# STURMS ST



Model ID: MAVERICKSTORM1HYBRID





## **Edition Notes**

The Maverick Storm 1 Hybrid User Manual includes a description, safety precautions, installation, programming, operation and maintenance instructions for the Maverick Storm 1 Hybrid as of the release date of this edition.

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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 Hybrid User Manual is the 2<sup>nd</sup> edition of this document. Go to <a href="https://www.chauvetprofessional.com">www.chauvetprofessional.com</a> for the latest version.



# **TABLE OF CONTENTS**

1.	Before You Begin	1
	What Is Included	1
	Claims	1
	Text Conventions	1
	Symbols	1
	FCC Statement of Compliance	
	RF Exposure Warning for North America and Australia	
	Expected LED Lifespan	
	Safety Notes	
2	Introduction	4
ے.	Description	
	Features	
	Product Overview	
•	Product Dimensions	
3.	Setup	
	AC Power	
	AC Plug	
	Fuse Replacement	
	Remote Device Management (RDM)	6
	USB Software Update	
	Mounting	
	Orientation	
	Rigging	
	Procedure	
	Signal Connections	
	Control Personalities	
	DMX Linking	
	Art-Net™ Connection	
	sACN Connection	
	Connection Diagram	
	Lamp Replacement	
	Procedure	
	Increasing Lamp Lifespan	
4.	Operation	11
	Control Panel Description	
	Battery Powered Display	11
	Home Screen	
	Control Panel Lock	11
	Passcode	11
	Technician Mode	11
	Menu Map	12
	Configuration (DMX, Art-Net™, sACN)	
	Control Mode	
	Control Personalities	16
	Starting Address	16
	<del>-</del>	



	Network Setup	16
	IP Mode	
	Universe	
	Manual IP Address	
	Subnet Mask	
	Control Channel Assignments and Values	17
	Gobo Wheels	
	Configuration (Settings)	
	Pan Reverse	
	Tilt Reverse	21
	Screen Reverse	21
	Pan Angle	21
	Tilt Angle	21
	Black out on Movement	21
	Swap Pan and Tilt	
	WDMX Reset	
	Display Backlight Timer	
	Loss of Data	
	Lamp Settings	
	Lamp On/Off	
	Lamp State at Power On	22
	Off Via DMX	22
	On If DMX On	
	Off If DMX Off	
	Ignition Delay Low Power Delay	22
	Reset Lamp On Time	22
	Maintenance Timer Interval	
	Reset Maintenance Timer	
	Preset Selection	
	Preset Synchronization	
	USB Update	
	Minimum Zoom Focus	
	Reset Function	
	Factory Reset	
	Test Mode	
	Auto Test	
	Manual Test	
	System Information	
	Offset Mode (Zero Adjust)	24
	Web Server	
5	Maintenance	
•	Product Maintenance	
	Torque Measurements	
	Vacuum Test Measurements	
6.	Technical Specifications	27
	ontact Us	
- 1	Warranty & Returns	
	**MILMILE W. I. W. MILIU	



# 1. Before You Begin

## What Is Included

- Maverick Storm 1 Hybrid
- Seetronic Powerkon IP65 power cable
- 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 a claim. In addition, keep the box and contents for inspection.

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

#### **Text Conventions**

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

## **Symbols**

Symbol	Meaning
Ţ	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.
(i)	Important installation or configuration information. The product may not function correctly if this information is not used.
	Useful information.



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



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



## **FCC Statement of Compliance**

This device complies with Part 15 Part B of the FCC rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

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

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

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

## RF Exposure Warning for North America and Australia

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

## **Expected LED Lifespan**

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



## **Safety Notes**

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



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



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

- The luminaire is intended for professional use only.
- The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 32.81 ft (10 m) is not expected.
- If the external flexible cable or cord of this luminaire is damaged, it shall be replaced by a special cord or cord exclusively available from the manufacturer or its service agent.
- The light source contained in this luminaire shall only be replaced by the manufacturer or its service agent or a similar qualified person.

#### CAUTION:

- This product's housing may be hot when operating. Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- When transferring the product from extreme temperature environments, (e.g., cold truck to warm humid ballroom) condensation may form on the internal electronics of the product. To avoid causing a failure, allow the product to fully acclimate to the surrounding environment before connecting it to power.
- Flashing light is known to trigger epileptic seizures. User must comply with local laws regarding notification of strobe use.

#### ALWAYS:

- Disconnect from power before cleaning the product or replacing the fuse.
- When using an IP65-rated product in an outdoor environment, use IP65- (or higher) rated power and data cable.
- Replace and secure IP-rated protective covers to all power, data, USB, or other ports when not in use.
- · Replace the fuse with the same type and rating.
- Use a safety cable when mounting this product overhead.
- Connect this product to a grounded and protected circuit.

#### DO NOT:

- Open this product. It contains no user-serviceable parts.
- Look at the light source when the product is on.
- Leave any flammable material within 20 cm of this product while operating or connected to power.
- Connect this product to a dimmer or rheostat.
- Operate this product if the housing, lenses, or cables appear damaged.
- Submerge this product (adhere to standards for the published IP rating). Regular outdoor operation
  is fine.
- Permanently install outdoors in locations with extreme environmental conditions. This includes, but is not limited to:
  - Exposure to a marine/saline environment (within 3 miles of a saltwater body of water).
  - Locations where normal temperatures exceed the temperature ranges in this manual.
  - Locations that are prone to flooding or being buried in snow.
  - Other areas where the product will be subject to extreme radiation or caustic substances.
- ONLY use the handles or the hanging/mounting brackets to carry this product.
- The maximum ambient temperature is 113 °F (45 °C). Do not operate this product at higher temperatures.
- The minimum startup temperature is -4°F (-20°C). Do not start the product at lower temperatures.
- The minimum ambient temperature is -22°F (-30°C). Do not operate the product at lower temperatures.
- To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.
- In the event of a serious operating problem, stop using immediately.



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



## 2. Introduction

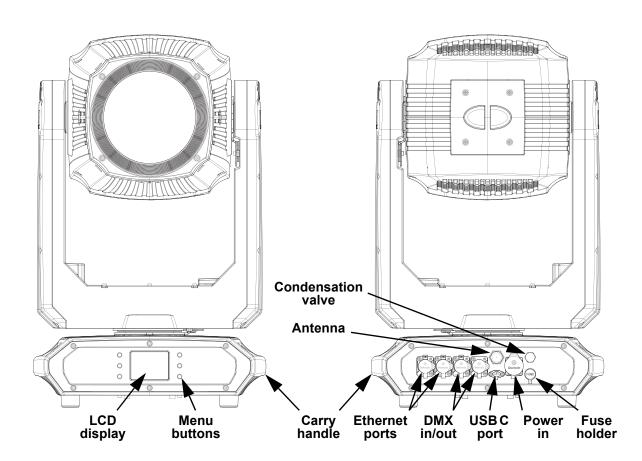
## **Description**

The Maverick Storm 1 Hybrid brings the latest Maverick series IP65 technology together with an advanced optical system designed to optimize output from its Osram 420W 7700K source. This combination Beam/ Spot/Wash fixture delivers stadium-scale output and CMY color mixing that produces the boldest reds, greens and blues while perfectly matching its fellow Mavericks in the rig. Linear zoom smoothly delivers precise coverage in both projection modes, from tightly focused beams to crisp even spots, offering a zoom range of 0.8° to 25.6° in Beam mode and 1.3° to 40.8° in Spot mode. This hybrid houses a full arsenal of features: static and rotating gobo wheels, stackable independent prisms, animation wheel and a heavy frost to shift to a distinctive wash. The Maverick Storm 1 Hybrid works with DMX, Art-Net™, sACN, RDM and Lumenradio CRMX™.

#### **Features**

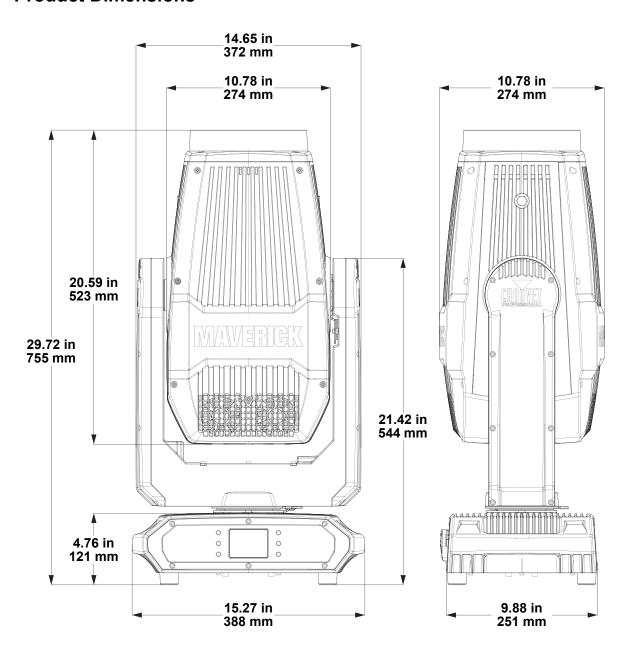
- Fully featured, IP65 rated, high powered Spot/Beam/Wash combination fixture with an Osram 420W, 7700 K with 2,500 hour life expectancy lamp, CMY color mixing, an animation wheel, 2 gobo wheels, 2 layerable prisms, large zoom range, and lightweight aluminum/magnesium housing
- Individually controllable and layerable 5 facet linear and 8 facet round prisms for maximizing visual impact
- Frost and beam flattening options for even light distribution
- Tight 0.8° narrow beam angle for focused air effects
- Linear zoom of 0.8° to 25.6° in beam mode, 1.3° to 40.8° in spot mode
- 9 rotating and 17 static gobos for massive visual effect
- DMX and RDM protocol control
- True 1 compatible power input
- · Easy to read OLED display with simple, effective menu options
- Simple and complex DMX channel profiles for programming versatility
- USB-C port for uploading software
- Failsafe Ethernet connectivity allows for data to pass even if fixture power is lost

#### **Product Overview**





## **Product Dimensions**





# 3. Setup

## **AC Power**

The Maverick Storm 1 Hybrid has an auto-ranging power supply and it can work with an input voltage range of 100 to 240 VAC, 50/60 Hz.

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



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



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

#### **AC Plug**

The Maverick Storm 1 Hybrid comes with a power input cable terminated with a Seetronic Powerkon A connector on one end and an Edison plug on the other end (U.S. market). If the cable has no plug or it is necessary to change the plug, use the table below to wire a plug.

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

#### **Fuse Replacement**

- 1. Disconnect this product from the power outlet.
- 2. Using a flat-head screwdriver, unscrew the fuse holder cap from the housing.
- 3. Remove the blown fuse and replace with another fuse of the same type and rating (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 Hybrid supports RDM protocol that allows feedback to make changes to menu map options.

## **USB Software Update**

The Maverick Storm 1 Hybrid allows for software update through USB using the built-in USB port. The product's USB port supports up to 32GB capacity and only works with FAT32 file format. To update the software using a USB flash drive, do the following:

- 1. Power on the product and plug the flash drive into the USB port.
- 2. Once the flash drive has been detected, the message "**Upgrade Firmware**" will be displayed. Press **<ENTER>**. If a different message appears on the display, search for the updated software in the menu (**Updated Firmware**). A list of the updated software files will be displayed.
- Select the file that needs to be uploaded. The message "Are you sure?" will be displayed. Press <ENTER>.
- 4. If the selected file is correct, the update will be completed. Restart the product. If the selected file is incorrect, the update will fail, and the display will go back to the main interface. Repeat steps 1–3 using the correct file.



## **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 <a href="http://trusst.com/products/">http://trusst.com/products/</a>.

#### Orientation

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

#### Rigging

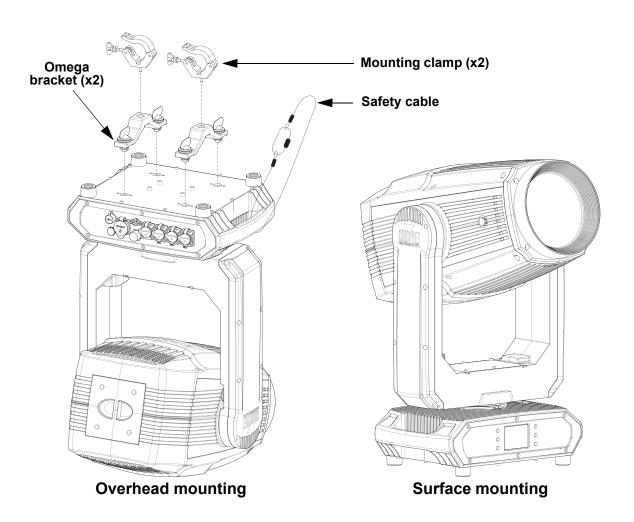
Chauvet recommends using the following general guidelines when mounting this product.

- Before deciding on a location for the product, make sure there is easy access to the product for maintenance and programming purposes.
- Make sure that the structure and attachment points can support the weight before hanging the product. See the <u>Technical Specifications</u> for weight information.
- When mounting the product overhead, always use a safety cable. Mount the product securely to a rigging point, whether an elevated platform or a truss.
- · When rigging the product onto a truss, use a mounting clamp of appropriate weight capacity.

#### **Procedure**

The Maverick Storm 1 Hybrid comes with 2 omega brackets to which the user can directly attach mounting clamps (sold separately). Make sure the clamps are capable of supporting the weight of this product. Use at least two mounting points per product. For the Chauvet Professional line of mounting clamps, go to <a href="http://www.trusst.com/products">http://www.trusst.com/products</a>.

#### **Mounting Diagram**





## **Signal Connections**

The Maverick Storm 1 Hybrid can receive a DMX, Art-Net<sup>™</sup>, or sACN, signal. The Maverick Storm 1 Hybrid has two Amphenol XLRnet through ports, and 5-pin DMX in and out ports. If using other compatible products with this product, it is possible to control each individually with a single controller.

#### **Control Personalities**

The Maverick Storm 1 Hybrid uses a 5-pin DMX data connection, Lumenradio CRMX™, Art-Net™, or sACN for its two control personalities: **Dmx Mode 24 CH** and **Dmx Mode 29 CH**.

- Refer to the <u>Operation</u> chapter to learn how to configure the Maverick Storm 1 Hybrid to work in these personalities.
- The <u>Control Channel Assignments and Values</u> section provides detailed information regarding the control personalities.



For more information about DMX standards or the DMX cables needed to link this product to a DMX controller, download the DMX Primer from the Chauvet website: <a href="https://www.chauvetprofessional.com">www.chauvetprofessional.com</a>.

#### **DMX Linking**

The Maverick Storm 1 Hybrid can link to a DMX controller using a 5-pin DMX connection or a Lumenradio CRMX™ connection. For more information about DMX, read the DMX primer at: <a href="https://www.chauvetprofessional.com/wp-content/uploads/2016/06/DMX">https://www.chauvetprofessional.com/wp-content/uploads/2016/06/DMX</a> Primer.pdf.

#### **Art-Net™ Connection**

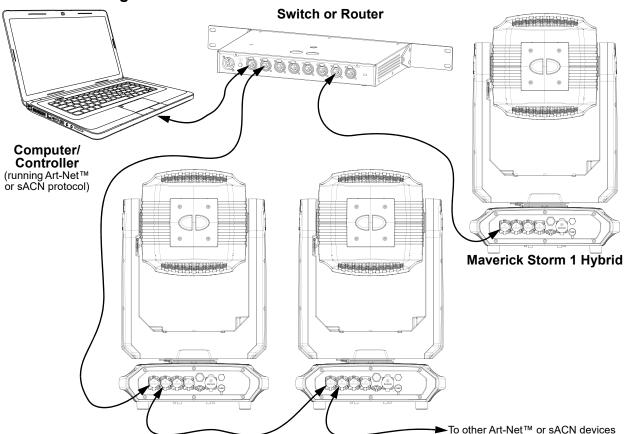
Art-Net<sup>™</sup> is an Ethernet protocol that uses TCP/IP that transfers a large amount of DMX512 data using an Amphenol XLRnet RJ45 connection over a large network. An Art-Net<sup>™</sup> protocol document is available from <a href="https://www.chauvetprofessional.com">www.chauvetprofessional.com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

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

#### **sACN** Connection

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

#### **Connection Diagram**





## **Lamp Replacement**

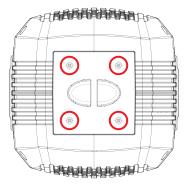
The Maverick Storm 1 Hybrid is equipped with an OSRAM SIRIUS HRI 420 W lamp. Follow the procedure below to safely change the lamp.



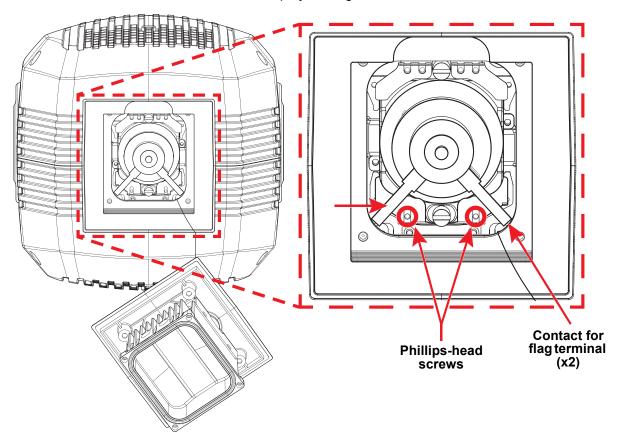
Disconnect the product from power before performing this procedure.

#### **Procedure**

- 1. Turn the product off and disconnect it from power. Wait at least 15 minutes for the lamp to cool down.
- 2. Loosen the 4 indicated screws with a 4 mm hex key until the bottom plate can be removed.



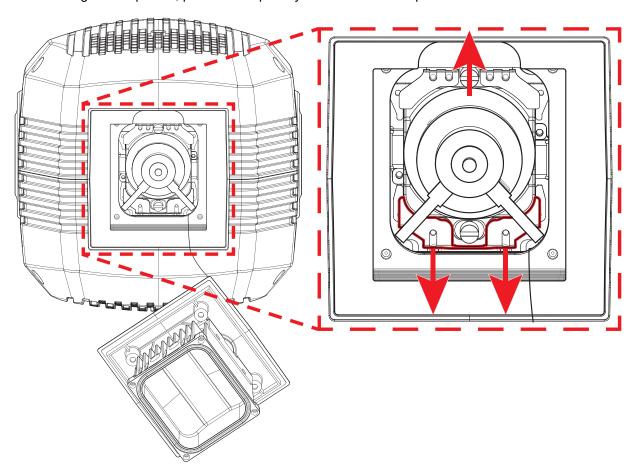
- 3. Carefully remove the bottom plate and heat sink and allow it to hang by the safety cord.
- 4. Remove the 2 wires connected to the lamp by the flag terminals.



5. Loosen the 2 indicated screws with a Phillips-head screwdriver.



6. Using the lamp base, push the lamp away from the loosened plate.



- 7. Slide the loosened plate away from the lamp.
- 8. Roll the lamp out and pull it away.
- 9. Reverse the steps above to install the new lamp. DO NOT touch the glass with bare hands!



#### DO NOT turn the product on without a lamp!

## **Increasing Lamp Lifespan**

- ALWAYS turn the lamp off by using the DMX controller or the product's control panel, then wait at least 5 minutes before switching off the product. This will keep the fans running to extract any remaining heat from the product's head.
- DO NOT power cycle the product unless it is necessary.
- DO NOT re-strike the lamp immediately after turning it off. It is recommended to wait 5 minutes before trying to re-strike the lamp.
- DO NOT touch the lamp without wearing gloves to avoid leaving grease on the bulb or on the contacts that could reduce the lamp's life.
- ALWAYS change the lamp when it has reached its recommended lifespan to avoid the risk of lamp explosion.



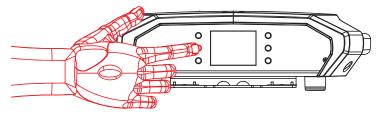
# 4. Operation

## **Control Panel Description**

Button	Name	Function
↔	<up></up>	Navigates upwards through the menu list or increases the value when in a function
	<menu></menu>	Exits from the current menu or function
$\triangle$	<down></down>	Navigates downwards through the menu list or decreases the value when in a function
$\Diamond$	<left></left>	Navigates leftwards through the menu list
Ţ	<enter></enter>	Enables the currently displayed menu or sets the selected value into the function
4>	<right></right>	Navigates rightwards through the menu list

#### **Battery Powered Display**

The Maverick Storm 1 Hybrid has a battery powered display which enables access to the menu when the product is powered off. Press and hold **<MENU>** until the display activates (approximately 15 seconds).



## **Home Screen**

The Maverick Storm 1 Hybrid has a home screen that shows the current control protocols, personalities, starting addresses, IP addresses, and universes. To see the home screen, press **<MENU>** repeatedly until it shows on the display. From the home screen, touch any of the displayed control settings to immediately jump to that part of the menu, such as the personality, starting address, or universe, or press **<ENTER>** to reach the main menu.

#### **Control Panel Lock**

The setting locks or unlocks the control panel.

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



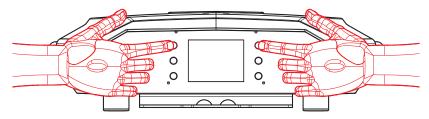
When the control panel lock is activated, the product will prompt for the passcode in order to access the menu. Enter the passcode as described below.

#### Passcode

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

#### Technician Mode

The technician mode disables the pan/tilt motors, allowing the output of the product to be aimed by hand. To enable the technician mode of the Maverick Storm 1 Hybrid, hold **<UP>** and **<LEFT>** while the product is powering on. When the product is turned off and back on, the pan and tilt will return to normal function.





## Menu Map

Refer to the Maverick Storm 1 Hybrid product page on <u>www.chauvetprofessional.com</u> for the latest menu map.

Main Level	Programming Levels			Description	
Address					Sets the starting address
					Manually set IP address
	IP Mode	DH	CP		Network sets IP address
Network		Sta	ntic		Product sets IP address
Setup	Universe	<b>000–255</b> (Art-Net <sup>™</sup> ) <b>001–256</b> (sACN)			Sets the universe
	lp		(000	<b>-255</b> )	Sets the IP address in Manual mode
	SubMask	(000–255)		<b>-255</b> )	Sets the Subnet Mask in Manual mod
Personality	Dmx Mod	le 24 CH	NO		Selects the 24-channel mode
ersonanty	Dmx Mod	le 29 CH	YES		Selects the 29-channel mode
		DN	ΛX		Selects the DMX control protocol
	Control Mode	WD	MX		Selects Lumenradio CRMX™
	Control wiode	Arti	Net		Selects the Art-Net* control protocol
		sA	CN		Selects the sACN control protocol
	Don Dovers	N	0		Normal pan
	Pan Reverse	YE			Reversed pan
	T''   D	_			Normal tilt
	Tilt Reverse				Reversed tilt
		NO			Normal screen display
	Screen Reverse	YES			Inverted screen display
		AUTO			Automatic display orientation
	Pan Angle Tilt Angle	540			540° pan range
		36	60		360° pan range
		18	30		180° pan range
		270			270° tilt range
		18	30		180° tilt range
		090			90° tilt range
Settings	BL. O. P/T	N	0		Enable/disable blackout while pannir
Ū	Move	YES			tilting
	BL. O. Color	N	0		Enable/disable blackout while color
	Move	YES			wheel is moving
	BL. O. Gobo				Enable/disable blackout while gobo
	Move		YES		wheels are moving
			1.20		Lock the buttons
	Lock Screen	YE			Passcode: <b>0920</b>
		N			Do not swap pan and tilt
	Swap XY		ES		Pan controls tilt, tilt controls pan
		N			Do not reset WDMX
	WDMX Reset	YES			Reset WDMX
		30			Display turns off after 30 seconds
	Backlight	11			Display turns off after 1 minute
	Timer	51			Display turns off after 5 minutes
		0			Display stays on
		Ho			Holds last signal received
	Loss of Data	110			



Main Level	Pro	ogramming Levels		Description
		OFF OFF		-
		On/Off	ON	Turns lamp on/off
		State/Power	OFF	Defines the status of lamp when
		on	ON	powering up product
		Off Via Dmx	NO YES	Turns off the unit via DMX controller
		On If Dmx on	NO	Turns lamp on when DMX signal is
	Lamp Setting		YES	detected
	g	Off If Dmx Off	NO YES	Turns lamp off when DMX signal is lost
		Ignition Delay	010–255	Sets the delay duration between product power on and lamp power on
		Low Power Delay	000–255	Sets the delay duration when shutter is closed and lamp enters lower power state
		Reset Lamp	NO	Leaves lamp time unchanged
		Time	RESET	Resets lamp timer to 0
	Maintenance	Interval	010–250	Defines amount of hours between maintenance
Settings	Timer	Remain Time	NO RESET	Shows maintenance timer. Select <b>RESET</b> to reset.
(cont.)	Preset Select	PRESET A		
		PRESET B		Recorded preset menu options
		PRESET C		
		N	0	Transfers recorded preset menu options
	Preset Sync Y		S	to other Maverick Storm 1 Hybrid fixtures in the DMX daisy chain
	USB Update	N YE		Update firmware via USB C
	Min Zoom Focus	N YE		Enables/disables Minimum Zoom Focus
	Reset Function	Pan/Tilt Shutter/Prism Color/CMY Gobo/ Animation Zoom/Focus/ Frost All	NO YES	Reset individual functions or all functions from start-up
	Factory Settings	N YE		Reset to factory default settings
Test	Manual Test	Auto Test Pan Pan Fine Tilt Tilt Fine P/T Speed Dimmer Dimmer Fine	0–255	Auto test all functions  Manually control and test all settings through the control panel



Main Level	Pr	ogramming Lev	els	Description
		Shutter		
		Cyan		
		Magenta		
		Yellow		
		Color		
		Gobo2		
		Gobo		
		Gobo Rotate		
		Gobo Rotate Fine		
		Animation		
Test	Manual Test	Prism1		Manually control and test all settings
(cont.)	(cont.)	Prism1 Rotate	0–255	through the control panel
,	,	Prism2		
		Prism2 Rotate		
		Frost1		
		Beam Diffraction		
		Focus		
		Focus Fine		
		Focus Auto		
		Zoom		
		Zoom Fine		
		Special Function		
		Ver	V	Shows firmware version
		<b>Running Mode</b>		Shows current running mode
		DMX Address		Shows current starting address
		Temperature		Shows current product temperature
	Fixture	Fixture Hours		Shows hours product has been on
	Information	lp		Shows current IP address
		SubMask		Shows current Subnet Mask
		MAC		Shows MAC address
		UID		Shows product UID
		Lamp On Time		Shows lamp on time
Information		Remain Time		Shows lamp maintenance time
illormation		Lamp MFan1–3		
		BFan1-2 ZFan1	Speed	
		FFan1-7	Speed	Shows speed of each fan in rpm
	Fa	AFan1	Speed	
	Fan Information	Base Fan1-3		
		Power		
		Voltage	w v	Shows electrical data
		Current	V A	Chewo Gloothodi data
		Gravity	_'_^	Shows product orientation
	Error	Clavity		·
	Information			Shows any errors, or No Error!



Main Level	Pro	ogramming Lev	els	Description
		Frequency		
		Pan		
		Pan Fine		
		Tilt		
		Tilt Fine		
		P/T Speed		
		Dimmer		
		Dimmer Fine		
		Shutter		
		Cyan		
		Magenta		Shows all current values from input signals
		Yellow		
		Color		
	Channel Information	Gobo2	•	
		Gobo		
Information		Gobo Rotate	000–255	
(cont.)		Gobo Rotate Fine		
		Animation		
		Prism1		
		Prism1 Rotate		
		Prism2	1	
		Prism2 Rotate		
		Frost1		
		Beam Diffraction		
		Focus		
		Focus Fine		
		Focus Auto		
		Zoom		
		Zoom Fine		
		Special Function		



## Configuration (DMX, Art-Net™, sACN)

Use control configurations to operate the product with a DMX, Art-Net™, or sACN controller.

#### Control Mode

The Maverick Storm 1 Hybrid works with wired DMX, Lumenradio CRMX™, Art-Net™, and sACN control signals. To select which protocol to use:

- 1. Go to the **Settings** main level.
- 2. Select the Control Mode option.
- 3. Select the desired protocol, from **DMX**, **ArtNet**, **sACN**, or **WDMX** (for Lumenradio CRMX™).

#### **Control Personalities**

To set the control personality:

- 1. Go to the **Personality** main level.
- 2. Select the desired personality, from **Dmx Mode 24 CH** or **Dmx Mode 29 CH**.



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

#### **Starting Address**

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

- 1. Go to the Address main level.
- 2. Select the starting address (001-512).
  - The highest recommended starting address for Dmx Mode 24 CH is 489.
  - The highest recommended starting address for Dmx Mode 29 CH is 484.

## **Network Setup**

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

#### **IP Mode**

To choose how the IP address is set:

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

#### Universe

To assign an Art-Net™ or sACN universe to the Maverick Storm 1 Hybrid:

- 1. Go to the **Network Setup** main level.
- 2. Select the Universe option.
- 3. Set the universe, from **000–255** (for Art-Net<sup>™</sup>) or from **001–256** (for sACN).

#### **Manual IP Address**

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

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

#### **Subnet Mask**

To set the subnet mask:

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



# **Control Channel Assignments and Values**

24CH	29CH	Function	Value	Percent/Setting
1	1	Pan	000 ⇔ 255	
2	2	Fine pan		Fine control (16-bit)
3	3	Tilt	000 ⇔ 255	,
4	4	Fine tilt	000 ⇔ 255	Fine control (16-bit)
5	5	Pan/tilt speed	000 ⇔ 255	Fast to slow
6	6	Dimmer	000 ⇔ 255	0–100%
-	7	Fine dimmer	000 ⇔ 255	Fine control (16-bit)
			000 ⇔ 007	Off
			008 🗢 015	
			016 🖨 131	Synchronized strobe, slow to fast
7	8	Strobe		0–100% strobe, slow to fast
,	0	Strobe	168 ⇔ 203	100–0% strobe, slow to fast
			204  239	Pulse strobe, slow to fast
			240 ⇔ 250	Random strobe, slow to fast
			251 ⇔ 255	On
8	9	Cyan	000 ⇔ 255	0–100%
9	10	Magenta	000 ⇔ 255	0–100%
10	11	Yellow	000 ⇔ 255	0–100%
			000 🖘 001	Open
			002 🗢 003	Color 1 (red)
			004 ⇔ 005	Color 2 (orange)
			006 ⇔ 007	Color 3 (cyan)
			008 🗢 009	Color 4 (lime)
			010 👄 011	Color 5 (yellow)
			012 🖘 013	Color 6 (green)
			014 ⇔ 015	Color 7 (magenta)
			016 🖘 017	Color 8 (blue)
44	40		018 🖘 019	Color 9 (amber)
11	12	Color wheel	020 🖘 021	Color 10 (light blue)
			022 🖘 023	Color 11 (CTO)
				Color 12 (CTB)
				Color 13 (UV)
			028  029	
			030 🖘 031	
				Color wheel indexing
				Color scroll, fast to slow
			220 ⇔ 223	
				•
				∠∠4 ₩ ∠55



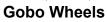
24CH	29CH	Function	Value	Percent/Setting
24011	20011		000 \$ 003	<u> </u>
			000 ⇔ 005 004 ⇔ 006	· ·
			007 🖘 009	
			010 🖘 012	
			013 ⇔ 015	
			016  018	
			019  021	Gobo 6
			022 🖘 024	Gobo 7
			025  027	Gobo 8
			028 🗢 030	Gobo 9
			031 ⇔ 033	Gobo 10
			034 ⇔ 036	
			037 ⇔ 039	
		Gobo wheel 2 (Beam mode) (see Gobo Wheels)	040 ⇔ 042	
	13		043 ⇔ 045	
			046 ⇔ 048	
			049 👄 055	
			056 ⇔ 059	·
12				Gobo 1 shaking, slow to fast
				Gobo 2 shaking, slow to fast
				Gobo 3 shaking, slow to fast Gobo 4 shaking, slow to fast
				Gobo 5 shaking, slow to fast
				Gobo 6 shaking, slow to fast
				Gobo 7 shaking, slow to fast
				Gobo 8 shaking, slow to fast
				Gobo 9 shaking, slow to fast
				Gobo 10 shaking, slow to fast
			100 ⇔ 103	Gobo 11 shaking, slow to fast
			104 ⇔ 107	Gobo 12 shaking, slow to fast
			108 😂 111	Gobo 13 shaking, slow to fast
			112 ⇔ 115	Gobo 14 shaking, slow to fast
			116 😂 119	Gobo 15 shaking, slow to fast
				Gobo 16 shaking, slow to fast
			124 ⇔ 127	Open
				Gobo scroll, fast to slow
			190 🖘 193	<u> </u>
			194 ⇔ 255	Reverse gobo scroll, slow to fast

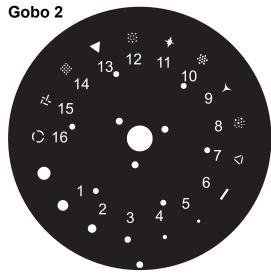


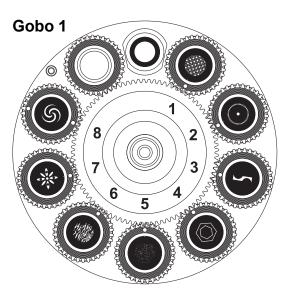
24CH	29CH	Function	Value	Percent/Setting
			000	Open
			001 ⇔ 005	Open spot mode
			006  011	Gobo 1
			012 😂 017	Gobo 2
			018 🗢 023	Gobo 3
			024  029	Gobo 4
			030 🗢 035	Gobo 5
			036 🗢 041	Gobo 6
			042 😂 047	Gobo 7
			048 🗢 063	Gobo 8
13	14	Gobo wheel 1 (Spot mode) (see Gobo Wheels)	064 ⇔ 069	Gobo 8 shaking, slow to fast
		(See Gobo Wheels)	070 ⇔ 075	Gobo 7 shaking, slow to fast
			076 ⇔ 081	Gobo 6 shaking, slow to fast
			082 ⇔ 087	Gobo 5 shaking, slow to fast
			088 🗢 093	Gobo 4 shaking, slow to fast
			094 🖘 099	Gobo 3 shaking, slow to fast
			100 ⇔ 105	Gobo 2 shaking, slow to fast
			106 ⇔ 111	Gobo 1 shaking, slow to fast
			112 😂 127	Open spot mode
			128 ⇔ 191	Gobo scroll, fast to slow
			192 ⇔ 255	Reverse gobo scroll, slow to fast
			000 ⇔ 063	Gobo indexing
			064 ⇔ 145	Gobo rotation, fast to slow
14	15	Gobo 1 rotation	146 ⇔ 149	Stop
			150 ⇔ 231	Reverse gobo rotation, slow to fast
			232 ⇔ 255	Gobo bounce, short to long
	16	Gobo 1 fine indexing		Gobo fine indexing
				No function
15	17	Animation wheel		Animation effect, fast to slow
			125 🖨 130	•
				Reverse animation effect, slow to fast
16	18	Prism 1		No function
-				Prism insert Prism index
				Prism rotation, fast to slow
17	19	Prism 1 rotate	120 ⇔ 109 190 ⇔ 193	
				Reverse prism rotation, slow to fast
				No function
18	20	Prism 2		Prism insert
				Prism index
				Prism rotation, fast to slow
19	21	Prism 2 rotate	190 ⇔ 193	
				Reverse prism rotation, slow to fast
20	22	Frost	000 ⇔ 255	·
-				No function
21	23	Beam diffraction	004 ⇔ 255	
22	24	Focus	000 🖘 255	
	1	_		I



24CH	29CH	Function	Value	Percent/Setting
_	25	Fine focus	000 ⇔ 255	Fine control (16-bit)
	20	Auto focus	000 🖘 010	No function
			011 🗢 059	5 meters
			060 ⇔ 108	10 meters
_	26	Auto locus	109 ⇔ 157	15 meters
			158 ⇔ 206	20 meters
			207 ⇔ 255	Auto-detect distance
23	27	Zoom	000 ⇔ 255	Zoom, wide to narrow
	28	Fine zoom		Fine control (16-bit)
				No function
			030 ⇔ 039	Pan/tilt swap on
				Pan/tilt swap off
				No function
				Pan/tilt blackout on
				Pan/tilt blackout off
				Color wheel blackout on
	29			Color wheel blackout off
		Control	110 ⇔ 119	Gobo wheel blackout on
				Gobo wheel blackout off
24			130 ⇔ 139	T
		(3 second hold)		Pan/tilt reset
				Color wheel/CMY reset
				Gobo/animation wheels reset
				Shutter/prism reset
				No function
				Zoom/focus/frost reset
			200 	
				Blackout on
				Blackout off
			230  239	
			240 ⇔ 255	No function
Caha	Who.	alo.		









## **Configuration (Settings)**

#### Pan Reverse

To set the orientation of the pan:

- 1. Go to the **Settings** main level.
- 2. Select the Pan Reverse option.
- 3. Select from **NO** (normal pan motion), or **YES** (reversed pan motion).

#### Tilt Reverse

To set the orientation of the tilt:

- 1. Go to the **Settings** main level.
- 2. Select the Tilt Reverse option.
- 3. Select from NO (normal tilt motion), or YES (reversed tilt motion).

#### Screen Reverse

To set the orientation of the display:

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

## Pan Angle

To set the maximum angle of the pan:

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

#### Tilt Angle

To set the maximum angle of the tilt:

- 1. Go to the **Settings** main level.
- 2. Select the **Tilt Angle** option.
- 3. Select from **270** (260°), **180** (180°), or **090** (90°).

#### **Black out on Movement**

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

- 1. Go to the **Settings** main level.
- 2. Select from the BL. O. P/T Move (black out on pan/tilt movement), BL. O. ColorMove (black out on color wheel movement), or BL. O. GoboMove (black out on gobo wheel movement) options.
- 3. Select from NO or YES.

#### Swap Pan and Tilt

To swap the controls for the pan and tilt:

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

#### WDMX Reset

To reset the WDMX connection:

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

#### **Display Backlight Timer**

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

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



#### **Loss of Data**

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

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

#### **Lamp Settings**

To access the lamp settings of the Maverick Storm 1 Hybrid:

- 1. Go to the **Setup** main level.
- 2. Select the **Lamp Settings** option.

#### Lamp On/Off

To turn the lamp on or off:

- 1. Access the Lamp Settings.
- 2. Select the On/Off option.
- 3. Select from **ON** or **OFF**.

#### Lamp State at Power On

To select whether the lamp will turn on when the product powers on:

- 1. Access the Lamp Settings.
- 2. Select the State/Power on option.
- 3. Select from **ON** (lamp will turn on when the product powers on), or **OFF** (lamp must be turned on manually).

#### Off Via DMX

To enable the ability to turn the lamp off with a DMX controller:

- 1. Access the Lamp Settings.
- 2. Select the **Off Via Dmx** option.
- 3. Select from **NO** (DMX may not turn lamp off), or **YES** (DMX may turn lamp off).

#### On If DMX On

To set the lamp to turn on when a DMX signal is detected:

- 1. Access the Lamp Settings.
- 2. Select the On If Dmx On option.
- 3. Select from **NO** (detecting a DMX signal will not turn on the lamp), or **YES** (detecting a DMX signal will turn on the lamp).

#### Off If DMX Off

To set the lamp to turn off when a DMX signal is not detected:

- 1. Access the Lamp Settings.
- 2. Select the **Off If Dmx Off** option.
- 3. Select from **NO** (detecting no DMX signal will not turn off the lamp), or **YES** (detecting no DMX signal will turn off the lamp).

#### **Ignition Delay**

To set the time in seconds between the product powering on and the lamp turning on (when **State/Power On** is set to **ON**):

- 1. Access the Lamp Settings.
- 2. Select the **Ignition Delay** option.
- 3. Set the delay time from 010-255 (seconds).

#### **Low Power Delay**

To set the time in seconds before the lamp enters low power mode with the shutter closed:

- 1. Access the Lamp Settings.
- 2. Select the Low Power Delay option.
- 3. Set the delay time from **000–255** (seconds).

#### **Reset Lamp On Time**

To reset the Lamp On Time counter (see the **System Information**):

- 1. Access the Lamp Settings.
- 2. Select the **Reset Lamp Time** option.
- 3. Select from NO (will not reset counter), or RESET (resets counter).



#### **Maintenance Timer Interval**

To set the interval of the maintenance timer (how long before the product signals it needs maintenance):

- 1. Go to the **Setup** main level.
- 2. Select the **Maintenance Timer** option.
- 3. Select the Interval option.
- 4. Set the interval time from 010-250 (hours).

#### **Reset Maintenance Timer**

To reset the maintenance timer:

- 1. Go to the **Setup** main level.
- 2. Select the Maintenance Timer option.
- Select the Remain Time option. The time remaining will display (it is also visible in the <u>System Information</u>).
- Select from NO (will not reset the timer), or RESET (will reset the timer).

#### **Preset Selection**

To select a preset configuration of menu options:

- 1. Go to the **Settings** main level.
- 2. Select the Preset Select option.
- 3. Select from PRESET A (default), PRESET B, or PRESET C.



- Changes to settings automatically save to the currently selected Preset.
- If no Preset has been selected, changes to settings save to PRESET A.
- After selecting a Preset, the product will restart.

#### **Preset Synchronization**

To transfer saved Presets from one Maverick Storm 1 Hybrid to another:

- 1. Connect the Maverick Storm 1 Hybrid products to receive the Presets by a DMX daisy chain.
- 2. Make the Maverick Storm 1 Hybrid with the Presets to transfer the first in the DMX daisy chain.
- 3. Power on all of the products.
- 4. Set all of the products to a Control Mode other than WDMX. (DMX, ArtNet, or sACN)
- 5. On the Maverick Storm 1 Hybrid with the Presets, go to the **Settings** main level.
- 6. Select the **Preset Sync** option.
- 7. Select **NO** (to cancel) or **YES** (to transfer the Presets to the connected products).



- All menu configurations are transferred except for the IP address.
- ONLY connect Maverick Storm 1 Hybrid products for this function!

#### **USB Update**

To enable or disable software update using USB:

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



See the <u>USB Software Update</u> section for the detailed instructions on how to update the Maverick Storm 1 Hybrid software using a USB C connection.

#### **Minimum Zoom Focus**

To enable or disable the Min Zoom Focus function:

- Go to the **Settings** main level.
- 2. Select the Min Zoom Focus option.
- 3. Select NO (manual independent zoom control) or YES (focus adjusts depending on zoom setting).



#### **Reset Function**

To reset specific functions or the entire product:

- 1. Go to the **Settings** main level.
- Select the Reset Function option.
- Select the functions to reset, from Pan/Tilt, Shutter/Prism, Color/CMY, Gobo/Animation, Zoom/ Focus/Frost, or All.
- 4. Select **NO** (to cancel) or **YES** (to reset the selected functions).

#### **Factory Reset**

To reset the product to factory settings:

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

#### **Test Mode**

#### **Auto Test**

To have the Maverick Storm 1 Hybrid automatically test all functions one after the other:

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

#### **Manual Test**

To manually test an individual function of the Maverick Storm 1 Hybrid:

- 1. Go to the **Test** main level.
- 2. Select the **Manual Test** option.
- 3. Select a function to test, from Pan, Pan Fine, Tilt, Tilt Fine, P/T Speed, Dimmer, Dimmer Fine, Shutter, Cyan, Magenta, Yellow, Color, Gobo2, Gobo, Gobo Rotate, Gobo Rotate Fine, Animation, Prism1, Prism1 Rotate, Prism2, Prism2 Rotate, Frost1, Beam Diffraction, Focus, Focus Fine, Focus Auto, Zoom, Zoom Fine, or Special Function.
- Increase or decrease the value of the selected function from 0-255 to test it.

## System Information

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

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

## Offset Mode (Zero Adjust)

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

- 1. From the main level screen, press and hold **<MENU>** until the passcode screen appears.
- 2. Enter the passcode: 0920 and press <ENTER>.
- 3. Select the "zero" position to adjust, from PAN, TILT, SHUT1, SHUT2, COLOR, GOBO2, GOBO, GOBO ROTATE, FOCUS GOBO, FOCUS GOBO2, ZOOM, PRISM1, PRISM1 ROT, PRISM2, PRISM2 ROT, FROST1, BEAM DIFFRACTION, CYAN, MAGENTA, YELLOW, ANIMATION, MAC4, MAC5, MAC6, RDM4, RDM5, or RDM6.
- 4. Adjust the "zero" position for the selected function from **000–255**.



#### **Web Server**

The Maverick Storm 1 Hybrid Web Server can be accessed by any computer on the same network as the product. It allows network access to system information, settings such as control setup, manual testing of all functions, firmware updates, and the ability to change the Web Server password.

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

#### Information

The Information page on the Web Server displays the current settings and the system information of the Maverick Storm 1 Hybrid.

#### 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 <a href="https://www.chauvetprofessional.com">https://www.chauvetprofessional.com</a> to download firmware updates.

#### Security

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



## 5. Maintenance

## **Product Maintenance**

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

To clean the product, follow the instructions below:

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



Always dry the transparent surfaces carefully after cleaning them.



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

## **Torque Measurements**

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

- Screws inside feet: 15.3 Kgf.cm, 13.3 lgb.in
- Base screws around outside (not the feet): 16.3 Kgf.cm, 14.1 lgb.in
- Base screws in middle: 35.7 Kgf.cm, 30.9 lgb.in
- Omega bracket holder: 12.2 Kgf.cm, 10.6 lgb.in
- Front and rear base cover: 25.5 Kgf.cm, 22.1 lgb.in
- Screws around power and data ports: 3.5 Kgf.cm, 3 lgb.in
- Fuse: 7.1 Kgf.cm, 6.1 lgb.in
- Center of yoke plate: 25.5 Kgf.cm, 22.1 lgb.in
- Allen Kev screws next to front lens: 25.5 Kgf.cm, 22.1 lgb.in
- Allen Key screws holding in front lens cover: 12.2 Kgf.cm, 10.6 lgb.in
- Allen Key screws next to heat pipes on the back: 25.5 Kgf.cm, 22.1 lgb.in
- Allen Key screws head and arm covers: 25.5 Kgf.cm, 22.1 lgb.in

#### **Vacuum Test Measurements**

To ensure that the product has been reassembled correctly, use the IP Tester from Chauvet Professional to check the following data has the given measurements for the given method:

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



# 6. Technical Specifications

## **Dimensions and Weight**

Length	Width	Height	Weight
15.27 in (388 mm)	10.78 in (274 mm)	29.72 in (755 mm)	64.4 lb (29.2 kg)

Note: Dimensions in inches are rounded.

**Power** 

Power Supply Type		Rai	nge	Voltage Selection	
Switching (internal)		100 to 240 VAC, 50/60 Hz		Auto-ranging	
Parameter	100 V, 60 Hz	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz	240 V, 50 Hz
Consumption	680 W	660 W	648 W	647 W	646 W
Operating Current	6.800 A	5.540 A	3.124 A	2.800 A	2.738 A
Fuse/Breaker	F 15 A, 250 V	F 15 A, 250 V	F 15 A, 250 V	F 15 A, 250 V	F 15 A, 250 V

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

## **Light Source**

Туре	Power	Lifespan
OSRAM SIRIUS HRI lamp	420 W	2,500 hours

#### **Photometrics**

Mode	Beam Angle	Field Angle	Cutoff Angle	Zoom Range
Spot (Gobo 1)	1.3° to 17.7°	2.2° to 31.9°	2.6° to 40.8°	1.3° to 40.8°
Beam (Gobo 2)	0.8° to 7.4°	1.5° to 19.9°	1.9° to 25.6°	0.8° to 25.6°
Wash (no gobo)	3.6° to 16.6°	6.7° to 30.1°	9.2° to 32.2°	3.6° to 32.2°

Illuminance (Spot Mode)	Illuminance (Beam Mode)	Illuminance (Wash Mode)
1,075,418 lux @ 5 m (2.2° field)	226,074 lux @ 15 m (1.5° field)	71,522 lux @ 5 m (6.7° field)
5,422 lux @ 15 m (31.9° field)	2,144 lux @ 15 m (19.9° field)	3,005 lux @ 5 m (30.1° field)

#### **Thermal**

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

#### Control

DMX I/O Connector	Ethernet I/O Connector	Channel Range
5-pin IP rated XLR	Neutrik IP rated RJ45	24 or 29

#### **Ordering**

Product Name	Item Name	Item Code	UPC Number
Maverick Storm 1 Hybrid	MAVERICKSTORM1HYBRID	08012056	781462224042











# **Contact Us**

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## Warranty & Returns

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

For customers in the United States and Mexico: <a href="https://www.chauvetlighting.com/warranty-registration">www.chauvetlighting.com/warranty-registration</a>.

For customers in the United Kingdom, Republic of Ireland, Belgium, the Netherlands, Luxembourg, France, and Germany: <a href="https://www.chauvetlighting.eu/warranty-registration">www.chauvetlighting.eu/warranty-registration</a>.