

MAVERICK STORM

1 HYBRID

User Manual



Model ID: MAVERICKSTORM1HYBRID

CHAUVET
PROFESSIONAL

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

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

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Before You Begin

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

Symbols

Symbol	Meaning
	Critical installation, configuration, or operation information. Not following these instructions may make the product not work, cause damage to the product, or cause harm to the operator.
	Important installation or configuration information. The product may not function correctly if this information is not used.
	Useful information.

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

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

 Connection of the control signal: DMX line

- The product has XLR sockets for DMX input and output.

- Notice: This control circuit is isolated and belongs to the Class 2 data port.

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

Safety Notes

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



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



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

- The luminaire is intended for professional use only.
- The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 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.

Before You Begin

FCC Statement of Compliance

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

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

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

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

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

RF Exposure Warning for North America and Australia

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

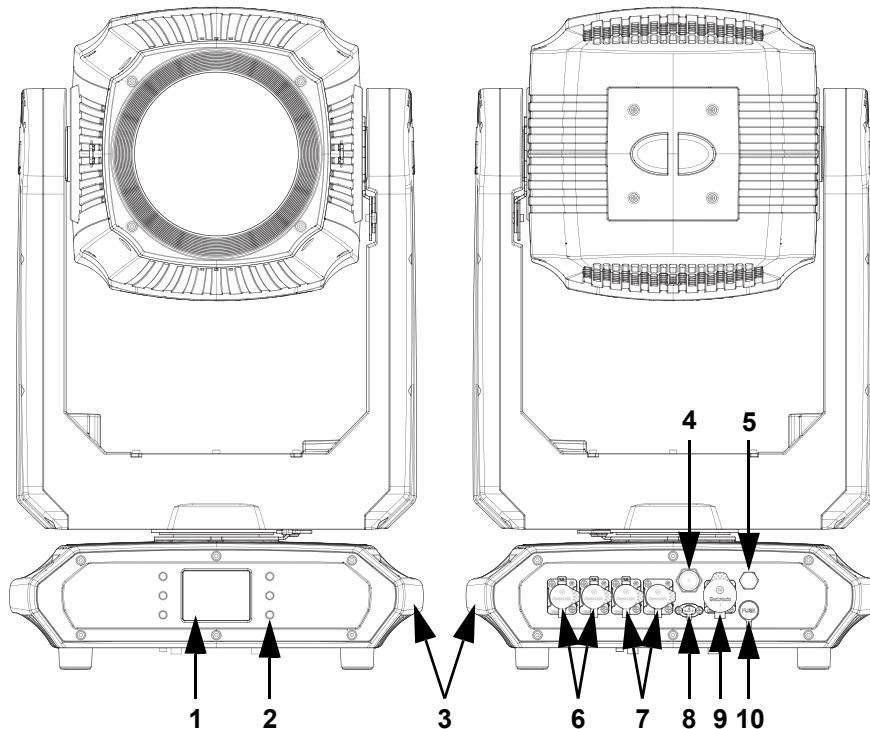
2. Introduction

Features

- Fully featured, IP65 rated, high powered Spot/Beam/Wash combination fixture with an Osram 420W, 7700 K with 4,500 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
- Built in Sky Tracker mode allows for up to 4 fixtures to work together to create sky tracker effects

*Test lab conditions. May vary depending on several factors including but not limited to: environmental conditions, power/voltage, usage patterns, (on/off power cycling), control, and dimming.

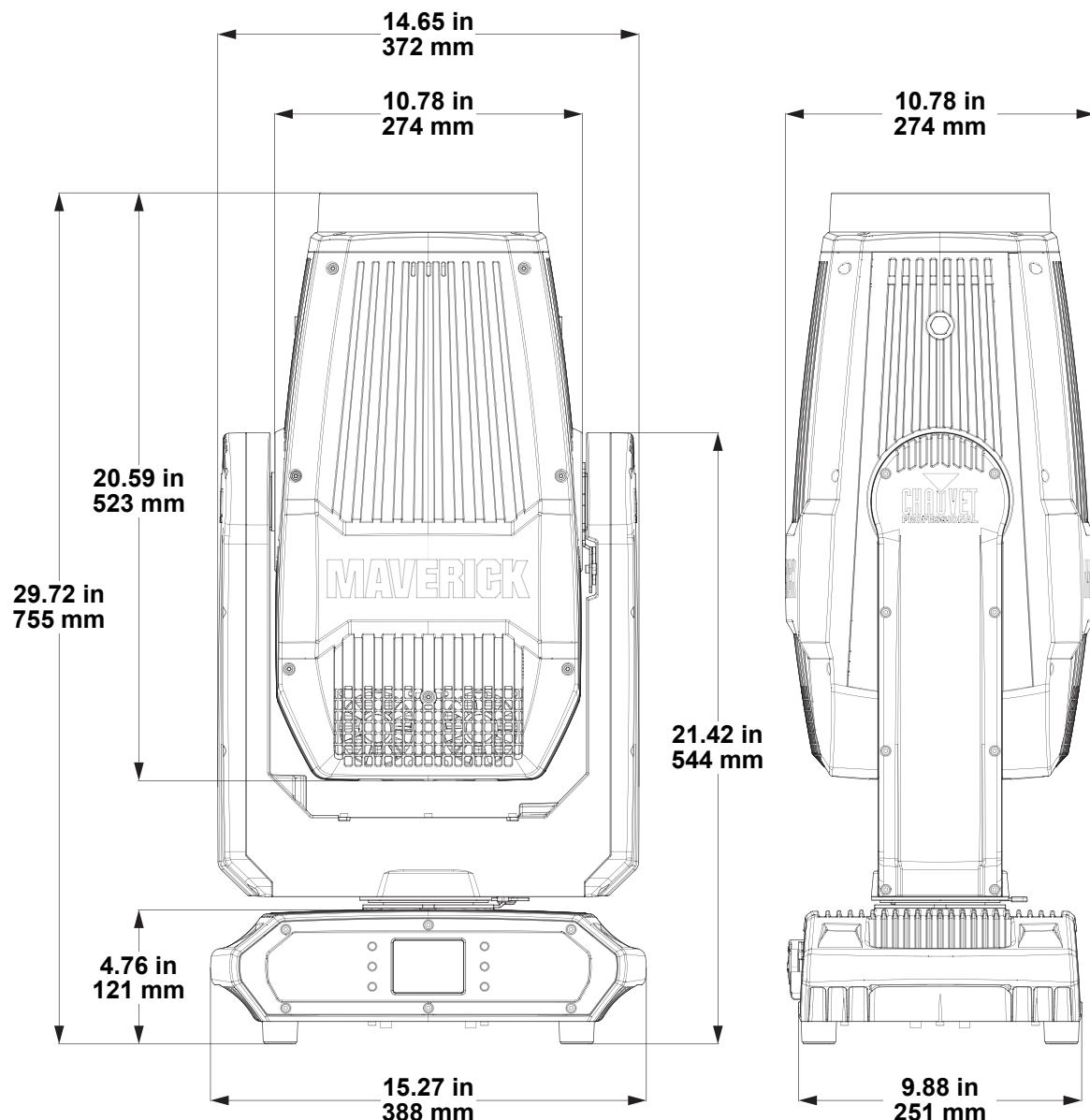
Product Overview



#	Name
1	LCD display
2	Menu buttons
3	Carry handles
4	Antenna
5	Condensation valve
6	Ethernet ports
7	DMX in/out
8	USB-C port
9	Power in
10	Fuse holder

Introduction

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

Remote Device Management

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.

Setup

USB Software Update

The Maverick Storm 1 Hybrid allows for software updates with a USB device using the built-in USB port. To update the software using a USB flash drive, do the following:

1. Power on the product, and plug the flash drive into the USB port.
2. Once the flash drive has been detected, the message “**USB UPDATE**” will be displayed. Select **YES**.
3. The next screen will show the software versions available for this fixture on the USB drive. For multiple versions of the software for the same fixture, use **<UP>** or **<DOWN>** to select the desired version. Press **<ENTER>**.
4. The “**USB UPDATE**” screen will re-appear. Select **YES**.



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

5. The update will start. **DO NOT** turn off the power or disconnect the USB while the USB LED is still blinking during the process. The screen display will read: “**USB Update Wait**”. The update can take several minutes to complete.
 - When the USB firmware is done uploading, in some fixtures, the display will change to: “**DO NOT UNPLUG, UPDATING**”.
6. When the update is completed, the fixture will automatically reboot.
7. Go to Fixture Information on the product’s menu map and confirm the firmware revision.
8. When the boot-up process is finished, restart the product.



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



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

Mounting

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

Orientation

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

Rigging

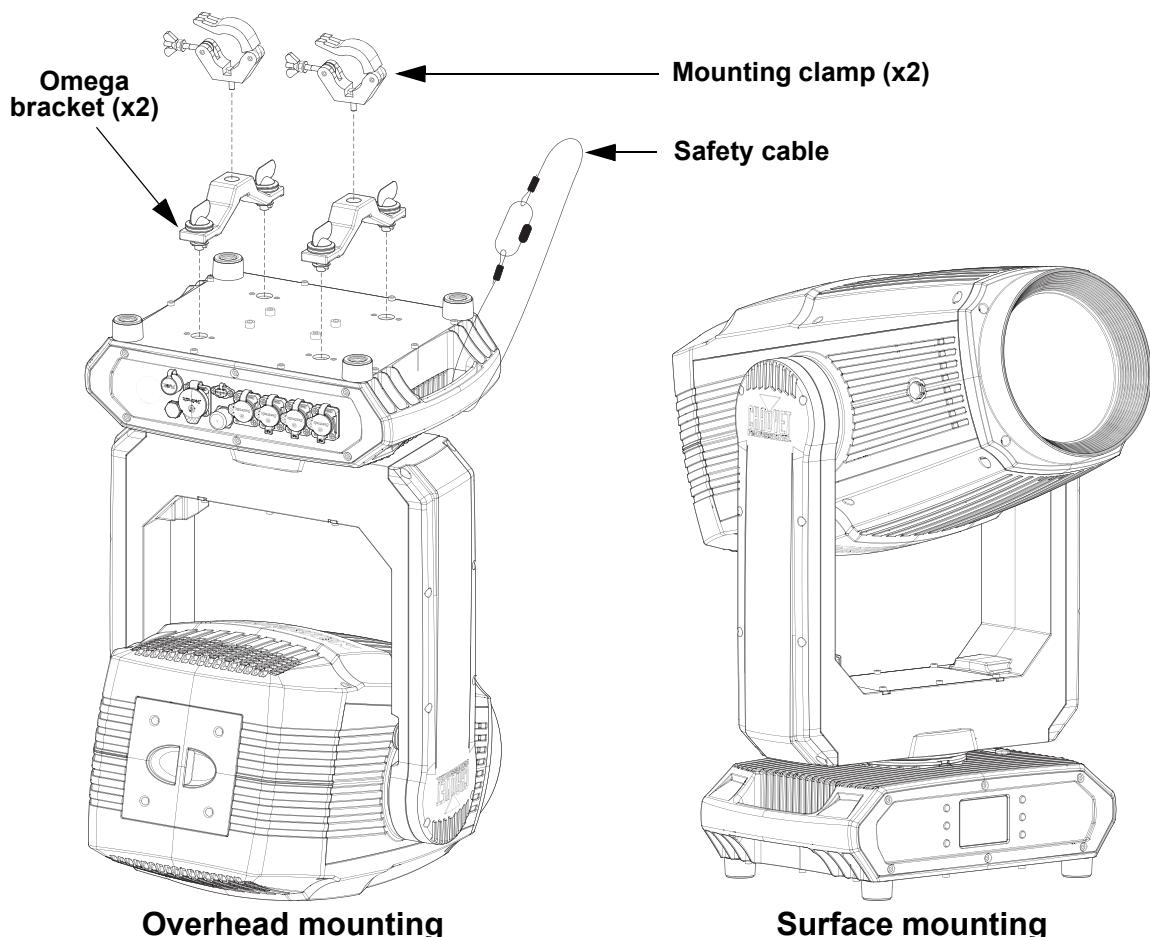
Chauvet recommends using the following general guidelines when mounting this product.

- Before deciding on a location for the product, make sure there is easy access to the product for maintenance and programming purposes.
- Make sure that the structure and attachment points can support the weight before hanging the product (see the [Technical Specifications](#)).
- 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 <http://www.trusst.com/products>.

Mounting Diagram



Setup

Signal Connections

The Maverick Storm 1 Hybrid can receive a DMX, Art-Net™, 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 CRM™, Art-Net™, or sACN for its two control personalities: **Dmx Mode 24 CH** and **Dmx Mode 29 CH**.

- Refer to the [Operation](#) chapter to learn how to configure the Maverick Storm 1 Hybrid to work in these personalities.
- The [Control Channel Assignments and Values](#) section provides detailed information regarding the control personalities.



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

DMX Linking

The Maverick Storm 1 Hybrid can link to a DMX controller using a 5-pin DMX connection or a Lumenradio CRM™ connection. For more information about DMX, read the DMX primer at:

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

Art-Net™ Connection

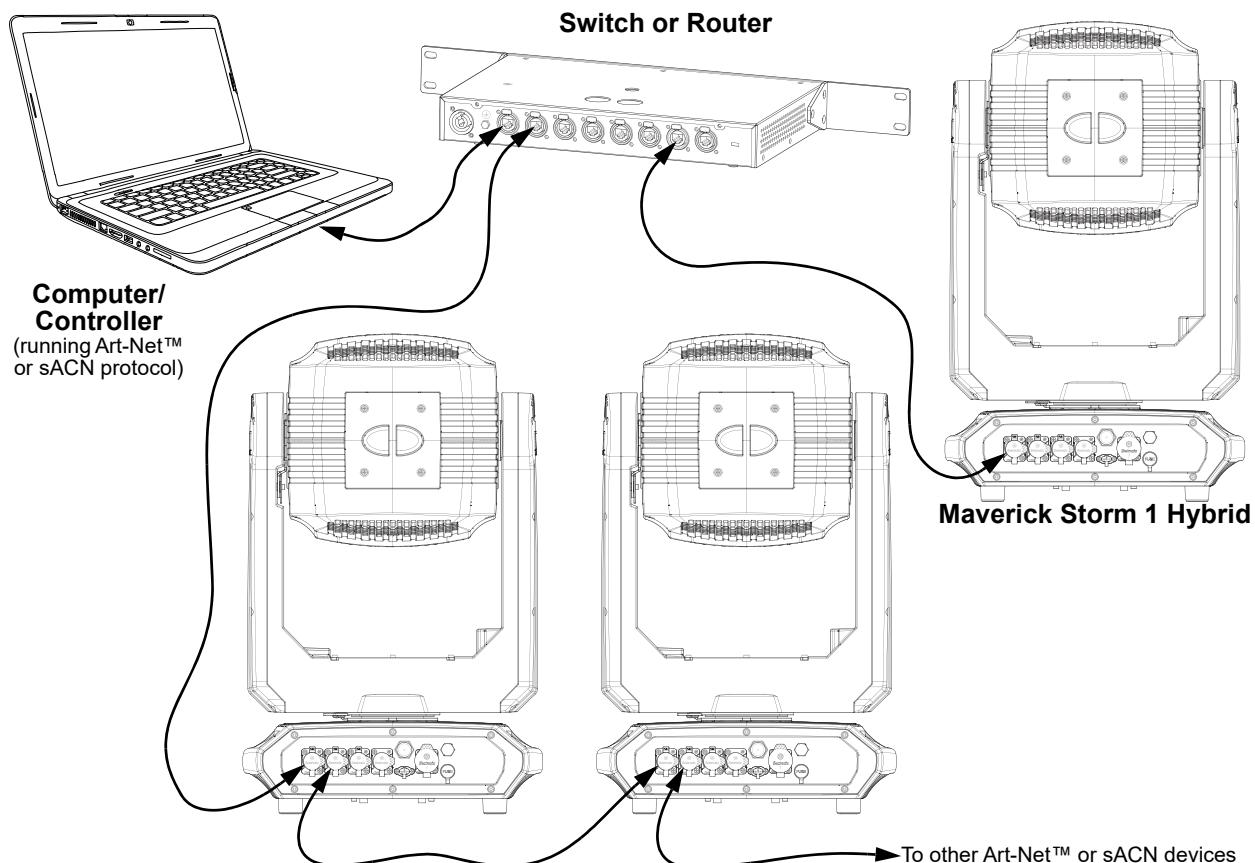
Art-Net™ is an Ethernet protocol that uses TCP/IP that transfers a large amount of DMX512 data using an Amphenol XLRnet RJ45 connection over a large network. An Art-Net™ protocol document is available from www.chauvetprofessional.com.

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

sACN Connection

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

Connection Diagram



Lamp Replacement

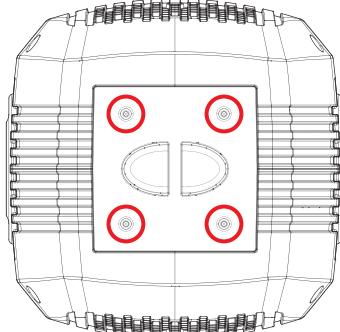
The Maverick Storm 1 Hybrid is equipped with an OSRAM SIRIUS HRI 420 W lamp. Follow the procedure below to safely change the lamp.



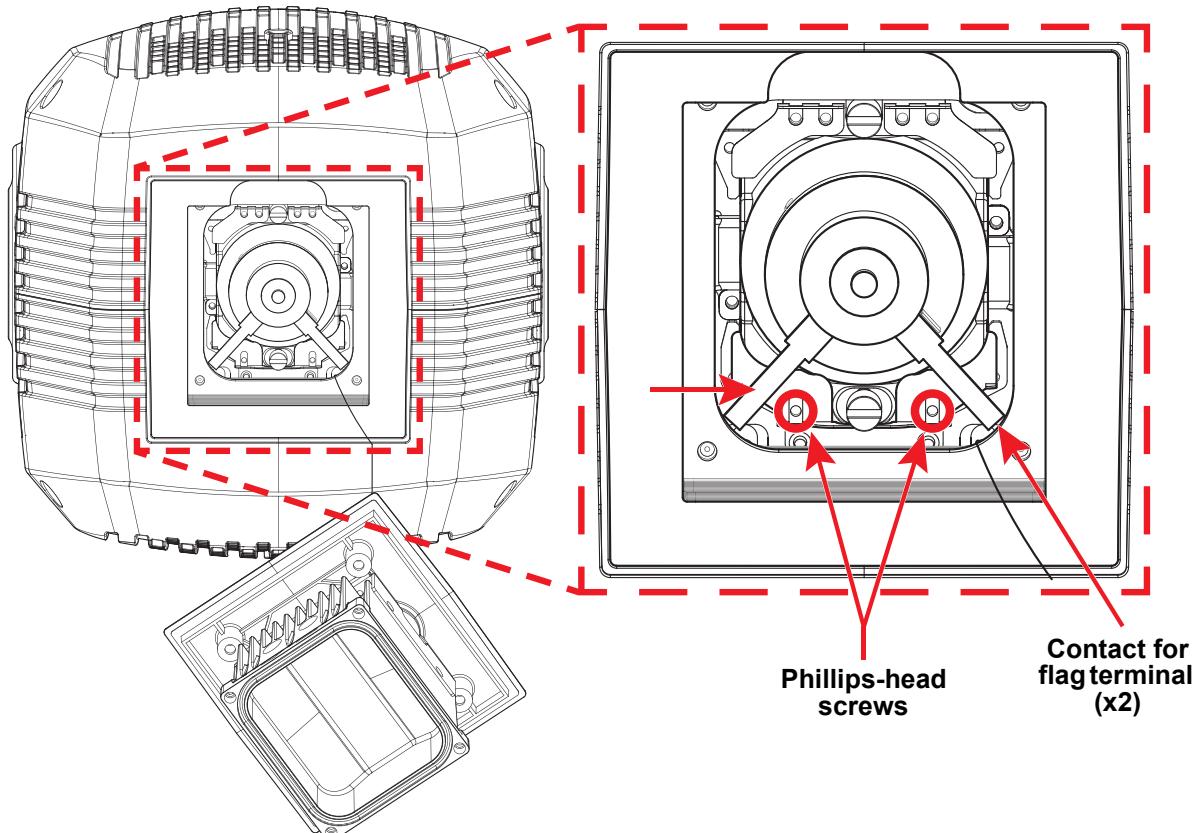
Disconnect the product from power before performing this procedure.

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 3 mm hex key until the bottom plate can be removed.



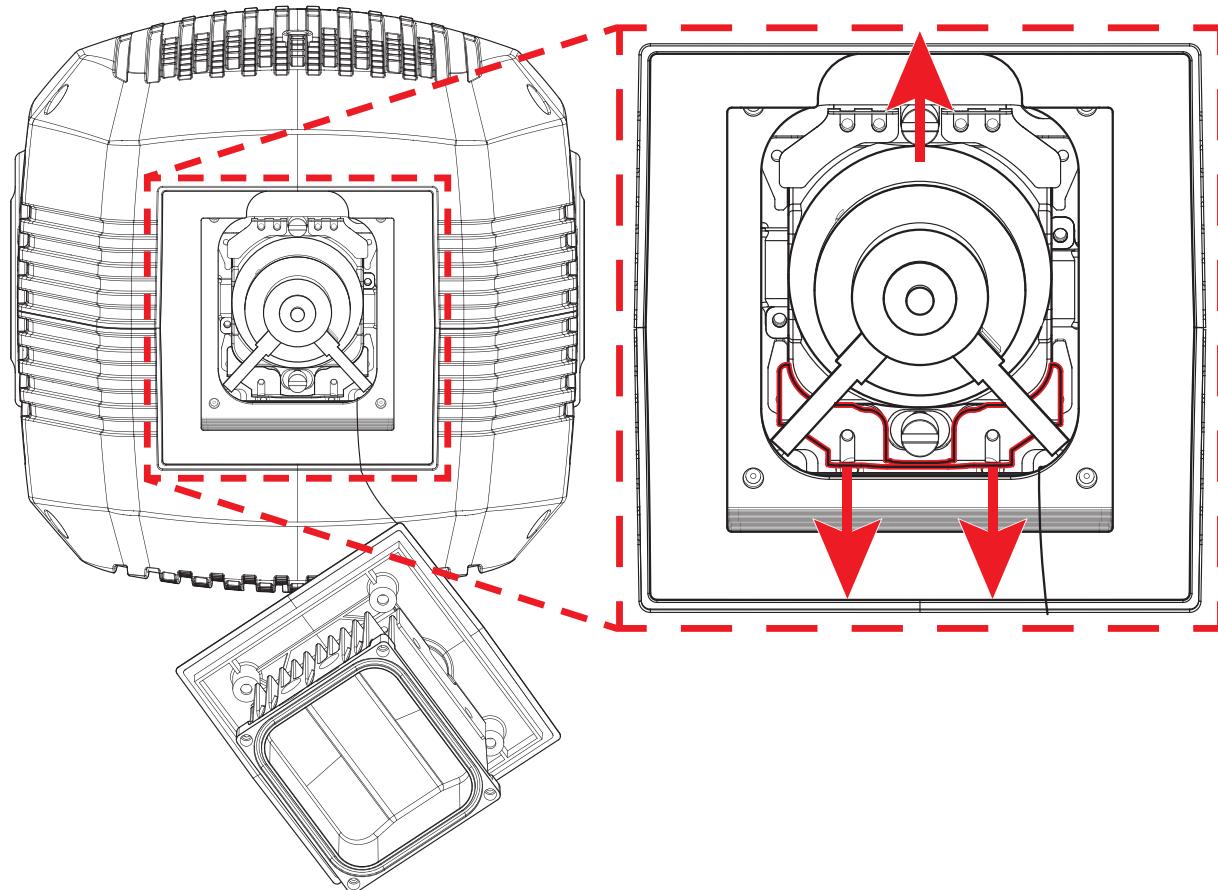
3. Carefully remove the bottom plate and heat sink and allow it to hang by the safety cord.
4. Remove the 2 wires connected to the lamp by the flag terminals.



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

Setup

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



- Slide the loosened plate away from the lamp.
- Roll the lamp out and pull it away.
- 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.

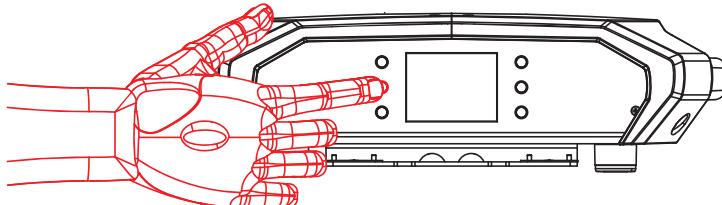
4. Operation

Control Panel Description

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

Battery Powered Display

The Maverick Storm 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).



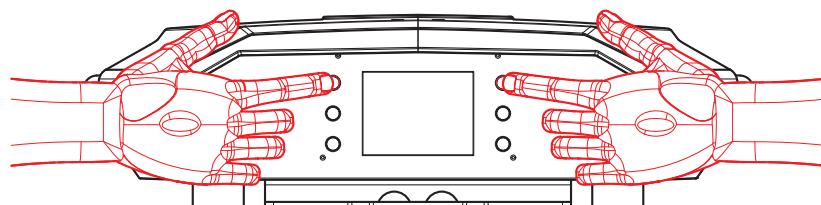
When the control panel lock is activated, the product will prompt for the passcode in order to access the menu. Enter the passcode as described below.

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.



Operation

Menu Map

Refer to the Maverick Storm 1 Hybrid product page on www.chauvetprofessional.com for the latest menu map and software.

Main Level	Programming Levels		Description
Address	001–512		Sets the starting address
Network Setup	IP Mode	Manual	Manually set IP address
		DHCP	Network sets IP address
		Static	Product sets IP address
	Universe	000–255 (Art-Net™) 001–256 (sACN)	Sets the universe
	Ip	— (000–255)	Sets the IP address in Manual mode
	SubMask	— (000–255)	Sets the Subnet Mask in Manual mode
Personality	Dmx Mode 24 CH		Selects the 24-channel mode
	Dmx Mode 29 CH		Selects the 29-channel mode
	Sky Tracker Mode		Selects Sky Tracker Mode
Settings	Control Mode	DMX	Selects the DMX control protocol
		WDMX	Selects Lumenradio CRMX™
		ArtNet	Selects the Art-Net* control protocol
		sACN	Selects the sACN control protocol
	Pan Reverse	NO	Normal pan
		YES	Reversed pan
	Tilt Reverse	NO	Normal tilt
		YES	Reversed tilt
	Screen Reverse	NO	Normal screen display
		YES	Inverted screen 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
		090	90° tilt range
	BL. O. P/T Move	NO	Enable/disable blackout while panning/tilting
		YES	
	BL. O. Color Move	NO	Enable/disable blackout while color wheel is moving
		YES	
	BL. O. Gobo Move	NO	Enable/disable blackout while gobo wheels are moving
		YES	
	Lock Screen	NO	Lock the buttons
		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

Main Level	Programming Levels			Description
Settings (cont.)	Loss of Data	Hold		Holds last signal received
		Close		Blacks out fixture
	Lamp Setting	On/Off	OFF	
			ON	Turns lamp on/off
		State/Power on	OFF	Defines the status of lamp when powering up product
			ON	
		Off Via Dmx	NO	
			YES	Turns off the unit via DMX controller
		On If Dmx on	NO	
			YES	Turns lamp on when DMX signal is detected
	Maintenance Timer	Off If Dmx Off	NO	
			YES	Turns lamp off when DMX signal is lost
	Preset Select	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
	Preset Sync	Reset Lamp Time	NO	Leaves lamp time unchanged
			RESET	Resets lamp timer to 0
	Sky Tracker Mode	Interval	010–250	Sets number of hours between maintenance
		Remain Time	NO	
			RESET	Shows maintenance timer. Select RESET to reset.
	Preset Sync	PRESET A		
		PRESET B		Recorded preset menu options
		PRESET C		
	Preset Sync	NO		Transfers recorded presets to other
		YES		Maverick Storm 1 Hybrid fixtures in the DMX daisy chain
	Sky Tracker Mode	Dimmer	000–255	Set dimmer
		Shutter	000–255	Set strobe (default 255)
		Cyan	000–255	Set cyan
		Magenta	000–255	Set magenta
		Yellow	000–255	Set yellow
		Color wheel	000–255	Set color wheel
		Gobo 1	000–255	Set gobo wheel 1
		Gobo 2	000–255	Set gobo wheel 2
		Prism 1	000–255	Set prism 1
		Prism 2	000–255	Set prism 2
		Focus	000–255	Set focus
		Zoom	000–255	Set zoom
	Shape	Fig 8		
		Circle		
		Square		Set movement shape
		Tri		
		Pan		
		Tilt		
	Pan offset	000–255		Set pan offset (default 128)
	Tilt offset	000–255		Set tilt offset (default 128)
	Size	000–255		Set movement size

Operation

Main Level	Programming Levels			Description
Settings (cont.)	Sky Tracker Mode (cont.)	Speed	000–255	Set movement speed
		Fixture offset	000–255	Set movement delay from fixture to fixture
		Fixture ID	001–004	Set fixture ID from 1 (master) or 2–4 (slave)
	USB Update	NO		Update firmware via USB C
		YES		
	Min Zoom Focus	NO		Enables/disables Minimum Zoom Focus
		YES		
	Reset Function	Pan/Tilt	NO YES	Reset individual functions or all functions from start-up
		Shutter/Prism		
		Color/CMY		
		Gobo/Animation		
		Zoom/Focus/Frost		
		All		
	Factory Settings	NO		Reset to factory default settings
		YES		
Test	Auto Test			Auto test all functions
	Manual Test	Pan	0–255	Manually control and test all settings through the control panel
		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		
		Special Function		
Information	Fixture Information	Ver	V_-----	Shows firmware version
		Running Mode	-----	Shows current running mode

Main Level	Programming Levels		Description
Information (cont.)	Fixture Information (cont.)	DMX Address	Shows current starting address
		Temperature	Shows current product temperature
		Fixture Hours	Shows hours product has been on
		Ip	Shows current IP address
		SubMask	Shows current Subnet Mask
		MAC	Shows MAC address
		UID	Shows product UID
		Lamp On Time	Shows lamp on time
		Remain Time	Shows lamp maintenance time
	Fan Information	Lamp MFan1-3 Speed	Shows speed of each fan in rpm
		BFan1-2 Speed	
		ZFan1 Speed	
		FFan1-7 Speed	
		AFan1 Speed	
		Base Fan1-3 Speed	
		Power ____W	
		Voltage ____V	
		Current ____A	
	Error Information	Gravity	Shows product orientation
		-----	Shows any errors, or No Error!
	Channel Information	Frequency	Shows all current values from input signals
		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	

Operation

Main Level	Programming Levels			Description
Information (cont.)	Channel Information (cont.)	Focus Auto	000–255	Shows all current values from input signals
		Zoom		
		Zoom Fine		
		Special Function		

DMX Configuration

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 CRM™, 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 CRM™).

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 [Starting Address](#) section for the highest selectable starting address for each personality.
 - Make sure that the starting addresses on the various products do not overlap due to the new personality setting.

Starting Address

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

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

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™) 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	0–100%
2	2	Fine pan	000 ⇄ 255	Fine control (16-bit)
3	3	Tilt	000 ⇄ 255	0–100%
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)
7	8	Strobe	000 ⇄ 007	Off
			008 ⇄ 015	On
			016 ⇄ 131	Synchronized strobe, slow to fast
			132 ⇄ 167	0–100% strobe, slow to fast
			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%
11	12	Color wheel	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)
			018 ⇄ 019	Color 9 (amber)
			020 ⇄ 021	Color 10 (light blue)
			022 ⇄ 023	Color 11 (CTO)
			024 ⇄ 025	Color 12 (CTB)
			026 ⇄ 027	Color 13 (UV)
			028 ⇄ 029	Frost
			030 ⇄ 031	Open
			032 ⇄ 187	Color wheel indexing
			188 ⇄ 219	Color scroll, fast to slow
			220 ⇄ 223	Stop
			224 ⇄ 255	Reverse color scroll, slow to fast

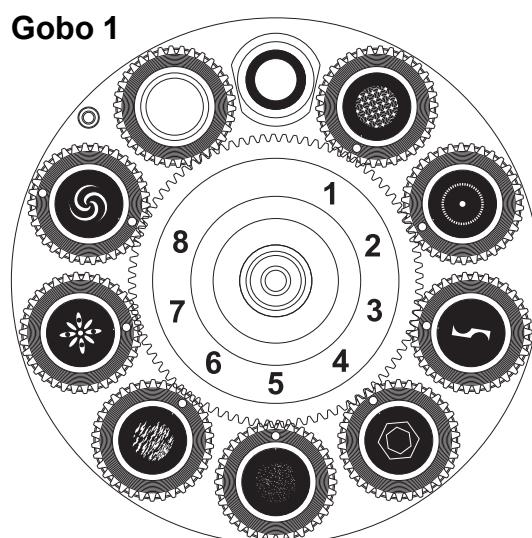
24CH	29CH	Function	Value	Percent/Setting
			000 ⇄ 003	Open
			004 ⇄ 006	Gobo 1
			007 ⇄ 009	Gobo 2
			010 ⇄ 012	Gobo 3
			013 ⇄ 015	Gobo 4
			016 ⇄ 018	Gobo 5
			019 ⇄ 021	Gobo 6
			022 ⇄ 024	Gobo 7
			025 ⇄ 027	Gobo 8
			028 ⇄ 030	Gobo 9
			031 ⇄ 033	Gobo 10
			034 ⇄ 036	Gobo 11
			037 ⇄ 039	Gobo 12
			040 ⇄ 042	Gobo 13
			043 ⇄ 045	Gobo 14
			046 ⇄ 048	Gobo 15
			049 ⇄ 055	Gobo 16
			056 ⇄ 059	Open
12	13	Gobo wheel 2 (Beam mode) (see Gobo Wheels)	060 ⇄ 063	Gobo 1 shaking, slow to fast
			064 ⇄ 067	Gobo 2 shaking, slow to fast
			068 ⇄ 071	Gobo 3 shaking, slow to fast
			072 ⇄ 075	Gobo 4 shaking, slow to fast
			076 ⇄ 079	Gobo 5 shaking, slow to fast
			080 ⇄ 083	Gobo 6 shaking, slow to fast
			084 ⇄ 087	Gobo 7 shaking, slow to fast
			088 ⇄ 091	Gobo 8 shaking, slow to fast
			092 ⇄ 095	Gobo 9 shaking, slow to fast
			096 ⇄ 099	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
			120 ⇄ 123	Gobo 16 shaking, slow to fast
			124 ⇄ 127	Open
			128 ⇄ 189	Gobo scroll, fast to slow
			190 ⇄ 193	Stop
			194 ⇄ 255	Reverse gobo scroll, slow to fast

24CH	29CH	Function	Value	Percent/Setting
13	14	Gobo wheel 1 (Spot mode) (see Gobo Wheels)	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
			064 ⇄ 069	Gobo 8 shaking, slow to fast
			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
14	15	Gobo 1 rotation	000 ⇄ 063	Gobo indexing
			064 ⇄ 145	Gobo rotation, fast to slow
			146 ⇄ 149	Stop
			150 ⇄ 231	Reverse gobo rotation, slow to fast
			232 ⇄ 255	Gobo bounce, short to long
-	16	Gobo 1 fine indexing	000 ⇄ 255	Gobo fine indexing
15	17	Animation wheel	000 ⇄ 001	No function
			002 ⇄ 124	Animation effect, fast to slow
			125 ⇄ 130	Stop
			131 ⇄ 255	Reverse animation effect, slow to fast
16	18	Prism 1	000 ⇄ 004	No function
			005 ⇄ 255	Prism insert
17	19	Prism 1 rotate	000 ⇄ 127	Prism index
			128 ⇄ 189	Prism rotation, fast to slow
			190 ⇄ 193	Stop
			194 ⇄ 255	Reverse prism rotation, slow to fast
18	20	Prism 2	000 ⇄ 004	No function
			005 ⇄ 255	Prism insert
19	21	Prism 2 rotate	000 ⇄ 127	Prism index
			128 ⇄ 189	Prism rotation, fast to slow
			190 ⇄ 193	Stop
			194 ⇄ 255	Reverse prism rotation, slow to fast
20	22	Frost	000 ⇄ 255	0–100%
21	23	Beam diffraction	000 ⇄ 003	No function
			004 ⇄ 255	0–100%
22	24	Focus	000 ⇄ 255	0–100%

Operation

24CH	29CH	Function	Value	Percent/Setting
-	25	Fine focus	000 ⇄ 255	Fine control (16-bit)
-	26	Auto focus	000 ⇄ 010 011 ⇄ 059 060 ⇄ 108 109 ⇄ 157 158 ⇄ 206 207 ⇄ 255	No function 5 meters 10 meters 15 meters 20 meters Auto-detect distance
23	27	Zoom	000 ⇄ 255	Zoom, wide to narrow
-	28	Fine zoom	000 ⇄ 255	Fine control (16-bit)
24	29	Control (3 second hold)	000 ⇄ 029 030 ⇄ 039 040 ⇄ 049 050 ⇄ 069 070 ⇄ 079 080 ⇄ 089 090 ⇄ 099 100 ⇄ 109 110 ⇄ 119 120 ⇄ 129 130 ⇄ 139 140 ⇄ 149 150 ⇄ 159 160 ⇄ 169 170 ⇄ 179 180 ⇄ 189 190 ⇄ 199 200 ⇄ 209 210 ⇄ 219 220 ⇄ 229 230 ⇄ 239 240 ⇄ 255	No function Pan/tilt swap on Pan/tilt swap off No function Pan/tilt blackout on Pan/tilt blackout off Color wheel blackout on Color wheel blackout off Gobo wheel blackout on Gobo wheel blackout off Lamp on Pan/tilt reset Color wheel/CMY reset Gobo/animation wheels reset Shutter/prism reset No function Zoom/focus/frost reset All reset Blackout on Blackout off Lamp off No function

Gobo Wheels



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.
3. Select the length of the backlight timer, from **30S** (30 seconds), **1M** (1 minute), **5M** (5 minutes), or **ON** (always on).

Operation

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.
3. Select the **Remain Time** option. The time remaining will display (it is also visible in the [System Information](#)).
4. 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.
3. Select **NO** (disables software update through USB) or **YES** (enables software update through USB).



See the [USB Software Update](#) section for the detailed instructions on how to update the Maverick Storm 1 Hybrid software using a USB C connection.

Minimum Zoom Focus

To enable or disable the Min Zoom Focus function:

1. 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).

Operation

Reset Function

To reset specific functions or the entire product:

1. Go to the **Settings** main level.
2. Select the **Reset Function** option.
3. 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**.
4. Increase or decrease the value of the selected function from **0–255** to test it.

System Information

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

1. Go to the **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**, **TIILT**, **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**.

Sky Tracker Mode

The sky tracker mode allows up to four Maverick Storm 1 Hybrid products to work together to create standalone air effects. Do the following with each included fixture to enable sky tracker mode:

1. Connect to the other fixtures with a DMX daisy chain.
2. Set the **Control Mode** to **DMX**.
3. Set the **Personality** to **Sky Tracker Mode**.
4. Go to the **Settings** main level and select the **Sky Tracker Mode** option.
5. Select the **Fixture ID** setting. Set the **Fixture ID (001–004)**.

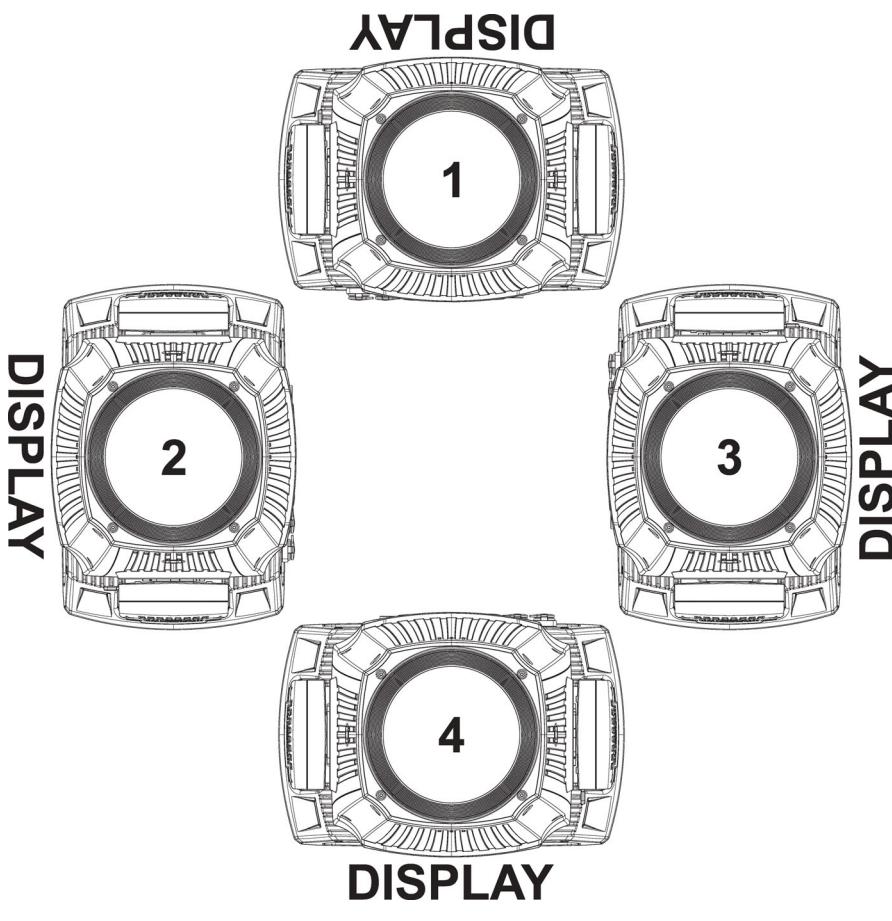
Once each fixture has a Fixture ID, use Fixture 1 to program the sky tracker mode:

1. Go to the **Settings** main level and select the **Sky Tracker Mode** option.
2. Select the parameters from **Dimmer**, **Shutter**, **Cyan**, **Magenta**, **Yellow**, **Color wheel**, **Gobo 1**, **Gobo 2**, **Prism 1**, **Prism**, **Focus**, **Zoom**, **Shape**, **Pan offset**, **Tilt offset**, **Size**, **Speed**, and **Fixture offset (delay)**.
3. For:
 - All parameters except **Shape**, set the selected value from **000–255**.
 - **Shape**, select the shape from **Fig 8, Circle, Square, Tri, Pan, or Tilt**.
 - In sky tracker mode, Fixture 1 is the master product. Program Fixture 1 and Fixtures 2–4 will follow.
 - Set each fixture in the sky tracker mode to a unique **Fixture ID**.
 - All parameters are set to 0 by default. The **Size**, **Speed**, **Dimmer**, and **Shutter** setting values must be increased to see movement or light output respectively.



Sky Tracker Orientation

The Maverick Storm 1 Hybrid is equipped with a Sky Tracker Mode that is designed to allow up to four Maverick Storm 1 Hybrids to work together to create standalone air effects.



Display always faces out

Operation

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 [Home Screen](#).
4. Enter the IP address of the product into the URL bar of a web browser on the computer.
5. Enter both the User Name and Password as **admin** to log in.

Information

The Information page on the Web Server displays the current settings and the system information of the Maverick Storm 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 <https://www.chauvetprofessional.com> to download firmware updates.

Security

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

Error Codes

See the table below for error codes and recommended solutions:

Error Code	Possible Reason	Potential Solution
AFAN1	A Fan 1 is damaged	Replace A fan 1
	Fan wires have poor connection	Check fan wire connection
Base Fan1	Base Fan 1 is damaged	Replace base fan 1
	Fan wires have poor connection	Check fan wire connection
Base Fan2	Base Fan 2 is damaged	Replace base fan 2
	Fan wires have poor connection	Check fan wire connection
Base Fan3	Base Fan 3 is damaged	Replace base fan 3
	Fan wires have poor connection	Check fan wire connection
BFAN1	B Fan 1 is damaged	Replace B fan 1
	Fan wires have poor connection	Check fan wire connection
BFAN2	B Fan 2 is damaged	Replace B fan 2
	Fan wires have poor connection	Check fan wire connection
Color	Sensor board is damaged	Replace the color sensor board
	The magnetic rod of the color sensor board is dropped or installed upside down	Check the magnetic rod
CPU-A	The display PCB is damaged	Replace the display board
	CPU-A software upload failed	Re-upload the CPU-A software
CPU-B	The pan/tilt driver PCB is damaged	Replace the pan/tilt driver board
	CPU-B software upload failed	Re-upload the CPU-B software
CPU-C	The gobo/color motor driver PCB is damaged	Replace the gobo/color motor driver PCB
	CPU-C software upload failed	Re-upload the CPU-C software
CPU-D	The zoom/focus motor driver PCB is damaged	Replace the zoom/focus motor driver PCB
	CPU-D software upload failed	Re-upload the CPU-D software
CPU-E	The CMY motor driver PCB is damaged	Replace the CMY motor driver PCB
	CPU-E software upload failed	Re-upload the CPU-E software
CYAN	Sensor board is damaged	Replace the cyan sensor board
	The magnetic rod of the cyan sensor board is dropped or installed upside down	Check the magnetic rod
FAN1	Fan 1 is damaged	Replace fan 1
	Fan wires have poor connection	Check fan wire connection
FAN2	Fan 2 is damaged	Replace fan 2
	Fan wires have poor connection	Check fan wire connection
FAN3	Fan 3 is damaged	Replace fan 3
	Fan wires have poor connection	Check fan wire connection
FAN4	Fan 4 is damaged	Replace fan 4
	Fan wires have poor connection	Check fan wire connection
FAN5	Fan 5 is damaged	Replace fan 5
	Fan wires have poor connection	Check fan wire connection
FAN6	Fan 6 is damaged	Replace fan 6
	Fan wires have poor connection	Check fan wire connection
FAN7	Fan 7 is damaged	Replace fan 7
	Fan wires have poor connection	Check fan wire connection
Focus	Sensor board is damaged	Replace the focus sensor board
	The magnetic rod of the focus sensor board is dropped or installed upside down	Check the magnetic rod

Operation

Error Code	Possible Reason	Potential Solution
Gobo	Sensor board is damaged	Replace the gobo sensor board
	The magnetic rod of the gobo sensor board is dropped or installed upside down	Check the magnetic rod
Gobo.R	Sensor board is damaged	Replace the gobo rotation sensor board
	The magnetic rod of the gobo rotation sensor board is dropped or installed upside down	Check the magnetic rod
Gobo2	Sensor board is damaged	Replace the gobo2 sensor board
	The magnetic rod of the gobo2 sensor board is dropped or installed upside down	Check the magnetic rod
Lamp MFan1	Lamp M Fan 1 is damaged	Replace lamp M fan 1
	Fan wires have poor connection	Check fan wire connection
Lamp MFan2	Lamp M Fan 2 is damaged	Replace lamp M fan 2
	Fan wires have poor connection	Check fan wire connection
Lamp MFan3	Lamp M Fan 3 is damaged	Replace lamp M fan 3
	Fan wires have poor connection	Check fan wire connection
MAGENTA	Sensor board is damaged	Replace the magenta sensor board
	The magnetic rod of the magenta sensor board is dropped or installed upside down	Check the magnetic rod
Prism1	Prism1 sensor board is damaged	Replace the prism 1 sensor board
	The magnetic rod of the prism 1 sensor board is dropped or installed upside down	Check the magnetic rod
Prism1.R	Prism 1 rotation sensor board is damaged	Replace the prism 1 rotation sensor board
	The magnetic rod of the prism 1 rotation sensor board is dropped or installed upside down	Check the magnetic rod
Prism2	Prism 2 sensor board is damaged	Replace the prism 2 sensor board
	The magnetic rod of the prism 2 sensor board is dropped or installed upside down	Check the magnetic rod
Protecting(Lamp Off)	Lamp is off, in protection mode	Resolve issue which triggered protection mode, then turn the lamp on through the Lamp Settings
X_cm	Pan magnetic locating board is damaged	Replace the pan magnetic locating board
	Pan/tilt driver board is damaged	Replace the pan/tilt driver board
X_op	Pan optocoupler board is damaged	Replace the pan optocoupler board
	Pan/tilt driver board is damaged	Replace the pan/tilt driver board
Y_cm	Tilt magnetic locating board is damaged	Replace the tilt magnetic locating board
	Pan/tilt driver board is damaged	Replace the pan/tilt driver board
Y_op	Tilt optocoupler board is damaged	Replace the tilt optocoupler board
	Pan/tilt driver board is damaged	Replace the pan/tilt driver board
YELLOW	Sensor board is damaged	Replace the yellow sensor board
	The magnetic rod of the yellow sensor board is dropped or installed upside down	Check the magnetic rod
ZFan1	Z Fan 1 is damaged	Replace Z fan 1
	Fan wires have poor connection	Check fan wire connection
Zoom	Sensor board is damaged	Replace the zoom sensor board
	The magnetic rod of the zoom sensor board is dropped or installed upside down	Check the magnetic rod

5. Maintenance

Product Maintenance

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

To clean the product, follow the instructions below:

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



Always dry the transparent surfaces carefully after cleaning them.



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:

Fixture Parts	Torque Rating (Kgf.cm)	Torque Rating (lgb.in)
Screws around power and data ports	3.56901	3.09776
Fuse	7.13801	6.19551
Omega bracket holder	12.2366	10.62088
Front lens cover	15.2957	13.27606
Screws inside feet	16.3155	14.1612
Base screws around outside (not the feet)		
Front and rear base cover		
Front lens support		
Screws behind front lens support		
Center of yoke plate	25.4929	22.12682
Allen Key screws next to heat pipes on the back		
Allen Key screws head and arm covers		
Base screws in middle	35.6901	30.97758

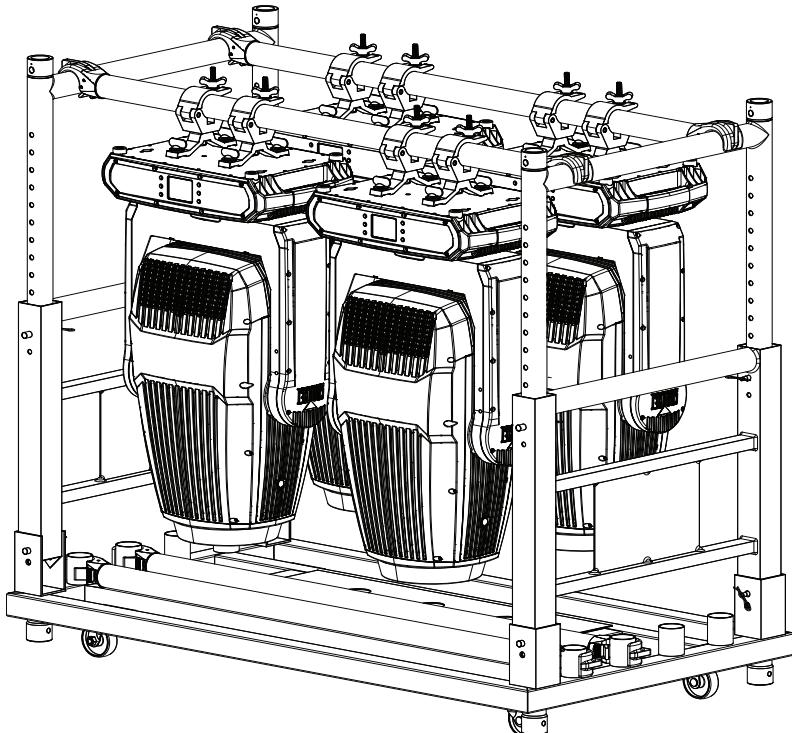
Vacuum Test Measurements

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

Parameters	Values
Method	Positive
Test pressure	15 kPa
Test duration	60 seconds
PASS state leak pressure	<0.1 kPa

Maintenance

Transporting on Truss or Racks



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

6. Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
15.27 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		Range			Voltage Selection	
Switching (internal)		100 to 240 VAC, 50/60 Hz			Auto-ranging	
Parameter	100 V, 60 Hz	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz	240 V, 50 Hz	
Consumption	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

Type	Power	Color Temperature	Lifespan*
OSRAM SIRIUS HRI lamp	420 W	7700 K	4,500 hours

*Test lab conditions. May vary depending on several factors including but not limited to: environmental conditions, power/voltage, usage patterns, (on/off power cycling), control, and dimming.

Photometrics

Color Temperature (at full)		Front Lens Diameter		Lumens
6,995 K		174 mm		30,978
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)

Acoustic

Settings	Idle	Max
Sound pressure level (dBA @ 1 m)	40	41.2

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

RoHS



UL 1573
CSA C22.2 No. 166
E113093



Contact Us

General Information	Technical Support
Chauvet World Headquarters	
Address: 3360 Davie Rd., Suite 509 Davie, FL 33314 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 U.K.	
Address: Pod 1 EVO Park Little Oak Drive, Sherwood Park Nottinghamshire, NG15 0EB UK Voice: +44 (0) 1773 511115 Fax: +44 (0) 1773 511110	Email: UKtech@chauvetlighting.eu Website: www.chauvetprofessional.eu
Chauvet Benelux	
Address: Vaartlaan 9 9800 D deinze 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

Warranty & Returns

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

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

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