User Manual



Model ID: MAVERICKFORCE2PROFILE





Edition Notes

The Maverick Force 2 Profile User Manual includes a description, safety precautions, installation, programming, operation and maintenance instructions for the Maverick Force 2 Profile as of the release date of this edition.

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Document Printing

For best results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure the printer to scale the content accordingly.

Intended Audience

Any person installing, operating, and/or maintaining this product should completely read through the guide that shipped with the product, as well as this manual, before installing, operating, or maintaining this product.

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Document Revision

This Maverick Force 2 Profile User Manual is the 4th edition of this document. Go to www.chauvetprofessional.com for the latest version.



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1. Before You Begin

What Is Included

- Maverick Force 2 Profile
- Seetronic Powerkon IP65 Power Cable
- 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 the 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></enter>	A key to be pressed on the product's control panel

Symbols

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



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



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

FCC Compliance

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

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

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 20cm between the radiator and the user. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



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 25.59 ft (7.8 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.
- 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 50 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.
- Operate this product outdoors or in any location where dust, excessive heat, water, or humidity may affect it (adhere to standards for the published IP rating).
- 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 this Chauvet product requires service, contact Chauvet Technical Support.

Expected LED Lifespan

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



2. Introduction

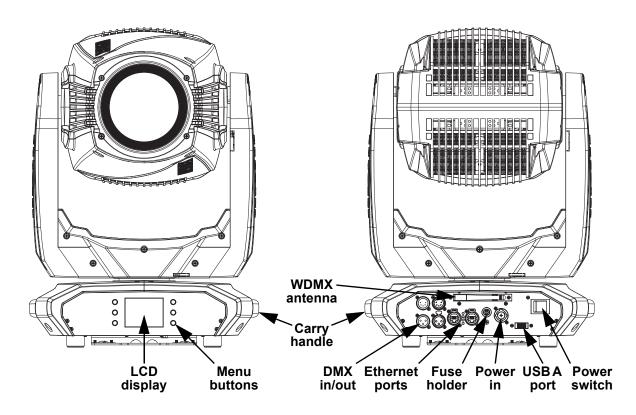
Description

The Maverick Force 2 Profile is a lightweight, tour-grade moving head with a big presence. The powerful product features an output of over 20,000 lumens and an artillery of speedy effects housed in a deceptively compact frame, under 60lbs. The Maverick Force 2 Profile features CMY + CTO color-mixing, a color wheel with a CTB and CRI option, and an extensive zoom range of 7 to over 50 degrees that maintains a flat field of focus even when fully wide. A custom-built framing system containing 4 dual axis shutters with a 120-degree field of rotation, motorized iris, focus, zoom, and frost capabilities, alongside a 5-facet rotating prism give an abundance of tools for beam shaping. Two rotating glass gobo wheels featuring gobos created in collaboration with leading designers can be stacked on top of one another for dynamic effects. Control as desired with DMX, sACN, Art-Net or W-DMX.

Features

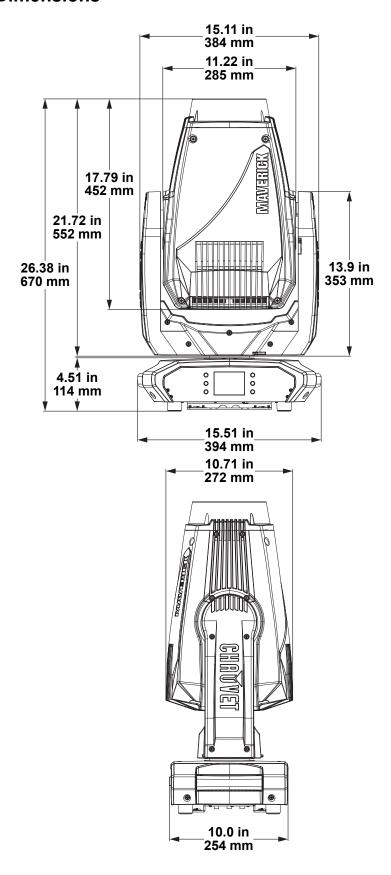
- Fully featured, compact and lightweight 580 W LED yoke profile fixture including CMY + CTO color mixing, a 4-blade framing shutter system with rotation, a color wheel, 8:1 zoom, a 5-facet prism wheel, and 2 rotating gobo wheels
- · 16-bit dimming of master dimmer for smooth control of fades
- Variable CMY + CTO color mixing system to create a wide pallet of colors
- · CRI and CTB filters on color wheel for added flexibility
- · Two rotating, indexing and interchangeable slot and lock gobo wheels
- DMX, WDMX, sACN, and Art-Net for full flexibility of control options
- RDM control over DMX for fixture reporting
- 6.8° to 55.9° zoom range for variable beam sizes
- Iris, 5-facet prism and frost for beam control
- True 1 compatible power input
- Three setup menu presets and preset sync for cross loading to multiple like fixtures for easy shop setup
- USB slot for software uploads
- Battery backup display with auto-rotate depending on fixture orientation

Product Overview





Product Dimensions





3. Setup

AC Power

The Maverick Force 2 Profile 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 Force 2 Profile comes with a power input cord terminated with a Seetronic Powerkon A connector on one end and an Edison plug on the other end (U.S. market). If the power input cord that came with the product has no plug, or if it is necessary to change the plug, use the table below to wire the new plug.

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

Fuse Replacement

- 1. Disconnect this product from the power outlet.
- 2. Using a flat-head screwdriver, unscrew the fuse holder cap from the housing.
- 3. Remove the blown fuse and replace with another fuse of the same type and rating (F 20 A, 250 V).
- 4. Screw the fuse holder cap back in place and reconnect power.

Remote Device Management (RDM)

Remote Device Management, or RDM, is a standard for allowing DMX-enabled devices to communicate bi-directionally along existing DMX cabling. Check the DMX controller's User Manual or with the manufacturer as not all DMX controllers have this capability. The Maverick Force 2 Profile supports RDM protocol that allows feedback to make changes to menu map options.

USB Software Update

The Maverick Force 2 Profile allows for software update through USB using the built-in USB port. To update the software using the USB flash drive, do the following:

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



The .chl format file needs to be placed in the MAVERICK folder in the USB flash drive.



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

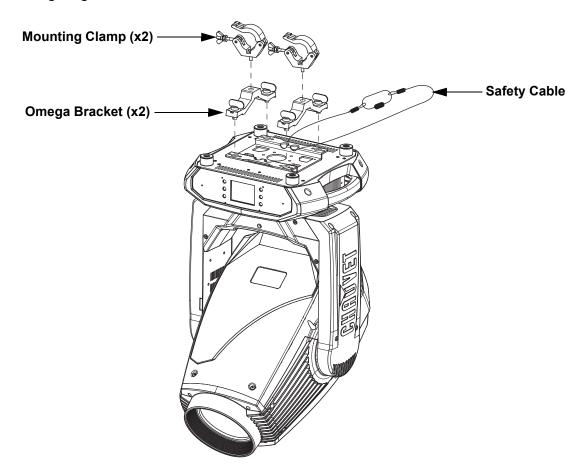
Chauvet recommends using the following general guidelines when mounting this product.

- 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 <u>Technical Specifications</u> for weight information.
- When mounting the product overhead, always use a safety cable. Mount the product securely to a rigging point, whether an elevated platform or a truss.
- When rigging the product onto a truss, use a mounting clamp of appropriate weight capacity.

Procedure

The Maverick Force 2 Profile 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





Signal Connections

The Maverick Force 2 Profile can receive a DMX, Art-Net[™], or sACN, signal. The Maverick Force 2 Profile has 2 Amphenol XLRnet through ports, and 3-pin / 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 Force 2 Profile uses a 3 or 5-pin DMX data connection, WDMX, Art-Net™, or sACN for its 2 control personalities: **Dmx Mode 33 CH** and **Dmx Mode 50 CH**.

- Refer to the <u>Operation</u> chapter to learn how to configure the Maverick Force 2 Profile to work in these personalities.
- The <u>Control Channel Assignments and Values</u> section provides detailed information regarding the control personalities.



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

DMX Linking

It is possible to link the Maverick Force 2 Profile to a DMX controller using a 3 or 5-pin DMX connection or a WDMX connection. For more information about DMX, read the DMX primer at: https://www.chauvetprofessional.com/wp-content/uploads/2016/06/DMX Primer.pdf.

Art-Net™ Connection

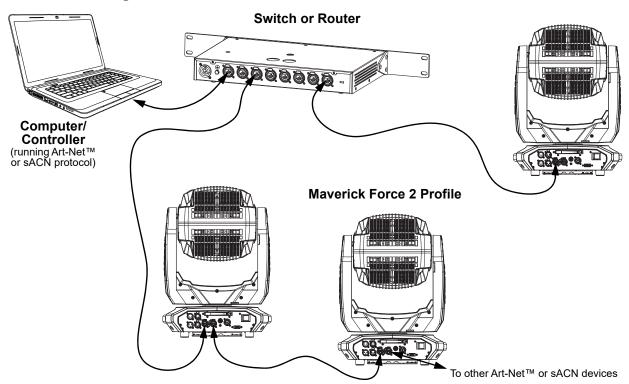
Art-Net[™] is an Ethernet protocol that uses TCP/IP which transfers a large amount of DMX512 data using an Amphenol XLRnet RJ45 connection over a large network. An Art-Net[™] protocol document is available from www.chauvetprofessional.com.

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

sACN Connection

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.

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 2 Profile is receiving a signal from a controller.



4. Operation

Touchscreen Control Panel

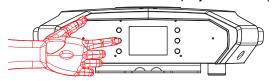
The Maverick Force 2 Profile has a touchscreen display as well as 6 control buttons. Navigate the menu structure by pressing the buttons, touching the images of the buttons on the sides of the display, or touching the desired menu option on the display directly. The touchscreen can be locked and calibrated through the Setup options in the menu. (See <u>Touchscreen Calibration</u> and <u>Touchscreen Lock</u>.)

Control Panel Description

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

Battery Powered Display

The Maverick Force 2 Profile 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 Force 2 Profile 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).



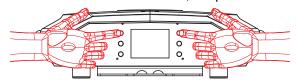
When the control panel lock is activated, the product will prompt for the passcode in order to access the menu. Enter the passcode as described below.

Passcode

After being prompted to enter the passcode, press <UP>, <DOWN>, <UP>, <DOWN>, <ENTER>.

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 Force 2 Profile, hold **<UP>** and **<LEFT>** while the product is powering on. When the product is turned off and back on, the pan and tilt will return to normal function.







Menu Map

Refer to the Maverick Force 2 Profile product page on www.chauvetprofessional.com for the latest menu map.

Main Level	Programi	Description		
Address	00	Sets the starting address		
		Manual	Manually set IP address	
	IP Mode	DHCP	Network sets IP address	
		Static	Product sets IP address	
Network Setup	Universe	000–255 (Art-Net™) 001–256 (sACN)	Sets the universe	
	lp		Sets the IP address in Manual mode	
	SubMask		Sets the Subnet Mask in Manual mode	
	Dmx Mode 33 CH	NO	Selects the 33-channel mod	
Personality	Dillix mode de eri	YES		
Cisonanty	Dmx Mode 50 CH	NO	Selects the 50-channel mod	
	Dillx Mode of Oil	YES	Gelects the 30-chamie mod	
		DMX		
	ControlMode	WDMX	Sets the control protocol	
	oona onnouo	ArtNet		
		sACN		
	Pan Reverse	NO	Normal pan	
	T un reverse	YES	Reversed pan	
	Tilt Reverse	NO	Normal tilt	
	Till Reverse	YES	Reversed tilt	
		NO	Normal display	
	Screen Reverse	YES	Inverted display	
		AUTO	Automatic display orientatio	
		540	540° pan range	
	Pan Angle	360	360° pan range	
		180	180° pan range	
		270	270° tilt range	
Settings	Tilt Angle	180	180° tilt range	
		90	90° tilt range	
	BL. O. P/T Move		Do not black out while panning/tilting	
		YES	Blackout while panning/tilting	
	BL. O. Color Move	NO	Do not black out while color wheel moving	
	DE. C. COIOI MICVE	YES	Blackout while color wheel moving	
	BL. O. Gobo Move	NO	Do not black out while gobo wheels moving	
	DE. C. CODO MICVE	YES	Blackout while gobo wheels moving	
	Calibration	NO	Cancel calibration	
	Odii Di di Oli	YES	Calibrate touchscreen	
	Touchscreen Lock	NO	Touch screen enabled	
	TOUCHSCIEET LOCK	YES	Touch screen disabled	





Main Level	Programm	ing Levels	Description
	Lock Screen	NO	Lock the buttons and touch
	Lock Screen	YES	screen. Passcode: 0920
		NO	Do not swap pan and tilt
	Swap XY	YES	Pan controls tilt, tilt controls pan
	WDMX Reset	NO	Do not reset WDMX
	WDIIIX ROSEL	YES	Reset WDMX
		30\$	Display turns off after 30 seconds
	Backlight Timer	1M	Display turns off after 1 minute
		5M	Display turns off after 5 minutes
		ON	Display stays on
	Loss of Data	Hold	Holds last signal received
		Close	Blacks out fixture
		Auto	Fan speed according to product temperature
		Full	Fan speed set on high
		ECO	Quiet mode
	Fans	TV25	Maintains LED output up to an ambient temperature of 77 °F (25 °C) (TV25) or 95 °F (35 °C) (TV35).
Settings (cont.)		TV35	When using these fan modes, please set the PWM Options to 6000Hz or 15000Hz to prevent any possible harmonization noise.
	Dimmer Curve	Linear	
		Square	
		I Squa	Set the dimmer curve
		SCurve	
		Linear2	
		600Hz	
		1200Hz	Sets the Pulse Width
	PWM Option	4000Hz	Modulation frequency
		6000Hz	
		15000Hz	
	LED POWER	064–255	Sets the maximum LED output
	Min Zoom Focus	NO	Enables/disables minimum
	20011110003	YES	zoom focus
		PRESET A	Recorded preset manu
	Preset Select	PRESET B	Recorded preset menu options
		PRESET C	·
		NO	Allows recorded preset menu
	Preset Sync	YES	options to be transferred to other Maverick Force 2 Profile fixtures in the DMX daisy chain



Main Level	Programming Levels				Description	
	USB Update		N	0	Enables/disables updating by	
	000 0	puate	YE	ES	USB	
		Pan	/Tilt			
		Iris/P	rism			
Settings	Reset	Color/CN	IY/Blade	NO/YES	Reset individual functions or	
(cont.)	Function	Gobo/Gol	oo Rotate	NOTES	all functions from start-up	
		Fro	st			
		Α	II			
	Factory	Sottings	N	0	Reset to factory default	
	1 actory			ES	settings	
		Auto			Auto test all functions	
		Pa				
		Pan				
		Ti				
		Tilt I				
		P/T S	•			
		Dim				
		Dimme				
		Shu				
		Virtual Shaking				
	Manual Test	Cyan				
		Magenta				
		Yellow			-	
		C1	О			
		Co				
		Gobo Gobo Rotate Gobo Index				
Test		Gol	002	000–255	Manually control and test all settings through the control	
	Maridai 165t	Gobo2	Rotate	000-255	panel	
		Gobo2	Index			
		Blad	e1- 1			
		Blade1	· 1 Fine			
		Blad	e1- 2			
		Blade1	2 Fine			
		Blad	e2- 1			
		Blade2	1 Fine			
		Blad	e2- 2			
		Blade2	2 Fine			
		Blad	e3- 1			
		Blade3	1 Fine			
		Blad	e3- 2			
		Blade3	2 Fine			
		Blad	e4- 1			
		Blade4	· 1 Fine			
				1		
		Blad	e4- 2			



Main Level		Programm	ing Levels		Description
		Blade	Rotate		
		Blade. R	Rota Fine		
		Fo	cus		
		Focus	s Fine		
		Focus	s Auto		
		Zo	om		
Test	Manual Test	Zoon	n Fine	000 055	Manually control and test all
(cont.)	(cont.)	Pri	sm	000–255	settings through the control panel
		Prism	Rotate		parier
		Ir	is		
		Fre	ost		
		CMY	Macro		
			ro Speed		
			Function		
			er	V_	Shows firmware version
		Runnin	g Mode		Shows current running mode
		DMX A	ddress		Shows current starting address
	Fixture	Tempe	erature		Shows current product temperature in °C
	Information	Fixture	Hours		Shows number of hours product has been powered on
		lp		Shows current IP address	
		SubMask		Shows current Subnet Mask	
		MAC		Shows current MAC address	
		head Fan1 Speed			
		head Fan2 Speed			
		head Fan3 Speed			
	Fan	head Fan4 Speed		Shows speed of head fans in	
	Information	Base Fan1 Speed		rpm	
Information		Base Fan2 Speed			
		Base Fa	Base Fan3 Speed		
		Base Fa	n4 Speed		
	Error Info	ormation			Shows any errors, or No Error!
		Frequ	uency		
		P	an .		
		Pan	Fine		
		Т	ilt		
		Tilt	Fine		
	Channel		Speed		Shows all current values
	Information		mer		from input signals, 000–255
		Dimmer Fine			
		Shutter			
				-	
			Virtual Shaking Cyan		
		<u>'</u>		-	
		Magenta			



Main Level		Programming Levels		Description	
		Yellow			
		СТО			
		Color			
		Gobo			
		Gobo Rotate			
		Gobo Index			
		Gobo2			
		Gobo2 Rotate			
		Gobo2 Index			
		Blade1- 1			
		Blade1- 1 Fine			
		Blade1- 2			
		Blade1- 2 Fine			
		Blade2- 1			
		Blade2- 1 Fine			
		Blade2- 2			
	Channel Information (cont.)	Blade2- 2 Fine			
		Blade3- 1			
Information		Blade3- 1 Fine		Shows all current values	
Information (cont.)					from input signals, 000–255
(551.11)		Blade3- 2 Fine Blade4- 1	, , , , , , , , , , , , , , , , , , , ,		
		Blade4- 1 Fine			
		Blade4- 2			
		Blade4- 2 Fine			
		Blade Rotate			
		Blade. Rota Fine			
		Focus			
		Focus Fine			
		Focus Auto			
		Zoom			
		Zoom Fine			
		Prism			
		Prism Rotate			
		Iris			
		Frost			
		CMY Macro			
		CMY Macro Speed			
		Special Function			



Configuration (DMX, Art-Net™, sACN)

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

Control Mode

The Maverick Force 2 Profile works with wired DMX, WDMX, Art-Net™, and sACN control signals. To select which protocol to use:

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



- See the WDMX Reset section for further setup of WDMX.
- See the <u>Network Setup</u> section for further setup of ethernet protocols (Art-Net™ or sACN).

Control Personalities

To set the control personality:

- 1. Go to the **Personality** main level.
- 2. Select the desired personality, from Dmx Mode 33 CH or Dmx Mode 50 CH.



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

Starting Address

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

- 1. Go to the Address main level.
- 2. Select the starting address (001-480).
 - The highest recommended starting address for Dmx Mode 33 CH is 480.
 - The highest recommended starting address for Dmx Mode 50 CH is 463.

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 Force 2 Profile:

- 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.
- 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.
- Select the SubMask option.
- 3. Set the 4 values of the subnet mask from **000–255**.



Control Channel Assignments and Values

33 CH	50 CH	Function	Value	Percent/Setting		
1	1	Pan	000 ⇔ 255	0–100%		
2	2	Fine Pan		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		Fine control (16-bit)		
			000 🖘 003	Closed		
			004 ⇔ 007	•		
7	8	Shutter		Strobe, slow to fast		
,	O	Silutter	077 ⇔ 145	Pulse strobe, slow to fast		
			146 ⇔ 215	Random strobe, slow to fast		
			216 <code-block> 255</code-block>	•		
		Virtual Strobe	000 🗢 001	No function		
8	9			Shaking strobe, slow to fast		
				Fading shake, slow to fast		
9	10	Cyan	000 \$\Display 255 0-100%			
10	11	Magenta	000 ⇔ 255			
11	12	Yellow	000 ⇔ 255			
12	13	СТО	000 ⇔ 255			
			000 ⇔ 006	•		
				007 ⇔ 013		
			014 🖘 020			
			021 ⇔ 027			
			028 ⇔ 034			
13	14	Color Wheel	035 ⇔ 041			
			042 ⇔ 048			
			049 ⇔ 059			
				Color wheel indexing		
				Color scroll, fast to slow		
			220 223	•		
			224 <code-block></code-block>	Reverse color scroll, slow to fast		



T KOT LOO	PROFESSIONAL				
33 CH	50 CH	Function	Value	Percent/Setting	
			000 ⇔ 007	Open	
			008 015	Gobo 1 (Sail Boats)	
			016 🗢 023	Gobo 2 (Radial Dot)	
			024 031	Gobo 3 (Dots)	
			032 039	Gobo 4 (Bolts)	
			040 😂 047	Gobo 5 (Shower Glass)	
			048 ⇔ 055	Gobo 6 (Ballistic Clouds)	
			056 ⇔ 063	Gobo 7 (Four Eyes)	
14	15	Gobo Wheel 1	064 ⇔ 071	Gobo 7 shaking	
14	15	Godo wileer i	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	
		Gobo 1 Rotate	000 063	Rotating gobo index	
	16		064 ⇔ 145	Gobo rotation, fast to slow	
15			146 ⇔ 149	Stop	
			150 ⇔ 231	Reverse gobo rotation, slow to fast	
			232 ⇔ 255	Bounce effect, short to long	
_	17	Gobo Wheel 1 Indexing	000 ⇔ 255	Fine control (16-bit)	
			000 ⇔ 007	Open	
			008 🗢 015	Gobo 1 (Spiral)	
			016 🗢 023	Gobo 2 (Abstracts)	
			024 🗢 031	Gobo 3 (Brick Wall)	
			032 🗢 039	Gobo 4 (Chess)	
				Gobo 5 (Granny Sue)	
			048 ⇔ 055	Gobo 6 (Color Weave)	
			056 ⇔ 063	Gobo 7 (Indigo Square Breakup)	
16	18	Gobo Wheel 2	064 ⇔ 071	Gobo 7 shaking	
.0		GODO WIICCI Z		Gobo 6 shaking	
			080 ⇔ 087	Gobo 5 shaking	
				Gobo 4 shaking	
			096 ⇔ 103	Gobo 3 shaking	
				Gobo 2 shaking	
			112 😂 119	Gobo 1 shaking	
			120 ⇔ 127	·	
				Gobo scroll, slow to fast	
				Reverse gobo scroll, slow to fast	
				Rotating gobo index	
			064 ⇔ 145	Gobo rotation, fast to slow	
17	19	Gobo 2 Rotate	146 ⇔ 149	Stop	
			150 ⇔ 231	Reverse gobo rotation, slow to fast	
			232 ⇔ 255	Bounce effect, short to long	



33 CH	50 CH	Function	Value	Percent/Setting
_	20	Gobo Wheel 2 Indexing		Fine control (16-bit)
18	21	Blade 1-1	000 ⇔ 255	` '
	22	Blade 1-1 Fine		Fine control (16-bit)
19	23	Blade 1-2	000 \(\infty 255	,
	24	Blade 1-2 Fine		Fine control (16-bit)
20	25	Blade 2-1	000 \(\infty 255	,
	26	Blade 2-1 Fine		Fine control (16-bit)
21	27	Blade 2-2	000 ⇔ 255	,
	28	Blade 2-2 Fine		Fine control (16-bit)
22	29	Blade 3-1	000 ⇔ 255	,
_	30	Blade 3-1 Fine		Fine control (16-bit)
23	31	Blade 3-2	000 ⇔ 255	
	32	Blade 3-2 Fine		Fine control (16-bit)
24	33	Blade 4-1	000 ⇔ 255	` '
_	34	Blade 4-1 Fine		Fine control (16-bit)
25	35	Blade 4-2	000 \ 255	
	36	Blade 4-2 Fine		Fine control (16-bit)
26	37	Frame Rotate	000 ⇔ 255	,
_	38	Frame Fine Rotate		Fine control (16-bit)
27	39	Focus	000 ⇔ 255	` ,
_	40	Fine Focus		Fine control (16-bit)
		Auto Focus		No function
			011 🖘 030	0–5 m
	44		031 ⇔ 050	6 m
			051 ⇔ 070	7 m
			071 ⇔ 090	8 m
			091 ⇔ 110	9 m
-	41		111 🕸 130	10 m
			131 ⇔ 150	12.5 m
			151 ⇔ 170	15 m
			171 ⇔ 190	17.5 m
			191 ⇔ 210	20–60 m
			211 <code-block> 255</code-block>	Auto-detect distance
28	42	Zoom	000 ⇔ 255	0–100%
-	43	Fine Zoom	000 ⇔ 255	Fine control (16-bit)
29	44	Prism	000 004	No function
29	44	FIISIII	005 ⇔ 255	Prism effect
			000 ⇔ 127	Rotating prism index
20	45	Prism Rotate	128 ⇔ 189	Prism rotation, fast to slow
30	40	ו וופווו ועטנמנט	190 ⇔ 193	Stop
			194 ⇔ 255	Reverse prism rotation, slow to fast
				Big to small
31	46	Iris	064 ⇔ 127	Auto change, slow to fast
31	40		128 ⇔ 191	Slow open, fast close (slow to fast)
			192 ⇔ 255	Slow close, fast open (slow to fast)
32	47	Frost	000 ⇔ 255	0–100%



33 CH	50 CH	Function	Value	Percent/Setting
	48	CMY Macro	000 🖘 009	No function
_	40	CIVIT IVIACIO	010 ⇔ 255	CMY macro
_	49	CMY Macro Speed	000 ⇔ 255	CMY macro speed, fast to slow
				No function
				XY blackout
			016 ⇔ 023	
				G blackout
				XY/C blackout
			040 🗇 047	XY/G blackout
				XY/C/G blackout
			056 ⇔ 095	No function
			096 ⇔ 103	
		Control	104 ⇔ 111	
				Color reset
				Gobo wheels and rotation reset
				High color temperature gobo on
				High color temperature gobo off
				Prism reset
	50			Framing shutter reset
33			152 ⇔ 159	
			160 ⇔ 167	
				Frost reset
				Zoom reset
				CMY reset
				Fan ECO mode
				Fan full speed
			208 ⇔ 215	
				Fan TV25 mode
				Fan TV35 mode
				Iris fast mode
				Iris smooth mode
				XY swap on
				XY swap off
				Minimum zoom focus on
				Minimum zoom focus off
			251 ⇔ 255	No function



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.
- 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** (changes depending on the orientation of the product).

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** (270°), **180** (180°), or **90** (90°).

Blackout on Movement

To set the Maverick Force 2 Profile to black out on pan or tilt movement, color wheel movement, or gobo wheel movement:

- 1. Go to the **Settings** main level.
- 2. Select the **BL. O. P/T Move** (blackout on pan or tilt movement), **BL. O. Color Move** (blackout on color wheel movement), or **BL. O. Gobo Move** (blackout on gobo wheel movement) option.
- Select from NO (no blackout on selected movement), or YES (blackout during the selected movement).

Touchscreen Calibration

To calibrate the touchscreen:

- 1. Go to the **Settings** main level.
- 2. Select the Calibration option.
- 3. Select from **NO** (cancel), or **YES** (calibrate).
- 4. Follow the instructions on the display.

Touchscreen Lock

To lock the touchscreen and limit the display to operation by the menu buttons:

- 1. Go to the **Settings** main level.
- 2. Select the Touchscreen Lock option.
- 3. Select from NO (do not lock the touchscreen), or YES (lock the touchscreen).

Swap Pan and Tilt

To swap the pan and tilt controls for each other:

- 1. Go to the **Settings** main level.
- 2. Select the Swap XY option.
- 3. Select from **NO** (do not swap), or **YES** (swap so pan controls tilt and tilt controls pan).



WDMX Reset

To reset the WDMX connection and allow the Maverick Force 2 Profile to connect to a WDMX transmitter:

- 1. Go to the **Settings** main level.
- 2. Select the **WDMX Reset** option.
- 3. Select from NO (do not reset), or YES (reset the WDMX connection).



Follow instructions in the manual or guide for the WDMX controller being used to connect it to the receiver in the Maverick Force 2 Profile.

Display Backlight Timer

To set the length of time 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).

Loss of Data

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

- 1. Go to the **Settings** main level.
- 2. Select the Los of Data option.
- Select from Hold (holds the last values received before signal loss), or Close (blacks out the product).

Fan Mode

To set the fan speed mode:

- 1. Go to the **Settings** 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), **TV25** (maintains a consistent LED output up to an ambient temperature of 77 °F [25 °C]), or **TV35** (maintains a consistent LED output up to an ambient temperature of 95 °F [35 °C]).



When using the fan modes TV25 or TV35, please set the PWM Options to 6000Hz or 15000Hz to prevent any possible harmonization noise.

Dimmer Curve

To set the dimmer curve:

- Go to the **Settings** main level.
- 2. Select the **Dimmer Curve** option.
- 3. Select the dimmer curve, from Linear, Square, I Squa, SCurve or Linear2.

Pulse Width Modulation

To adjust the frequency of the pulse width modulation:

- 1. Go to the **Settings** main level.
- 2. Select the **PWM Option** option.
- Select the frequency, from 600Hz, 1200Hz, 2000Hz, 4000Hz, 6000Hz, or 15000Hz.

LED Power

To set the maximum power of the LED output:

- 1. Go to the **Settings** main level.
- 2. Select the LED POWER option.
- 3. Set the power from **064–255**.

Minimum Zoom Focus

To enable or disable the minimum zoom focus function:

- 1. Go to the **Settings** main level.
- 2. Select the Min Zoom Focus option.
- 3. Select from **NO** (disable), or **YES** (enable).



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 Force 2 Profile to another:

- 1. Connect the Maverick Force 2 Profile products to receive the Presets by a DMX daisy chain.
- 2. Make the Maverick Force 2 Profile 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 Force 2 Profile 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 Force 2 Profile products for this function!

USB Update

To enable or disable updating the firmware via the USB A port:

- 1. Go to the **Settings** main level.
- 2. Select the USB Update option.
- 3. Select from NO (disable), or YES (enable).



See the <u>USB Software Update</u> section for the detailed instructions on how to update the Maverick Force 2 Profile software using the USB flash drive.

Reset Function

To reset specific functions or the entire product:

- 1. Go to the **Settings** main level.
- Select the Reset Function option.
- 3. Select the functions to reset, from:
 - Pan/Tilt
 - Iris/Prism
 - Color/CMY/Blade
 - · Gobo/Gobo Rotate
 - 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.
- 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 Force 2 Profile 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 Force 2 Profile:

- 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, Virtual Shaking, Cyan, Magenta, Yellow, CTO, Color, Gobo, Gobo Rotate, Gobo Index, Gobo2, Gobo2 Rotate, Gobo2 Index, Blade1- 1, Blade1- 1 Fine, Blade1- 2, Blade1- 2, Fine, Blade2- 1, Blade2- 1 Fine, Blade2- 2, Blade2- 2 Fine, Blade3- 1, Fine, Blade3- 2, Blade3- 2 Fine, Blade4- 1, Blade4- 1 Fine, Blade4- 2, Blade4- 2 Fine, Blade Rotate, Blade. Rota Fine, Focus, Focus Fine, Focus Auto, Zoom, Zoom Fine, Prism, Prism Rotate, Iris, Frost, CMY Macro, CMY Macro Speed, or Special Function.
- 4. Increase or decrease the value of the selected function from 000-255 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 these information sections:

- 1. Go to the **Information** main level.
- Select which information to view, from Fixture Information (shows the firmware version, running mode, addresses, temperature, and running time), Fan Information (shows the speed of the fans in rotations per minute (rpm)), Error Information (shows any error or No Error!), 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.

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.
- Enter the passcode: 0920 and press <ENTER>.
- 3. Select the "zero" position to adjust, from PAN, TILT, COLOR, GOBO, GOBO ROTATE, GOBO2, GOBO2 ROTATE, FOCUS-GOBO, FOCUS-GOBO2, ZOOM, PRISM, PRISM ROT, IRIS, FROST, CYAN, MAGENTA, YELLOW, CTO, BLADE1-1, BLADE1-2, BLADE2-1, BLADE2-2, BLADE3-1, BLADE3-2, BLADE4-1, BLADE4-2, BLADE ROTATE, DIMMER1, DIMMER2, DIMMER3, MAC4, MAC5, or MAC6.
- 4. Adjust the "zero" position for the selected function from **000–255**.



Web Server

The Maverick Force 2 Profile 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 Force 2 Profile.

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

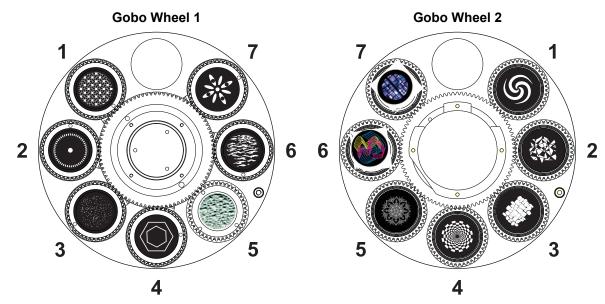
The Upgrade page on the Web Server allows the product to be updated with the latest firmware. Go to https://www.chauvetprofessional.com to download firmware updates.

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.



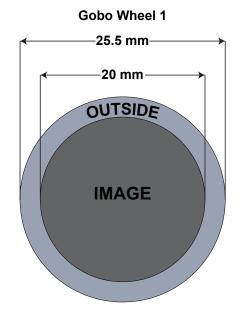
Gobo Wheels

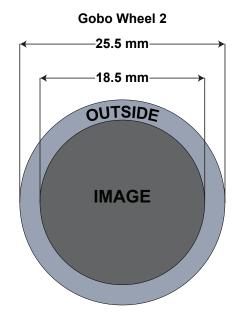


Gobo Wheel	Gobo #	Description
	1	Sail Boats
	2	Radial Dot
	3	Dots
1	4	Bolts
	5	Shower Glass
	6	Ballistic Glass
	7	Four Eyes

Gobo Wheel	Gobo #	Description
	1	Spiral
	2	Abstracts
	3	Brick Wall
2	4	Chess
	5	Granny Sue
	6	Color Weave
	7	Indigo Square Breakup

Gobo Dimensions







Gobo Replacement

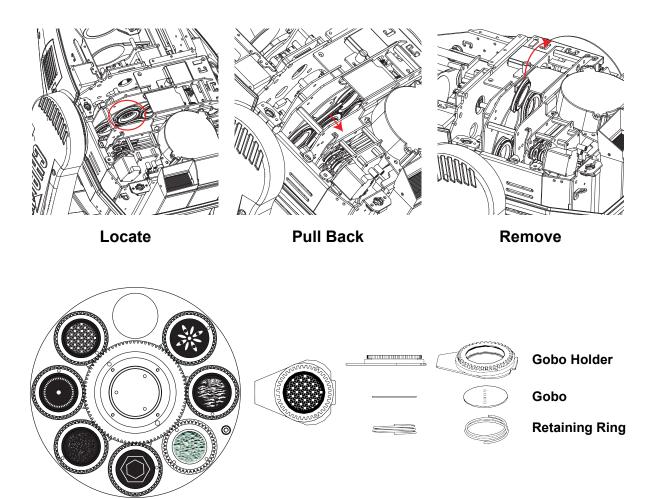
The gobos in gobo wheel 1 are removable from their gobo holders. This operation is quite simple, although it requires the technician to carefully follow the recommended procedure.

- Make sure to disconnect the product's power cord 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.

Procedure

- 1. Turn the product off and disconnect it from the power outlet.
- 2. Open the head cover by loosening the screws on the top cover.
- 3. Separate the gobo holder away from the gobo wheel by pushing it toward the front of the moving head (direction 1 in the diagram). Be careful not to push the gobo out of the gobo holder.
- 4. Extract the gobo holder by pulling it outward (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 holder should easily slide into the gobo wheel slot.

Diagram





5. Maintenance

Product Maintenance

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

To clean the product, follow the instructions below:

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



Always dry the transparent surfaces carefully after cleaning them.



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



6. Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
15.51 in (394 mm)	10.71 in (272 mm)	26.38 in (670 mm)	57.3 lb (26 kg)

Note: Dimensions in inches are rounded.

Power

Power Su	pply 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	800 W	780 W	764 W	754 W	762 W
Operating Current	8.01 A	6.41 A	3.68 A	3.31 A	3.19 A
Fuse/Breaker	F 13 A, 250 V	F 13 A, 250 V	F 13 A, 250 V	F 13 A, 250 V	F 13 A, 250 V

Power I/O	U.S./Worldwide	UK/Europe
Power Input Connector	Seetronic Powerkon A	Seetronic Powerkon A
Power Cord plug	Edison (U.S.)	Local Plug

Light Source

Type	Color	Quantity	Power	Current	Lifespan
LED	Cool white (7500K)	1	580 W	4.2 A	50,000 hours

Photometrics

Front Lens Diameter	Beam Angle	Field Angle	Cutoff Angle	Zoom Range
127 mm	6.8° to 48.1°	7.6° to 54.9°	8.4° to 55.9°	6.8 to 55.9°
Color Temperature (at Full)	CRI (without CRI Filter)	CRI (with CRI Filter)	Illuminance @ 5 m (7°)	Illuminance @ 5 m (55°)

89.3

Thermal

7570K

70.8

Startup Temperature Range	Operating Temperature Range	Cooling System
-4 °F–113 °F (-20 °C–45 °C)	-22 °F-113 °F (-30 °C-45 °C)	Fan-assisted Convection

DMX

I/O Connector	Channel Range
3 and 5-pin XLR	33 or 50

Art-Net™/sACN

I/O Connector	Channel Range
Amphenol XLR Net RJ45 in/out	33 or 50

Ordering

Product Name	Item Name	Item Code	UPC Number
Maverick Force 2 Profile	MAVERICKFORCE2PROFILE	08011698	781462220464









51,865 lux

1,648 lux



Contact Us

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Warranty & Returns

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

For customers in the United States and Mexico: 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.