DMX, Art-Net™, or sACN. In this mode, the three personalities available are **Basic** (8 channels), **Standard** (20 channels), and **Advanced** (26 channels).

Dual Control Movement Protocol

To select the Dual Control Movement protocol, follow the instructions below:

1. Press **<MENU>** repeatedly until the [Home Screen](#) shows on the display. Press **<ENTER>**.
2. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **Control Settings**.
3. Press **<ENTER>**.
4. Use **<UP>** or **<DOWN>** to select **Dual Control**.
5. Press **<ENTER>**.
6. Use **<UP>** or **<DOWN>** to select **Movement**.
7. Press **<ENTER>**.
8. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select from **DMX**, **ArtNet**, or **sACN**.
9. Press **<ENTER>**.

Dual Control Movement Personality

To select the Dual Control Movement personality, set the [Protocol](#), then do the following:

1. Use **<UP>** or **<DOWN>** to select **Personality**, or touch the display where it says **Personality**.
2. Press **<ENTER>**.
3. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select from **Basic** (8-channel), **Standard** (20-channel), or **Advanced** (26-channel).
4. Press **<ENTER>**.

Dual Control Movement Start Address

To set the starting address of the Dual Control Movement mode, set the [Protocol](#), then follow the instructions below:

1. Use **<UP>** or **<DOWN>** to select **Start Address**.
2. Press **<ENTER>**.
3. Enter the starting address (**1–512**) using the buttons:
 - a. Use **<LEFT>** or **<RIGHT>** to select the digit to be altered.
 - b. Use **<UP>** or **<DOWN>** to increase or decrease the number value of that digit.
 - c. Repeat until the address is set as desired.
4. Press **<ENTER>**.

Dual Control Movement Universe

To set the Universe address of the Dual Control Movement mode when using Art-Net™ or sACN, set the [Protocol](#) to **ArtNet** or **sACN**, then do the following:

1. Use **<UP>** or **<DOWN>** to select **Universe**.
2. Press **<ENTER>**.
3. Enter the universe address (**0–255** for Art-Net™ or **1–256** for sACN) using the buttons:
 - a. Use **<LEFT>** or **<RIGHT>** to select the digit to be altered.
 - b. Use **<UP>** or **<DOWN>** to increase or decrease the number value of that digit.
 - c. Repeat until the address is set as desired.
4. Press **<ENTER>**.

Dual Control Pixels

The Pixels protocol controls the individual output of the LEDs. Choose from DMX, Art-Net™, sACN, or Kling-Net. In this mode, the three personalities available are **Basic** (57 channels), **Standard** (76 channels), and **Advanced** (152 channels).

Dual Control Pixels Protocol

To select the Dual Control Pixels protocol, follow the instructions below:

1. Press **<MENU>** repeatedly until the [Home Screen](#) shows on the display. Press **<ENTER>**.
2. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **Control Settings**.
3. Press **<ENTER>**.
4. Use **<UP>** or **<DOWN>** to select **Dual Control**.
5. Press **<ENTER>**.
6. Use **<UP>** or **<DOWN>** to select **Pixels**.
7. Press **<ENTER>**.
8. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select from **DMX**, **ArtNet**, **sACN**, or **KlingNet**.
9. Press **<ENTER>**.

Dual Control Pixels Personality

To select the Dual Control Pixels personality, set the [Protocol](#), then do the following:

1. Use **<UP>** or **<DOWN>** to select **Personality**.
2. Press **<ENTER>**.
3. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select from **Basic** (57-channel), **Standard** (76-channel), or **Advanced** (152-channel).
4. Press **<ENTER>**.



ArKaos Kling-Net can only be assigned the **Basic** and **Standard** Pixels personalities.

Dual Control Pixels Start Address

To set the starting address of the Dual Control Pixels mode, set the [Protocol](#), then follow the instructions below:

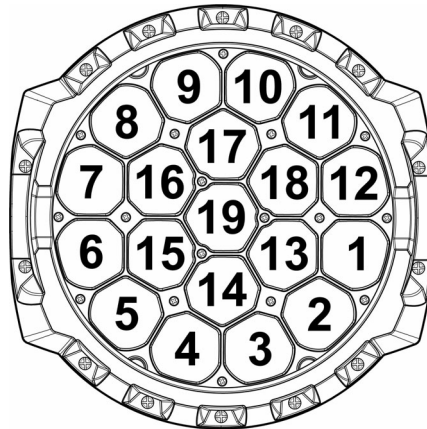
1. Use **<UP>** or **<DOWN>** to select **Start Address**.
2. Press **<ENTER>**.
3. Enter the starting address (**1–512**) using the buttons:
 - a. Use **<LEFT>** or **<RIGHT>** to select the digit to be altered.
 - b. Use **<UP>** or **<DOWN>** to increase or decrease the number value of that digit.
 - c. Repeat until the address is set as desired.
4. Press **<ENTER>**.

Dual Control Pixels Universe

To set the Universe address of the Dual Control Pixels mode when using Art-Net™ or sACN, set the [Protocol](#) to **ArtNet** or **sACN**, then do the following:

1. Use **<UP>** or **<DOWN>** to select **Universe**.
2. Press **<ENTER>**.
3. Enter the universe address (**0–255** for Art-Net™ or **1–256** for sACN) using the buttons:
 - a. Use **<LEFT>** or **<RIGHT>** to select the digit to be altered.
 - b. Use **<UP>** or **<DOWN>** to increase or decrease the number value of that digit.
 - c. Repeat until the address is set as desired.
4. Press **<ENTER>**.

Zones for Pixel Control



Single Control Values

Single Control: Tour Mode (216-channel)

Channel	Function	Value	Percent/Setting
1	Pan	000 ⇔ 255	0–100%
2	Fine Pan	000 ⇔ 255	0–100%
3	Tilt	000 ⇔ 255	0–100%
4	Fine Tilt	000 ⇔ 255	0–100%
5	CTC	000	No function
		001 ⇔ 255	Color temperature, 2800–10000 K
6	Color	000	No function
		001 ⇔ 002	2700K R = 156 G = 118 B = 0 W = 63
		003 ⇔ 004	3200K R = 156 G = 141 B = 5 W = 89
		005 ⇔ 006	4200K R = 156 G = 141 B = 14 W = 255
		007 ⇔ 008	5600K R = 156 G = 207 B = 54 W = 255
		009 ⇔ 010	8000K R = 130 G = 255 B = 96 W = 255
		011	Blue R = 0 G = 0 B = 255 W = 0
		012 ⇔ 048	+ Green R = 0 G = 0–255 B = 255 W = 0
		049	Cyan R = 0 G = 255 B = 255 W = 0
		050 ⇔ 086	- Blue R = 0 G = 255 B = 255–0 W = 0
		087	Green R = 0 G = 255 B = 0 W = 0
		088 ⇔ 124	+ Red R = 0–255 G = 255 B = 0 W = 0
		125	Yellow R = 255 G = 255 B = 0 W = 0
		126 ⇔ 162	- Green R = 255 G = 255–0 B = 0 W = 0
		163	Red R = 255 G = 0 B = 0 W = 0
		164 ⇔ 200	+ Blue R = 255 G = 0 B = 0–255 W = 0
		201	Magenta R = 255 G = 0 B = 255 W = 0
		202 ⇔ 238	- Red R = 255–0 G = 0 B = 255 W = 0
		239	Blue R = 0 G = 0 B = 255 W = 0
		240 ⇔ 247	Color fade, fast to slow
248 ⇔ 255	Color snap, fast to slow		
7	Gobo	000	All on
		001 ⇔ 254	Gobos 1–254
		255	All on
8	LED Macro / Auto Program	000 ⇔ 015	No function
		016 ⇔ 116	LED macros 1–101
		117 ⇔ 135	LED macro 102
		136 ⇔ 237	Auto programs 1–101
		238 ⇔ 255	Auto program 102

Channel	Function	Value	Percent/Setting
9	LED Macro / Auto Program Speed	000 ⇔ 127	Speed, fast to slow
		128	Hold
		129 ⇔ 255	Reverse speed, slow to fast
10	LED Built-in Delay	000 ⇔ 255	Fast to slow
11	Background Color	000	No function
		001 ⇔ 002	2700K R = 156 G = 118 B = 0 W = 63
		003 ⇔ 004	3200K R = 156 G = 141 B = 5 W = 89
		005 ⇔ 006	4200K R = 156 G = 141 B = 14 W = 255
		007 ⇔ 008	5600K R = 156 G = 207 B = 54 W = 255
		009 ⇔ 010	8000K R = 130 G = 255 B = 96 W = 255
		011	Blue R = 0 G = 0 B = 255 W = 0
		012 ⇔ 048	+ Green R = 0 G = 0–255 B = 255 W = 0
		049	Cyan R = 0 G = 255 B = 255 W = 0
		050 ⇔ 086	- Blue R = 0 G = 255 B = 255–0 W = 0
		087	Green R = 0 G = 255 B = 0 W = 0
		088 ⇔ 124	+ Red R = 0–255 G = 255 B = 0 W = 0
		125	Yellow R = 255 G = 255 B = 0 W = 0
		126 ⇔ 162	- Green R = 255 G = 255–0 B = 0 W = 0
		163	Red R = 255 G = 0 B = 0 W = 0
		164 ⇔ 200	+ Blue R = 255 G = 0 B = 0–255 W = 0
		201	Magenta R = 255 G = 0 B = 255 W = 0
		202 ⇔ 238	- Red R = 255–0 G = 0 B = 255 W = 0
		239	Blue R = 0 G = 0 B = 255 W = 0
		240 ⇔ 247	Color fade, fast to slow
248 ⇔ 255	Color snap, fast to slow		
12	Background Dimmer	000 ⇔ 255	0–100%
13	Background Fine Dimmer	000 ⇔ 255	0–100%
14	Main Dimmer	000 ⇔ 255	0–100%
15	Main Fine Dimmer	000 ⇔ 255	0–100%
16	Shutter	000 ⇔ 019	Off
		020 ⇔ 024	On
		025 ⇔ 064	Strobe, fast to slow
		065 ⇔ 069	On
		070 ⇔ 084	Strobe 100–0%, fast to slow
		085 ⇔ 089	On
		090 ⇔ 104	Strobe 0–100%, fast to slow
		105 ⇔ 109	On
		110 ⇔ 124	Random strobe, fast to slow
		125 ⇔ 129	On
		130 ⇔ 144	Random strobe 100–0%, fast to slow
		145 ⇔ 149	On
		150 ⇔ 164	Random strobe 0–100%, fast to slow
		165 ⇔ 169	On
		170 ⇔ 184	Pulse strobe, fast to slow
		185 ⇔ 189	On
		190 ⇔ 204	Random pulse strobe, fast to slow
		205 ⇔ 209	On
210 ⇔ 224	Strobe 100–0–100%, fast to slow		
225 ⇔ 229	On		
230 ⇔ 244	Random pulse strobe, fast to slow		
245 ⇔ 255	On		
17	Zoom	000 ⇔ 255	Wide to narrow

Channel	Function	Value	Percent/Setting
18	Control	000 ⇔ 009	No function
		010 ⇔ 014	Blackout on Pan/Tilt
		015 ⇔ 019	Reserved for future use
		020 ⇔ 024	RGBW (additive) color mixing mode
		025 ⇔ 029	CMY (subtractive) color mixing mode
		030 ⇔ 049	Reserved for future use
		050 ⇔ 054	Pan reset
		055 ⇔ 059	Tilt reset
		060 ⇔ 064	Zoom reset
		065 ⇔ 069	Reserved for future use
		070 ⇔ 074	Reset all
		075 ⇔ 119	Reserved for future use
		120 ⇔ 124	Eco fan mode
		125 ⇔ 129	Full fan mode
		130 ⇔ 134	Auto fan mode
		135 ⇔ 139	Fast dimmer mode
		140 ⇔ 144	Slow dimmer mode
145 ⇔ 255	Reserved for future use		
19	Main Red	000 ⇔ 255	0–100%
20	Main Fine Red	000 ⇔ 255	0–100%
21	Main Green	000 ⇔ 255	0–100%
22	Main Fine Green	000 ⇔ 255	0–100%
23	Main Blue	000 ⇔ 255	0–100%
24	Main Fine Blue	000 ⇔ 255	0–100%
25	Main White	000 ⇔ 255	0–100%
26	Main Fine White	000 ⇔ 255	0–100%
27	Dimmer 1	000 ⇔ 255	0–100%
28	Fine Dimmer 1	000 ⇔ 255	0–100%
29	Red 1	000 ⇔ 255	0–100%
30	Fine Red 1	000 ⇔ 255	0–100%
31	Green 1	000 ⇔ 255	0–100%
32	Fine Green 1	000 ⇔ 255	0–100%
33	Blue 1	000 ⇔ 255	0–100%
34	Fine Blue 1	000 ⇔ 255	0–100%
35	White 1	000 ⇔ 255	0–100%
36	Fine White 1	000 ⇔ 255	0–100%
37	Dimmer 2	000 ⇔ 255	0–100%
38	Fine Dimmer 2	000 ⇔ 255	0–100%
39	Red 2	000 ⇔ 255	0–100%
40	Fine Red 2	000 ⇔ 255	0–100%
41	Green 2	000 ⇔ 255	0–100%
42	Fine Green 2	000 ⇔ 255	0–100%
43	Blue 2	000 ⇔ 255	0–100%
44	Fine Blue 2	000 ⇔ 255	0–100%
45	White 2	000 ⇔ 255	0–100%
46	Fine White 2	000 ⇔ 255	0–100%
47	Dimmer 3	000 ⇔ 255	0–100%
48	Fine Dimmer 3	000 ⇔ 255	0–100%
49	Red 3	000 ⇔ 255	0–100%
50	Fine Red 3	000 ⇔ 255	0–100%
51	Green 3	000 ⇔ 255	0–100%
52	Fine Green 3	000 ⇔ 255	0–100%
53	Blue 3	000 ⇔ 255	0–100%

Channel	Function	Value	Percent/Setting
54	Fine Blue 3	000 ⇔ 255	0–100%
55	White 3	000 ⇔ 255	0–100%
56	Fine White 3	000 ⇔ 255	0–100%
57	Dimmer 4	000 ⇔ 255	0–100%
58	Fine Dimmer 4	000 ⇔ 255	0–100%
59	Red 4	000 ⇔ 255	0–100%
60	Fine Red 4	000 ⇔ 255	0–100%
61	Green 4	000 ⇔ 255	0–100%
62	Fine Green 4	000 ⇔ 255	0–100%
63	Blue 4	000 ⇔ 255	0–100%
64	Fine Blue 4	000 ⇔ 255	0–100%
65	White 4	000 ⇔ 255	0–100%
66	Fine White 4	000 ⇔ 255	0–100%
67	Dimmer 5	000 ⇔ 255	0–100%
68	Fine Dimmer 5	000 ⇔ 255	0–100%
69	Red 5	000 ⇔ 255	0–100%
70	Fine Red 5	000 ⇔ 255	0–100%
71	Green 5	000 ⇔ 255	0–100%
72	Fine Green 5	000 ⇔ 255	0–100%
73	Blue 5	000 ⇔ 255	0–100%
74	Fine Blue 5	000 ⇔ 255	0–100%
75	White 5	000 ⇔ 255	0–100%
76	Fine White 5	000 ⇔ 255	0–100%
77	Dimmer 6	000 ⇔ 255	0–100%
78	Fine Dimmer 6	000 ⇔ 255	0–100%
79	Red 6	000 ⇔ 255	0–100%
80	Fine Red 6	000 ⇔ 255	0–100%
81	Green 6	000 ⇔ 255	0–100%
82	Fine Green 6	000 ⇔ 255	0–100%
83	Blue 6	000 ⇔ 255	0–100%
84	Fine Blue 6	000 ⇔ 255	0–100%
85	White 6	000 ⇔ 255	0–100%
86	Fine White 6	000 ⇔ 255	0–100%
87	Dimmer 7	000 ⇔ 255	0–100%
88	Fine Dimmer 7	000 ⇔ 255	0–100%
89	Red 7	000 ⇔ 255	0–100%
90	Fine Red 7	000 ⇔ 255	0–100%
91	Green 7	000 ⇔ 255	0–100%
92	Fine Green 7	000 ⇔ 255	0–100%
93	Blue 7	000 ⇔ 255	0–100%
94	Fine Blue 7	000 ⇔ 255	0–100%
95	White 7	000 ⇔ 255	0–100%
96	Fine White 7	000 ⇔ 255	0–100%
97	Dimmer 8	000 ⇔ 255	0–100%
98	Fine Dimmer 8	000 ⇔ 255	0–100%
99	Red 8	000 ⇔ 255	0–100%
100	Fine Red 8	000 ⇔ 255	0–100%
101	Green 8	000 ⇔ 255	0–100%
102	Fine Green 8	000 ⇔ 255	0–100%
103	Blue 8	000 ⇔ 255	0–100%
104	Fine Blue 8	000 ⇔ 255	0–100%
105	White 8	000 ⇔ 255	0–100%
106	Fine White 8	000 ⇔ 255	0–100%

Operation

Channel	Function	Value	Percent/Setting
107	Dimmer 9	000 ⇄ 255	0–100%
108	Fine Dimmer 9	000 ⇄ 255	0–100%
109	Red 9	000 ⇄ 255	0–100%
110	Fine Red 9	000 ⇄ 255	0–100%
111	Green 9	000 ⇄ 255	0–100%
112	Fine Green 9	000 ⇄ 255	0–100%
113	Blue 9	000 ⇄ 255	0–100%
114	Fine Blue 9	000 ⇄ 255	0–100%
115	White 9	000 ⇄ 255	0–100%
116	Fine White 9	000 ⇄ 255	0–100%
117	Dimmer 10	000 ⇄ 255	0–100%
118	Fine Dimmer 10	000 ⇄ 255	0–100%
119	Red 10	000 ⇄ 255	0–100%
120	Fine Red 10	000 ⇄ 255	0–100%
121	Green 10	000 ⇄ 255	0–100%
122	Fine Green 10	000 ⇄ 255	0–100%
123	Blue 10	000 ⇄ 255	0–100%
124	Fine Blue 10	000 ⇄ 255	0–100%
125	White 10	000 ⇄ 255	0–100%
126	Fine White 10	000 ⇄ 255	0–100%
127	Dimmer 11	000 ⇄ 255	0–100%
128	Fine Dimmer 11	000 ⇄ 255	0–100%
129	Red 11	000 ⇄ 255	0–100%
130	Fine Red 11	000 ⇄ 255	0–100%
131	Green 11	000 ⇄ 255	0–100%
132	Fine Green 11	000 ⇄ 255	0–100%
133	Blue 11	000 ⇄ 255	0–100%
134	Fine Blue 11	000 ⇄ 255	0–100%
135	White 11	000 ⇄ 255	0–100%
136	Fine White 11	000 ⇄ 255	0–100%
137	Dimmer 12	000 ⇄ 255	0–100%
138	Fine Dimmer 12	000 ⇄ 255	0–100%
139	Red 12	000 ⇄ 255	0–100%
140	Fine Red 12	000 ⇄ 255	0–100%
141	Green 12	000 ⇄ 255	0–100%
142	Fine Green 12	000 ⇄ 255	0–100%
143	Blue 12	000 ⇄ 255	0–100%
144	Fine Blue 12	000 ⇄ 255	0–100%
145	White 12	000 ⇄ 255	0–100%
146	Fine White 12	000 ⇄ 255	0–100%
147	Dimmer 13	000 ⇄ 255	0–100%
148	Fine Dimmer 13	000 ⇄ 255	0–100%
149	Red 13	000 ⇄ 255	0–100%
150	Fine Red 13	000 ⇄ 255	0–100%
151	Green 13	000 ⇄ 255	0–100%
152	Fine Green 13	000 ⇄ 255	0–100%
153	Blue 13	000 ⇄ 255	0–100%
154	Fine Blue 13	000 ⇄ 255	0–100%
155	White 13	000 ⇄ 255	0–100%
156	Fine White 13	000 ⇄ 255	0–100%
157	Dimmer 14	000 ⇄ 255	0–100%
158	Fine Dimmer 14	000 ⇄ 255	0–100%
159	Red 14	000 ⇄ 255	0–100%

Channel	Function	Value	Percent/Setting
160	Fine Red 14	000 ⇔ 255	0–100%
161	Green 14	000 ⇔ 255	0–100%
162	Fine Green 14	000 ⇔ 255	0–100%
163	Blue 14	000 ⇔ 255	0–100%
164	Fine Blue 14	000 ⇔ 255	0–100%
165	White 14	000 ⇔ 255	0–100%
166	Fine White 14	000 ⇔ 255	0–100%
167	Dimmer 15	000 ⇔ 255	0–100%
168	Fine Dimmer 15	000 ⇔ 255	0–100%
169	Red 15	000 ⇔ 255	0–100%
170	Fine Red 15	000 ⇔ 255	0–100%
171	Green 15	000 ⇔ 255	0–100%
172	Fine Green 15	000 ⇔ 255	0–100%
173	Blue 15	000 ⇔ 255	0–100%
174	Fine Blue 15	000 ⇔ 255	0–100%
175	White 15	000 ⇔ 255	0–100%
176	Fine White 15	000 ⇔ 255	0–100%
177	Dimmer 16	000 ⇔ 255	0–100%
178	Fine Dimmer 16	000 ⇔ 255	0–100%
179	Red 16	000 ⇔ 255	0–100%
180	Fine Red 16	000 ⇔ 255	0–100%
181	Green 16	000 ⇔ 255	0–100%
182	Fine Green 16	000 ⇔ 255	0–100%
183	Blue 16	000 ⇔ 255	0–100%
184	Fine Blue 16	000 ⇔ 255	0–100%
185	White 16	000 ⇔ 255	0–100%
186	Fine White 16	000 ⇔ 255	0–100%
187	Dimmer 17	000 ⇔ 255	0–100%
188	Fine Dimmer 17	000 ⇔ 255	0–100%
189	Red 17	000 ⇔ 255	0–100%
190	Fine Red 17	000 ⇔ 255	0–100%
191	Green 17	000 ⇔ 255	0–100%
192	Fine Green 17	000 ⇔ 255	0–100%
193	Blue 17	000 ⇔ 255	0–100%
194	Fine Blue 17	000 ⇔ 255	0–100%
195	White 17	000 ⇔ 255	0–100%
196	Fine White 17	000 ⇔ 255	0–100%
197	Dimmer 18	000 ⇔ 255	0–100%
198	Fine Dimmer 18	000 ⇔ 255	0–100%
199	Red 18	000 ⇔ 255	0–100%
200	Fine Red 18	000 ⇔ 255	0–100%
201	Green 18	000 ⇔ 255	0–100%
202	Fine Green 18	000 ⇔ 255	0–100%
203	Blue 18	000 ⇔ 255	0–100%
204	Fine Blue 18	000 ⇔ 255	0–100%
205	White 18	000 ⇔ 255	0–100%
206	Fine White 18	000 ⇔ 255	0–100%
207	Dimmer 19	000 ⇔ 255	0–100%
208	Fine Dimmer 19	000 ⇔ 255	0–100%
209	Red 19	000 ⇔ 255	0–100%
210	Fine Red 19	000 ⇔ 255	0–100%
211	Green 19	000 ⇔ 255	0–100%
212	Fine Green 19	000 ⇔ 255	0–100%

Operation

Channel	Function	Value	Percent/Setting
213	Blue 19	000 ⇔ 255	0–100%
214	Fine Blue 19	000 ⇔ 255	0–100%
215	White 19	000 ⇔ 255	0–100%
216	Fine White 19	000 ⇔ 255	0–100%

Single Control: Advanced Mode (178-channel)

Channel	Function	Value	Percent/Setting
1	Pan	000 ⇔ 255	0–100%
2	Fine Pan	000 ⇔ 255	0–100%
3	Tilt	000 ⇔ 255	0–100%
4	Fine Tilt	000 ⇔ 255	0–100%
5	CTC	000	No function
		001 ⇔ 255	Color temperature, 2800–10000 K
6	Color	000	No function
		001 ⇔ 002	2700K R = 156 G = 118 B = 0 W = 63
		003 ⇔ 004	3200K R = 156 G = 141 B = 5 W = 89
		005 ⇔ 006	4200K R = 156 G = 141 B = 14 W = 255
		007 ⇔ 008	5600K R = 156 G = 207 B = 54 W = 255
		009 ⇔ 010	8000K R = 130 G = 255 B = 96 W = 255
		011	Blue R = 0 G = 0 B = 255 W = 0
		012 ⇔ 048	+ Green R = 0 G = 0–255 B = 255 W = 0
		049	Cyan R = 0 G = 255 B = 255 W = 0
		050 ⇔ 086	- Blue R = 0 G = 255 B = 255–0 W = 0
		087	Green R = 0 G = 255 B = 0 W = 0
		088 ⇔ 124	+ Red R = 0–255 G = 255 B = 0 W = 0
		125	Yellow R = 255 G = 255 B = 0 W = 0
		126 ⇔ 162	- Green R = 255 G = 255–0 B = 0 W = 0
		163	Red R = 255 G = 0 B = 0 W = 0
		164 ⇔ 200	+ Blue R = 255 G = 0 B = 0–255 W = 0
		201	Magenta R = 255 G = 0 B = 255 W = 0
		202 ⇔ 238	- Red R = 255–0 G = 0 B = 255 W = 0
		239	Blue R = 0 G = 0 B = 255 W = 0
		240 ⇔ 247	Color fade, fast to slow
248 ⇔ 255	Color snap, fast to slow		
7	Gobo	000	All on
		001 ⇔ 254	Gobos 1–254
		255	All on
8	LED Macro / Auto Program	000 ⇔ 015	No function
		016 ⇔ 116	LED macros 1–101
		117 ⇔ 135	LED macro 102
		136 ⇔ 237	Auto programs 1–101
		238 ⇔ 255	Auto program 102
9	LED Macro / Auto Program Speed	000 ⇔ 127	Speed, fast to slow
		128	Hold
		129 ⇔ 255	Reverse speed, slow to fast
10	LED Built-in Delay	000 ⇔ 255	Fast to slow

Channel	Function	Value	Percent/Setting
11	Background Color	000	No function
		001 ⇔ 002	2700K R = 156 G = 118 B = 0 W = 63
		003 ⇔ 004	3200K R = 156 G = 141 B = 5 W = 89
		005 ⇔ 006	4200K R = 156 G = 141 B = 14 W = 255
		007 ⇔ 008	5600K R = 156 G = 207 B = 54 W = 255
		009 ⇔ 010	8000K R = 130 G = 255 B = 96 W = 255
		011	Blue R = 0 G = 0 B = 255 W = 0
		012 ⇔ 048	+ Green R = 0 G = 0–255 B = 255 W = 0
		049	Cyan R = 0 G = 255 B = 255 W = 0
		050 ⇔ 086	- Blue R = 0 G = 255 B = 255–0 W = 0
		087	Green R = 0 G = 255 B = 0 W = 0
		088 ⇔ 124	+ Red R = 0–255 G = 255 B = 0 W = 0
		125	Yellow R = 255 G = 255 B = 0 W = 0
		126 ⇔ 162	- Green R = 255 G = 255–0 B = 0 W = 0
		163	Red R = 255 G = 0 B = 0 W = 0
		164 ⇔ 200	+ Blue R = 255 G = 0 B = 0–255 W = 0
		201	Magenta R = 255 G = 0 B = 255 W = 0
		202 ⇔ 238	- Red R = 255–0 G = 0 B = 255 W = 0
		239	Blue R = 0 G = 0 B = 255 W = 0
		240 ⇔ 247	Color fade, fast to slow
248 ⇔ 255	Color snap, fast to slow		
12	Background Dimmer	000 ⇔ 255	0–100%
13	Background Fine Dimmer	000 ⇔ 255	0–100%
14	Main Dimmer	000 ⇔ 255	0–100%
15	Main Fine Dimmer	000 ⇔ 255	0–100%
16	Shutter	000 ⇔ 019	Off
		020 ⇔ 024	On
		025 ⇔ 064	Strobe, fast to slow
		065 ⇔ 069	On
		070 ⇔ 084	Strobe 100–0%, fast to slow
		085 ⇔ 089	On
		090 ⇔ 104	Strobe 0–100%, fast to slow
		105 ⇔ 109	On
		110 ⇔ 124	Random strobe, fast to slow
		125 ⇔ 129	On
		130 ⇔ 144	Random strobe 100–0%, fast to slow
		145 ⇔ 149	On
		150 ⇔ 164	Random strobe 0–100%, fast to slow
		165 ⇔ 169	On
		170 ⇔ 184	Pulse strobe, fast to slow
		185 ⇔ 189	On
		190 ⇔ 204	Random pulse strobe, fast to slow
		205 ⇔ 209	On
210 ⇔ 224	Strobe 0–100–0%, fast to slow		
225 ⇔ 229	On		
230 ⇔ 244	Random pulse strobe, fast to slow		
245 ⇔ 255	On		
17	Zoom	000 ⇔ 255	Wide to narrow

Channel	Function	Value	Percent/Setting
18	Control	000 ⇔ 009	No function
		010 ⇔ 014	Blackout on Pan/Tilt
		015 ⇔ 019	Reserved for future use
		020 ⇔ 024	RGBW (additive) color mixing mode
		025 ⇔ 029	CMY (subtractive) color mixing mode
		030 ⇔ 049	Reserved for future use
		050 ⇔ 054	Pan reset
		055 ⇔ 059	Tilt reset
		060 ⇔ 064	Zoom reset
		065 ⇔ 069	Reserved for future use
		070 ⇔ 074	Reset all
		075 ⇔ 119	Reserved for future use
		120 ⇔ 124	Eco fan mode
		125 ⇔ 129	Full fan mode
		130 ⇔ 134	Auto fan mode
		135 ⇔ 139	Fast dimmer mode
		140 ⇔ 144	Slow dimmer mode
145 ⇔ 255	Reserved for future use		
19	Main Red	000 ⇔ 255	0–100%
20	Main Fine Red	000 ⇔ 255	0–100%
21	Main Green	000 ⇔ 255	0–100%
22	Main Fine Green	000 ⇔ 255	0–100%
23	Main Blue	000 ⇔ 255	0–100%
24	Main Fine Blue	000 ⇔ 255	0–100%
25	Main White	000 ⇔ 255	0–100%
26	Main Fine White	000 ⇔ 255	0–100%
27	Red 1	000 ⇔ 255	0–100%
28	Fine Red 1	000 ⇔ 255	0–100%
29	Green 1	000 ⇔ 255	0–100%
30	Fine Green 1	000 ⇔ 255	0–100%
31	Blue 1	000 ⇔ 255	0–100%
32	Fine Blue 1	000 ⇔ 255	0–100%
33	White 1	000 ⇔ 255	0–100%
34	Fine White 1	000 ⇔ 255	0–100%
35	Red 2	000 ⇔ 255	0–100%
36	Fine Red 2	000 ⇔ 255	0–100%
37	Green 2	000 ⇔ 255	0–100%
38	Fine Green 2	000 ⇔ 255	0–100%
39	Blue 2	000 ⇔ 255	0–100%
40	Fine Blue 2	000 ⇔ 255	0–100%
41	White 2	000 ⇔ 255	0–100%
42	Fine White 2	000 ⇔ 255	0–100%
43	Red 3	000 ⇔ 255	0–100%
44	Fine Red 3	000 ⇔ 255	0–100%
45	Green 3	000 ⇔ 255	0–100%
46	Fine Green 3	000 ⇔ 255	0–100%
47	Blue 3	000 ⇔ 255	0–100%
48	Fine Blue 3	000 ⇔ 255	0–100%
49	White 3	000 ⇔ 255	0–100%
50	Fine White 3	000 ⇔ 255	0–100%
51	Red 4	000 ⇔ 255	0–100%
52	Fine Red 4	000 ⇔ 255	0–100%
53	Green 4	000 ⇔ 255	0–100%

Channel	Function	Value	Percent/Setting
54	Fine Green 4	000 ⇄ 255	0–100%
55	Blue 4	000 ⇄ 255	0–100%
56	Fine Blue 4	000 ⇄ 255	0–100%
57	White 4	000 ⇄ 255	0–100%
58	Fine White 4	000 ⇄ 255	0–100%
59	Red 5	000 ⇄ 255	0–100%
60	Fine Red 5	000 ⇄ 255	0–100%
61	Green 5	000 ⇄ 255	0–100%
62	Fine Green 5	000 ⇄ 255	0–100%
63	Blue 5	000 ⇄ 255	0–100%
64	Fine Blue 5	000 ⇄ 255	0–100%
65	White 5	000 ⇄ 255	0–100%
66	Fine White 5	000 ⇄ 255	0–100%
67	Red 6	000 ⇄ 255	0–100%
68	Fine Red 6	000 ⇄ 255	0–100%
69	Green 6	000 ⇄ 255	0–100%
70	Fine Green 6	000 ⇄ 255	0–100%
71	Blue 6	000 ⇄ 255	0–100%
72	Fine Blue 6	000 ⇄ 255	0–100%
73	White 6	000 ⇄ 255	0–100%
74	Fine White 6	000 ⇄ 255	0–100%
75	Red 7	000 ⇄ 255	0–100%
76	Fine Red 7	000 ⇄ 255	0–100%
77	Green 7	000 ⇄ 255	0–100%
78	Fine Green 7	000 ⇄ 255	0–100%
79	Blue 7	000 ⇄ 255	0–100%
80	Fine Blue 7	000 ⇄ 255	0–100%
81	White 7	000 ⇄ 255	0–100%
82	Fine White 7	000 ⇄ 255	0–100%
83	Red 8	000 ⇄ 255	0–100%
84	Fine Red 8	000 ⇄ 255	0–100%
85	Green 8	000 ⇄ 255	0–100%
86	Fine Green 8	000 ⇄ 255	0–100%
87	Blue 8	000 ⇄ 255	0–100%
88	Fine Blue 8	000 ⇄ 255	0–100%
89	White 8	000 ⇄ 255	0–100%
90	Fine White 8	000 ⇄ 255	0–100%
91	Red 9	000 ⇄ 255	0–100%
92	Fine Red 9	000 ⇄ 255	0–100%
93	Green 9	000 ⇄ 255	0–100%
94	Fine Green 9	000 ⇄ 255	0–100%
95	Blue 9	000 ⇄ 255	0–100%
96	Fine Blue 9	000 ⇄ 255	0–100%
97	White 9	000 ⇄ 255	0–100%
98	Fine White 9	000 ⇄ 255	0–100%
99	Red 10	000 ⇄ 255	0–100%
100	Fine Red 10	000 ⇄ 255	0–100%
101	Green 10	000 ⇄ 255	0–100%
102	Fine Green 10	000 ⇄ 255	0–100%
103	Blue 10	000 ⇄ 255	0–100%
104	Fine Blue 10	000 ⇄ 255	0–100%
105	White 10	000 ⇄ 255	0–100%
106	Fine White 10	000 ⇄ 255	0–100%

Operation

Channel	Function	Value	Percent/Setting
107	Red 11	000 ⇔ 255	0–100%
108	Fine Red 11	000 ⇔ 255	0–100%
109	Green 11	000 ⇔ 255	0–100%
110	Fine Green 11	000 ⇔ 255	0–100%
111	Blue 11	000 ⇔ 255	0–100%
112	Fine Blue 11	000 ⇔ 255	0–100%
113	White 11	000 ⇔ 255	0–100%
114	Fine White 11	000 ⇔ 255	0–100%
115	Red 12	000 ⇔ 255	0–100%
116	Fine Red 12	000 ⇔ 255	0–100%
117	Green 12	000 ⇔ 255	0–100%
118	Fine Green 12	000 ⇔ 255	0–100%
119	Blue 12	000 ⇔ 255	0–100%
120	Fine Blue 12	000 ⇔ 255	0–100%
121	White 12	000 ⇔ 255	0–100%
122	Fine White 12	000 ⇔ 255	0–100%
123	Red 13	000 ⇔ 255	0–100%
124	Fine Red 13	000 ⇔ 255	0–100%
125	Green 13	000 ⇔ 255	0–100%
126	Fine Green 13	000 ⇔ 255	0–100%
127	Blue 13	000 ⇔ 255	0–100%
128	Fine Blue 13	000 ⇔ 255	0–100%
129	White 13	000 ⇔ 255	0–100%
130	Fine White 13	000 ⇔ 255	0–100%
131	Red 14	000 ⇔ 255	0–100%
132	Fine Red 14	000 ⇔ 255	0–100%
133	Green 14	000 ⇔ 255	0–100%
134	Fine Green 14	000 ⇔ 255	0–100%
135	Blue 14	000 ⇔ 255	0–100%
136	Fine Blue 14	000 ⇔ 255	0–100%
137	White 14	000 ⇔ 255	0–100%
138	Fine White 14	000 ⇔ 255	0–100%
139	Red 15	000 ⇔ 255	0–100%
140	Fine Red 15	000 ⇔ 255	0–100%
141	Green 15	000 ⇔ 255	0–100%
142	Fine Green 15	000 ⇔ 255	0–100%
143	Blue 15	000 ⇔ 255	0–100%
144	Fine Blue 15	000 ⇔ 255	0–100%
145	White 15	000 ⇔ 255	0–100%
146	Fine White 15	000 ⇔ 255	0–100%
147	Red 16	000 ⇔ 255	0–100%
148	Fine Red 16	000 ⇔ 255	0–100%
149	Green 16	000 ⇔ 255	0–100%
150	Fine Green 16	000 ⇔ 255	0–100%
151	Blue 16	000 ⇔ 255	0–100%
152	Fine Blue 16	000 ⇔ 255	0–100%
153	White 16	000 ⇔ 255	0–100%
154	Fine White 16	000 ⇔ 255	0–100%
155	Red 17	000 ⇔ 255	0–100%
156	Fine Red 17	000 ⇔ 255	0–100%
157	Green 17	000 ⇔ 255	0–100%
158	Fine Green 17	000 ⇔ 255	0–100%
159	Blue 17	000 ⇔ 255	0–100%

Channel	Function	Value	Percent/Setting
160	Fine Blue 17	000 ⇔ 255	0–100%
161	White 17	000 ⇔ 255	0–100%
162	Fine White 17	000 ⇔ 255	0–100%
163	Red 18	000 ⇔ 255	0–100%
164	Fine Red 18	000 ⇔ 255	0–100%
165	Green 18	000 ⇔ 255	0–100%
166	Fine Green 18	000 ⇔ 255	0–100%
167	Blue 18	000 ⇔ 255	0–100%
168	Fine Blue 18	000 ⇔ 255	0–100%
169	White 18	000 ⇔ 255	0–100%
170	Fine White 18	000 ⇔ 255	0–100%
171	Red 19	000 ⇔ 255	0–100%
172	Fine Red 19	000 ⇔ 255	0–100%
173	Green 19	000 ⇔ 255	0–100%
174	Fine Green 19	000 ⇔ 255	0–100%
175	Blue 19	000 ⇔ 255	0–100%
176	Fine Blue 19	000 ⇔ 255	0–100%
177	White 19	000 ⇔ 255	0–100%
178	Fine White 19	000 ⇔ 255	0–100%

Single Control: Standard Mode (96-channel)

Channel	Function	Value	Percent/Setting
1	Pan	000 ⇔ 255	0–100%
2	Fine Pan	000 ⇔ 255	0–100%
3	Tilt	000 ⇔ 255	0–100%
4	Fine Tilt	000 ⇔ 255	0–100%
5	CTC	000 001 ⇔ 255	No function Color temperature, 2800–10000 K
6	Color	000 001 ⇔ 002 003 ⇔ 004 005 ⇔ 006 007 ⇔ 008 009 ⇔ 010 011 012 ⇔ 048 049 050 ⇔ 086 087 088 ⇔ 124 125 126 ⇔ 162 163 164 ⇔ 200 201 202 ⇔ 238 239 240 ⇔ 247 248 ⇔ 255	No function 2700K R = 156 G = 118 B = 0 W = 63 3200K R = 156 G = 141 B = 5 W = 89 4200K R = 156 G = 141 B = 14 W = 255 5600K R = 156 G = 207 B = 54 W = 255 8000K R = 130 G = 255 B = 96 W = 255 Blue R = 0 G = 0 B = 255 W = 0 + Green R = 0 G = 0–255 B = 255 W = 0 Cyan R = 0 G = 255 B = 255 W = 0 - Blue R = 0 G = 255 B = 255–0 W = 0 Green R = 0 G = 255 B = 0 W = 0 + Red R = 0–255 G = 255 B = 0 W = 0 Yellow R = 255 G = 255 B = 0 W = 0 - Green R = 255 G = 255–0 B = 0 W = 0 Red R = 255 G = 0 B = 0 W = 0 + Blue R = 255 G = 0 B = 0–255 W = 0 Magenta R = 255 G = 0 B = 255 W = 0 - Red R = 255–0 G = 0 B = 255 W = 0 Blue R = 0 G = 0 B = 255 W = 0 Color fade, fast to slow Color snap, fast to slow
7	Gobo	000 001 ⇔ 254 255	All on Gobos 1–254 All on

Operation



Channel	Function	Value	Percent/Setting
8	LED Macro / Auto Program	000 ⇔ 015	No function
		016 ⇔ 116	LED macros 1–101
		117 ⇔ 135	LED macro 102
		136 ⇔ 237	Auto programs 1–101
		238 ⇔ 255	Auto program 102
9	LED Macro / Auto Program Speed	000 ⇔ 127	Speed, fast to slow
		128	Hold
		129 ⇔ 255	Reverse speed, slow to fast
10	LED Built-in Delay	000 ⇔ 255	Fast to slow
11	Background Color	000	No function
		001 ⇔ 002	2700K R = 156 G = 118 B = 0 W = 63
		003 ⇔ 004	3200K R = 156 G = 141 B = 5 W = 89
		005 ⇔ 006	4200K R = 156 G = 141 B = 14 W = 255
		007 ⇔ 008	5600K R = 156 G = 207 B = 54 W = 255
		009 ⇔ 010	8000K R = 130 G = 255 B = 96 W = 255
		011	Blue R = 0 G = 0 B = 255 W = 0
		012 ⇔ 048	+ Green R = 0 G = 0–255 B = 255 W = 0
		049	Cyan R = 0 G = 255 B = 255 W = 0
		050 ⇔ 086	- Blue R = 0 G = 255 B = 255–0 W = 0
		087	Green R = 0 G = 255 B = 0 W = 0
		088 ⇔ 124	+ Red R = 0–255 G = 255 B = 0 W = 0
		125	Yellow R = 255 G = 255 B = 0 W = 0
		126 ⇔ 162	- Green R = 255 G = 255–0 B = 0 W = 0
		163	Red R = 255 G = 0 B = 0 W = 0
		164 ⇔ 200	+ Blue R = 255 G = 0 B = 0–255 W = 0
		201	Magenta R = 255 G = 0 B = 255 W = 0
		202 ⇔ 238	- Red R = 255–0 G = 0 B = 255 W = 0
		239	Blue R = 0 G = 0 B = 255 W = 0
		240 ⇔ 247	Color fade, fast to slow
248 ⇔ 255	Color snap, fast to slow		
12	Background Dimmer	000 ⇔ 255	0–100%
13	Main Dimmer	000 ⇔ 255	0–100%

Channel	Function	Value	Percent/Setting
14	Shutter	000 ⇔ 019	Off
		020 ⇔ 024	On
		025 ⇔ 064	Strobe, fast to slow
		065 ⇔ 069	On
		070 ⇔ 084	Strobe 100–0%, fast to slow
		085 ⇔ 089	On
		090 ⇔ 104	Strobe 0–100%, fast to slow
		105 ⇔ 109	On
		110 ⇔ 124	Random strobe, fast to slow
		125 ⇔ 129	On
		130 ⇔ 144	Random strobe 100–0%, fast to slow
		145 ⇔ 149	On
		150 ⇔ 164	Random strobe 0–100%, fast to slow
		165 ⇔ 169	On
		170 ⇔ 184	Pulse strobe, fast to slow
		185 ⇔ 189	On
190 ⇔ 204	Random pulse strobe, fast to slow		
205 ⇔ 209	On		
210 ⇔ 224	Strobe 0–100–0%, fast to slow		
225 ⇔ 229	On		
230 ⇔ 244	Random pulse strobe, fast to slow		
245 ⇔ 255	On		
15	Zoom	000 ⇔ 255	Wide to narrow
16	Control	000 ⇔ 009	No function
		010 ⇔ 014	Blackout on Pan/Tilt
		015 ⇔ 019	Reserved for future use
		020 ⇔ 024	RGBW (additive) color mixing mode
		025 ⇔ 029	CMY (subtractive) color mixing mode
		030 ⇔ 049	Reserved for future use
		050 ⇔ 054	Pan reset
		055 ⇔ 059	Tilt reset
		060 ⇔ 064	Zoom reset
		065 ⇔ 069	Reserved for future use
		070 ⇔ 074	Reset all
		075 ⇔ 119	Reserved for future use
		120 ⇔ 124	Eco fan mode
		125 ⇔ 129	Full fan mode
		130 ⇔ 134	Auto fan mode
135 ⇔ 139	Fast dimmer mode		
140 ⇔ 144	Slow dimmer mode		
145 ⇔ 255	Reserved for future use		
17	Main Red	000 ⇔ 255	0–100%
18	Main Green	000 ⇔ 255	0–100%
19	Main Blue	000 ⇔ 255	0–100%
20	Main White	000 ⇔ 255	0–100%
21	Red 1	000 ⇔ 255	0–100%
22	Green 1	000 ⇔ 255	0–100%
23	Blue 1	000 ⇔ 255	0–100%
24	White 1	000 ⇔ 255	0–100%
25	Red 2	000 ⇔ 255	0–100%
26	Green 2	000 ⇔ 255	0–100%
27	Blue 2	000 ⇔ 255	0–100%
28	White 2	000 ⇔ 255	0–100%

Operation

Channel	Function	Value	Percent/Setting
29	Red 3	000 ⇔ 255	0–100%
30	Green 3	000 ⇔ 255	0–100%
31	Blue 3	000 ⇔ 255	0–100%
32	White 3	000 ⇔ 255	0–100%
33	Red 4	000 ⇔ 255	0–100%
34	Green 4	000 ⇔ 255	0–100%
35	Blue 4	000 ⇔ 255	0–100%
36	White 4	000 ⇔ 255	0–100%
37	Red 5	000 ⇔ 255	0–100%
38	Green 5	000 ⇔ 255	0–100%
39	Blue 5	000 ⇔ 255	0–100%
40	White 5	000 ⇔ 255	0–100%
41	Red 6	000 ⇔ 255	0–100%
42	Green 6	000 ⇔ 255	0–100%
43	Blue 6	000 ⇔ 255	0–100%
44	White 6	000 ⇔ 255	0–100%
45	Red 7	000 ⇔ 255	0–100%
46	Green 7	000 ⇔ 255	0–100%
47	Blue 7	000 ⇔ 255	0–100%
48	White 7	000 ⇔ 255	0–100%
49	Red 8	000 ⇔ 255	0–100%
50	Green 8	000 ⇔ 255	0–100%
51	Blue 8	000 ⇔ 255	0–100%
52	White 8	000 ⇔ 255	0–100%
53	Red 9	000 ⇔ 255	0–100%
54	Green 9	000 ⇔ 255	0–100%
55	Blue 9	000 ⇔ 255	0–100%
56	White 9	000 ⇔ 255	0–100%
57	Red 10	000 ⇔ 255	0–100%
58	Green 10	000 ⇔ 255	0–100%
59	Blue 10	000 ⇔ 255	0–100%
60	White 10	000 ⇔ 255	0–100%
61	Red 11	000 ⇔ 255	0–100%
62	Green 11	000 ⇔ 255	0–100%
63	Blue 11	000 ⇔ 255	0–100%
64	White 11	000 ⇔ 255	0–100%
65	Red 12	000 ⇔ 255	0–100%
66	Green 12	000 ⇔ 255	0–100%
67	Blue 12	000 ⇔ 255	0–100%
68	White 12	000 ⇔ 255	0–100%
69	Red 13	000 ⇔ 255	0–100%
70	Green 13	000 ⇔ 255	0–100%
71	Blue 13	000 ⇔ 255	0–100%
72	White 13	000 ⇔ 255	0–100%
73	Red 14	000 ⇔ 255	0–100%
74	Green 14	000 ⇔ 255	0–100%
75	Blue 14	000 ⇔ 255	0–100%
76	White 14	000 ⇔ 255	0–100%
77	Red 15	000 ⇔ 255	0–100%
78	Green 15	000 ⇔ 255	0–100%
79	Blue 15	000 ⇔ 255	0–100%
80	White 15	000 ⇔ 255	0–100%
81	Red 16	000 ⇔ 255	0–100%

Channel	Function	Value	Percent/Setting
82	Green 16	000 ⇔ 255	0–100%
83	Blue 16	000 ⇔ 255	0–100%
84	White 16	000 ⇔ 255	0–100%
85	Red 17	000 ⇔ 255	0–100%
86	Green 17	000 ⇔ 255	0–100%
87	Blue 17	000 ⇔ 255	0–100%
88	White 17	000 ⇔ 255	0–100%
89	Red 18	000 ⇔ 255	0–100%
90	Green 18	000 ⇔ 255	0–100%
91	Blue 18	000 ⇔ 255	0–100%
92	White 18	000 ⇔ 255	0–100%
93	Red 19	000 ⇔ 255	0–100%
94	Green 19	000 ⇔ 255	0–100%
95	Blue 19	000 ⇔ 255	0–100%
96	White 19	000 ⇔ 255	0–100%

Single Control: Basic Mode (20-channel)

Channel	Function	Value	Percent/Setting
1	Pan	000 ⇔ 255	0–100%
2	Fine Pan	000 ⇔ 255	0–100%
3	Tilt	000 ⇔ 255	0–100%
4	Fine Tilt	000 ⇔ 255	0–100%
5	CTC	000 001 ⇔ 255	No function Color temperature, 2800–10000 K
6	Color	000 001 ⇔ 002 003 ⇔ 004 005 ⇔ 006 007 ⇔ 008 009 ⇔ 010 011 012 ⇔ 048 049 050 ⇔ 086 087 088 ⇔ 124 125 126 ⇔ 162 163 164 ⇔ 200 201 202 ⇔ 238 239 240 ⇔ 247 248 ⇔ 255	No function 2700K R = 156 G = 118 B = 0 W = 63 3200K R = 156 G = 141 B = 5 W = 89 4200K R = 156 G = 141 B = 14 W = 255 5600K R = 156 G = 207 B = 54 W = 255 8000K R = 130 G = 255 B = 96 W = 255 Blue R = 0 G = 0 B = 255 W = 0 + Green R = 0 G = 0–255 B = 255 W = 0 Cyan R = 0 G = 255 B = 255 W = 0 - Blue R = 0 G = 255 B = 255–0 W = 0 Green R = 0 G = 255 B = 0 W = 0 + Red R = 0–255 G = 255 B = 0 W = 0 Yellow R = 255 G = 255 B = 0 W = 0 - Green R = 255 G = 255–0 B = 0 W = 0 Red R = 255 G = 0 B = 0 W = 0 + Blue R = 255 G = 0 B = 0–255 W = 0 Magenta R = 255 G = 0 B = 255 W = 0 - Red R = 255–0 G = 0 B = 255 W = 0 Blue R = 0 G = 0 B = 255 W = 0 Color fade, fast to slow Color snap, fast to slow
7	Gobo	000 001 ⇔ 254 255	All on Gobos 1–254 All on

Operation



Channel	Function	Value	Percent/Setting
8	LED Macro / Auto Program	000 ⇔ 015	No function
		016 ⇔ 116	LED macros 1–101
		117 ⇔ 135	LED macro 102
		136 ⇔ 237	Auto programs 1–101
		238 ⇔ 255	Auto program 102
9	LED Macro / Auto Program Speed	000 ⇔ 127	Speed, fast to slow
		128	Hold
		129 ⇔ 255	Reverse speed, slow to fast
10	LED Built-in Delay	000 ⇔ 255	Fast to slow
11	Background Color	000	No function
		001 ⇔ 002	2700K R = 156 G = 118 B = 0 W = 63
		003 ⇔ 004	3200K R = 156 G = 141 B = 5 W = 89
		005 ⇔ 006	4200K R = 156 G = 141 B = 14 W = 255
		007 ⇔ 008	5600K R = 156 G = 207 B = 54 W = 255
		009 ⇔ 010	8000K R = 130 G = 255 B = 96 W = 255
		011	Blue R = 0 G = 0 B = 255 W = 0
		012 ⇔ 048	+ Green R = 0 G = 0–255 B = 255 W = 0
		049	Cyan R = 0 G = 255 B = 255 W = 0
		050 ⇔ 086	- Blue R = 0 G = 255 B = 255–0 W = 0
		087	Green R = 0 G = 255 B = 0 W = 0
		088 ⇔ 124	+ Red R = 0–255 G = 255 B = 0 W = 0
		125	Yellow R = 255 G = 255 B = 0 W = 0
		126 ⇔ 162	- Green R = 255 G = 255–0 B = 0 W = 0
		163	Red R = 255 G = 0 B = 0 W = 0
		164 ⇔ 200	+ Blue R = 255 G = 0 B = 0–255 W = 0
		201	Magenta R = 255 G = 0 B = 255 W = 0
		202 ⇔ 238	- Red R = 255–0 G = 0 B = 255 W = 0
		239	Blue R = 0 G = 0 B = 255 W = 0
		240 ⇔ 247	Color fade, fast to slow
248 ⇔ 255	Color snap, fast to slow		
12	Background Dimmer	000 ⇔ 255	0–100%
13	Main Dimmer	000 ⇔ 255	0–100%

Channel	Function	Value	Percent/Setting
14	Shutter	000 ⇔ 019	Off
		020 ⇔ 024	On
		025 ⇔ 064	Strobe, fast to slow
		065 ⇔ 069	On
		070 ⇔ 084	Strobe 100–0%, fast to slow
		085 ⇔ 089	On
		090 ⇔ 104	Strobe 0–100%, fast to slow
		105 ⇔ 109	On
		110 ⇔ 124	Random strobe, fast to slow
		125 ⇔ 129	On
		130 ⇔ 144	Random strobe 100–0%, fast to slow
		145 ⇔ 149	On
		150 ⇔ 164	Random strobe 0–100%, fast to slow
		165 ⇔ 169	On
		170 ⇔ 184	Pulse strobe, fast to slow
		185 ⇔ 189	On
		190 ⇔ 204	Random pulse strobe, fast to slow
205 ⇔ 209	On		
210 ⇔ 224	Strobe 0–100–0%, fast to slow		
225 ⇔ 229	On		
230 ⇔ 244	Random pulse strobe, fast to slow		
245 ⇔ 255	On		
15	Zoom	000 ⇔ 255	Wide to narrow
16	Control	000 ⇔ 009	No function
		010 ⇔ 014	Blackout on Pan/Tilt
		015 ⇔ 019	Reserved for future use
		020 ⇔ 024	RGBW (additive) color mixing mode
		025 ⇔ 029	CMY (subtractive) color mixing mode
		030 ⇔ 049	Reserved for future use
		050 ⇔ 054	Pan reset
		055 ⇔ 059	Tilt reset
		060 ⇔ 064	Zoom reset
		065 ⇔ 069	Reserved for future use
		070 ⇔ 074	Reset all
		075 ⇔ 119	Reserved for future use
		120 ⇔ 124	Eco fan mode
		125 ⇔ 129	Full fan mode
		130 ⇔ 134	Auto fan mode
135 ⇔ 139	Fast dimmer mode		
140 ⇔ 144	Slow dimmer mode		
145 ⇔ 255	Reserved for future use		
17	Main Red	000 ⇔ 255	0–100%
18	Main Green	000 ⇔ 255	0–100%
19	Main Blue	000 ⇔ 255	0–100%
20	Main White	000 ⇔ 255	0–100%

Operation

Dual Control Values

Dual Control Movement

Dual Control: Advanced Movement Mode (26-channel)

Channel	Function	Value	Percent/Setting
1	Pan	000 ⇔ 255	0–100%
2	Fine Pan	000 ⇔ 255	0–100%
3	Tilt	000 ⇔ 255	0–100%
4	Fine Tilt	000 ⇔ 255	0–100%
5	CTC	000	No function
		001 ⇔ 255	Color temperature, 2800–10000 K
6	Color	000	No function
		001 ⇔ 002	2700K R = 156 G = 118 B = 0 W = 63
		003 ⇔ 004	3200K R = 156 G = 141 B = 5 W = 89
		005 ⇔ 006	4200K R = 156 G = 141 B = 14 W = 255
		007 ⇔ 008	5600K R = 156 G = 207 B = 54 W = 255
		009 ⇔ 010	8000K R = 130 G = 255 B = 96 W = 255
		011	Blue R = 0 G = 0 B = 255 W = 0
		012 ⇔ 048	+ Green R = 0 G = 0–255 B = 255 W = 0
		049	Cyan R = 0 G = 255 B = 255 W = 0
		050 ⇔ 086	- Blue R = 0 G = 255 B = 255–0 W = 0
		087	Green R = 0 G = 255 B = 0 W = 0
		088 ⇔ 124	+ Red R = 0–255 G = 255 B = 0 W = 0
		125	Yellow R = 255 G = 255 B = 0 W = 0
		126 ⇔ 162	- Green R = 255 G = 255–0 B = 0 W = 0
		163	Red R = 255 G = 0 B = 0 W = 0
		164 ⇔ 200	+ Blue R = 255 G = 0 B = 0–255 W = 0
		201	Magenta R = 255 G = 0 B = 255 W = 0
		202 ⇔ 238	- Red R = 255–0 G = 0 B = 255 W = 0
		239	Blue R = 0 G = 0 B = 255 W = 0
		240 ⇔ 247	Color fade, fast to slow
248 ⇔ 255	Color snap, fast to slow		
7	Gobo	000	All on
		001 ⇔ 254	Gobos 1–254
		255	All on
8	LED Macro / Auto Program	000 ⇔ 015	No function
		016 ⇔ 116	LED macros 1–101
		117 ⇔ 135	LED macro 102
		136 ⇔ 237	Auto programs 1–101
		238 ⇔ 255	Auto program 102
9	LED Macro / Auto Program Speed	000 ⇔ 127	Speed, fast to slow
		128	Hold
		129 ⇔ 255	Reverse speed, slow to fast
10	LED Built-in Delay	000 ⇔ 255	Fast to slow

Channel	Function	Value	Percent/Setting
11	Background Color	000	No function
		001 ⇔ 002	2700K R = 156 G = 118 B = 0 W = 63
		003 ⇔ 004	3200K R = 156 G = 141 B = 5 W = 89
		005 ⇔ 006	4200K R = 156 G = 141 B = 14 W = 255
		007 ⇔ 008	5600K R = 156 G = 207 B = 54 W = 255
		009 ⇔ 010	8000K R = 130 G = 255 B = 96 W = 255
		011	Blue R = 0 G = 0 B = 255 W = 0
		012 ⇔ 048	+ Green R = 0 G = 0–255 B = 255 W = 0
		049	Cyan R = 0 G = 255 B = 255 W = 0
		050 ⇔ 086	- Blue R = 0 G = 255 B = 255–0 W = 0
		087	Green R = 0 G = 255 B = 0 W = 0
		088 ⇔ 124	+ Red R = 0–255 G = 255 B = 0 W = 0
		125	Yellow R = 255 G = 255 B = 0 W = 0
		126 ⇔ 162	- Green R = 255 G = 255–0 B = 0 W = 0
		163	Red R = 255 G = 0 B = 0 W = 0
		164 ⇔ 200	+ Blue R = 255 G = 0 B = 0–255 W = 0
		201	Magenta R = 255 G = 0 B = 255 W = 0
		202 ⇔ 238	- Red R = 255–0 G = 0 B = 255 W = 0
		239	Blue R = 0 G = 0 B = 255 W = 0
		240 ⇔ 247	Color fade, fast to slow
		248 ⇔ 255	Color snap, fast to slow
12	Background Dimmer	000 ⇔ 255	0–100%
13	Background Fine Dimmer	000 ⇔ 255	0–100%
14	Main Dimmer	000 ⇔ 255	0–100%
15	Main Fine Dimmer	000 ⇔ 255	0–100%
16	Shutter	000 ⇔ 019	Off
		020 ⇔ 024	On
		025 ⇔ 064	Strobe, fast to slow
		065 ⇔ 069	On
		070 ⇔ 084	Strobe 100–0%, fast to slow
		085 ⇔ 089	On
		090 ⇔ 104	Strobe 0–100%, fast to slow
		105 ⇔ 109	On
		110 ⇔ 124	Random strobe, fast to slow
		125 ⇔ 129	On
		130 ⇔ 144	Random strobe 100–0%, fast to slow
		145 ⇔ 149	On
		150 ⇔ 164	Random strobe 0–100%, fast to slow
		165 ⇔ 169	On
		170 ⇔ 184	Pulse strobe, fast to slow
		185 ⇔ 189	On
		190 ⇔ 204	Random pulse strobe, fast to slow
		205 ⇔ 209	On
210 ⇔ 224	Strobe 0–100–0%, fast to slow		
225 ⇔ 229	On		
230 ⇔ 244	Random pulse strobe, fast to slow		
245 ⇔ 255	On		
17	Zoom	000 ⇔ 255	Wide to narrow

Operation

Channel	Function	Value	Percent/Setting
18	Control	000 ⇔ 009	No function
		010 ⇔ 014	Blackout on Pan/Tilt
		015 ⇔ 019	Reserved for future use
		020 ⇔ 024	RGBW (additive) color mixing mode
		025 ⇔ 029	CMY (subtractive) color mixing mode
		030 ⇔ 049	Reserved for future use
		050 ⇔ 054	Pan reset
		055 ⇔ 059	Tilt reset
		060 ⇔ 064	Zoom reset
		065 ⇔ 069	Reserved for future use
		070 ⇔ 074	Reset all
		075 ⇔ 119	Reserved for future use
		120 ⇔ 124	Eco fan mode
		125 ⇔ 129	Full fan mode
		130 ⇔ 134	Auto fan mode
		135 ⇔ 139	Fast dimmer mode
		140 ⇔ 144	Slow dimmer mode
145 ⇔ 255	Reserved for future use		
19	Main Red	000 ⇔ 255	0–100%
20	Main Fine Red	000 ⇔ 255	0–100%
21	Main Green	000 ⇔ 255	0–100%
22	Main Fine Green	000 ⇔ 255	0–100%
23	Main Blue	000 ⇔ 255	0–100%
24	Main Fine Blue	000 ⇔ 255	0–100%
25	Main White	000 ⇔ 255	0–100%
26	Main Fine White	000 ⇔ 255	0–100%

Dual Control: Standard Movement Mode (20-channel)

Channel	Function	Value	Percent/Setting
1	Pan	000 ⇔ 255	0–100%
2	Fine Pan	000 ⇔ 255	0–100%
3	Tilt	000 ⇔ 255	0–100%
4	Fine Tilt	000 ⇔ 255	0–100%
5	CTC	000	No function
		001 ⇔ 255	Color temperature, 2800–10000 K

Channel	Function	Value	Percent/Setting
6	Color	000	No function
		001 ⇔ 002	2700K R = 156 G = 118 B = 0 W = 63
		003 ⇔ 004	3200K R = 156 G = 141 B = 5 W = 89
		005 ⇔ 006	4200K R = 156 G = 141 B = 14 W = 255
		007 ⇔ 008	5600K R = 156 G = 207 B = 54 W = 255
		009 ⇔ 010	8000K R = 130 G = 255 B = 96 W = 255
		011	Blue R = 0 G = 0 B = 255 W = 0
		012 ⇔ 048	+ Green R = 0 G = 0–255 B = 255 W = 0
		049	Cyan R = 0 G = 255 B = 255 W = 0
		050 ⇔ 086	- Blue R = 0 G = 255 B = 255–0 W = 0
		087	Green R = 0 G = 255 B = 0 W = 0
		088 ⇔ 124	+ Red R = 0–255 G = 255 B = 0 W = 0
		125	Yellow R = 255 G = 255 B = 0 W = 0
		126 ⇔ 162	- Green R = 255 G = 255–0 B = 0 W = 0
		163	Red R = 255 G = 0 B = 0 W = 0
		164 ⇔ 200	+ Blue R = 255 G = 0 B = 0–255 W = 0
		201	Magenta R = 255 G = 0 B = 255 W = 0
		202 ⇔ 238	- Red R = 255–0 G = 0 B = 255 W = 0
		239	Blue R = 0 G = 0 B = 255 W = 0
		240 ⇔ 247	Color fade, fast to slow
248 ⇔ 255	Color snap, fast to slow		
7	Gobo	000	All on
		001 ⇔ 254	Gobos 1–254
		255	All on
8	LED Macro / Auto Program	000 ⇔ 015	No function
		016 ⇔ 116	LED macros 1–101
		117 ⇔ 135	LED macro 102
		136 ⇔ 237	Auto programs 1–101
		238 ⇔ 255	Auto program 102
9	LED Macro / Auto Program Speed	000 ⇔ 127	Speed, fast to slow
		128	Hold
		129 ⇔ 255	Reverse speed, slow to fast
10	LED Built-in Delay	000 ⇔ 255	Fast to slow

Channel	Function	Value	Percent/Setting
11	Background Color	000	No function
		001 ⇔ 002	2700K R = 156 G = 118 B = 0 W = 63
		003 ⇔ 004	3200K R = 156 G = 141 B = 5 W = 89
		005 ⇔ 006	4200K R = 156 G = 141 B = 14 W = 255
		007 ⇔ 008	5600K R = 156 G = 207 B = 54 W = 255
		009 ⇔ 010	8000K R = 130 G = 255 B = 96 W = 255
		011	Blue R = 0 G = 0 B = 255 W = 0
		012 ⇔ 048	+ Green R = 0 G = 0–255 B = 255 W = 0
		049	Cyan R = 0 G = 255 B = 255 W = 0
		050 ⇔ 086	- Blue R = 0 G = 255 B = 255–0 W = 0
		087	Green R = 0 G = 255 B = 0 W = 0
		088 ⇔ 124	+ Red R = 0–255 G = 255 B = 0 W = 0
		125	Yellow R = 255 G = 255 B = 0 W = 0
		126 ⇔ 162	- Green R = 255 G = 255–0 B = 0 W = 0
		163	Red R = 255 G = 0 B = 0 W = 0
		164 ⇔ 200	+ Blue R = 255 G = 0 B = 0–255 W = 0
		201	Magenta R = 255 G = 0 B = 255 W = 0
		202 ⇔ 238	- Red R = 255–0 G = 0 B = 255 W = 0
		239	Blue R = 0 G = 0 B = 255 W = 0
		240 ⇔ 247	Color fade, fast to slow
		248 ⇔ 255	Color snap, fast to slow
		12	Background Dimmer
13	Main Dimmer	000 ⇔ 255	0–100%
14	Shutter	000 ⇔ 019	Off
		020 ⇔ 024	On
		025 ⇔ 064	Strobe, fast to slow
		065 ⇔ 069	On
		070 ⇔ 084	Strobe 100–0%, fast to slow
		085 ⇔ 089	On
		090 ⇔ 104	Strobe 0–100%, fast to slow
		105 ⇔ 109	On
		110 ⇔ 124	Random strobe, fast to slow
		125 ⇔ 129	On
		130 ⇔ 144	Random strobe 100–0%, fast to slow
		145 ⇔ 149	On
		150 ⇔ 164	Random strobe 0–100%, fast to slow
		165 ⇔ 169	On
		170 ⇔ 184	Pulse strobe, fast to slow
		185 ⇔ 189	On
		190 ⇔ 204	Random pulse strobe, fast to slow
		205 ⇔ 209	On
210 ⇔ 224	Strobe 0–100–0%, fast to slow		
225 ⇔ 229	On		
230 ⇔ 244	Random pulse strobe, fast to slow		
245 ⇔ 255	On		
15	Zoom	000 ⇔ 255	Wide to narrow

Channel	Function	Value	Percent/Setting
16	Control	000 ⇔ 009	No function
		010 ⇔ 014	Blackout on Pan/Tilt
		015 ⇔ 019	Reserved for future use
		020 ⇔ 024	RGBW (additive) color mixing mode
		025 ⇔ 029	CMY (subtractive) color mixing mode
		030 ⇔ 049	Reserved for future use
		050 ⇔ 054	Pan reset
		055 ⇔ 059	Tilt reset
		060 ⇔ 064	Zoom reset
		065 ⇔ 069	Reserved for future use
		070 ⇔ 074	Reset all
		075 ⇔ 119	Reserved for future use
		120 ⇔ 124	Eco fan mode
		125 ⇔ 129	Full fan mode
		130 ⇔ 134	Auto fan mode
135 ⇔ 139	Fast dimmer mode		
140 ⇔ 144	Slow dimmer mode		
145 ⇔ 255	Reserved for future use		
17	Main Red	000 ⇔ 255	0–100%
18	Main Green	000 ⇔ 255	0–100%
19	Main Blue	000 ⇔ 255	0–100%
20	Main White	000 ⇔ 255	0–100%

Dual Control: Basic Movement Mode (8-channel)

Channel	Function	Value	Percent/Setting
1	Pan	000 ⇔ 255	0–100%
2	Fine Pan	000 ⇔ 255	0–100%
3	Tilt	000 ⇔ 255	0–100%
4	Fine Tilt	000 ⇔ 255	0–100%
5	Main Dimmer	000 ⇔ 255	0–100%
6	Shutter	000 ⇔ 019	Off
		020 ⇔ 024	On
		025 ⇔ 064	Strobe, fast to slow
		065 ⇔ 069	On
		070 ⇔ 084	Strobe 100–0%, fast to slow
		085 ⇔ 089	On
		090 ⇔ 104	Strobe 0–100%, fast to slow
		105 ⇔ 109	On
		110 ⇔ 124	Random strobe, fast to slow
		125 ⇔ 129	On
		130 ⇔ 144	Random strobe 100–0%, fast to slow
		145 ⇔ 149	On
		150 ⇔ 164	Random strobe 0–100%, fast to slow
		165 ⇔ 169	On
		170 ⇔ 184	Pulse strobe, fast to slow
		185 ⇔ 189	On
		190 ⇔ 204	Random pulse strobe, fast to slow
205 ⇔ 209	On		
210 ⇔ 224	Strobe 0–100–0%, fast to slow		
225 ⇔ 229	On		
230 ⇔ 244	Random pulse strobe, fast to slow		
245 ⇔ 255	On		
7	Zoom	000 ⇔ 255	Wide to narrow

Operation

Channel	Function	Value	Percent/Setting
8	Control	000 ⇔ 009	No function
		010 ⇔ 014	Blackout on Pan/Tilt
		015 ⇔ 019	Reserved for future use
		020 ⇔ 024	RGBW (additive) color mixing mode
		025 ⇔ 029	CMY (subtractive) color mixing mode
		030 ⇔ 049	Reserved for future use
		050 ⇔ 054	Pan reset
		055 ⇔ 059	Tilt reset
		060 ⇔ 064	Zoom reset
		065 ⇔ 069	Reserved for future use
		070 ⇔ 074	Reset all
		075 ⇔ 119	Reserved for future use
		120 ⇔ 124	Eco fan mode
		125 ⇔ 129	Full fan mode
		130 ⇔ 134	Auto fan mode
		135 ⇔ 139	Fast dimmer mode
		140 ⇔ 144	Slow dimmer mode
145 ⇔ 255	Reserved for future use		

Dual Control Pixels

Dual Control: Advanced Pixels Mode (152-channel)

Channel	Function	Value	Percent/Setting
1	Red 1	000 ⇄ 255	0–100%
2	Fine Red 1	000 ⇄ 255	0–100%
3	Green 1	000 ⇄ 255	0–100%
4	Fine Green 1	000 ⇄ 255	0–100%
5	Blue 1	000 ⇄ 255	0–100%
6	Fine Blue 1	000 ⇄ 255	0–100%
7	White 1	000 ⇄ 255	0–100%
8	Fine White 1	000 ⇄ 255	0–100%
9	Red 2	000 ⇄ 255	0–100%
10	Fine Red 2	000 ⇄ 255	0–100%
11	Green 2	000 ⇄ 255	0–100%
12	Fine Green 2	000 ⇄ 255	0–100%
13	Blue 2	000 ⇄ 255	0–100%
14	Fine Blue 2	000 ⇄ 255	0–100%
15	White 2	000 ⇄ 255	0–100%
16	Fine White 2	000 ⇄ 255	0–100%
17	Red 3	000 ⇄ 255	0–100%
18	Fine Red 3	000 ⇄ 255	0–100%
19	Green 3	000 ⇄ 255	0–100%
20	Fine Green 3	000 ⇄ 255	0–100%
21	Blue 3	000 ⇄ 255	0–100%
22	Fine Blue 3	000 ⇄ 255	0–100%
23	White 3	000 ⇄ 255	0–100%
24	Fine White 3	000 ⇄ 255	0–100%
25	Red 4	000 ⇄ 255	0–100%
26	Fine Red 4	000 ⇄ 255	0–100%
27	Green 4	000 ⇄ 255	0–100%
28	Fine Green 4	000 ⇄ 255	0–100%
29	Blue 4	000 ⇄ 255	0–100%
30	Fine Blue 4	000 ⇄ 255	0–100%
31	White 4	000 ⇄ 255	0–100%
32	Fine White 4	000 ⇄ 255	0–100%
33	Red 5	000 ⇄ 255	0–100%
34	Fine Red 5	000 ⇄ 255	0–100%
35	Green 5	000 ⇄ 255	0–100%
36	Fine Green 5	000 ⇄ 255	0–100%
37	Blue 5	000 ⇄ 255	0–100%
38	Fine Blue 5	000 ⇄ 255	0–100%
39	White 5	000 ⇄ 255	0–100%
40	Fine White 5	000 ⇄ 255	0–100%
41	Red 6	000 ⇄ 255	0–100%
42	Fine Red 6	000 ⇄ 255	0–100%
43	Green 6	000 ⇄ 255	0–100%
44	Fine Green 6	000 ⇄ 255	0–100%
45	Blue 6	000 ⇄ 255	0–100%
46	Fine Blue 6	000 ⇄ 255	0–100%
47	White 6	000 ⇄ 255	0–100%
48	Fine White 6	000 ⇄ 255	0–100%
49	Red 7	000 ⇄ 255	0–100%
50	Fine Red 7	000 ⇄ 255	0–100%
51	Green 7	000 ⇄ 255	0–100%

Operation

Channel	Function	Value	Percent/Setting
52	Fine Green 7	000 ⇔ 255	0–100%
53	Blue 7	000 ⇔ 255	0–100%
54	Fine Blue 7	000 ⇔ 255	0–100%
55	White 7	000 ⇔ 255	0–100%
56	Fine White 7	000 ⇔ 255	0–100%
57	Red 8	000 ⇔ 255	0–100%
58	Fine Red 8	000 ⇔ 255	0–100%
59	Green 8	000 ⇔ 255	0–100%
60	Fine Green 8	000 ⇔ 255	0–100%
61	Blue 8	000 ⇔ 255	0–100%
62	Fine Blue 8	000 ⇔ 255	0–100%
63	White 8	000 ⇔ 255	0–100%
64	Fine White 8	000 ⇔ 255	0–100%
65	Red 9	000 ⇔ 255	0–100%
66	Fine Red 9	000 ⇔ 255	0–100%
67	Green 9	000 ⇔ 255	0–100%
68	Fine Green 9	000 ⇔ 255	0–100%
69	Blue 9	000 ⇔ 255	0–100%
70	Fine Blue 9	000 ⇔ 255	0–100%
71	White 9	000 ⇔ 255	0–100%
72	Fine White 9	000 ⇔ 255	0–100%
73	Red 10	000 ⇔ 255	0–100%
74	Fine Red 10	000 ⇔ 255	0–100%
75	Green 10	000 ⇔ 255	0–100%
76	Fine Green 10	000 ⇔ 255	0–100%
77	Blue 10	000 ⇔ 255	0–100%
78	Fine Blue 10	000 ⇔ 255	0–100%
79	White 10	000 ⇔ 255	0–100%
80	Fine White 10	000 ⇔ 255	0–100%
81	Red 11	000 ⇔ 255	0–100%
82	Fine Red 11	000 ⇔ 255	0–100%
83	Green 11	000 ⇔ 255	0–100%
84	Fine Green 11	000 ⇔ 255	0–100%
85	Blue 11	000 ⇔ 255	0–100%
86	Fine Blue 11	000 ⇔ 255	0–100%
87	White 11	000 ⇔ 255	0–100%
88	Fine White 11	000 ⇔ 255	0–100%
89	Red 12	000 ⇔ 255	0–100%
90	Fine Red 12	000 ⇔ 255	0–100%
91	Green 12	000 ⇔ 255	0–100%
92	Fine Green 12	000 ⇔ 255	0–100%
93	Blue 12	000 ⇔ 255	0–100%
94	Fine Blue 12	000 ⇔ 255	0–100%
95	White 12	000 ⇔ 255	0–100%
96	Fine White 12	000 ⇔ 255	0–100%
97	Red 13	000 ⇔ 255	0–100%
98	Fine Red 13	000 ⇔ 255	0–100%
99	Green 13	000 ⇔ 255	0–100%
100	Fine Green 13	000 ⇔ 255	0–100%
101	Blue 13	000 ⇔ 255	0–100%
102	Fine Blue 13	000 ⇔ 255	0–100%
103	White 13	000 ⇔ 255	0–100%
104	Fine White 13	000 ⇔ 255	0–100%

Channel	Function	Value	Percent/Setting
105	Red 14	000 ⇄ 255	0–100%
106	Fine Red 14	000 ⇄ 255	0–100%
107	Green 14	000 ⇄ 255	0–100%
108	Fine Green 14	000 ⇄ 255	0–100%
109	Blue 14	000 ⇄ 255	0–100%
110	Fine Blue 14	000 ⇄ 255	0–100%
111	White 14	000 ⇄ 255	0–100%
112	Fine White 14	000 ⇄ 255	0–100%
113	Red 15	000 ⇄ 255	0–100%
114	Fine Red 15	000 ⇄ 255	0–100%
115	Green 15	000 ⇄ 255	0–100%
116	Fine Green 15	000 ⇄ 255	0–100%
117	Blue 15	000 ⇄ 255	0–100%
118	Fine Blue 15	000 ⇄ 255	0–100%
119	White 15	000 ⇄ 255	0–100%
120	Fine White 15	000 ⇄ 255	0–100%
121	Red 16	000 ⇄ 255	0–100%
122	Fine Red 16	000 ⇄ 255	0–100%
123	Green 16	000 ⇄ 255	0–100%
124	Fine Green 16	000 ⇄ 255	0–100%
125	Blue 16	000 ⇄ 255	0–100%
126	Fine Blue 16	000 ⇄ 255	0–100%
127	White 16	000 ⇄ 255	0–100%
128	Fine White 16	000 ⇄ 255	0–100%
129	Red 17	000 ⇄ 255	0–100%
130	Fine Red 17	000 ⇄ 255	0–100%
131	Green 17	000 ⇄ 255	0–100%
132	Fine Green 17	000 ⇄ 255	0–100%
133	Blue 17	000 ⇄ 255	0–100%
134	Fine Blue 17	000 ⇄ 255	0–100%
135	White 17	000 ⇄ 255	0–100%
136	Fine White 17	000 ⇄ 255	0–100%
137	Red 18	000 ⇄ 255	0–100%
138	Fine Red 18	000 ⇄ 255	0–100%
139	Green 18	000 ⇄ 255	0–100%
140	Fine Green 18	000 ⇄ 255	0–100%
141	Blue 18	000 ⇄ 255	0–100%
142	Fine Blue 18	000 ⇄ 255	0–100%
143	White 18	000 ⇄ 255	0–100%
144	Fine White 18	000 ⇄ 255	0–100%
145	Red 19	000 ⇄ 255	0–100%
146	Fine Red 19	000 ⇄ 255	0–100%
147	Green 19	000 ⇄ 255	0–100%
148	Fine Green 19	000 ⇄ 255	0–100%
149	Blue 19	000 ⇄ 255	0–100%
150	Fine Blue 19	000 ⇄ 255	0–100%
151	White 19	000 ⇄ 255	0–100%
152	Fine White 19	000 ⇄ 255	0–100%

Operation

Dual Control: Standard Pixels Mode (76-channel)

Channel	Function	Value	Percent/Setting
1	Red 1	000 ⇄ 255	0–100%
2	Green 1	000 ⇄ 255	0–100%
3	Blue 1	000 ⇄ 255	0–100%
4	White 1	000 ⇄ 255	0–100%
5	Red 2	000 ⇄ 255	0–100%
6	Green 2	000 ⇄ 255	0–100%
7	Blue 2	000 ⇄ 255	0–100%
8	White 2	000 ⇄ 255	0–100%
9	Red 3	000 ⇄ 255	0–100%
10	Green 3	000 ⇄ 255	0–100%
11	Blue 3	000 ⇄ 255	0–100%
12	White 3	000 ⇄ 255	0–100%
13	Red 4	000 ⇄ 255	0–100%
14	Green 4	000 ⇄ 255	0–100%
15	Blue 4	000 ⇄ 255	0–100%
16	White 4	000 ⇄ 255	0–100%
17	Red 5	000 ⇄ 255	0–100%
18	Green 5	000 ⇄ 255	0–100%
19	Blue 5	000 ⇄ 255	0–100%
20	White 5	000 ⇄ 255	0–100%
21	Red 6	000 ⇄ 255	0–100%
22	Green 6	000 ⇄ 255	0–100%
23	Blue 6	000 ⇄ 255	0–100%
24	White 6	000 ⇄ 255	0–100%
25	Red 7	000 ⇄ 255	0–100%
26	Green 7	000 ⇄ 255	0–100%
27	Blue 7	000 ⇄ 255	0–100%
28	White 7	000 ⇄ 255	0–100%
29	Red 8	000 ⇄ 255	0–100%
30	Green 8	000 ⇄ 255	0–100%
31	Blue 8	000 ⇄ 255	0–100%
32	White 8	000 ⇄ 255	0–100%
33	Red 9	000 ⇄ 255	0–100%
34	Green 9	000 ⇄ 255	0–100%
35	Blue 9	000 ⇄ 255	0–100%
36	White 9	000 ⇄ 255	0–100%
37	Red 10	000 ⇄ 255	0–100%
38	Green 10	000 ⇄ 255	0–100%
39	Blue 10	000 ⇄ 255	0–100%
40	White 10	000 ⇄ 255	0–100%
41	Red 11	000 ⇄ 255	0–100%
42	Green 11	000 ⇄ 255	0–100%
43	Blue 11	000 ⇄ 255	0–100%
44	White 11	000 ⇄ 255	0–100%
45	Red 12	000 ⇄ 255	0–100%
46	Green 12	000 ⇄ 255	0–100%
47	Blue 12	000 ⇄ 255	0–100%
48	White 12	000 ⇄ 255	0–100%
49	Red 13	000 ⇄ 255	0–100%
50	Green 13	000 ⇄ 255	0–100%
51	Blue 13	000 ⇄ 255	0–100%
52	White 13	000 ⇄ 255	0–100%

Channel	Function	Value	Percent/Setting
53	Red 14	000 ⇔ 255	0–100%
54	Green 14	000 ⇔ 255	0–100%
55	Blue 14	000 ⇔ 255	0–100%
56	White 14	000 ⇔ 255	0–100%
57	Red 15	000 ⇔ 255	0–100%
58	Green 15	000 ⇔ 255	0–100%
59	Blue 15	000 ⇔ 255	0–100%
60	White 15	000 ⇔ 255	0–100%
61	Red 16	000 ⇔ 255	0–100%
62	Green 16	000 ⇔ 255	0–100%
63	Blue 16	000 ⇔ 255	0–100%
64	White 16	000 ⇔ 255	0–100%
65	Red 17	000 ⇔ 255	0–100%
66	Green 17	000 ⇔ 255	0–100%
67	Blue 17	000 ⇔ 255	0–100%
68	White 17	000 ⇔ 255	0–100%
69	Red 18	000 ⇔ 255	0–100%
70	Green 18	000 ⇔ 255	0–100%
71	Blue 18	000 ⇔ 255	0–100%
72	White 18	000 ⇔ 255	0–100%
73	Red 19	000 ⇔ 255	0–100%
74	Green 19	000 ⇔ 255	0–100%
75	Blue 19	000 ⇔ 255	0–100%
76	White 19	000 ⇔ 255	0–100%

Dual Control: Basic Pixels Mode (57-channel)

Channel	Function	Value	Percent/Setting
1	Red 1	000 ⇔ 255	0–100%
2	Green 1	000 ⇔ 255	0–100%
3	Blue 1	000 ⇔ 255	0–100%
4	Red 2	000 ⇔ 255	0–100%
5	Green 2	000 ⇔ 255	0–100%
6	Blue 2	000 ⇔ 255	0–100%
7	Red 3	000 ⇔ 255	0–100%
8	Green 3	000 ⇔ 255	0–100%
9	Blue 3	000 ⇔ 255	0–100%
10	Red 4	000 ⇔ 255	0–100%
11	Green 4	000 ⇔ 255	0–100%
12	Blue 4	000 ⇔ 255	0–100%
13	Red 5	000 ⇔ 255	0–100%
14	Green 5	000 ⇔ 255	0–100%
15	Blue 5	000 ⇔ 255	0–100%
16	Red 6	000 ⇔ 255	0–100%
17	Green 6	000 ⇔ 255	0–100%
18	Blue 6	000 ⇔ 255	0–100%
19	Red 7	000 ⇔ 255	0–100%
20	Green 7	000 ⇔ 255	0–100%
21	Blue 7	000 ⇔ 255	0–100%
22	Red 8	000 ⇔ 255	0–100%
23	Green 8	000 ⇔ 255	0–100%
24	Blue 8	000 ⇔ 255	0–100%
25	Red 9	000 ⇔ 255	0–100%
26	Green 9	000 ⇔ 255	0–100%

Operation

Channel	Function	Value	Percent/Setting
27	Blue 9	000 ⇔ 255	0–100%
28	Red 10	000 ⇔ 255	0–100%
29	Green 10	000 ⇔ 255	0–100%
30	Blue 10	000 ⇔ 255	0–100%
31	Red 11	000 ⇔ 255	0–100%
32	Green 11	000 ⇔ 255	0–100%
33	Blue 11	000 ⇔ 255	0–100%
34	Red 12	000 ⇔ 255	0–100%
35	Green 12	000 ⇔ 255	0–100%
36	Blue 12	000 ⇔ 255	0–100%
37	Red 13	000 ⇔ 255	0–100%
38	Green 13	000 ⇔ 255	0–100%
39	Blue 13	000 ⇔ 255	0–100%
40	Red 14	000 ⇔ 255	0–100%
41	Green 14	000 ⇔ 255	0–100%
42	Blue 14	000 ⇔ 255	0–100%
43	Red 15	000 ⇔ 255	0–100%
44	Green 15	000 ⇔ 255	0–100%
45	Blue 15	000 ⇔ 255	0–100%
46	Red 16	000 ⇔ 255	0–100%
47	Green 16	000 ⇔ 255	0–100%
48	Blue 16	000 ⇔ 255	0–100%
49	Red 17	000 ⇔ 255	0–100%
50	Green 17	000 ⇔ 255	0–100%
51	Blue 17	000 ⇔ 255	0–100%
52	Red 18	000 ⇔ 255	0–100%
53	Green 18	000 ⇔ 255	0–100%
54	Blue 18	000 ⇔ 255	0–100%
55	Red 19	000 ⇔ 255	0–100%
56	Green 19	000 ⇔ 255	0–100%
57	Blue 19	000 ⇔ 255	0–100%

Operating Settings Configuration

Home Screen

The Maverick Storm 1 Wash 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.

Test Mode

Auto Test

To perform an auto test of the Maverick Storm 1 Wash functions, follow the instructions below:

1. Press **<MENU>** repeatedly until the [Home Screen](#) shows on the display. Press **<ENTER>**.
2. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **Test Mode**.
3. Press **<ENTER>**.
4. Use **<UP>** or **<DOWN>** to select **Auto Test**.
5. Press **<ENTER>**.

Manual Test

To test the functions of the product manually, do the following:

1. Press **<MENU>** repeatedly until the [Home Screen](#) shows on the display. Press **<ENTER>**.
2. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **Test Mode**.
3. Press **<ENTER>**.
4. Use **<UP>** or **<DOWN>** to select **Manual Test**.
5. Press **<ENTER>**.
6. Use **<UP>** or **<DOWN>** to select the function to test, from **Pan, Tilt, P/S Speed, Red, Green, Blue, White, CTC, Color, Pattern, LED Macro, LED Ma. Speed, LED Ma. Fade, Background, Background Dim., Dimmer, Shutter, Function, or Zoom**.
7. Press **<ENTER>**.
8. Use **<UP>**, **<RIGHT>**, **<DOWN>**, or **<LEFT>** to increase or decrease the value of the tested function.
9. Press **<ENTER>**.

Setup

To reach the **Setup** menu, follow the instructions below:

1. Press **<MENU>** repeatedly until the [Home Screen](#) shows on the display. Press **<ENTER>**.
2. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **Setup**.
3. Press **<ENTER>**.

Network Settings

To reach the Network Settings menu, do the following:

1. Navigate to the [Setup](#) menu.
2. Use **<UP>** or **<DOWN>** to select **Network Settings**.
3. Press **<ENTER>**.

IP Mode

The IP address of the Maverick Storm 1 Wash can be set manually, by the network, or to a pre-set static address specific to each product. To set the IP Mode, follow the instructions below:

1. Navigate to the [Network Settings](#) menu.
2. Use **<UP>** or **<DOWN>** to select **IP Mode**.
3. Press **<ENTER>**.
4. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select from:
 - **Manual** (set the IP address with the control panel),
 - **DHCP** (the network sets the IP address),
 - or
 - **Static** (a pre-set address specific to each product), or touch the display where it says the desired mode.
5. Press **<ENTER>**.

Operation

IP Address

In Manual IP Mode, the IP address must be assigned through the product menu. To set the IP address in Manual IP Mode, do the following:

1. Navigate to the [Network Settings](#) menu.
2. Use <UP> or <DOWN> to select **IpAddress**.
3. Press <ENTER>.
4. Set the IP address (from **000.000.000.000** to **255.255.255.255**) with the buttons:
 - a. Use <LEFT> or <RIGHT> to select the byte (set of three numbers) to be changed).
 - b. Use <UP> or <DOWN> to increase or decrease the value.
 - c. Repeat until the IP address is set as desired.
5. Press <ENTER>.

Subnet Mask

In Manual IP Mode, the Subnet Mask must be assigned through the product menu. To set the Subnet Mask in Manual IP Mode, do the following:

1. Navigate to the [Network Settings](#) menu.
2. Use <UP> or <DOWN> to select **SubMask**.
3. Press <ENTER>.
4. Set the Subnet Mask (from **000.000.000.000** to **255.255.255.255**) with the buttons:
 - a. Use <LEFT> or <RIGHT> to select the byte (set of three numbers) to be changed).
 - b. Use <UP> or <DOWN> to increase or decrease the value.
 - c. Repeat until the IP address is set as desired.
5. Press <ENTER>.



In DHCP or Static IP Mode, the IP and SubMask menu settings have no effect on the product.

Pan/Tilt Orientation

To set whether the pan or tilt orientation is normal or inverted:

1. Navigate to the [Setup](#) menu.
2. Use <UP> or <DOWN> to select **Pan Reverse** or **Tilt Reverse**.
3. Press <ENTER>.
4. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select **NO** (normal orientation) or **YES** (inverted orientation).
5. Press <ENTER>.

Zoom Orientation

To set whether the zoom goes from wide to narrow or from narrow to wide, follow the instructions below:

1. Navigate to the [Setup](#) menu.
2. Use <UP> or <DOWN> to select **Zoom Reverse**.
3. Press <ENTER>.
4. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select **NO** (wide to narrow) or **YES** (narrow to wide).
5. Press <ENTER>.

Display Orientation

To set which way the display faces, do the following:

1. Navigate to the [Setup](#) menu.
2. Use <UP> or <DOWN> to select **Screen Reverse**.
3. Press <ENTER>.
4. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select **NO** (display is normal), **YES** (display is inverted), or **AUTO** (the display automatically detects which way the product is facing and orients itself accordingly).
5. Press <ENTER>.

Pan/Tilt Angle Range

To set the range of motion the pan or tilt is permitted:

1. Navigate to the [Setup](#) menu.
2. Use <UP> or <DOWN> to select **Pan Angle** or **Tilt Angle**.
3. Press <ENTER>.
4. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select **540** (540° pan), **360** or **270** (360° or 270° for pan or tilt respectively), **180** (180° pan or tilt), or **90** (90° tilt).
5. Press <ENTER>.

Blackout on Pan/Tilt Movement

To set whether the product will black out during pan or tilt movement, follow the instructions below:

1. Navigate to the [Setup](#) menu.
2. Use <UP> or <DOWN> to select **BL. O. P/T Move**.
3. Press <ENTER>.
4. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select **NO** (do not black out) or **YES** (black out during movement).
5. Press <ENTER>.

Lock Screen

To completely lock or unlock the control panel, follow the instructions below:

1. Navigate to the [Setup](#) menu.
2. Use <UP> or <DOWN> to select **Lock Screen**.
3. Press <ENTER>.
4. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select **NO** (control panel will not lock) or **YES** (control panel will require a passcode to access).
5. Press <ENTER>.

To access the control panel when it has been locked:

1. Press <MENU>.
2. Enter the passcode **0920** with the buttons:
 - a. Use <DOWN> to select the number to be changed.
 - b. Use <UP> to increase the value.
 - c. Repeat until **0920** has been entered.
3. Press <ENTER>.

Swap Pan and Tilt

To switch the pan and tilt functions so that what normally controls the pan controls the tilt and what normally controls the tilt controls the pan, do the following:

1. Navigate to the [Setup](#) menu.
2. Use <UP> or <DOWN> to select **Swap XY**.
3. Press <ENTER>.
4. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select **NO** (normal pan and tilt) or **YES** (pan controls tilt, tilt controls pan).
5. Press <ENTER>.

WDMX Reset

To reset the WDMX connection from the Maverick Storm 1 Wash and pair it to a WDMX transmitter, do the following:

1. Navigate to the [Setup](#) menu.
2. Use <UP> or <DOWN> to select **WDMX Reset**.
3. Press <ENTER>.
4. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select **NO** (do not reset connection) or **YES** (reset the connection).
5. Press <ENTER>.



Once a WDMX receiver has been linked to a specific WDMX transmitter, it will remain linked to that specific transmitter until it is linked to a different one.

Operation

Backlight Timer

To set the amount of time after inactivity before the display backlight turns off:

1. Navigate to the [Setup](#) menu.
2. Use **<UP>** or **<DOWN>** to select **Backlight Timer**.
3. Press **<ENTER>**.
4. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **30S** (after 30 seconds of inactivity), **1M** (after 1 minute of inactivity), **5M** (after 5 minutes of inactivity), or **ON** (does not turn off).
5. Press **<ENTER>**.

Loss of Data

In case of an input signal being lost in any way, the Maverick Storm 1 Wash will respond in one of two ways. The product will either hold the last signal received, or black out all LED output.

To set which way the product responds, follow the instructions below:

1. Navigate to the [Setup](#) menu.
2. Use **<UP>** or **<DOWN>** to select **Loss of Data**.
3. Press **<ENTER>**.
4. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **Hold** (hold last signal received) or **Close** (black out all LED output).
5. Press **<ENTER>**.

Fan Speed

To set the speed of the fans, do the following:

1. Navigate to the [Setup](#) menu.
2. Use **<UP>** or **<DOWN>** to select **Fans**.
3. Press **<ENTER>**.
4. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **Auto** (fan speed set according to product temperature), **Full** (maximum speed), or **ECO** (quiet fans mode).
5. Press **<ENTER>**.

Color Mixing Mode

The Maverick Storm 1 Wash has a mode that emulates CMY (cyan, magenta, and yellow) color mixing. In this mode, the dimming is reversed (000=100%, 255=0%), and the red, green, and blue channels control cyan, magenta, and yellow respectively.

To set the color mixing mode:

1. Navigate to the [Setup](#) menu.
2. Use **<UP>** or **<DOWN>** to select **C Mixing Mode**.
3. Press **<ENTER>**.
4. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **RGBW** (additive mode, 0–100%), or **CMY** (subtractive mode: 100–0%).
5. Press **<ENTER>**.

Dimmer Curve

To set the dimmer curve, follow the instructions below:

1. Navigate to the [Setup](#) menu.
2. Use **<UP>** or **<DOWN>** to select **Dimmer Curve**.
3. Press **<ENTER>**.
4. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **Linear**, **Square**, **I Squa**, or **SCurve**.
5. Press **<ENTER>**.

Dimmer Speed

To set the dimmer speed, do the following:

1. Navigate to the [Setup](#) menu.
2. Use **<UP>** or **<DOWN>** to select **Dimmer Speed**.
3. Press **<ENTER>**.
4. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **Smooth** or **Fast**.
5. Press **<ENTER>**.

Pulse Width Modulation

To set the PWM frequency, follow the instructions below:

1. Navigate to the [Setup](#) menu.
2. Use **<UP>** or **<DOWN>** to select **PWM Option**.
3. Press **<ENTER>**.
4. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select the PWM frequency, from **600Hz**, **1200Hz**, **2000Hz**, **4000Hz**, **6000Hz**, or **15000Hz**.
5. Press **<ENTER>**.

Color Balance

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

1. Navigate to the [Setup](#) menu.
2. Use **<UP>** or **<DOWN>** to select **Color Balance**.
3. Press **<ENTER>**.
4. Use **<UP>** or **<DOWN>**, to select the color value to be changed, from **Red**, **Green**, **Blue**, or **White**.
5. Press **<ENTER>**.
6. Use **<UP>**, **<RIGHT>**, **<DOWN>**, or **<LEFT>** to increase or decrease the color value, from **100–255**.
7. Press **<ENTER>**.
8. Repeat steps 4–7 until the color balance is set as desired.

Preset Functions

The Maverick Storm 1 Wash has 3 presets. Every time a setting is changed in the Maverick Storm 1 Wash, the current preset is updated to include that change. To load a preset, follow the instructions below:

1. Navigate to the [Setup](#) menu.
2. Use **<UP>** or **<DOWN>** to select **Preset Select**.
3. Press **<ENTER>**.
4. Use **<UP>** or **<DOWN>**, to select the preset to load, from **PRESET A**, **PRESET B**, or **PRESET C**.
5. Press **<ENTER>**.
6. The selected preset will load, and all changes made to settings will save to that preset.

Presets can be uploaded to other Maverick Storm 1 Wash products through a DMX connection. To do so:

1. Connect the DMX Out of the product that has the desired presets to the DMX In of the product to be updated.
2. Power on both products.
3. On the product with the desired presets, navigate to the [Setup](#) menu.
4. Use **<UP>** or **<DOWN>** to select **Preset Sync**.
5. Press **<ENTER>**.
6. Use **<UP>** or **<DOWN>**, to select from **NO** (do not upload settings) or **YES** (upload settings).
7. Press **<ENTER>**.

Reset Functions

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

1. Navigate to the [Setup](#) menu.
2. Use **<UP>** or **<DOWN>** to select **Reset Function**.
3. Press **<ENTER>**.
4. Use **<UP>** or **<DOWN>** to select the function to reset, from **Pan/Tilt**, **Zoom**, or **All**.
5. Press **<ENTER>**.
6. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select from **NO** (do not reset) or **YES** (reset).
7. Press **<ENTER>**.

Factory Reset

To restore the Maverick Storm 1 Wash to factory default settings, do the following:

1. Navigate to the [Setup](#) menu.
2. Use **<UP>** or **<DOWN>** to select **Factory Settings**.
3. Press **<ENTER>**.
4. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **NO** (do not reset) or **YES** (reset to factory settings).
5. Press **<ENTER>**.

Operation

System Information

All information about the current status of the Maverick Storm 1 Wash is available through the product's **Sys Info** menu. To view this information, follow the instructions below:

1. Press **<MENU>** repeatedly until the [Home Screen](#) shows on the display. Press **<ENTER>**.
2. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **Sys Info**.
3. Press **<ENTER>**.
4. Use **<UP>** or **<DOWN>** to select from **Fixture Information** (shows firmware version, running mode, starting address, etc.), **Fan Information** (shows speed of the head fans in rpm), **Error Information** (shows any errors or **No Error!**), or **Channel Information** (shows the current value of all signal input channels).
5. Press **<ENTER>**.
6. Use **<UP>** or **<DOWN>** to scroll through the information.

Offset Mode

The Offset mode provides fine adjustments for the home position of all the moving parts in the optical path as well as the pan and tilt movements. This way, when in their home position, the moving parts do not show any border or reduce the light output.

1. Starting from the Main Level screen, press and hold **<MENU>** until the passcode screen appears.
2. Enter the passcode **2323** using the buttons:
 - a. Use **<DOWN>** to select the number to be changed.
 - b. Use **<UP>** to increase the value.
 - c. Repeat until **2323** has been entered.
3. Press **<ENTER>**.

This brings you into the Zero Adjust menu screen.

PAN

To adjust the starting point of the pan motor, follow the instructions below:

1. Use **<UP>** or **<DOWN>** to select **PAN**.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to increase or decrease the starting value, from **000–255**.
4. Press **<ENTER>**.

TILT

To adjust the starting point of the tilt motor, do the following:

1. Use **<UP>** or **<DOWN>** to select **TILT**.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to increase or decrease the starting value, from **000–255**.
4. Press **<ENTER>**.

ZOOM

To adjust the starting point of the zoom motor, follow the instructions below:

1. Use **<UP>** or **<DOWN>** to select **ZOOM**.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to increase or decrease the starting value, from **000–255**.
4. Press **<ENTER>**.

MAC Address

To adjust the fourth, fifth, or sixth digit of the MAC address, do the following:

1. Use **<UP>** or **<DOWN>** to select **MAC4**, **MAC5**, or **MAC6**.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to increase or decrease the value, from **000–255**.
4. Press **<ENTER>**.

Web Server

The Maverick Storm 1 Wash 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 [Protocol](#) to **Art-Net** and the [IP Mode](#) to **Static**.
2. Connect the product to a Windows computer with a network cable.
3. On the computer, set the IP address of the new network to have the same first 3 digits as the IP address of the product (See [IP Address](#)).
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 system information of the Maverick Storm 1 Wash.

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/products/maverick-mk3-wash> 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 **Submit** to change the password.

5. Technical Information

Product Maintenance

To maintain optimum performance and minimize wear, clean this product frequently. Usage and environment are contributing factors in determining the cleaning frequency.

Clean this product at least twice a month. Dust build-up reduces light output performance and can cause overheating. This can lead to reduced light source life and increased mechanical wear.

To clean the product:

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 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.



Avoid spinning the cooling fans using compressed air to prevent damage.

6. Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
12.5 in (319 mm)	16.3 in (414 mm)	18.77 in (477 mm)	59 lb (27 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	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz
Consumption	443 W	443 W	430 W
Operating Current	3.75 A	2.21 A	1.91 A
Power linking current (products)	13.6 A (3 products)	13.6 A (6 products)	13.6 A (7 products)
Fuse/Breaker	T 8 A, 250 V	T 8 A, 250 V	T 8 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 Cord plug	Edison (U.S.)	Local Plug

Light Source

Type	Color	Quantity	Power	Current	Lifespan
LED	Quad-color RGBW	19	20 W	1.3 A	50,000 hours

Photometrics

Color Temperature	Beam Angle	Field Angle	Zoom Angle	Illuminance @ 5 m (7°)	Illuminance @ 5 m (42°)
2800 to 10000 K	7° to 27°	11° to 42°	11° to 42°	11,032 lux	832 lux

DMX

I/O Connector	Channel Range (Single Control)	Channel Range (Dual Control Movement)	Channel Range (Dual Control Pixels)
5-pin IP rated XLR	20, 96, 178 or 216	8, 20 or 26	57, 76 or 152

Art-Net™/sACN

I/O Connector	Channel Range (Single Control)	Channel Range (Dual Control Movement)	Channel Range (Dual Control Pixels)
Neutrik IP rated RJ45	20, 96, 178 or 216	8, 20 or 26	57, 76 or 152

ArKaos Kling-Net

I/O Connector	Channel Range
Neutrik IP rated RJ45	Determined per ArKaos MediaMaster software

Thermal

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

Ordering

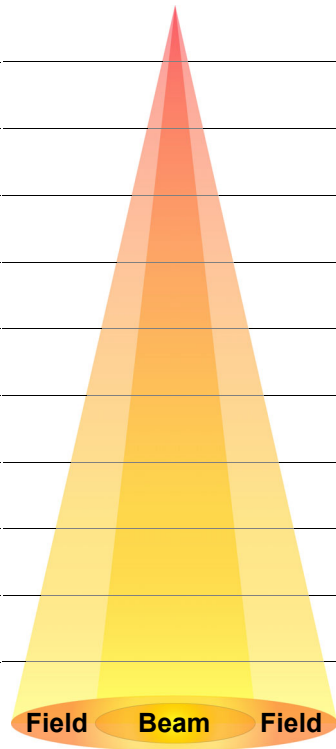
Product Name	Item Name	Item Code	UPC Number
Maverick Storm 1 Wash	MAVERICKSTORM1WASH	08011504	781462218522



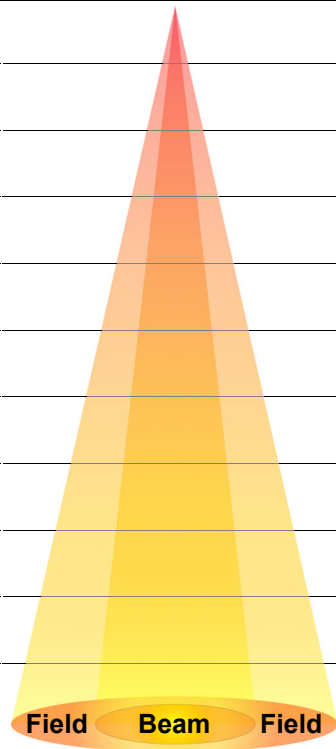
Technical Specifications

Photometrics Charts

Distance	Narrow (11°)		Maverick Storm 1 Wash (Imperial)		Wide (42°)	
	Beam Diameter	Field Diameter	Footcandle	Footcandle	Beam Diameter	Field Diameter
15 ft	1.83 ft	2.89 ft	1,226	92	7.20 ft	11.52 ft
20 ft	2.45 ft	3.85 ft	690	52	9.60 ft	15.35 ft
30 ft	3.67 ft	5.78 ft	306	23	14.40 ft	23.03 ft
40 ft	4.89 ft	7.70 ft	172	13	19.21 ft	30.71 ft
50 ft	6.12 ft	9.63 ft	110	8	24.01 ft	38.39 ft
75 ft	9.17 ft	14.44ft	49	4	36.01 ft	57.58 ft
100 ft	12.23 ft	19.26 ft	28	2	48.02 ft	76.77 ft
125 ft	15.29 ft	24.07 ft	18	1	60.02 ft	95.97 ft
150 ft	18.35 ft	28.89 ft	12	1	72.02 ft	115.16 ft



Distance	Narrow (11°)		Maverick Storm 1 Wash (Metric)		Wide (42°)	
	Beam Diameter	Field Diameter	Lux	Lux	Beam Diameter	Field Diameter
1 m	0.12 m	0.19 m	275,800	20,800	0.48 m	0.77 m
2 m	0.24 m	0.39 m	68,950	5,200	0.96 m	1.54 m
5 m	0.61 m	0.96 m	11,032	832	2.40 m	3.84 m
8 m	0.98 m	1.54 m	4,309	325	3.84 m	6.14 m
10 m	1.22 m	1.93 m	2,758	208	4.80 m	7.68 m
15 m	1.83 m	2.89 m	1,226	92	7.20 m	11.52 m
20 m	2.45 m	3.85 m	690	52	9.60 m	15.35 m
25 m	3.06 m	4.81 m	441	33	12.00 m	19.19 m
30 m	3.67 m	5.78 m	306	23	14.40 m	23.03 m



Returns

Send the product prepaid, in the original box, and with the original packing and accessories. Chauvet will not issue call tags.

Call Chauvet and request a Return Merchandise Authorization (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause(s) for the return.

To submit a service request online, go to www.chauvetprofessional.com/service-request.

Clearly label the package with an RMA number. Chauvet will refuse any product returned without an RMA number.



Write the RMA number on a properly affixed label. DO NOT write the RMA number directly on the box.

Once you have the RMA number, provide the following information on a piece of paper and place it inside the box:

- Your name
- Your address
- Your phone number
- RMA number
- A brief description of the problem

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be your responsibility. FedEx packing or double-boxing are recommended.



Chauvet reserves the right to use its own discretion to repair or replace returned product(s).

Contact Us

General Information	Technical Support
Chauvet World Headquarters	
Address: 5200 NW 108th Ave. Sunrise, FL 33351 Voice: (954) 577-4455 Fax: (954) 929-5560 Toll Free: (800) 762-1084	Voice: (844) 393-7575 Fax: (954) 756-8015 Email: chauvetcs@chauvetlighting.com Website: www.chauvetprofessional.com
Chauvet Europe Ltd	
Address: Unit 1C Brookhill Road Industrial Estate Pinxton, Nottingham, UK NG16 6NT Voice: +44 (0) 1773 511115 Fax: +44 (0) 1773 511110	Email: UKtech@chauvetlighting.eu Website: www.chauvetprofessional.eu
Chauvet Europe BVBA	
Address: Stokstraat 18 9770 Kruishoutem Belgium Voice: +32 9 388 93 97	Email: BNLtech@chauvetlighting.eu Website: www.chauvetprofessional.eu
Chauvet France	
Address: 3, Rue Ampère 91380 Chilly-Mazarin France Voice: +33 1 78 85 33 59	Email: FRtech@chauvetlighting.fr Website: www.chauvetprofessional.eu
Chauvet Germany	
Address: Bruno-Bürgel-Str. 11 28759 Bremen Germany Voice: +49 421 62 60 20	Email: DEtech@chauvetlighting.de Website: www.chauvetprofessional.eu
Chauvet Mexico	
Address: Av. de las Partidas 34 - 3B (Entrance by Calle 2) Zona Industrial Lerma Lerma, Edo. de México, CP 52000 Voice: +52 (728) 690-2010	Email: servicio@chauvet.com.mx Website: www.chauvetprofessional.mx

Visit the applicable website above to verify our contact information and instructions to request support. Outside the U.S., U.K., Ireland, Benelux, France, Germany, or Mexico, contact the dealer of record.