

MAVERICK STORM LT

User Manual



Model ID: MAVERICKSTORMLT

CHAUVE
PROFESSIONAL

Edition Notes

The Maverick Storm LT User Manual includes a description, safety precautions, installation, programming, operation, and maintenance instructions for the Maverick Storm LT 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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1. Before You Begin

What Is Included

- Maverick Storm LT
- Bare-ended Seetronic Powerkon IP65 power cable
- 2 140-DX Omega brackets with mounting hardware
- Quick Reference Guide

Claims

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

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

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

Text Conventions

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

Symbols

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



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

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



Connection of the control signal: DMX line

- The product has XLR sockets for DMX input and output.
 - **Notice:** This control circuit is isolated and belongs to the Class 2 data port.
- The control circuit has a cumulative leakage current of less than 3.5 mA.

Safety Notes

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



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



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

- The luminaire is intended for professional use only.
- The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 49.21 ft (15 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.
 - When using an IP65-rated product in an outdoor environment, use IP65- (or higher) rated power and data cable, such as Chauvet's RIGLINK cables.
 - Replace and secure IP-rated protective covers to all power, data, USB, or other ports when not in use.
 - 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 50 cm of this product while operating or connected to power.
 - Connect this product to a dimmer or rheostat.
 - Power up this product at any voltage below 208 V.
 - 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.
 - The maximum ambient temperature is 113 °F (45 °C). Do not operate this product at higher temperatures.
 - The minimum startup temperature is -4°F (-20°C). Do not start the product at lower temperatures.
 - The minimum ambient temperature is -22°F (-30°C). Do not operate the product at lower temperatures.
 - To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.
 - In the event of a serious operating problem, stop using immediately.



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

FCC Statement of Compliance

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

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

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

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

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

RF Exposure Warning for North America and Australia

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

Expected LED Lifespan

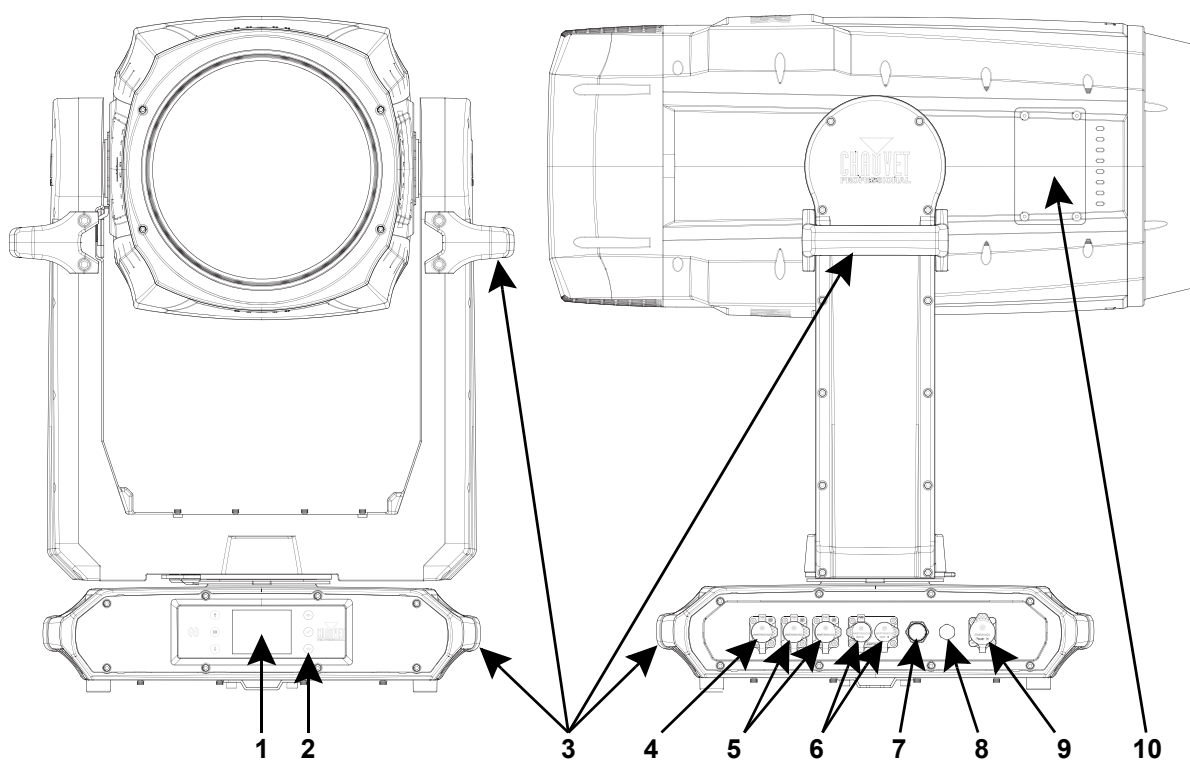
Over time, use and heat will gradually reduce LED brightness. Clustered LEDs produce more heat than single LEDs, contributing to shorter lifespans if always used at full intensity. The average LED lifespan is 40,000 to 50,000 hours. To extend LED lifespan, maintain proper ventilation around the product,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

2. Introduction

Features

- Fully featured, IP65 1,400 W LED yoke profile fixture including CMY + CTO color mixing, a 4-blade framing shutter system with rotation, a color wheel, 18:1 zoom, 2 prisms (5 facet round and linear, 2 rotating gobo wheels, integrated sun shield)
- 16-bit dimming of master dimmer for smooth control of fades
- Variable CMY + CTO color mixing system to create a wide pallet of colors
- CRI and CTB filters on color wheel for added flexibility
- Two gobo wheels: (1) rotating, indexing and interchangeable slot and lock, and (1) Static
- An animation wheel for kinetic textured effects
- DMX, CRMX, sACN, and Art-Net for full flexibility of control options
- RDM and NFC enabled for remote addressing and trouble shooting
- 3.2 to 55.9° zoom range for variable beam sizes
- Iris, 5-facet round and linear prisms, and 2 frosts (light and medium) for beam control
- True 1 compatible power input
- Integrated sun shield protects the optical path from sunlight when the fixture is powered off
- Bluetooth compatibility for software uploads
- Battery backup display with auto-rotate depending on fixture orientation
- Failsafe Ethernet connectivity allows for data to pass even if fixture power is lost
- Camera ready (camera kit sold separately) (camera not sold by CHAUVET)
- Built-in Sky Tracker mode allows up to 4 fixtures to work together to create sky tracker effects

Product Overview

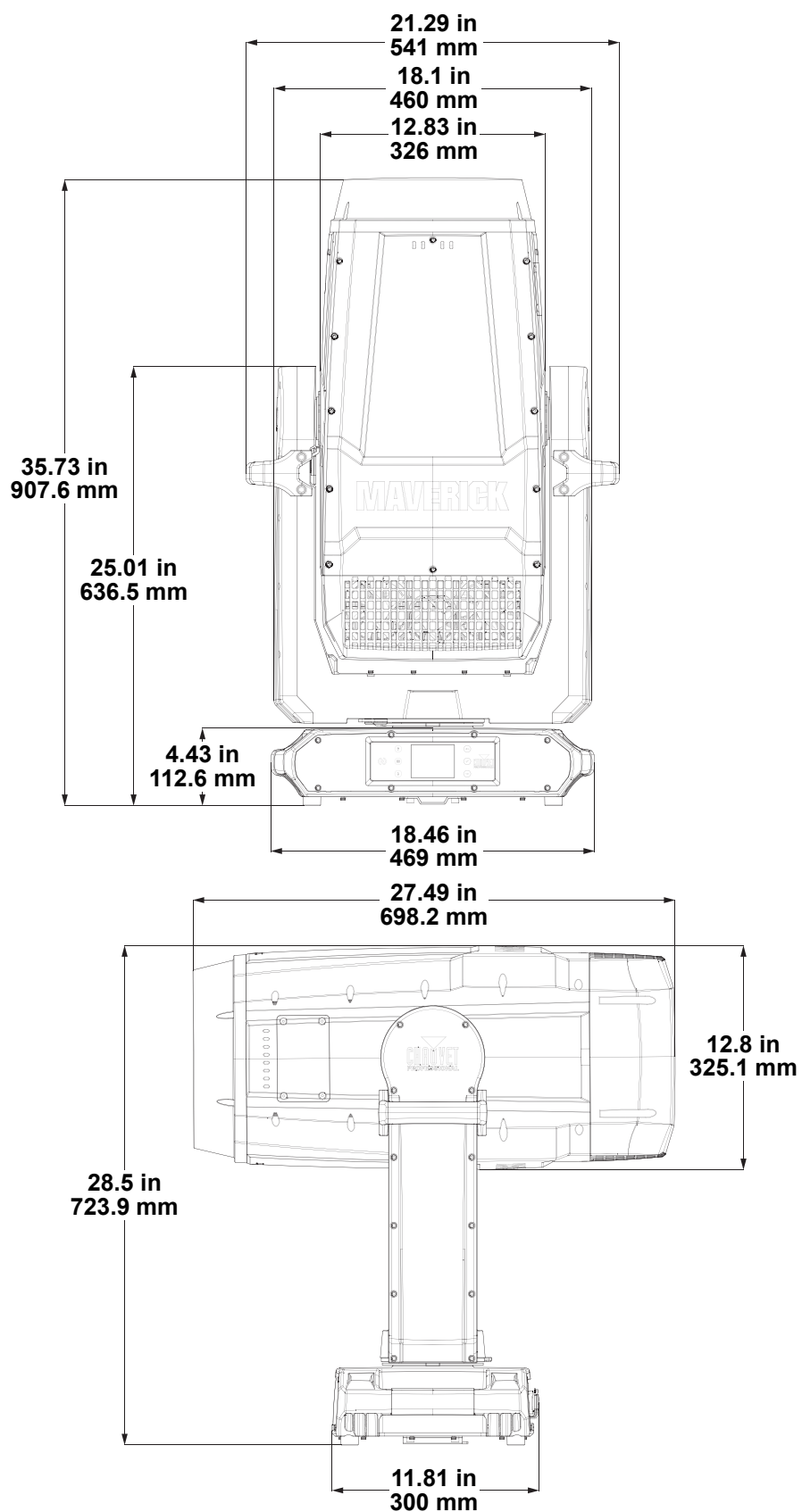


#	Name	#	Name	#	Name
1	Menu display	5	Network in/out	8	GORE™ valve
2	Menu buttons	6	DMX in/out	9	Power in
3	Carry handles	7	Antenna	10	Camera kit installation point
4	Camera in				



Camera Kit sold separately (camera not included)

Product Dimensions



3. Setup

AC Power

The Maverick Storm LT has an auto-ranging power supply and it can work with an input voltage range of 208 to 240 VAC, 50/60 Hz.

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



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



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

AC Plug

The Maverick Storm LT comes with a power input cable terminated with a Seetronic Powerkon A connector on one end and bare wire on the other end (U.S. market). Use the table below to wire a plug.

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

Power Linking

It is possible to power link Maverick Storm LT products. See the table below for the current draw at each voltage and frequency:

	208 V, 60 Hz	230 V, 50 Hz	240 V, 50 Hz
Current Draw	9.68 A	8.62 A	8.33 A
Resting	1.29 A	1.118 A	1.16 A

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

Signal Connections

The Maverick Storm LT can receive a DMX, Art-Net™, sACN, or a wireless Lumenradio CRMX™ signal. The product has 2 Seetronic Etherkon-compatible 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 LT uses a 5-pin DMX data connection, Art-Net™, sACN, or wireless CRMX™ for its 2 control personalities, **37** and **53**.

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



If the user is not familiar with or need 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 Connection

The Maverick Storm LT can link to a DMX controller using a 5-pin DMX connection or a CRMX™ connection. For more information about DMX, read the DMX primer at: https://www.chauvetprofessional.com/wp-content/uploads/2016/06/DMX_Primer.pdf.

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 LT supports RDM protocol that allows feedback to make changes to menu map options.

Art-Net™ Connection

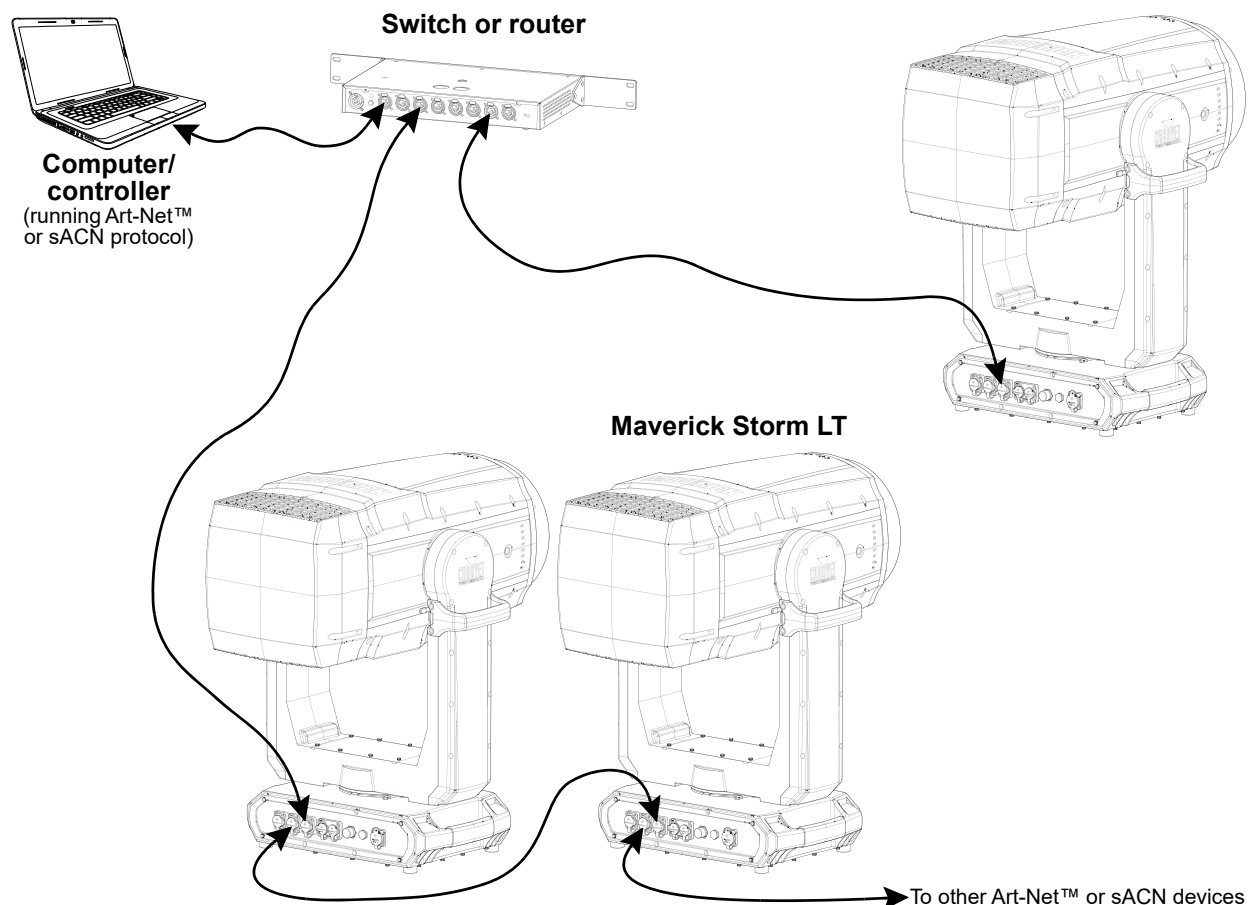
Art-Net™ is an Ethernet protocol that uses TCP/IP which transfers a large amount of DMX512 data using an ethernet connection over a large network. An Art-Net™ protocol document is available from www.chauvetprofessional.com.

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

sACN Connection

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

Ethernet Connection Diagram



The three LED indicators in between the Ethernet through ports indicate a connection to a network and activity on that network. They do not indicate whether or not the Maverick Force s Profile is receiving a signal from a controller.

Lumenradio CRMX™ Connection

In optimal conditions, the Maverick Storm LT can operate up to 300 m (900 ft) away from the CRMX™ transmitter. The CRMX™ receiver in the Maverick Storm LT must be paired with the CRMX™ transmitter for wireless operation.

Initial Setup

1. Turn the CRMX™ transmitter on.
2. Connect the CRMX™ transmitter to a DMX controller.
3. Place the Maverick Storm LT within 300 m from the CRMX™ transmitter.
4. Turn the Maverick Storm LT on.

Configuration

1. From the Maverick Storm LT's control panel, Go to **Setup** and select the **Protocol** option.
2. Select the **CRMX** option. (The Signal Strength Indicator will show a ? in front of the bars)
3. In **Setup**, select the **Address** option and select the start address, as with any other DMX compatible product.
4. Press the reset button on the CRMX™ transmitter. (The Signal Strength Indicator on the Maverick Storm LT will show a 4 in front of the bars for 3 seconds while a connection is established.)

Product Pairing

If the Maverick Storm LT has already been paired with the CRMX™ transmitter, the Signal Strength Indicator on top of the display will show the strength of the signal. In this case, the Maverick Storm LT is ready to work in Wireless mode.

Pairing the Maverick Storm LT and a New CRMX™ Transmitter

1. From the Maverick Storm LT's control panel, Go to **Setup** and select the **CRMX Reset** option.
2. Select **Yes**.
3. From the CRMX™ transmitter, press **<RESET>**. The signal indicator on the transmitter will flash.
4. Once the transmitter has found the Maverick Storm LT, the signal indicator on the CRMX™ transmitter will illuminate solid.
5. The display screen on the Maverick Storm LT will show the strength of the signal.



CRMX™ operation can be interrupted or inhibited by people or liquid masses, including water or snow, between the transmitter and receiver. For best results, keep the area between the transmitter and receiver clear of any liquid masses.

Software Update

UNRIVAL Software Update

It is possible to update the software through the UNRIVAL app from Chauvet. To enable UNRIVAL updating:

1. Go to the **Service** main level.
2. Select the **Activate Hotspot** option.
3. Select **On**.



For more information on using the UNRIVAL app, go to <https://chauvetprofessional.com/product/unrival-app>.

Update From Me

It is possible to flash the software from one Maverick Storm LT fixture onto a maximum of 14 other Maverick Storm LT fixtures at once. To flash the software from one fixture onto other Maverick Storm LT fixtures:

1. Connect the target fixtures to the main fixture in a daisy chain via 5-pin DMX with the main fixture as the first in the chain.
2. Power on all of the products.
3. On the main fixture, go to the **Service** main level in the menu map and select **Update From Me**.
4. Select **YES** to begin upload.

Mounting

Before mounting the product, read and follow the safety recommendations indicated in the [Safety Notes](#).

Orientation

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

Rigging

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

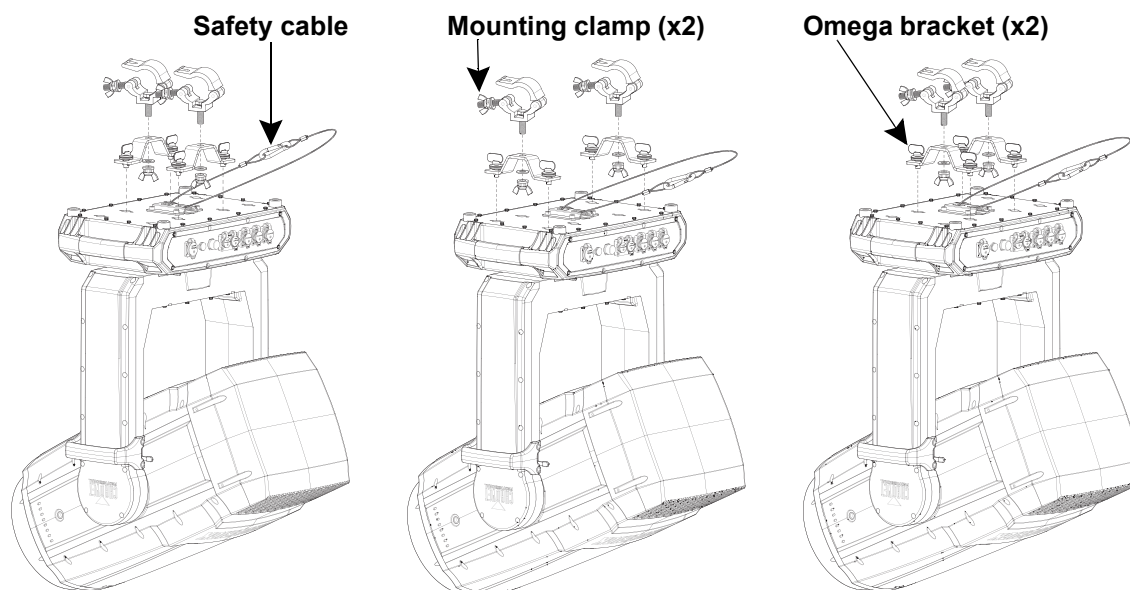
- Before deciding on a location for the product, make sure there is easy access to the product for maintenance and programming purposes.
- Make sure that the structure and attachment points can support the weight before hanging the product (see the [Technical Specifications](#) for weight information).
- When mounting the product overhead, always use a safety cable. Mount the product securely to a rigging point, whether an elevated platform or a truss.
- When rigging the product onto a truss, use a mounting clamp of appropriate weight capacity.
- When power linking multiple products, mount the products close enough for power-linking cables to reach.
- The bracket adjustment knobs allow for directional adjustment when aiming the product to the desired angle. Only loosen or tighten the bracket knobs manually. Using tools could damage the knobs.

Procedure

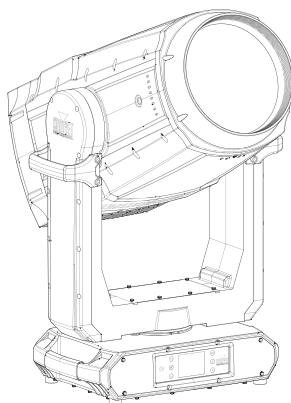
The Maverick Storm LT comes with 2 Omega brackets. The user can directly attach mounting clamps (sold separately) to these Omega brackets. Make sure the clamps are capable of supporting the weight of this product. For the Chauvet Professional line of mounting clamps, go to <http://www.trusst.com/products>.

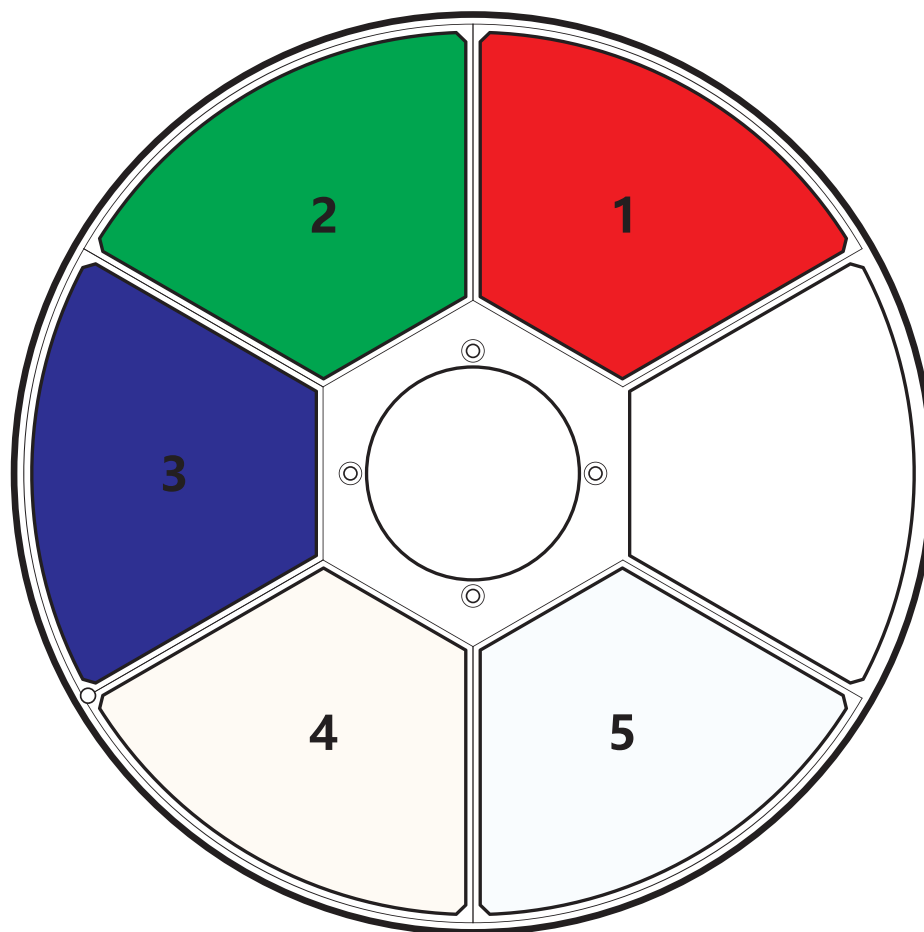
Mounting Diagram

Overhead mounting



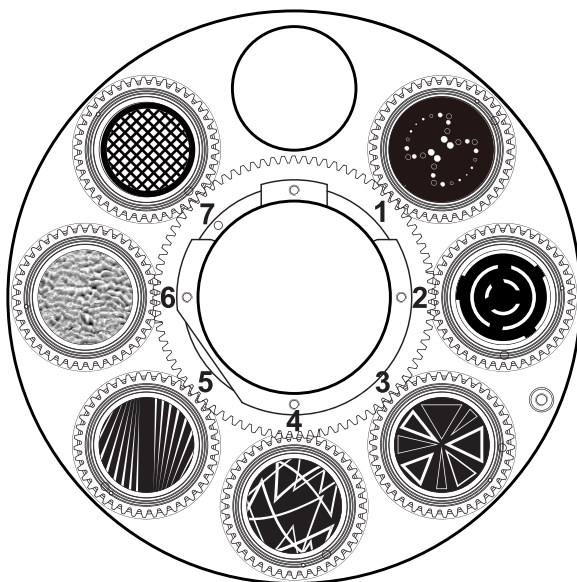
Surface mounting



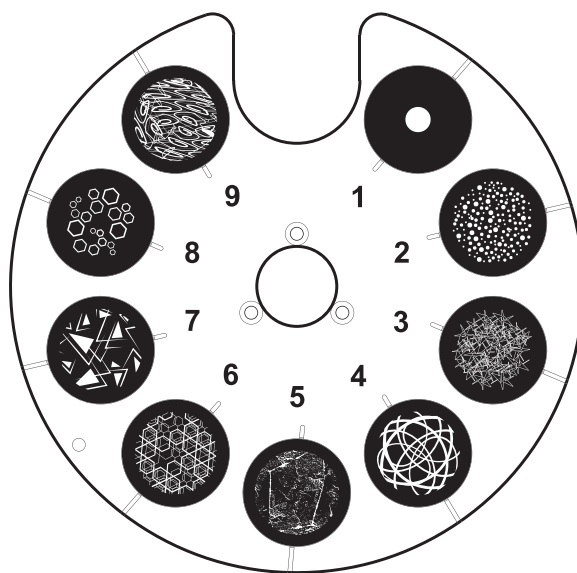
Color Wheel

#	Color
1	Red
2	Green
3	Dark blue
4	CRI
5	CTB

Gobo Designs



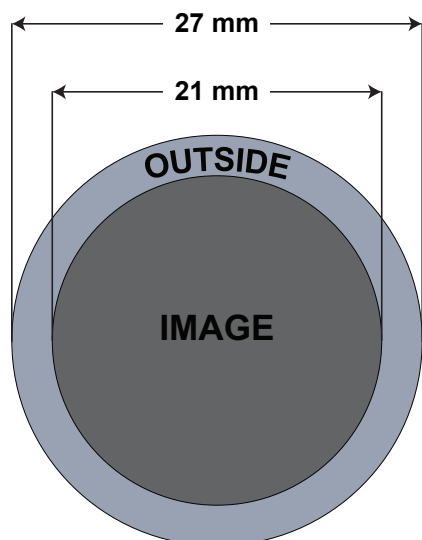
Gobo 1 (Rotating)



Gobo 2 (Static)

Gobo Wheel	Gobo #	Description	Gobo Wheel	Gobo #	Description
1	1	Pipes & Poles (metal)	2	1	Aperture
	2	Cookie Cutter (metal)		2	Dots
	3	This Way (metal)		3	Paperclip Party
	4	Fast Moves (metal)		4	Orbital
	5	Laser Rays (metal)		5	Dirty Dirt
	6	Limbo (glass)		6	Box Cutter
	7	Grate (metal)		7	Crazy Turns
				8	Hex Chem
				9	Scribble

Rotating Gobo Dimensions



Gobo Replacement

The gobos in the Maverick Storm LT are removable from their gobo holders.



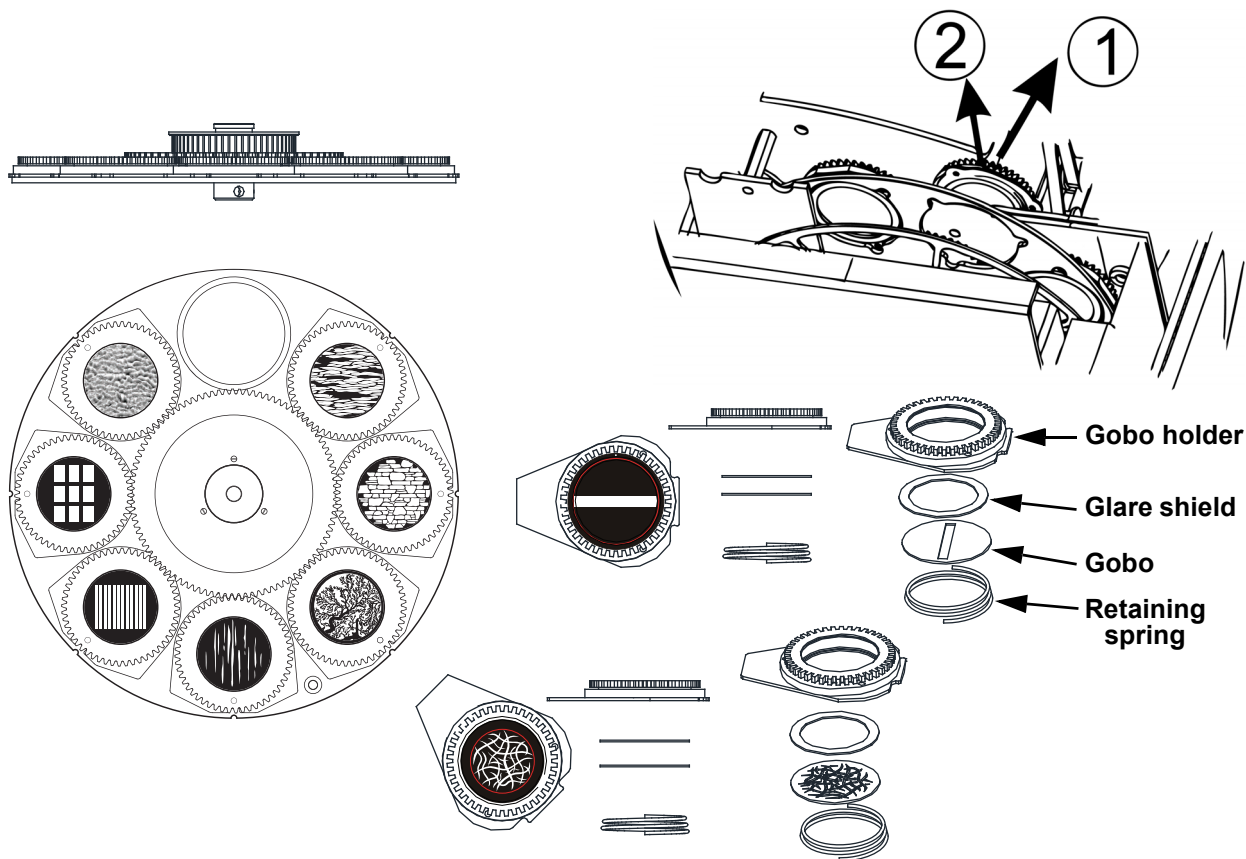
- **Make sure to disconnect the product's power cable before replacing a gobo.**
- **Always replace a gobo with a gobo of the same dimensions.**
- **When inserting a glass gobo, always make sure that the shiny side of the gobo (glass base) faces the lamp. This provides a layer of protection against the high temperature from the lamp.**
- **All custom gobos in the Maverick Storm LT gobo wheel 1 must be aluminum or glass.**

Procedure

Follow the recommended procedure below to remove or replace the gobos:

1. Turn the product off and disconnect it from the power outlet.
2. Open the head cover by loosening the screws on the sides of the top cover.
3. Separate the gobo holder away from the gobo wheel by pushing it toward the front of the moving head (see direction 1 in the diagram).
4. Extract the gobo holder by pulling it outward (see direction 2 in the diagram).
5. On a flat surface, remove the expansion ring that holds the gobo in place and remove the gobo from the gobo holder.
6. Insert a new gobo and hold it in place with the expansion ring.
7. Slide the tip of the gobo holder under the pressure plate near the center of the gobo wheel.
8. Push the gobo holder inwards. **DO NOT** force the gobo holder into the gobo wheel slot. If correctly installed, the gobo plate should easily slide itself into the gobo wheel slot.

Gobo Replacement Diagrams



- Gobo illustrations are for reference purposes only. Gobo designs may differ from those installed in the product.
- See [Gobo Designs](#) for which gobo holders can accommodate metal, glass, or either.
- See [Gobo Maintenance](#) for instructions on how to clean the gobos and gobo holder.

4. Operation

Control Panel Description

Button	Name	Function
	<Up>	Navigates upwards through the menu or increases the numeric value of a function
	<Menu>	Exits the current menu or function
	<Down>	Navigates downwards through the menu or decreases the numeric value of a function
	<Left>	Navigates leftwards through the menu
	<Enter>	Enables the currently displayed menu or sets a selected value into a function
	<Right>	Navigates rightwards through the menu

Control Options

Set the Maverick Storm LT starting address in the **001–476** DMX range. This enables control of up to 13 products in the **Mode2 (37Ch)** personality.

Programming

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

- To access the main menu, press **<Menu>**.
- To access the main menu from the home screen, press **<Menu>**.
- To navigate to the desired option in the main menu, press **<Menu>** repeatedly until the option is indicated, or use **<Up>** or **<Down>** to navigate directly.
- Press **<Enter>** to select the indicated option.
- Use **<Up>** or **<Down>** to navigate within a programming level until the desired option is indicated.
- To return to the main menu, press **<Menu>** repeatedly until it shows on the display.
- Press and hold **<Menu>** to return to the home screen.

Control options can also be accessed through the [Web Server](#).

Home Screen

The Maverick Storm LT 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, press **<Enter>** to reach the main menu.

Control Panel Lock

The setting locks or unlocks the control panel.

1. Go to the **Options** main level.
2. Select the **Display** option.
3. Select the **Screen Lock** option.
4. Select **Off** (control panel stays unlocked) or **On** (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 **1212**.

Battery Powered Display

The Maverick Storm LT 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).

Menu Map

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

Main Level	Programming Levels			Description	
Setup	Protocol	DMX512		Sets the control protocol	
		CRMX			
		ArtNet			
		sACN			
		Sky Tracker2		Sets the product to follow a Sky Tracker Master signal	
		Sky Tracker3			
		Sky Tracker4			
	Mode	Mode1 (53Ch)		Selects the 53-channel mode	
		Mode2 (37Ch)		Selects the 37-channel mode	
	Address	001–476		Sets the starting address	
	Universe	00000–32767 (Art-Net™) 00001–63999 (sACN)		Sets the universe	
	Network	IP Mode	Static		Sets IP address manually
			DHCP		Network sets IP address
		IP Address	000–255.____.____.____		Sets the IP address in Manual mode
		Subnet	000–255.____.____.____		Sets the Subnet Mask in Manual mode
		Network Reset		No	Resets the network settings
				Yes	
	CRMX Reset	No		Do not reset CRMX™	
Yes		Reset CRMX™			
Fixture ID	0–4294967295		Sets the fixture ID		
Reset Defaults	No		Resets the product to factory default settings		
	Yes				
Options	Dimmer Curve	Linear		Set the dimmer curve	
		Square			
		I Squa			
		SCurve			
	PWM	600 Hz		Sets the Pulse Width Modulation frequency	
		2000 Hz			
		15000 Hz			
		25000 Hz			
	Fans	Auto		Fan speed according to product temperature	
		Full		Fan speed set on high	
		ECO		Quiet mode	
		TV Steady		Maintains LED output up to a set ambient temperature. When using this fan mode, please set the PWM to 15000 Hz to prevent any possible harmonization noise.	
	Pan / Tilt	Pan Reverse	Off	Normal pan	
			On	Reversed pan	
		Tilt Reverse	Off	Normal tilt	
			On	Reversed tilt	
		P/T Swap	Off	Do not swap pan and tilt	
			On	Pan controls tilt, tilt controls pan	

Main Level	Programming Levels			Description
Options (cont.)	Pan / Tilt (cont.)	Pan Range	540	540° pan range
			360	360° pan range
			180	180° pan range
		Tilt Range	270	270° tilt range
			180	180° tilt range
			90	90° tilt range
		P/T Blackout	Off	Disables/enables blackout while panning/tilting
			On	
		P/T Reset Mode	Normal	Pan and tilt move during reset
			Absolute	Pan and tilt hold positions
		P/T Disable	Off	Motorized pan/tilt
			On	Pan/tilt by hand
	Blackout	P/T Blackout	Off	Disables/enables blackout while panning/tilting
			On	
		Gobo Blackout	Off	Disables/enables blackout while gobo wheels move
			On	
		Color Blackout	Off	Disables/enables blackout while color wheel moves
			On	
	Display	Display Invert	None	Normal display
			Invert	Inverted display
			Auto	Automatic display orientation
		Display Sleep	Always On	Display stays on
			30 s	Display turns off after 30 seconds
			60 s	Display turns off after 60 seconds
			300 s	Display turns off after 300 seconds
		Screen Lock	Off	Locks the display. Passcode: 1212
			On	
	CTB Auto	Off		Enables/disables automatic CTB while gobos active
		On		
	Data Loss Blackout	Hold		Holds last signal received
		Blackout		Blacks out fixture
	Ethernet 2DMX	Off		Enables/disables Ethernet to DMX
		On		
	Min Zoom Focus	Off		Enables/disables minimum zoom focus
		On		
	Resets	Reset Defaults	No	Reset to factory default settings
			Yes	
		All Motors Reset	No	Reset individual functions or all functions from start-up
			Yes	
		P/T Reset	No	
			Yes	
		Iris/Prism Reset	No	
			Yes	
		Color/CMY/Blade Reset	No	
			Yes	

Main Level	Programming Levels			Description
Options (cont.)	Resets (cont.)	Gobo Reset	No	Reset individual functions or all functions from start-up
			Yes	
		Frost/Anime	No	
			Yes	
		Zoom Reset	No	
			Yes	
Stand-Alone	Stop Stand-Alone	No		Continues sky tracker mode
		Yes		Stops sky tracker mode
	Sky Tracker	DIMMER	000–255	Sets the output intensity
		STROBE		Sets the strobe (default 255)
		CYAN		Sets the cyan level
		MAGENTA		Sets the magenta level
		YELLOW		Sets the yellow level
		COLOR WHEEL		Sets the color wheel
		GOBO1		Sets gobo wheel 1
		GOBO2		Sets gobo wheel 2
		PRISM1		Sets prism 1
		PRISM2		Sets prism 2
		FOCUS		Sets the focus level
		ZOOM		Sets the zoom level
		SHAPE	FIG 8	Sets the fixture movement shape
			CIRCLE	
			SQUARE	
			TRI	
			PAN	
			TILT	
		PAN OFFSET	000–255	Sets the pan offset (default 128)
		TILT OFFSET		Sets the tilt offset (default 128)
		SIZE		Sets the fixture movement size
		SPEED		Sets the movement speed
		FIXTURE OFFSET		Sets the movement delay from fixture to fixture
Info	Fixture Info	Model	Maverick Storm LT	Shows product model name
		Version	V1. 00. 002	Shows firmware version
		Serial Number	-----	Shows fixture serial name
		MAC	..:..:..:..:..:..	Shows MAC address
		RDM UID	-----	Shows RDM UID
		Fixture Hours	-----	Shows number of hours product has been powered on
		Light Hours	-----	Shows number of hours the LED has been powered on
	Network Info	Protocol	-----	Shows current running mode
		Address	----	Shows current starting address
		Universe	-----	Shows current universe
		IP Mode	-----	Shows current IP mode
		IP Address	---.---.---.---	Shows current IP address
		Subnet	---.---.---.---	Shows current Subnet Mask

Main Level	Programming Levels		Description
Info (cont.)	Thermal Info	Temp. LED _ _ _ °C	Shows current LED temperature
		MH457 DFAN1-4	Shows speed of fans in rpm
		MH455 MFAN1-4	
		MH474 ZFAN1-6	
		MH366 F-SPA	
		MH466 JFAN1-2	
		MH476 FAN1-8	
	Channel Info	Frequency	Shows all current values from input signals, 000-255
		Pan	
		Pan Fine	
		Tilt	
		Tilt Fine	
		P/T Speed	
		Dimmer	
		Dimmer Fine	
		Strobe	
		Virtual Shaking	
		Cyan	
		Magenta	
		Yellow	
		CTO	
		Color	
		Gobo	
		Gobo Rotate	
		Gobo Index	
		Gobo2	
		Animation	
		Animation rotate	
		Blade 1-1	
		Blade 1-1 Fine	
		Blade 1-2	
		Blade 1-2 Fine	
		Blade 2-1	
		Blade 2-1 Fine	
		Blade 2-2	
		Blade 2-2 Fine	
		Blade 3-1	
		Blade 3-1 Fine	
		Blade 3-2	
		Blade 3-2 Fine	
		Blade 4-1	
		Blade 4-1 Fine	
		Blade 4-2	
		Blade 4-2 Fine	
		Blade Rotate	
		Blade Rotate Fine	
		Focus	

Main Level	Programming Levels			Description
Info (cont.)	Channel Info (cont.)	Focus fine	---	Shows all current values from input signals, 000–255
		Focus Auto		
		Zoom		
		Zoom fine		
		Prism		
		Prism Rotate		
		Prism2		
		Prism2 Rotate		
		Iris		
		Frost		
		Frost2		
		CMY Macro		
		CMY Macro Speed		
		Control		
Service	Auto Test			Auto test all functions
	Manual Test	Pan	000–255	Manually control and test all settings through the control panel
		Pan Fine		
		Tilt		
		Tilt Fine		
		P/T Speed		
		Dimmer		
		Dimmer Fine		
		Strobe		
		Virtual Shaking		
		Cyan		
		Magenta		
		Yellow		
		CTO		
		Color		
		Gobo		
		Gobo Rotate		
		Gobo Index		
		Gobo2		
		Animation		
		Animation Rotate		
		Blade 1-1		
		Blade 1-1 Fine		
		Blade 1-2		
		Blade 1-2 Fine		
		Blade 2-1		
		Blade 2-1 Fine		
		Blade 2-2		
		Blade 2-2 Fine		
		Blade 3-1		
		Blade 3-1 Fine		
		Blade 3-2		
		Blade 3-2 Fine		

Main Level	Programming Levels			Description	
Service (cont.)	Manual Test (cont.)	Blade 4-1		000–255 Manually control and test all settings through the control panel	
		Blade 4-1 Fine			
		Blade 4-2			
		Blade 4-2 Fine			
		Blade Rotate			
		Blade Rotate Fine			
		Focus			
		Focus Fine			
		Focus Auto			
		Zoom			
		Zoom Fine			
		Prism			
		Prism Rotate			
		Prism2			
		Prism2 Rotate			
		Iris			
		Frost			
		Frost2			
		CMY Macro			
		CMY Macro Speed			
		Control			
	Time	View Time		____	Shows the current time
		Set UTC Offset	-14:00–+14:00		Sets the time zone
	Errors	_____			Shows any errors or “No Error!”
	Update From Me	ENTER TO START.			Updates connected fixtures to this fixture’s firmware
	Activate Hotspot	Off			Enables/disable Wi-Fi hotspot for firmware updates
		On			

Control Configuration

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

Control Protocol

To set the control protocol:

1. Go to the **Setup** main level.
2. Select the **Protocol** option
3. Select the desired protocol, from **DMX512**, **CRMX**, **ArtNet**, **sACN**, or **Sky Tracker2–4**.



- See the [Lumenradio CRMX™ Connection](#) section for further setup of Lumenradio CRMX™.
- See the [Network Settings](#) section for further setup of ethernet protocols (Art-Net™ or sACN).
- The Sky Tracker options set the product to receive a control signal from a Maverick Storm LT in Stand-Alone mode. See [Sky Tracker Mode](#) for more information.

Control Personalities

To set the control personality:

1. Go to the **Setup** main level.
2. Select the **Mode** option.
3. Select the desired personality from **Mode1 (53Ch)** or **Mode2 (37Ch)**.



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

Operation

Starting Address

Each product and control mode 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 **Setup** main level.
2. Select the **Address** option.
3. Select the starting address (**1–476**).

Personality	Highest Address	Products per Universe
Mode1 (53Ch)	460	9
Mode2 (37Ch)	476	13

Universe

The Art-Net™ and sACN control protocols require a universe address in addition to the starting address. To assign a universe to the control mode when using Art-Net™ or sACN:

1. Go to the **Setup** main level.
2. Select the **Universe** option.
3. Select the universe (**00000–32767** for **ArtNet**, or **00001–63999** for **sACN**).

Network Settings

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

IP Mode

To choose how the IP address is set:

1. Go to the **Setup** main level.
2. Select the **Network** option.
3. Select the **IP Mode** option.
4. Select the desired IP mode from **Static** (to use a default or custom IP address) or **DHCP** (the IP address is assigned by the connected network).

Manual IP Address

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

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

Subnet Mask

To set the subnet mask:

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

Network Reset

To reset the network settings:

1. Go to the **Setup** main level.
2. Select the **Network** option.
3. Select the **Network Reset** option.
4. Select from **No** (to cancel) or **Yes** (to reset the network settings).

Fixture ID

To set the **Fixture ID**:

1. Go to the **Setup** main level.
2. Select the **Fixture ID** option.
3. Set the ID (**0–4294967295**).

Factory Reset

To reset the product to factory default settings:

1. Go to the **Setup** main level.
2. Select the **Reset Defaults** option.
3. Select from **No** (to cancel) or **Yes** (to reset the product).

DMX Channel Assignments and Values

Control Chart

Value	Percent/Setting	Value	Percent/Setting	Value	Percent/Setting
000 ⇔ 005	No function	61	Pan reverse on	152	Blackout on color off
006 ⇔ 010	Reset all	62	Tilt reverse off	153	Blackout on color on
11	Reset color	63	Tilt reverse on	154	Blackout on gobo off
12	Reset beam	064 ⇔ 067	Reserved	155	Blackout on gobo on
13	Reset pan/tilt	68	P/T swap off	156 ⇔ 159	Reserved
14	Reset blades	69	P/T swap on	160	Hold on data loss
015 ⇔ 019	Reserved	70	P/T reset normal	161	Blackout on data loss
20	Linear dimmer curve	71	P/T reset absolute	162 ⇔ 164	Reserved
21	Square dimmer curve	072 ⇔ 079	Reserved	165	Min Zoom Focus off
22	I Square dimmer curve	80	PWM 600 Hz	166	Min Zoom Focus on
23	S-curve dimmer curve	081 ⇔ 082	Reserved	167 ⇔ 200	Reserved
024 ⇔ 039	Reserved	83	PWM 2000 Hz	201	Screen lock off
40	Fan mode Auto	084 ⇔ 086	Reserved	202	Screen lock on
41	Fan mode Full	87	PWM 15 kHz	203 ⇔ 223	Reserved
42	Fan mode ECO	88	PWM 25 kHz	224	Sunshield on
043 ⇔ 044	Reserved	089 ⇔ 149	Reserved	225	Gobo auto CTB off
45	Fan mode TV Steady	150	Blackout on P/T off	226	Gobo auto CTB on
046 ⇔ 059	Reserved	151	Blackout on P/T on	227 ⇔ 255	Reserved/no function
60	Pan reverse off				

DMX Chart

37Ch	53Ch	Function	Value	Percent/Setting
1	1	Pan	000 ⇔ 255	0–100%
2	2	Fine pan	000 ⇔ 255	16-bit, 0–100%
3	3	Tilt	000 ⇔ 255	0–100%
4	4	Fine tilt	000 ⇔ 255	16-bit, 0–100%
5	5	Pan/tilt speed	000 ⇔ 255	Fast to slow
6	6	Dimmer	000 ⇔ 255	0–100%
–	7	Fine dimmer	000 ⇔ 255	16-bit, 0–100%
7	8	Strobe	000 ⇔ 003 004 ⇔ 007 008 ⇔ 076 077 ⇔ 145 146 ⇔ 215 216 ⇔ 255	Off On Strobe, slow to fast Pulse strobe, slow to fast Random strobe, slow to fast On
8	9	Virtual strobe	000 ⇔ 001 002 ⇔ 128 129 ⇔ 255	No function Shake, slow to fast Fade, slow to fast
9	10	Cyan	000 ⇔ 255	0–100%
10	11	Magenta	000 ⇔ 255	0–100%
11	12	Yellow	000 ⇔ 255	0–100%
12	13	CTO	000 ⇔ 255	0–100%

37Ch	53Ch	Function	Value	Percent/Setting
13	14	Color wheel	000 ⇄ 009	Open
			010 ⇄ 019	Red
			020 ⇄ 029	Green
			030 ⇄ 039	Dark blue
			040 ⇄ 049	CRI
			050 ⇄ 059	CTB
			060 ⇄ 187	Color wheel indexing
			188 ⇄ 219	Reverse color scroll, fast to slow
			220 ⇄ 223	Stop
			224 ⇄ 255	Color scroll, slow to fast
14	15	Rotating gobo wheel	000 ⇄ 007	Open
			008 ⇄ 015	Gobo 1
			016 ⇄ 023	Gobo 2
			024 ⇄ 031	Gobo 3
			032 ⇄ 039	Gobo 4
			040 ⇄ 047	Gobo 5
			048 ⇄ 055	Gobo 6
			056 ⇄ 063	Gobo 7
			064 ⇄ 071	Gobo 7 shaking
			072 ⇄ 079	Gobo 6 shaking
			080 ⇄ 087	Gobo 5 shaking
			088 ⇄ 095	Gobo 4 shaking
			096 ⇄ 103	Gobo 3 shaking
			104 ⇄ 111	Gobo 2 shaking
			112 ⇄ 119	Gobo 1 shaking
			120 ⇄ 127	Open
			128 ⇄ 191	Gobo scroll, slow to fast
			192 ⇄ 255	Reverse gobo scroll, slow to fast
15	16	Gobo rotate	000 ⇄ 063	Gobo indexing
			064 ⇄ 145	Gobo rotate, fast to slow
			146 ⇄ 149	Stop
			150 ⇄ 231	Reverse gobo rotate, slow to fast
			232 ⇄ 255	Gobo bounce, long to short
–	17	Fine gobo rotate	000 ⇄ 255	16-bit gobo indexing

37Ch	53Ch	Function	Value	Percent/Setting
16	18	Static gobo wheel	000 ⇔ 005	Open
			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 ⇔ 053	Gobo 8
			054 ⇔ 063	Gobo 9
			064 ⇔ 069	Gobo 9 shaking
			070 ⇔ 075	Gobo 8 shaking
			076 ⇔ 081	Gobo 7 shaking
			082 ⇔ 087	Gobo 6 shaking
			088 ⇔ 093	Gobo 5 shaking
			094 ⇔ 099	Gobo 4 shaking
			100 ⇔ 105	Gobo 3 shaking
			106 ⇔ 111	Gobo 2 shaking
			112 ⇔ 117	Gobo 1 shaking
			118 ⇔ 127	Open
			128 ⇔ 191	Gobo scroll, slow to fast
			192 ⇔ 255	Reverse gobo scroll, slow to fast
17	19	Animation	000 ⇔ 255	Animation effect
18	20	Animation rotate	000 ⇔ 124	Animation rotate, fast to slow
			125 ⇔ 130	Stop
			131 ⇔ 255	Reverse animation rotate, slow to fast
19	21	Blade 1-1	000 ⇔ 255	0–100%
–	22	Fine blade 1-1	000 ⇔ 255	16-bit, 0–100%
20	23	Blade 1-2	000 ⇔ 255	0–100%
–	24	Fine blade 1-2	000 ⇔ 255	16-bit, 0–100%
21	25	Blade 2-1	000 ⇔ 255	0–100%
–	26	Fine blade 2-1	000 ⇔ 255	16-bit, 0–100%
22	27	Blade 2-2	000 ⇔ 255	0–100%
–	28	Fine blade 2-2	000 ⇔ 255	16-bit, 0–100%
23	29	Blade 3-1	000 ⇔ 255	0–100%
–	30	Fine blade 3-1	000 ⇔ 255	16-bit, 0–100%
24	31	Blade 3-2	000 ⇔ 255	0–100%
–	32	Fine blade 3-2	000 ⇔ 255	16-bit, 0–100%
25	33	Blade 4-1	000 ⇔ 255	0–100%
–	34	Fine blade 4-1	000 ⇔ 255	16-bit, 0–100%
26	35	Blade 4-2	000 ⇔ 255	0–100%
–	36	Fine blade 4-2	000 ⇔ 255	16-bit, 0–100%
27	37	Blade rotate	000 ⇔ 255	0–100%
–	38	Fine blade rotate	000 ⇔ 255	16-bit, 0–100%
28	39	Focus	000 ⇔ 255	0–100%
–	40	Fine focus	000 ⇔ 255	16-bit, 0–100%

37Ch	53Ch	Function	Value	Percent/Setting
–	41	Auto focus	000 ⇔ 010	No function
			011 ⇔ 030	0–5 meters, gobo 1
			031	6 meters, gobo 1
			032	7 meters, gobo 1
			033	8 meters, gobo 1
			034	9 meters, gobo 1
			035	10 meters, gobo 1
			036	12.5 meters, gobo 1
			037	15 meters, gobo 1
			038	17.5 meters, gobo 1
			039	20–60 meters, gobo 1
			040	Auto detect distance
			041 ⇔ 255	No function
29	42	Zoom	000 ⇔ 255	Wide to narrow
–	43	Fine zoom	000 ⇔ 255	16-bit, wide to narrow
30	44	Prism 1	000 ⇔ 004	No function
31	45	Prism 1 rotate	005 ⇔ 255	Prism effect
			000 ⇔ 127	Prism indexing
			128 ⇔ 189	Prism rotate, fast to slow
			190 ⇔ 193	Stop
32	46	Prism 2	194 ⇔ 255	Prism rotate, slow to fast
			000 ⇔ 004	No function
33	47	Prism 2 rotate	005 ⇔ 255	Prism effect
			000 ⇔ 127	Prism indexing
			128 ⇔ 189	Prism rotate, fast to slow
			190 ⇔ 193	Stop
34	48	Iris	194 ⇔ 255	Prism rotate, slow to fast
			000 ⇔ 063	Open to close
			064 ⇔ 127	Auto open–close–open, slow to fast
			128 ⇔ 191	Auto close–open, slow to fast
35	49	Frost 1	192 ⇔ 255	Auto open–close, slow to fast
36	50	Frost 2	000 ⇔ 255	0–100%
–	51	CMY macro	000 ⇔ 255	0–100%
–	52	CMY macro speed	000 ⇔ 009	No function
			010 ⇔ 255	CMY macro
37	53	Control	000 ⇔ 255	Fast to slow
				See the Control Chart

Stand-Alone Configuration

Sky Tracker Mode

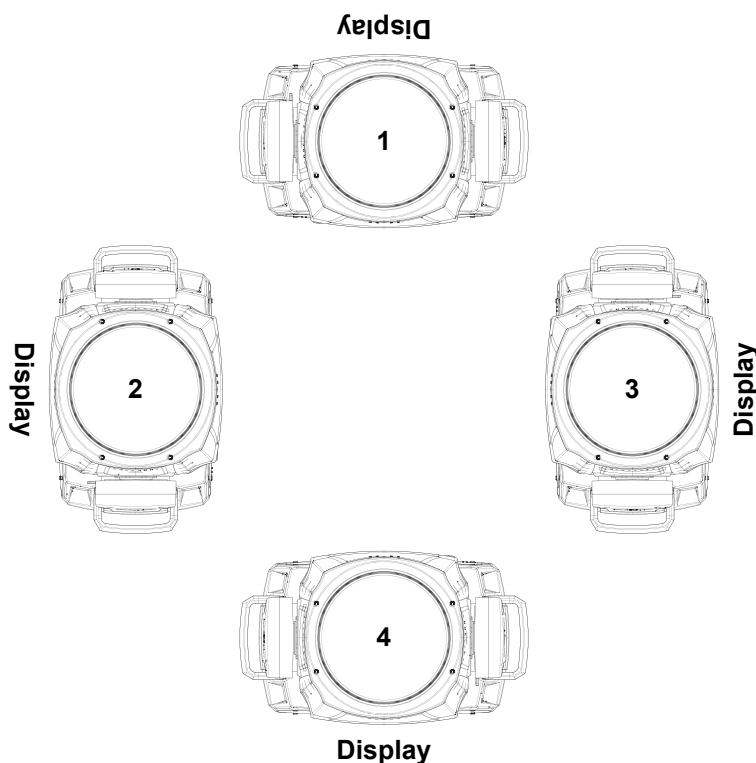
The Maverick Storm LT is equipped with a Sky Tracker Mode that is designed to allow up to four Maverick Storm LT fixtures to work together to create standalone air effects.

Sky Tracker Programming

To program the Sky Tracker Mode:

1. Go to the **Stand-Alone** main level.
2. Select the **Sky Tracker** option.
3. Select the parameter to configure, from **DIMMER, STROBE, CYAN, MAGENTA, YELLOW, COLOR WHEEL, GOBO1, GOBO2, PRISM1, PRISM2, FOCUS, ZOOM, SHAPE, PAN OFFSET, TILT OFFSET, SIZE, SPEED, or FIXTURE OFFSET**.
4. Set the value (**000–255**) or select the shape from **FIG 8, CIRCLE, SQUARE, TRI, PAN, or TILT**.

Sky Tracker Setup



Display always faces out

To configure each fixture:

1. Arrange the fixtures as shown in the above diagram.
2. Program fixture 1 as shown in [Sky Tracker Programming](#).
3. On the other 3 fixtures, go to the **Setup** main level.
4. Select the **Protocol** option
5. Set the fixture to **Sky Tracker2–4.**, according to the position of each fixture.
6. Connect fixtures 2–4 to fixture 1 with a DMX daisy chain.



DO NOT connect a DMX controller to products operating in Sky Tracker Mode. The DMX controller signals may interfere with the signals from fixture 1.

Stop Stand-Alone

To stop the Sky Tracker Mode:

1. Go to the **Stand-Alone** main level.
2. Select the **Stop Stand-Alone** option.
3. Select from **No** (to cancel) or **Yes** (to stop the Sky Tracker Mode).

Operation

Settings Configuration

Dimmer Curve

To set the dimmer curve:

1. Go to the **Options** main level.
2. Select the **Dimmer Curve** option.
3. Select from **Linear**, **Square**, **Inverse Square**, or **S Curve**.

Pulse Width Modulation

To set the frequency of the pulse width modulation:

1. Go to the **Options** main level.
2. Select the **LED Frequency** option.
3. Select the PWM frequency, from **600 Hz**, **2000 Hz**, **15000 Hz**, or **25000 Hz**.

Fan Mode

To set the fan speed mode:

1. Go to the **Options** main level.
2. Select the **Fans** option.
3. Select the fan mode, from **Auto** (fan speed adjusts to product temperature), **Full** (fan speed at maximum), **ECO** (quiet mode), or **TV Steady** (maintains a consistent LED output).



When using the TV Steady mode, please set the PWM to 15000Hz to prevent any possible harmonization noise.

Pan/Tilt Options

To access the pan/tilt options:

1. Go to the **Options** main level.
2. Select the **Pan / Tilt** option.

Pan Reverse

To set the orientation of the pan:

1. Access the [Pan/Tilt Options](#).
2. Select the **Pan Reverse** option.
3. Select from **Off** (normal pan motion), or **On** (reversed pan motion).

Tilt Reverse

To set the orientation of the tilt:

1. Access the [Pan/Tilt Options](#).
2. Select the **Tilt Reverse** option.
3. Select from **Off** (normal tilt motion), or **On** (reversed tilt motion).

Swap Pan and Tilt

To swap the pan and tilt controls for each other:

1. Access the [Pan/Tilt Options](#).
2. Select the **P/T Swap** option.
3. Select from **Off** (do not swap), or **On** (swap so pan controls tilt and tilt controls pan).

Pan Range

To set the maximum angle of the pan:

1. Access the [Pan/Tilt Options](#).
2. Select the **Pan Range** option.
3. Select from **540** (540°), **360** (360°), or **180** (180°).

Tilt Range

To set the maximum angle of the tilt:

1. Access the [Pan/Tilt Options](#).
2. Select the **Tilt Range** option.
3. Select from **270** (270°), **180** (180°), or **90** (90°).

Blackout on Pan/Tilt

To set the Maverick Storm LT to blackout on pan or tilt movement, see [Blackout on Movement](#) or:

1. Access the [Pan/Tilt Options](#).
2. Select the **P/T Blackout** option.
3. Select from **Off** (do not blackout), or **On** (blackout on pan or tilt movement).

Pan/Tilt Reset Mode

To set whether the pan and tilt will move during reset or startup:

1. Access the [Pan/Tilt Options](#).
2. Select the **P/T Reset Mode** option.
3. Select from **Normal** (pan and tilt will move), or **Absolute** (pan and tilt will hold positions).

Technician Mode

The technician mode disables the pan and tilt motors, allowing the output of the product to be aimed by hand. To enable the technician mode of the Maverick Storm LT:

1. Access the [Pan/Tilt Options](#).
2. Select the **P/T Disable** option.
3. Select from **Off** (motorized pan/tilt), or **On** (aim pan/tilt by hand).

Blackout on Movement

To set the Maverick Storm LT to black out on pan or tilt movement, color wheel movement, or gobo wheel movement:

1. Go to the **Options** main level.
2. Select the **Blackout** option.
3. Select the movement, from **P/T Blackout**, **Gobo Blackout**, or **Color Blackout**.

Display Options

To access the display options:

1. Go to the **Options** main level.
2. Select the **Display** option.

Invert Display

To set the orientation of the display:

1. Access the [Display Options](#).
2. Select the **Display Invert** option.
3. Select from **None** (normal display), **Invert** (inverted display), or **Auto** (automatic orientation).

Backlight Timer

To set the length of time before an inactive display will turn off:

1. Access the [Display Options](#).
2. Select the **Display Sleep** option.
3. Select from **Always On** (stays on), **30 s** (30 seconds), **60 s** (1 minute), or **300 s** (5 minutes).

Auto CTB

To set whether the Color Temperature Blue filter will activate automatically when gobos are active:

1. Go to the **Options** main level.
2. Select the **CTB Auto** option.
3. Select from **Off** (does not activate) or **On** (activates).

Data Loss Options

To set how the product reacts to a loss in control signal data:

1. Go to the **Options** main level.
2. Select the **Data Loss Blackout** option.
3. Select from **Hold** (holds the last values received before signal loss) or **Blackout** (blacks out).

Ethernet To DMX

To enable or disable converting ethernet input to DMX output:

1. Go to the **Options** main level.
2. Select the **Ethernet2DMX** option.
3. Select from **Hold** (holds the last values received before signal loss) or **Blackout** (blacks out).

Operation

Minimum Zoom Focus

To turn the minimum zoom focus function on or off:

1. Go to the **Options** main level.
2. Select the **Min Zoom Focus** option.
3. Select from **Off** or **On**.

Resets

To reset specific functions or the entire product:

1. Go to the **Options** main level.
2. Select the **Resets** option.
3. Select which functions to reset, from:
 - **Reset Defaults** (restores the product to factory default settings)
 - **All Motors Reset** (resets every effect)
 - **P/T Reset** (resets pan and tilt)
 - **Iris/Prism Reset** (resets the iris and both prisms)
 - **Color/CMY/Blade Reset** (resets the color wheel, CMY flags, and blade assembly)
 - **Gobo Reset** (resets the gobo wheels)
 - **Frost/Anime** (resets the frost filter and animation wheel)
 - or
 - **Zoom Reset** (resets the zoom)
4. Select **No** (to cancel) or **Yes** (to reset the selected functions).

Information

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

1. Go to the **Info** main level.
2. Select which information to view, from **Fixture Info** (shows the firmware version, serial number, MAC address and RDM UID, and running time), **Network Information** (shows the protocol, address, universe, and IP information), **Thermal Information** (shows temperature and the speed of the fans in rotations per minute (rpm)), or **Channel Information** (shows the current values of all signal input channels).
3. If necessary, scroll up and down to view all information available in the selected option.

Service Options

The service options include test functions, an internal clock, error display, fixture to fixture firmware updates, and the Wi-Fi hotspot function.

Automatic Test

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

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

Manual Test

To manually test an individual function of the Maverick Storm LT:

1. Go to the **Service** 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**, **Strobe**, **Virtual Shaking**, **Cyan**, **Magenta**, **Yellow**, **CTO**, **Color**, **Gobo**, **Gobo Rotate**, **Gobo Index**, **Gobo2**, **Animation**, **Animation Rotate**, **Blade 1-1**, **Blade 1-1 Fine**, **Blade 1-2**, **Blade 1-2 Fine**, **Blade 2-1**, **Blade 2-1 Fine**, **Blade 2-2**, **Blade 2-2 Fine**, **Blade 3-1**, **Blade 3-1 Fine**, **Blade 3-2**, **Blade 3-2 Fine**, **Blade 4-1**, **Blade 4-1 Fine**, **Blade 4-2**, **Blade 4-2 Fine**, **Blade Rotate**, **Blade Rotate Fine**, **Focus**, **Focus Fine**, **Focus Auto**, **Zoom**, **Zoom Fine**, **Prism**, **Prism Rotate**, **Prism2**, **Prism2 Rotate**, **Iris**, **Frost**, **Frost2**, **CMY Macro**, **CMY Macro Speed**, or **Control**.
4. Increase or decrease the value of the selected function from **000–255** to test it.

Time

To view the time:

1. Go to the **Service** main level.
2. Select the **Time** option.
3. Select the **View Time** option.

To set the time zone:

1. Go to the **Service** main level.
2. Select the **Time** option.
3. Select the **Set UTC Offset** option.
4. Set the offset (**-14:00**–**+14:00**).

Error Display

To view any active error codes:

1. Go to the **Service** main level.
2. Select the **Errors** option.



For the list of error codes, their meanings, and suggested solutions, see [Error Codes](#).

Web Server

The Maverick Storm LT 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 protocol and starting address, color output testing, and the ability to change the Web Server password.

1. Connect the product to a Windows computer with a network cable.
2. On the computer, set the IP address of the new network to have the same first 3 digits as the IP address of the product (See **Network Information** under [Information](#)).
3. Enter the IP address of the product into the URL bar of a web browser on the computer.
4. Enter both the User Name and Password as **admin** to log in.

Home

The Web Server Home page displays the details of all available control personalities and the technical specifications for the Maverick Storm LT.

Settings

The Web Server Settings page provides options for control. From the drop-down menus, the Protocol, Universe, Start Address, IP Address, Ethernet to DMX, Personality, Dimmer Curve, Dimmer Mode, and PWM Frequency can all be edited. Click **Save Settings** to send the new configuration to the product.

Output

On the Web Server Output page, an output test of the product's LEDs can be performed, by either editing the values of each LED manually (by typing the number or moving the fader), or by selecting a sample color. The page will show the current output color on the bottom left.

Security

The Web Server Security page 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
BladeR	Framing shutter error ⁴	Check module connection
		Make sure nothing is blocking the movement of the shutters/blade
		Check sensors for +/- 5v when open and closed
		Do a factory reset
		Update software
Color	Color error	Check module connection
		Make sure nothing is blocking the movement
		Check sensors for +/- 5v when open and closed
		Do a factory reset
		Update software
CPU-A	Display CPU	Do a factory reset Update software
CPU-B	Pan/tilt CPU	Do a factory reset Update software
CPU-C	Gobo/Color CPU error	Do a factory reset Update software
CPU-D	Zoom/Focus CPU error	Do a factory reset Update software
CPU-E	CMY CPU error	Do a factory reset Update software
CPU-F	Framing shutter CPU error	Do a factory reset Update software
CPU-G	Framing shutter CPU error	Do a factory reset Update software
CPU-H	Fan CPU error	Do a factory reset Update software
CTO	CTO/CMY error	Check module connection
		Make sure nothing is blocking the movement of the shutters/blade
		Do a factory reset
		Update 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
DFAN1	D fan 1 is damaged	Replace D fan 1
	Fan wires have poor connection	Check fan wire connection
DFAN2	D fan 2 is damaged	Replace D fan 2
	Fan wires have poor connection	Check fan wire connection
DFAN3	D fan 3 is damaged	Replace D fan 3
	Fan wires have poor connection	Check fan wire connection
DFAN4	D fan 4 is damaged	Replace D fan 4
	Fan wires have poor connection	Check fan wire connection
FAN1	Fan 1 error	Check fan connection
		Replace fan
FAN2	Fan 2 error	Check fan connection
		Replace fan

Error Code	Possible Reason	Potential Solution
FAN3	Fan 3 error	Check fan connection
		Replace fan
FAN5	Fan 5 error	Check fan connection
		Replace fan
FAN6	Fan 6 error	Check fan connection
		Replace fan
FAN7	Fan 7 error	Check fan connection
		Replace fan
FAN8	Fan 8 error	Check fan connection
		Replace fan
Focus_cm1	Focus magnetic sensor 1 error	Check module connection
		Make sure nothing is blocking the movement
		Check sensors for +/- 5V when open and closed
		Do a factory reset
		Update software
Focus_cm2	Focus magnetic sensor 2 error	Check module connection
		Make sure nothing is blocking the movement
		Check sensors for +/- 5V when open and closed
		Do a factory reset
		Update software
F-SPA	Framing shutter fan error	Check module connection
		Make sure nothing is blocking the movement
		Check sensors for +/- 5V when open and closed
		Do a factory reset
		Update software
Gobo	Gobo error	Check module connection
		Make sure nothing is blocking the movement
		Check sensors for +/- 5V when open and closed
		Do a factory reset
		Update software
Gobo.R	Gobo rotation error	Check module connection
		Make sure nothing is blocking the movement
		Check sensors for +/- 5V when open and closed
		Do a factory reset
		Update software
Gobo2	Gobo 2 error	Check module connection
		Make sure nothing is blocking the movement
		Check sensors for +/- 5V when open and closed
		Do a factory reset
		Update software
JFAN1	JFAN1 error	Check fan connection
		Replace fan

Error Code	Possible Reason	Potential Solution
JFAN2	JFAN2 error	Check fan connection
		Replace fan
LIGHT BLOCK	Sunshield error	Check to ensure that the sunshield has moved out of the light path
		Check motor
LED_HOT	Overheated LED	Do a factory reset
		Update software
		Check connections
		Check fan functions
MAGENTA	Magenta error	Check module connection
		Make sure nothing is blocking the movement
		Check sensors for +/- 5V when open and closed
		Do a factory reset
MFAN1	M Fan 1 is damaged Fan wires have poor connection	Replace M fan 1
		Check fan wire connection
MFAN2	M Fan 2 is damaged Fan wires have poor connection	Replace M fan 2
		Check fan wire connection
MFAN3	M Fan 3 is damaged Fan wires have poor connection	Replace M fan 3
		Check fan wire connection
MFAN4	M Fan 4 is damaged Fan wires have poor connection	Replace M fan 4
		Check fan wire connection
Prism	Prism error	Check module connection
		Make sure nothing is blocking the movement
		Check sensors for +/- 5V when open and closed
		Do a factory reset
Prism2	Prism 2 error	Update software
		Check module connection
		Make sure nothing is blocking the movement
		Check sensors for +/- 5V when open and closed
Prism2.R	Prism 2 rotating error	Do a factory reset
		Update software
		Check module connection
		Make sure nothing is blocking the movement
R-OPEN	Thermistor open	Check sensors for +/- 5V when open and closed
		Do a factory reset
		Update software
		Check connection
R-SHORT	Thermistor short	Replace thermistor
		Do a factory reset
		Update software
		Check connection

Error Code	Possible Reason	Potential Solution
X_cm	Pan magnetic sensor error	Do a factory reset
		Update software
		Check connection
		Replace sensor
X_op1	Pan optocouple 1 error	Do a factory reset
		Update software
		Check connection
		Replace sensor
X_op2	Pan optocouple 2 error	Do a factory reset
		Update software
		Check connection
		Replace sensor
Y_cm	Tilt magnetic sensor error	Do a factory reset
		Update software
		Check connection
		Replace sensor
Y_op1	Tilt optocouple error	Do a factory reset
		Update software
		Check connection
Y_op2	Tilt optocouple error	Do a factory reset
		Update software
		Check connection
YELLOW	Yellow error	Check module connection
		Make sure nothing is blocking the movement
		Check sensors for +/- 5V when open and closed
		Do a factory reset
		Update software
Zoom	Zoom error	Check module connection
		Make sure nothing is blocking the movement
		Check sensors for +/- 5V when open and closed
		Do a factory reset
		Update software
ZFAN1	Z Fan 1 is damaged	Replace Z fan 1
	Fan wires have poor connection	Check fan wire connection
ZFAN2	Z Fan 2 is damaged	Replace Z fan 2
	Fan wires have poor connection	Check fan wire connection
ZFAN3	Z Fan 3 is damaged	Replace Z fan 3
	Fan wires have poor connection	Check fan wire connection
ZFAN4	Z Fan 4 is damaged	Replace Z fan 4
	Fan wires have poor connection	Check fan wire connection
ZFAN5	Z Fan 5 is damaged	Replace Z fan 5
	Fan wires have poor connection	Check fan wire connection
ZFAN6	Z Fan 6 is damaged	Replace Z fan 6
	Fan wires have poor connection	Check fan wire connection

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 (lbf.in)
Screws inside feet	10.1	8.7
Base screws around outside (not the feet)	53.03	46.02
Base screws in middle	89.74	77.89
Omega bracket holder	12.2	10.6
Front and rear base cover	20.3	17.6
Screws around power and data ports	3.5	3.0
Fuse and GORE® valves	6.1	5.2
Center of yoke plate	15.3	13.3
Arm cover screws	22.4	19.5
Head cover screws	25.5	22.1
Rear cover screws	10.1	8.7
Camera plate	25.5	22.1
Front lens cover	10.2	8.8

Vacuum Test Measurements

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

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

Gobo Maintenance

To ensure optimal operation, 1) inspect and 2) clean gobos every four months. More frequent maintenance may be necessary if usage is higher.

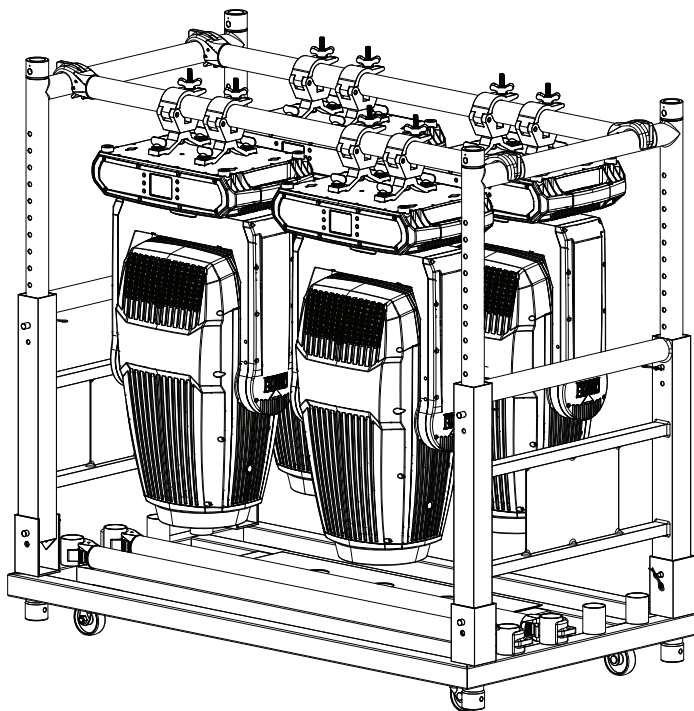
To inspect, remove each gobo holder and check if:

- The holders are clean (free of dirt, grime, or gunk).
- The gobos are properly installed in the holders.
- All the bearings are in place.
- The holders are rotating freely.

To clean the gobos and the gobo holder, follow the instructions below:

1. Remove the gobos from the holder.
2. Clean the gobos with a soft, lint-free cotton cloth. Use an ammonia-free glass cleaner sprayed to a piece of lint-free cotton cloth to clean glass gobos.
3. Submerge the gobo holder (without the gobo installed) in a container with a liquid lubricant (i.e., WD40) and let it rest for a couple of minutes.
4. Shake the container with the gobo holder inside to help release/loosen any gunk/grime/dirt.
5. Take the gobo holder out of the container and clean it using a small nylon brush.
6. Wipe off all the lubricant from the gobo holder using a piece of lint-free cotton cloth.
7. Apply a small coat of synthetic oil (i.e., Liquid Bearings) to the bearings and rotate it thoroughly in both directions (needle tip applicator recommended). Make sure the gobo holder is rotating freely and is not making any abnormal noise.
8. Reinstall the gobos in the gobo holder. Make sure the gobos are in the correct positions.
9. Reinstall the gobo holder in the unit.

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.

Technical Specifications

6. Technical Specifications

Product Dimensions and Weight

	Length	Width	Height	Weight
Product	21.29 in (541 mm)	12.71 in (323 mm)	35.66 in (906 mm)	132 lb (59.8 kg)
Shipping	42.72 in (1,085 mm)	25.98 in (660 mm)	22.44 in (570 mm)	134 lb (65.6 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	208 V, 60 Hz	230 V, 50 Hz	240 V, 50 Hz
Operating Consumption	1,963 W	1,959 W	1,945 W
Operating Current	9.68 A	8.62 A	8.33 A
Resting Consumption	167 W	166 W	165 W
Resting Current	1.29 A	1.18 A	1.16 A

Power I/O	U.S./Worldwide	UK/Europe
Power Input Connector	Seetronic Powerkon IP65	Seetronic Powerkon IP65
Power Cable plug	Bare wire	Bare wire

Light Source

Type	Color	Quantity	Power	Current	Lifespan
LED	Cool white 6877K	1	1,400 W	39 A	50,000 hours

Photometrics

Color Temperature at Full	Front Lens Diameter	CRI
7185K	245 mm	67.9

Beam Angle	Field Angle	Cutoff Angle	Zoom Range
3.2° to 51.2°	4.1° to 55.1°	4.4° to 55.9°	3.2° to 55.9°

Illuminance @ 5 m (3.2°)	Illuminance @ 5 m (55.9°)	Lumens
488,879 lux	4,079 lux	65,004

Thermal

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

Control

DMX I/O Connector	Art-Net™/sACN I/O	Channel Range
3-pin or 5-pin XLR or wireless Lumenrad CRMX™	Seetronic Etherkon	37 or 53

Ordering

Product Name	Item Name	Item Code	UPC Number
Maverick Storm LT	MAVERICKSTORMLT	08012802	781462231507



UL 1573
CSA C22.2 No. 166
E113093



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Warranty & Returns

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

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

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