

MK2 SPOT

User Manual







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1. BEFORE YOU BEGIN

Included

What Is · Maverick MK2 Spot

True 1 compatible power cord

- 2 Omega brackets
- Warranty card
- User Manual
- Claims Carefully unpack the product immediately and check the box to make sure all h parts are in the package and are in good condition.

If the box or the contents (the product and included accessories) app ar damaged from shipping or show signs of mishandling, notify the carrier immediately, no Chauvet. Failure to report damage to the carrier immediately may invalidate your claim. I ad ition, keep the box and contents for inspection.

For other issues, such as missing components or parts, damage no related to shipping, or concealed damage, file a claim with Chauvet within 7 days of delivery.

Manual	Convention	Meaning
Conventions	1–512	A range of values in the text
-	50/60	A set of mutually exclusive va s in the text
-	<set></set>	A button on the pr duc s control panel
-	Settings	A product function or menu option
-	MENU>Settings	A sequence of me u options
-	ON	A unique value to be entered or selected in a menu
Symbols	Symbols	Meani g
	\triangle	Cr ti al installation, configuration, or operation information. Failure to comply with this information may cause the product not to work, damage third-party equipment, or cause harm to the operator.
	()	Important installation or configuration information. Failure to comply with this information may keep the product from working.
-		Useful information.

The rm "DMX" used throughout this manual refers to the USITT DMX512-A digital data transm ssion protocol.

Product At A	U e on Dimmer	\otimes	Auto Programs	\otimes
Glance	Outdoor Use	0	Auto-Ranging Power Supply	\checkmark
	Master/Slave	0	Replaceable Fuse	\checkmark
	DMX	 Image: A start of the start of	User-Serviceable	\Diamond



Safety Notes	Read all the following Safety Notes before working with this product. These notes include important information about the installation, usage, and maintenance of this product.
\triangle	This product contains no user-serviceable parts. Any reference to servicing in this User Manual will only apply to properly trained Chauvet certified technicians. Do not open the housing or attempt any repairs.
(\mathbf{i})	All applicable local codes and regulations apply to proper installation of this prod ct.
Personal Safety	 Avoid direct eye exposure to the light source while the product is on. Always disconnect this product from its power source before servicing. Always connect this product to a grounded circuit to avoid the risk of elec ocution. Do not touch this product's housing during operation because it may be very hot.
Mounting And Rigging	 This product is for indoor use only! To prevent risk of fire or sho k, d ot expose this product to rain or moisture. (IP20) CAUTION: When transferring product from extreme temperatur environments, (e.g. cold truck to warm humid ballroom) condensation may form on the internal electronics of the product. To avoid causing a failure, allow product to f Ily a climate to the surrounding environment before connecting it to power. Mount this product in a location with adequate vent ati n, at least 20 in (50 cm) from adjacent surfaces. Make sure there are no flammable mat rials close to this product while it is operating. When hanging this product, always secu to a fastening device using a safety cable. Never carry the product by the power ord or any moving part.
Power And Wiring	 Make sure the power cord is not rim ed or damaged. Always make sure you are conne ting this product to the proper voltage in accordance with the specifications in thi manual or on the product's specification label. To eliminate unnecessary w ar and improve its lifespan, during periods of non-use completely disconnect he roduct from power via breaker or by unplugging it. Never connect this prod ct to a dimmer pack or rheostat. Make sure to replace the fuse with another of the same type and rating. Never disconn ct this product by pulling or tugging on the power cable.
Operation	 Do not ope a e thi product if you see damage on the housing, lenses, or cables. Have the damaged parts replaced by an authorized technician at once. Do not over the ventilation slots when operating to avoid internal overheating. Th maximum ambient temperature is 113 °F (45 °C). Do not operate this product at a highe temperature. In se of a serious operating problem, stop using this product immediately!
	If your Chauvet product requires service, contact Chauvet Technical Support.
Expected LED Lifespan	LEDs gradually decline in brightness over time, mostly because of heat. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal, single-LED conditions. For this reason, using clustered LEDs at their fullest intensity significantly reduces the LEDs' lifespan. Under normal conditions, this lifespan can be 40,000 to 50,000 hours. If extending this lifespan is vital, lower the operating temperature by improving the ventilation around the product and reducing the ambient temperature to an optimal operating range. In addition, limiting the overall projection intensity may also help to extend the LEDs' lifespan.



2. INTRODUCTION

Description Stunningly bright with precision engineered optics and a color mixing system that will leave you breathless, the Maverick MK2 Spot sets new standards in moving head LED spots. Powered by an industry leading 440W LED engine, this fixture boasts a CMY+CTO color mixing system two 6 position rotating slot and lock gobo wheels, a 7 position + white color wheel, variable frost and 3 facet prism. All of this projected through a 13° to 37° zoom system. With the ability to co trol the Maverick MK2 Spot over DMX, Art-Net, or by WDMX, there is an option for every situation. As an added feature, this fixture can receive Art-Net in, and send out DMX, simplifying cable uns.

Features at a glance

- 440W LED light engine
- 16-bit Dimming
- Variable CMY+CTO color mixing
- · Two rotating, indexing and interchangeable slot and lock gobos
- · DMX, WDMX, sACN, and Art-Net control
- 13° to 37° Zoom angle
- Iris, 3-facet prism, and frost for beam control
- True 1 compatible power input

Overview





Dimensions



3. SETUP

AC Power Each Maverick MK2 Spot has an auto-ranging power supply that works with an input voltage range of 100 to 240 VAC, 50/60 Hz. To determine the power requirements for each Maverick MK2 Spot, refer to the label affixed to the product. You can also refer to the <u>Technical Specifications</u> chart in this manual.

The listed current rating indicates the maximum current draw during normal operation. F r more information, you may download Sizing Circuit Breakers from the Chauvet website: <u>www.chauvetprofessional.com</u>.

- Always connect this product to a protected circuit with an appropria e e ectrical ground to avoid the risk of electrocution or fire.
- Never connect this product to a rheostat (variable resistor) or d mmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch
 - To eliminate unnecessary wear and improve its lifespan, durin periods of non-use completely disconnect the product from power via breaker by unplugging it.
- AC Plug The Maverick MK2 Spot comes with a power input cord te m ated with a True 1 compatible connector on one end and an Edison plug on the oth r e d (U.S. market). If the power input cord that came with your product has no plug, or if you 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/Y llow	Green/Yellow	Green

- Fuse 1. Disconnect this product from the power outlet.
- Replacement 2. Using a flat-head screwdriver unscrew the fuse holder cap from the housing.
 - 3. Remove the blown fuse an replace with another fuse of the same type and rating (F 10 A, 250 V).
 - 4. Screw the fuse holder cap back in place and reconnect power.



Make sure to disc nnect the product's power cord before replacing a blown fuse. Always replace the blo fu e with another of the same type and rating.



Mounting Before mounting this product, read and follow the <u>Safety Notes</u>. For our CHAUVET Professional line of mounting clamps, go to <u>http://trusst.com/products/</u>.

Orientation Always mount this product in a safe position and make sure there is adequate room for ventilation, configuration, and maintenance. The Maverick MK2 Spot can be suspended upright or upside down using the 2 Omega brackets included, or it can be placed on its rubber fee on a flat level surface.

Chauvet recommends using the following general guidelines when mounting this product

- When selecting an installation location, consider easy access to this product r operation, programming adjustments, and routine maintenance.
- Make sure to mount this product away from any flammable material as indicat d in the <u>Safety Notes</u>.
- Never mount in places where rain, high humidity, extreme tempera ure changes, or restricted ventilation may affect the product.
- If hanging this product, make sure that the mounting location can s pport the product's weight. See the <u>Technical Specifications</u> for the weight-bearing requirements of this product.
- When hanging this product, always secure to a fasten ng device using a safety cable. For our CHAUVET Professional line of safety cables, to <u>h p://trusst.com/products/</u>.
- When mounting the product on the floor, make sure that the product and cables are away from people and vehicles.
- Place the Maverick MK2 Spot so that it can mov freely without hitting anything or anybody.
- Leave enough slack on the cable to preven tension and pull on the plugs.

Mounting Diagram

Mounting Clamps





Signal Connections

The Maverick MK2 Spot can receive DMX, sACN or Art-Net[™] signals. The Maverick MK2 Spot has 2 etherCON® through ports, and 3- and 5-pin DMX In and Out ports. For more information about DMX, read the DMX primer at:

http://www.chauvetlighting.com/downloads/DMX Primer Rev9 ML WO.pdf

Art-Net™ Connection

Art-Net[™] is an Ethernet protocol that uses TCP/IP, which transfers large amounts of MX512 data using an etherCON® RJ45 connection over a large network. An Art-Net[™] pr tocol document is available from <u>www.chauvetprofessional.com</u>. Art-Net[™] designed by and copyright Artistic Licence Holdings Ltd.



Chauvet Professional recommends using unicast Art-Net[™] for best resu ts.

Also known as ANSI E1.31, streaming ACN is an Ethernet protocol th t uses the layering and formatting of Architecture for Control Networks to transport DMX512 data over TCP/IP or any other ACN compatible network. ACN is maintained by the Prof ssional Lighting and Sound Association (PLASA).





4. OPERATION

The Maverick MK2 Spot 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 n the menu (see Touchscreen Calibration and Touchscreen Lock).

Touchscreen	Button	Function
and Control Panel	< 1 > (<up>)</up>	Navigates upwards through the menu list or increases the ume ic value when in a function
Description	<pre> </pre> (<menu>)</menu>	Exits from the current menu or function
	<	Navigates downwards through the menu list or decreases the numeric value when in a function
	< <_>> (<left>)</left>	Navigates leftwards through the m_nu l_t
	<> (<enter>)</enter>	Enables the currently displayed menu or sets the currently selected value into the selected function
	<>> (<right>)</right>	Navigates rightwar s though the menu list

Menu Map

Main Level	Programming Le els		Description
Address	000-5 2		Network Setting
	Ethernet to DMV	YES	Turn on Art Not to DMX conchility
	Ethernet to DMX	NO	Turn on Art-Net to DMX capability
		Manual	
Notwork Sotup	IP Mode	DHCP	Selection of IP mode (Static IP: 2 243 76 222)
Network Setup		Static	
	Univers	0 ~ 255	Set the Universe
	Ar Netlp	002.243.075.222	IP setting
	SubMask	255.000.000.000	Subnet Mask
Personality		YES	Choose 24 Channels of DMX
	DIMIX 24CH	NO	
	DMX 32CH	YES	Choose 32 Channels of DMX
		NO	
	Control Mode	DMX	
		WDMX	Signal Soluction
	Control Mode	ArtNet	Signal Selection
		SACN	
	Ban Boyorso	YES	Poverse the Ban
Settings	rall Reverse	NO	
	Tilt Povorso	YES	Boverse the Tilt
	The Reverse	NO	
		NO	Maria II. and the Real Annual II.
	Screen Reverse	YES	Manually or automatically reverse the
		AUTO	



Main Level	Progr	rogramming Levels		Description	
	540				
	Pan Angle	360		Change the Pan angle	
		180			
		270			
	Tilt Angle	180		Change the Tilt angle	
		90			
		YES			
	BL. O. P/T Move	NO		Enable/disable XY blackout	
		YES			
	BL. O. Color Move	NO		Enable/disable col r bla kout	
		VES			
	BL. O. Gobo Move	NO		Enable/disab e go o blackout	
		NO YES			
	Calibration	TES		Turn on Calibration	
		NU			
	Touchscreen Lock	YES		L ck the touchscreen	
		NO			
	Lock Screen	YES		Lock the buttons and touchscreen	
		NO		PASSCODE: 0920	
	Swan X/V	YES		Swan the nan and tilt	
	Swap A/1	NO		Swap the pair and the	
	X/V Mede	F st		Demond tilt op and	
	A/T Mode	Slow		-Pan and tilt speed	
		YES			
	WDMX Reset	NO		Reset the wireless DMX	
		305		Set the backlight to turn off automatically after a chosen time	
		1M			
Settings	Backlight Timer	5M			
(Continued)		ON			
		Hold			
	Loss of D ta	Close		Loss of data setting	
		Close			
		Auto			
	Fans	Full		Change the fan speed mode	
		ECO			
		Linear		4	
	Dimmer Curve	Square		Set the dimmer curve	
		I Square)		
		Scurve			
	Dimmer Speed	Smooth	1	Change the dimmer speed	
	Diminer Speed	Fast		Change the diminer speed	
		Pan/Tilt			
		Iris/ Prism	tate YES/NO Reset individual fun		
		Color/CMY + CTO			
	Reset Function	Gobo/Gobo Rotate		Reset individual functions to factory	
	Reset Function Go	Zoom/Frost/			
		Focus			
	1				

Operation



Main Level	Prog	Programming Levels		Description
	Factory Cottings	Y	'ES	Poset all functions to factory
	Factory Settings	1	0/	
		Auto Test		Auto test the product
		Pan	0 ~ 255	
		Pan Fine	0 ~ 255	
		Tilt	0 ~ 255	
		Tilt Fine	0 ~ 255	
		P/T Speed	0 ~ 255	
		Dimmer	0 ~ 255	
		Dimmer Fine	0 ~ 255	
		Shutter	0 ~ 255	
		Virtual Shaking	0 ~ 255	
		Cyan	0 ~ 255	
		Megenta	0 ~ 255	
		Yellow	0 ~ 255	
		СТО	0 ~ 255	
		Color	0 ~ 255	
		Gobo 1	0 ~ 255	
Test		Gobo 1 Index Fine	0 ~ 255	
1051	Manual Test	Gobo 1 Rotate	0 ~ 255	Individually test each function/channel
		Gobo	0 ~ 255	
		Gobo 2 ndex Fine	0 ~ 255	
		Go o 2 Rotate	0 ~ 255	
		Focus	0 ~ 255	
		Focus Fine	0 ~ 255	
		Focus Auto	0 ~ 255	
		Zoom	0 ~ 255	
		Zoom Fine	0 ~ 255	
		Prism	0 ~ 255	
-0	Prism Rotate	0 ~ 255		
		Iris	0 ~ 255	
		Frost	0 ~ 255	
		CMY Macro	0 ~ 255	
		CMY Macro Speed	0 ~ 255	
N.		Special Function	0 ~ 255	



Main Level	Programming Levels			Description
		Ver	V1	Current Version
		Running M	Mode DMX	Current Mode
		DMX Add	ress 001	
	Fixture Information	Temperat	ture 025	Current Temparature
		Fixture Ho	urs 00000	Current active hours
		ArtNetIp002	2.243.075.222	Current IP address
		SubMask	255.000.000.000	Current subnet mask
		MAC 00.0	04.a3.08.00.00	MAC address
		Base Fant Spee	d 2000rpm	View speed e ing
	Fan Information	Head Ean1 Spee	d 2000rpm	View speed setting
		Head Fan2 Spee	d 2000rpm	View speed setting
·	Error Information		200010111	Will appear on screen
		Frequency	 0Hz	
		Pan	0~255	
		Pan Fine	0~255	
		Tilt	0~255	7
		Tilt Fine	0~ 55	
		P/T Speed	0 255	
		Dimmer	0 ~ 255	
		Dimmer Fine	0 ~ 255	
		Shutte	0 ~ 255	
Information		Virtual Shak ng	0 ~ 255	
		yan	0 ~ 255	
		Meg nta	0 ~ 255	
		Yellow	0~255	_
		Сто	0~255	_
		Color	0~255	-
	Channel Information	GODO 1 Coho 1 Index Eine	0~255	
	Channel Information	Gobo 1 Rotato	0~255	
		Gobo 2	0~255	-
		Gobo 2 Index Fine	0~255	-
		Gobo 2 Rotate	0~255	-
		Focus	0~255	-
		Focus Fine	0~255	7
		Focus Auto	0~255	7
	Zoom	0 ~ 255		
	Zoom Fine	0 ~ 255		
		Prism	0 ~ 255	_
		Prism Rotate	0 ~ 255	4
		Iris	0 ~ 255	4
		Frost	0~255	4
		CMY Macro	0~255	4
		CMY Macro Speed	0~255	4
		Special Function	0~255	



Operating Settings Configuration

- Home Screen The Maverick MK2 Spot has a home screen that shows the protocol mode, the IP address or DMX address, the DMX personality, and the current product temperature. To see the home screen, press <MENU> repeatedly until it appears on the display.
- **Start Address** To set the starting address, set the <u>Control Mode</u> and then follow the instructions below:
 - 1. Press <**MENU**> repeatedly until the Home Screen shows on the display. Press <**ENTER**>. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select Start Address, or touch the display
 - where it says Start Address.
 - 3. If using the buttons instead of the touchscreen, press <ENTER>.
 - 4. Enter the starting address (001–512) with one of the following methods
 - Type the address number using the number pad that shows on the ouchscreen display. or
 - Using the buttons (or the button icons on the sides of the disp av)
 - a. Use <LEFT> or <RIGHT> to select the digit to be altered.
 - b. Use **<UP>** or **<DOWN>** to increase or decrease the umber value of that digit.
 - С Repeat until the address is set as desired.
 - 5. Press **<ENTER>**.

Network Setup

The universe of the TCP/IP protocol will be the uni erse of the DMX function.

Ethernet To DMX The Maverick MK2 Spot can convert a single et ernet input signal to a single DMX output signal. To activate or deactivate the Ethernet to DMX function, do the following:

- 1. Press <MENU> repeatedly until the H me Screen shows on the display. Press <ENTER>.
- 2. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select Network Setup, or touch the display where it says Network Setup.
- 3. If using the buttons instead of t e touchscreen, press <ENTER>.
- 4. Use <UP> or <DOWN> to s lect Ethernet to DMX, or touch the display where it says Ethernet to DMX.
- 5. If using the buttons nst ad of the touchscreen, press <ENTER>.
- 6. Use <UP>, <DOWN> <LEFT>, or <RIGHT> to select NO (deactivate) or YES (activate), or touch the disp ay w ere it says the desired setting.
- 7. Press <ENTER
- **IP Mode** The IP address of the Maverick MK2 Spot can be set manually, by the network, or to a pre-set static address spec fic to each product. To set the IP Mode, follow the instructions below:
 - 1. Press MENU> repeatedly until the Home Screen shows on the display. Press <ENTER>.
 - 2. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select Network Setup, or touch the display where it says Network Setup.
 - If using the buttons instead of the touchscreen, press **<ENTER>**. 3.
 - Use <UP> or <DOWN> to select IP Mode, or touch the display where it says IP Mode. 4.
 - 5. If using the buttons instead of the touchscreen, press **<ENTER>**.
 - 6. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select from:
 - Manual (set the IP address with the control panel).
 - **DHCP** (the network sets the IP address),
 - or
 - Static (a pre-set address specific to each product),
 - or touch the display where it says the desired mode.
 - 7. Press **<ENTER>**.



Subnet and The Subnet and universe must be assigned through the product menu. To set the Subnet and Universe Universe do the following:

- 1. Press <MENU> repeatedly until the Home Screen shows on the display. Press <ENTER>.
- Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select Network Setup, or touch the display where it says Network Setup.
- 3. If using the buttons instead of the touchscreen, press **<ENTER>**.
- 4. Use <UP> or <DOWN> to select Subnet and Universe, or touch the display where it says Subnet and Universe.
- 5. If using the buttons instead of the touchscreen, press **<ENTER>**.
- Enter the universe address (0–254 for ArtNet, 0–255 for sACN) with one of the ollowing methods:
 - Type the universe number using the number pad that shows on the ou hscreen display. or
 - Using the buttons (or the button icons on the sides of the disply),
 - a. Use **<LEFT>** or **<RIGHT>** to select the digit to be altered.
 - b. Use **<UP>** or **<DOWN>** to increase or decrease the number value of that digit.
 - c. Repeat until the universe or subnet is set as desired.
- 7. Press <ENTER>.

ArtNet IP Address To set the IP address, do the following:

- 1. Press <**MENU**> repeatedly until the <u>Home Screen</u> show _ n the display. Press <**ENTER**>.
- 2. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to elec Network Setup, or touch the display where it says Network Setup.
- 3. If using the buttons instead of the touchscr en, ress <ENTER>.
- 4. Use **<UP>** or **<DOWN>** to select **ArtNetIP**, r t uch the display where it says **ArtNetIP**.
- 5. If using the buttons instead of the touchsc een, press <ENTER>.
- 6. Set the IP address (from 000.000.000. 00 to 255.255.255.255) with one of the following methods:
 - Through the touchscreen:
 - a. Touch the display wher it shows the byte (set of three numbers) to be changed.
 - b. Use the number pad on the display to enter the desired number.
 - c. Repeat until the I address is set as desired.
 - With the button :
 - a. Use **<LEFT>** o **<RIGHT>** to select the byte (set of three numbers) to be changed).
 - b. Use **<UP>** r **<DOWN>** to increase or decrease the value.
 - c. Repeat til the IP address is set as desired.
- 7. Press <ENTER>.
- Subnet Mask To set the Su net Mask, do the following:
 - 1. Pr ss MENU> repeatedly until the Home Screen shows on the display. Press <ENTER>.
 - 2. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select Network Setup, or touch the display where it says Network Setup.
 - 3. If using the buttons instead of the touchscreen, press <ENTER>.
 - 4. Use **<UP>** or **<DOWN>** to select **SubMask**, or touch the display where it says **SubMask**.
 - 5. If using the buttons instead of the touchscreen, press **<ENTER>**.
 - 6. Set the Subnet Mask (from **000.000.000** to **255.255.255.255**) with one of the following methods.
 - Through the touchscreen:
 - a. Touch the display where it shows the byte (set of three numbers) to be changed.
 - b. Use the number pad on the display to enter the desired number.
 - c. Repeat until the Subnet Mask is set as desired.
 - With the buttons:
 - a. Use **<LEFT>** or **<RIGHT>** to select the byte (set of three numbers) to be changed).
 - b. Use **<UP>** or **<DOWN>** to increase or decrease the value.
 - c. Repeat until the Subnet Mask is set as desired.
 - 7. Press **<ENTER>**.

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



Personality

To set which DMX personality to use, do the following:

- 1. Press <MENU> repeatedly until the Home Screen shows on the display. Press <ENTER>.
- 2. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select Personality, or touch the display where it says Personality.
- 3. If using the buttons instead of the touchscreen, press **<ENTER>**.
- 4. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select DMX 24CH or DMX 32CH, or touc the display where it says the desired option.
- 5. If using the buttons instead of the touchscreen, press **<ENTER>**.
- 6. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select NO (cancel) or YES (nfirm) or touch the display where it says the desired option.
- 7. Press **<ENTER>**.

Settings

To reach the Settings menu, follow the instructions below:

- 1. Press <MENU> repeatedly until the <u>Home Screen</u> shows on the display. Press <ENTER>.
- 2. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select Settings or touch the display where it says Settings.
- 3. If using the buttons instead of the touchscreen, press < NTER>.
- **Control Mode** The Maverick MK2 Spot can be set to respond to DMX WDMX, Art-Net[™] or sACN. The protocol configuration must be set for the product to respond correctly to the controller(s). See the <u>Menu</u> <u>Map</u> for more information.

To configure the protocol for the Maverick MK2 Spo follow the instructions below:

- 1. Navigate to the <u>Settings</u> menu.
- 2. Use <UP> or <DOWN> to select Control Mode, or touch the display where it says Control Mode.
- 3. If using the buttons instead of th t u hscreen, press <ENTER>.
- 4. Use <UP>, <DOWN>, <LEFT>, o RIGHT> to select DMX, WDMX, sACN, ArtNet., or touch the display where it says the desired option.
- 5. Press **<ENTER>**.

For WDMX control, en ure the antenna is raised and there are no obstructions between the controller and the product See <u>WDMX Reset</u> for troubleshooting information.

Pan/Tilt To set whether the pan or tilt orientation is normal or inverted:"

Orientation 1. Navigate t the Se tings menu.

- 2. Use **<UP** or **<DOWN>** to select **Pan Reverse** or **Tilt Reverse**, or touch the display where it says the desired setting.
- 3. If u ing the buttons instead of the touchscreen, press **<ENTER>**.
- 4. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **NO** (normal orientation) or **YES** (inverted orientation), or touch the display where it says the desired option.
- 5 Press **<ENTER>**.
- **Display** To set which way the display faces, do the following:

Orientation 1. Navigate to the **<u>Settings</u>** menu.

- 2. Use <UP> or <DOWN> to select Screen Reverse, or touch the display where it says Screen Reverse.
- 3. If using the buttons instead of the touchscreen, press <ENTER>.
- Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select NO (display is normal), YES (display is inverted), or AUTO (the display automatically detects which way the product is facing and orients itself accordingly), or touch the display where it says the desired option.
- 5. Press <ENTER>.



Pan/Tilt Angle To set the range of motion the pan or tilt is permitted:

- Range 1. Navigate to the <u>Settings</u> menu.
 - 2. Use <UP> or <DOWN> to select Pan Angle or Tilt Angle, or touch the display where it says the desired setting.
 - 3. If using the buttons instead of the touchscreen, press <ENTER>.
 - Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select 540 (540°), 360 or 270 (360° or 270 for pan or tilt respectively), 180 (180°), or 90 (90°) or touch the display where it says the de ired option.
 - 5. Press **<ENTER>**.
- Blackout on To set whether the product will black out during pan or tilt movement, follow the instr ctions below: Pan/Tilt 1. Navigate to the <u>Settings</u> menu.
 - Movement 2. Use <UP> or <DOWN> to select BL. O. P/T Move, or touch the display where it says BL. O. P/T Move.
 - 3. If using the buttons instead of the touchscreen, press **<ENTER>**.
 - 4. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **NO** (do not lack out) or **YES** (black out during movement), or touch the display where it says the desired option.
 - 5. Press **<ENTER>**.

Blackout on Color To set whether the product will black out during color movement follow the instructions below:

- Movement 1. Navigate to the <u>Settings</u> menu.
 - 2. Use <UP> or <DOWN> to select BL. O. Color Move, o t uch the display where it says BL. O. Color Move.
 - 3. If using the buttons instead of the touchscree pr s **<ENTER>**.
 - Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to elect NO (do not black out) or YES (black out during movement), or touch the display whe e it says the desired option.
 - 5. Press **<ENTER>**.

Blackout on Gobo To set whether the product will black out du ing gobo movement, follow the instructions below:

Movement 1. Navigate to the Settings menu.

- 2. Use <UP> or <DOWN> to select BL O. Gobo Move, or touch the display where it says BL. O. Gobo Move.
- 3. If using the buttons inst ad o the touchscreen, press <ENTER>.
- 4. Use <UP>, <DOWN> <LEFT>, or <RIGHT> to select NO (do not black out) or YES (black out during movement), or to ch the display where it says the desired option.
- 5. Press <ENTER>

Touchscreen If the touchsc een s no responding correctly, it may need to be calibrated. To do so:

- Calibration 1. Navigate to he Settings menu.
 - 2. Use **<UP>** or **<DOWN>** to select **Calibration**, or touch the display where it says **Calibration**.
 - 3. If using th buttons instead of the touchscreen, press <ENTER>.
 - 4. Use <U >, <DOWN>, <LEFT>, or <RIGHT> to select NO (do not calibrate) or YES (calibrate), or touch the display where it says the desired option.
 - 5 Pr ss **<ENTER>**.
 - 6. Follow the instructions, touching the points as they appear on the display.

Touchscreen Lock To lock or unlock the touchscreen control panel, do the following:

- 1. Navigate to the <u>Settings</u> menu.
- 2. Use <UP> or <DOWN> to select Touchscreen Lock, or touch the display where it says Touchscreen Lock.
- 3. If using the buttons instead of the touchscreen, press **<ENTER>**.
- 4. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select NO (display will respond to touch) or YES (display will not respond to touch), or touch the display on the desired option.
- 5. Press **<ENTER>**.



Lock the Screen To lock the touchscreen control panel and menu buttons, do the following:

- 1. Navigate to the <u>Settings</u> menu.
- 2. Use <UP> or <DOWN> to select Lock Screen, or touch the display where it says Lock Screen.
- 3. If using the buttons instead of the touchscreen, press <ENTER>.
- 4. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select NO (display will respond to touch or buttons) or YES (display will not respond to touch or buttons), or touch the display where says the desired option.
- 5. Press **<ENTER>**.

To unlock the touchscreen and menu buttons, do the following:

- 1. Touch the display touchscreen anywhere or push any menu button.
- 2. Enter the passcode (0920) using the touchscreen or buttons.
- Swap Pan and Tilt To switch the pan and tilt functions so that what normally controls the pan con rols the tilt and what normally controls the tilt controls the pan, follow the instructions below
 - 1. Navigate to the <u>Settings</u> menu.
 - 2. Use <UP> or <DOWN> to select Swap XY, or touch the display where it says Swap XY.
 - 3. If using the buttons instead of the touchscreen, press <ENTE >.
 - 4. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **NO** (normal pan and tilt) or **YES** (pan controls tilt, tilt controls pan), or touch the display where it says the desired option.
 - 5. Press **<ENTER>**.

Pan/Tilt Speed To set the maximum speed of the pan and tilt:

- 1. Navigate to the <u>Settings</u> menu.
- 2. Use **<UP>** or **<DOWN>** to select **XY Mode** or uch the display where it says **XY Mode**.
- 3. If using the buttons instead of the touchscr en press <ENTER>.
- 4. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select Slow or Fast, or touch the display where it says the desired option.
- 5. Press **<ENTER>**.

WDMX Reset To reset the WDMX connection f om he Maverick MK2 Spot, do the following:

- 1. Navigate to the **Settings** menu
- 2. Use <UP> or <DOWN> to s lect WDMX Reset, or touch the display where it says WDMX Reset.
- 3. If using the buttons inst ad of the touchscreen, press <ENTER>.
- 4. Use <UP>, <DOWN> <LEFT>, or <RIGHT> to select NO (do not reset connection) or YES (reset the connect n), or touch the display where it says the desired option.
- 5. Press <EN ER>.
- Backlight Timer To set the mount of time after inactivity before the display backlight turns off:
 - 1. Navigate o the <u>Settings</u> menu.
 - Use <UP> or <DOWN> to select Backlight Timer, or touch the display where it says Backlight Tim r
 - 3 If sing the buttons instead of the touchscreen, press **<ENTER>**.
 - Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select 30S (after 30 seconds of inactivity), 1M (after 1 minute of inactivity), 5M (after 5 minutes of inactivity), or 30M (after 30 minutes of inactivity), or touch the display where it says the desired option.
 - 5. Press **<ENTER>**.

Loss of Data In case of an input signal being lost in any way, the Maverick MK2 Spot will respond in one of two ways. The product will either hold the last signal received, or black out all LED output. To set which way the product responds, follow the instructions below:

- 1. Navigate to the <u>Settings</u> menu.
- 2. Use **UP**> or **DOWN**> to select Loss of Data, or touch the display where it says Loss of Data.
- 3. If using the buttons instead of the touchscreen, press <ENTER>.
- 4. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **Hold** (hold last signal received) or **Close** (black out all LED output), or touch the display where it says the desired option.
- 5. Press **<ENTER>**.



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

- 1. Navigate to the <u>Settings</u> menu.
- 2. Use **<UP>** or **<DOWN>** to select **Fans**, or touch the display where it says **Fans**.
- 3. If using the buttons instead of the touchscreen, press **<ENTER>**.
- 4. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select Auto (fan speed set according to prod ct temperature), Full (maximum speed), or ECO (quiet fans mode), or touch the display whe e it says the desired option.
- 5. Press **<ENTER>**.

Dimmer Curve To set the dimmer curve, follow the instructions below:

- 1. Navigate to the **<u>Settings</u>** menu.
- 2. Use <UP> or <DOWN> to select Dimmer Curve, or touch the display where t says Dimmer Curve.
- 3. If using the buttons instead of the touchscreen, press <ENTER>.
- 4. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select Linear, Square I Squa, or SCurve, or touch the display where it says the desired option.
- 5. Press **<ENTER>**.
- Dimmer Speed To set the dimmer speed, do the following:
 - 1. Navigate to the <u>Settings</u> menu.
 - 2. Use <UP> or <DOWN> to select Dimmer Speed, or to ch the display where it says Dimmer Speed.
 - 3. If using the buttons instead of the touchscreen, ress <ENTER>.
 - 4. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to s lect Smooth or Fast, or touch the display where it says the desired option.
 - 5. Press <ENTER>.

Reset Functions To reset the pan, tilt, or all functions as if rom startup:

- 1. Navigate to the Settings menu.
- 2. Use <UP> or <DOWN> to selec Reset Function, or touch the display where it says Reset Function.
- 3. If using the buttons instead of t e touchscreen, press <ENTER>.
- Use <UP> or <DOWN> to s lect the function to reset, from Pan/Tilt, Iris/Prism, Color/CMY+CTO, Gobo/Gobo Rotate, Zoom/Frost/Focus or All, or touch the display where it says the desired o tion
- 5. If using the butt s in tead of the touchscreen, press <ENTER>.
- 6. Use <UP> <DOWN>, <LEFT>, or <RIGHT> to select from NO (do not reset) or YES (reset), or touch the d play where it says the desired option.
- 7. Press **<ENTER>**.

Factory Reset To restore th Maverick MK2 Spot to factory default settings, do the following:

- 1. N viga e to the **Settings** menu.
- 2. Use <UP> or <DOWN> to select Factory Settings, or touch the display where it says Factory Settings.
- 3. If using the buttons instead of the touchscreen, press **<ENTER>**.
- 4 Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **NO** (do not reset) or **YES** (reset to factory settings), or touch the display where it says the desired option.
- 5. Press **<ENTER>**.



Test Mode

Auto Test To perform an auto test of the Maverick MK2 Spot functions, follow the instructions below:

- 1. Press <MENU> repeatedly until the Home Screen shows on the display. Press <ENTER>.
 - Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select Test, or touch the display where it says Test.
 - 3. If using the buttons instead of the touchscreen, press **<ENTER>**.
 - 4. Use <UP> or <DOWN> to select Auto test, or touch the display where it says Auto test.
 - 5. Press **<ENTER>**.

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

- 1. Press <**MENU**> repeatedly until the <u>Home Screen</u> shows on the display. Pre s <**ENTER**>.
- 2. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select Test, or touch the display where it says Test.
- 3. If using the buttons instead of the touchscreen, press **<ENTER>**.
- 4. Use <**UP**> or <**DOWN**> to select **Manual test**, or touch the display whe e it says **Manual test**.
- 5. If using the buttons instead of the touchscreen, press <ENTER>.
- 6. Use <UP> or <DOWN> to select the function to test, from P Pa Fine, Tilt, Tilt Fine, P/S Speed, Dimmer, Dimmer Fine, Shutter, Virtual Shaking Cy, Magenta, Yellow, CTO, Color, Gobo, Gobo Rotate, Gobo 2, Gobo 2 Rotate ocu Focus Fine, Focus Auto, Zoom, Zoom Fine, Prism, Prism Rotate, Iris, Frost, CMY Macro CMY Macro Speed, or Special Function, or touch the display where it says the esired unction.
- 7. If using the buttons instead of the touchscre n, p ess <ENTER>.
- 8. Change the value of the tested function with o e of the following methods:
 - Type the desired value using the number pad that shows on the touchscreen display. or
 - Use **<UP>**, **<RIGHT>**, **<DOWN>**, r **<LEFT>** to increase or decrease the value.
- 9. Press <ENTER>.

System Information

All information about the cur ent status of the Maverick MK2 Spot is available through the product's **Sys Info** menu. To view this information, follow the instructions below:

- 1. Press <MENU> repeatedly until the Home Screen shows on the display. Press <ENTER>.
- 2. Use <UP>, <DOWN>, <LEFT>, or <RIGHT> to select Information, or touch the display where it says Informat on.
- 3. If using th bu on instead of the touchscreen, press <ENTER>.
- 4. Use <UP> or <DOWN> to select from Fixture Information (shows firmware version, running mode, s arting address, etc.), Fan Information (shows speed of the head fans in rpm), Error Information (shows any errors or No Error!), or Channel Information (shows the current value of all s gnal input channels) or touch the display where it says the desired option.
- 5 Press **<ENTER>**.
- 6 U e **<UP>** or **<DOWN>** to scroll through the information.



Offset Mode	The Offset mode provides fine adjustments for the home position of all the moving parts in the
	moving parts do not show any border or reduce the light output.
	1. Starting from the Main Level screen, press and hold <menu> until the passcode screen</menu>
	appears.
	2. Enter the passcode 2323 using one of the following methods:
	With the buttops:
	d. Use <down></down> to select the number to be changed.
	e. Use <up></up> to increase the value.
	f. Repeat until 2323 has been entered.
	3. Press <enter></enter> .
DAN	1 his brings you into the Zero Adjust menu screen.
PAN	1. Use $\langle UF \rangle$ of $\langle DUWN \rangle$ to select PAN. 2. Press $\langle FNTFR \rangle$
	3. Use <up></up> or <down></down> to increase or decrease the starting value, from 000–255 .
	4. Press <enter>.</enter>
TILT	1. Use <up> or <down> to select TILT.</down></up>
	2. Press <enter></enter> .
	3. Use <up> or <down> to increase or decrease the sta ting value, from 000-255.</down></up>
COLOR	1 Use <up> or <down> to select COLOR</down></up>
OOLON	2. Press <enter></enter> .
	3. Use <up> or <down> to increase or decr ase the starting value, from 000-255.</down></up>
	4. Press <enter>.</enter>
GOBO	1. Use <up> or <down> to select GOBO.</down></up>
	 Press <enter>.</enter> Use <up> or <down> to increase or decrease the starting value from 000_255.</down></up>
	4. Press <enter>.</enter>
GOBO ROTATE	1. Use <up> or <down> to s lect GOBO ROTATE.</down></up>
	2. Press <enter></enter> .
	3. Use <up></up> or <down< b=""> o increase or decrease the starting value, from 000–255.</down<>
	4. Press <enter></enter>
GOBO 2	1. Use $\langle \mathbf{OF} \rangle$ of $\mathbf{DOWN} > 10$ select $\mathbf{GOBO} \mathbf{Z}$. 2. Press $\langle \mathbf{FN} \mathbf{FR} \rangle$
	3. Use <up></up> or DOWN> to increase or decrease the starting value, from 000–255 .
	4. Press <enter>.</enter>
GOBO 2 ROTATE	1. Use <up> or <down> to select GOBO 2 ROTATE.</down></up>
	2. Press <enter>.</enter>
	4 Press < ENTER >
FOCU 1	1 Use <up> or <down> to select FOCUS 1.</down></up>
	2. Press <enter></enter> .
	Use <up> or <down> to increase or decrease the starting value, from 000–255.</down></up>
	4. Press <enter></enter> .
FOCUS 2	1. Use <up> or <down> to select FOCUS 2.</down></up>
	 Use <up> or <down> to increase or decrease the starting value from 000–255</down></up>
	4. Press <enter></enter> .
FOCUS GOBO 2	 Use <up> or <down> to select FOCUS GOBO 2.</down></up>
	2. Press <enter></enter> .
	 Use <up> or <duwn> to increase or decrease the starting value, from 000-255.</duwn></up> Pross <entep></entep>
	T. 11500 NENTENZ.



ZOOM 1. Use <up> or <down> to</down></up>	select ZOOM.
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- 2. Press <ENTER>.
- 3. Use **<UP>** or **<DOWN>** to increase or decrease the starting value, from **000–255**.
- 4. Press **<ENTER>**.
- **PRISM** 1. Use **<UP>** or **<DOWN>** to select **PRISM**.
 - 2. Press **<ENTER>**.
 - 3. Use **<UP>** or **<DOWN>** to increase or decrease the starting value, from **000–255**.
 - 4. Press <ENTER>.
 - **IRIS** 1. Use **<UP>** or **<DOWN>** to select **IRIS**.
 - 2. Press <ENTER>.
 - 3. Use <UP> or <DOWN> to increase or decrease the starting value, from 000-255.
 - 4. Press <ENTER>.
- **FROST** 1. Use **<UP>** or **<DOWN>** to select **FROST**.
 - 2. Press **<ENTER>**.
 - 3. Use <UP> or <DOWN> to increase or decrease the starting value, from 000-255.
 - 4. Press **<ENTER>**.
- CYAN 1. Use <UP> or <DOWN> to select CYAN.
 - 2. Press **<ENTER>**.
 - 3. Use <UP> or <DOWN> to increase or decrease the sta ting value, from 000-255.
 - 4. Press **<ENTER>**.
- **MAGENTA** 1. Use **<UP>** or **<DOWN>** to select **MAGENTA**.
 - 2. Press **<ENTER>**.
 - 3. Use <UP> or <DOWN> to increase or dec eas the starting value, from 000-255.
 - 4. Press **<ENTER>**.
 - YELLOW 1. Use <UP> or <DOWN> to select YELLOW
 - 2. Press **<ENTER>**.
 - 3. Use <UP> or <DOWN> to incre se or decrease the starting value, from 000-255.
 - 4. Press **<ENTER>**.
 - CTO 1. Use <UP> or <DOWN> to elec CTO.
 - Press <ENTER>.
 - 3. Use <UP> or <DOWN> to increase or decrease the starting value, from 000-255.
 - 4. Press **<ENTER>**.
 - **DIMMER** 1. Use **<UP>** or **<DOWN** to select **DIMMER**.
 - Press <ENTER>.
 - 3. Use <UP> <DOWN> to increase or decrease the starting value, from 000–255.
 - 4. Press <ENTER>.
- LED POWER 1. Use <UP or <DOWN> to select LED POWER.
 - 2. Press <ENTER>.
 - Use <UP> or <DOWN> to increase or decrease the starting value, from 000–255.
 P ess <ENTER>.
 - MAC4 1. Use <UP> or <DOWN> to select MAC4.
 - 2 Press **<ENTER>**.
 - 3. Use <UP> or <DOWN> to increase or decrease the starting value, from 000-255.
 - 4. Press **<ENTER>**.
 - MAC5 1. Use <UP> or <DOWN> to select MAC5.
 - 2. Press **<ENTER>**.
 - 3. Use <UP> or <DOWN> to increase or decrease the starting value, from 000-255.
 - 4. Press **<ENTER>**.
 - MAC6 1. Use <UP> or <DOWN> to select MAC6.
 - 2. Press **<ENTER>**.
 - 3. Use **<UP>** or **<DOWN>** to increase or decrease the starting value, from **000–255**.
 - 4. Press **<ENTER>**.

DMX Values

32CH	CH Channel Function Value Percent/Settings		Percent/Settings	
	1 Pan		000⇔255	0–100%
-	2	Fine Pan	000⇔255	0–100%
-	3	Tilt	000⇔255	0–100%
-	4	Fine Tilt	000⇔255	0–100%
-	5	Pan/Tilt Speed	000⇔255	0–100%
-	6	Dimmer	000⇔255	0–100%
-	7	Fine Dimmer	000⇔255	0–100%
-	8 Shutter		000⇔003 004⇔007 008⇔076 077⇔145 146⇔215 216⇔255	Closed Open Slow to fast Pulse effect from slow to fat Random effect from slow to fast Open
	9	Virtual Shutter	000⇔001 002⇔128 129⇔255	No function Shaking strobe slow to fast Fade in/out, slow o fast
-	10	Cyan	000⇔255	0 100%
-	11	Magenta	000⇔255	0- 0%
-	12	Yellow	000⇔255	0–100%
-	13	сто	000⇔255	0–100%
	14	Color Wheel	$000 \Leftrightarrow 0 \ 6$ $0 \ 7 \Leftrightarrow 013$ $0 \ 4 \Leftrightarrow 20$ $021 \Leftrightarrow 027$ $028 \Leftrightarrow 034$ $035 \Leftrightarrow 041$ $042 \Leftrightarrow 047$ $048 \Leftrightarrow 059$ $060 \Leftrightarrow 187$ $188 \Leftrightarrow 219$ $220 \Leftrightarrow 223$ $224 \Leftrightarrow 255$	Open Red Orange Green Blue Magenta Yellow UV Split colors Clockwise color scroll, fast to slow Stop Counter-clockwise color scroll, slow to fast
	15	Gobo Wheel 1 [Gobo Designs]	$\begin{array}{c} 000 \Leftrightarrow 008 \\ 009 \Leftrightarrow 017 \\ 018 \Leftrightarrow 026 \\ 027 \Leftrightarrow 035 \\ 036 \Leftrightarrow 044 \\ 045 \Leftrightarrow 053 \\ 054 \Leftrightarrow 063 \\ 054 \Leftrightarrow 063 \\ 064 \Leftrightarrow 073 \\ 074 \Leftrightarrow 082 \\ 083 \Leftrightarrow 091 \\ 092 \Leftrightarrow 100 \\ 101 \Leftrightarrow 109 \\ 110 \Leftrightarrow 118 \\ 119 \Leftrightarrow 127 \\ 128 \Leftrightarrow 191 \\ 192 \Leftrightarrow 255 \end{array}$	Open Gobo 1 (circuits) Gobo 2 (ring of rings) Gobo 3 (checker vortex) Gobo 4 (triangle) Gobo 5 (star field) Gobo 6 (lenticular glass) Gobo 6 Shaking Gobo 5 Shaking Gobo 3 Shaking Gobo 3 Shaking Gobo 1 Shaking Open Clockwise gobo scroll, fast to slow Counter-clockwise gobo scroll, slow to fast
	16	Gobo Rotating 1	000⇔063 064⇔145 146⇔149 150⇔231 232⇔255	Rotating Gobo Index Clockwise rotating, fast to slow Stop Counter-clockwise rotating, slow to fast Bounce effect



32CH	Channel	Function	Value	Percent/Settings		
	17	Gobo Wheel 1 Index Fine	<mark>000⇔255</mark>	0–100%		
	18	Gobo Wheel 2 [Gobo Designs]	000⇔008 Open 009⇔017 Gobo 1 (spiral) 018⇔026 Gobo 2 (dot chiclets) 027⇔035 Gobo 3 (splat breakup) 036⇔044 Gobo 4 (wavy bar) 045⇔053 Gobo 5 (shower glass) 054⇔063 Gobo 6 (lenticular glass) 064⇔073 Gobo 6 Shaking 074⇔082 Gobo 5 Shaking 083⇔091 Gobo 4 Shaking 092⇔100 Gobo 3 Shaking 101⇔118 Gobo 1 Shaking 110⇔118 Gobo 1 Shaking 119⇔127 Open 128⇔191 Clockwise gobo scr 102⇔255 Counter-clockwis gob scroll, slow to fast			
	19	Gobo Rotating 2	000⇔063 064⇔145 146⇔149 150⇔231 232⇔255	Rotating Gobo nde Clockwise rota ng fast to slow Stop Count r-clo kwise rotating, slow to fast Bou ce fect		
	20	Gobo Wheel 2 Index Fine	000⇔255	0 100%		
-	21	Focus	000⇔ 55	0–100%		
	22	Fine Focus	000⇔255	0–100%		
-	23	Auto Focus	$\begin{array}{c} 0 \ 0 \Leftrightarrow 010 \\ 011 \Leftrightarrow 030 \\ 031 \Leftrightarrow 050 \\ 051 \Leftrightarrow 070 \\ 091 \Leftrightarrow 110 \\ 111 \Leftrightarrow 130 \\ 131 \Leftrightarrow 150 \\ 151 \Leftrightarrow 170 \\ 171 \Leftrightarrow 190 \\ 191 \Leftrightarrow 210 \\ 211 \Leftrightarrow 255 \end{array}$	No Function 0-5m 6m 7m 8m 9m 10m 12.5m 15m 15m 17.5m 20-60m Auto-detect distance		
-	24	Zoom	000⇔255	0–100%		
-	25	Fine Zoom	000⇔255	0–100%		
	26	Prism	000⇔004 005⇔255	No Function Prism Effect		
5	27	Prism Rotate	000⇔127 128⇔189 190⇔193 194⇔255	Rotating position Clockwise rotating, slow to fast Stop Counter-clockwise rotating, fast to slow		
	28	Iris	000⇔063 064⇔127 128⇔191 192⇔255	Big to small Auto change, slow to fast Slow zoom in, fast zoom out (slow to fast) Slow zoom out, fast zoom in (slow to fast)		
-	29	Frost	000⇔255	0–100%		
	30	CMY Macro	000⇔009 010⇔255	No function CMY macro		
-	31	CMY Macro Speed	000⇔255	fast to slow		



32CH	Channel	Function	Value	Percent/Settings
-			000⇔007	No function
			008⇔015	XY blackout
			016⇔023	C blackout
			024⇔031	G blackout
			032⇔039	XYC blackout
			040⇔047	XYG blackout
			048⇔055	XYCG blackout
			056⇔095	no function
			096⇔103	X reset
			104⇔111	Y reset
			112⇔119	Color reset
			120⇔127	Gobo & gobo rotating reset
			128⇔135	no function
			136⇔143	Prism reset
			144⇔151	Focus reset
	32	Control	152⇔159	All reset
			160⇔167	Iris reset
			168⇔175	Frost reset
			176⇔183	Zoom reset
			184⇔191	CMY+CTO res t
			192⇔199	Fan low speed
			200⇔207	
			206⇔215	ra au o
			216 - 220	s Fast mode
			221-220	Iris Smooth mode
			220 - 230	INS SHOOLI HOUE
			231 - 235	XY swap off
			241 3245	Ino function
			2 6 3 2 50	XV smooth mode
			251 0 255	XV faet mode
			2017/200	A Lidat Houe

24CH	Channel	Function	Value	Percent/Settings
	1	Pan	000⇔255	0–100%
_	2	Fine Pan	000⇔255	0–100%
	3	Tilt	000⇔255	0–100%
	4	Fi e Tilt	000⇔255	0–100%
	5	an/ ilt Speed	000⇔255	0–100%
	6	Dimmer	000⇔255	0–100%
	7	Shutter	000⇔003 004⇔007 008⇔076 077⇔145 146⇔215 216⇔255	Closed Open Slow to fast Pulse effect from slow to fast Random effect from slow to fast Open
	8	Virtual Shutter	000⇔001 002⇔128 129⇔255	No function Shaking strobe, slow to fast Fade in/out, slow to fast
	9	Cyan	000⇔255	0–100%
	10	Magenta	000⇔255	0–100%
_	11	Yellow	000⇔255	0–100%
-	12	сто	000⇔255	0–100%



24CH	Channel	Function	Value	Percent/Settings
	13	Color Wheel	$000 \Leftrightarrow 006$ $007 \Leftrightarrow 013$ $014 \Leftrightarrow 020$ $021 \Leftrightarrow 027$ $028 \Leftrightarrow 034$ $035 \Leftrightarrow 041$ $042 \Leftrightarrow 047$ $048 \Leftrightarrow 059$ $060 \Leftrightarrow 187$ $188 \Leftrightarrow 219$ $220 \Leftrightarrow 223$ $224 \Leftrightarrow 255$	Open Red Orange Green Blue Magenta Yellow UV Split colors Clockwise color scroll, fast to slow Stop Counter-clockwise color scroll, sl w t fast
-	14	Gobo Wheel 1 [Gobo Designs]	$\begin{array}{c} 000 \Leftrightarrow 008 \\ 009 \Leftrightarrow 017 \\ 018 \Leftrightarrow 026 \\ 027 \Leftrightarrow 035 \\ 036 \Leftrightarrow 044 \\ 045 \Leftrightarrow 053 \\ 054 \Leftrightarrow 063 \\ 054 \Leftrightarrow 063 \\ 074 \Leftrightarrow 082 \\ 083 \Leftrightarrow 091 \\ 092 \Leftrightarrow 100 \\ 101 \Leftrightarrow 109 \\ 110 \Leftrightarrow 118 \\ 119 \Leftrightarrow 127 \\ 128 \Leftrightarrow 91 \\ 192 \Leftrightarrow 25 \end{array}$	Open Gobo 1 (circuits) Gobo 2 (ring of rings) Gobo 3 (checker vortex) Gobo 4 (triangle) Gobo 5 (star field Gobo 6 (lentic lar g ass) Gobo 6 Shakin Gobo 5 Shakin Gobo 5 Shakin Gobo 2 Shaking Gobo 2 Shaking obo 1 Shaking Open Clockwise gobo scroll, fast to slow Counter-clockwise gobo scroll, slow to fast
	15	Gobo Rotating 1	000⇔ 63 064⇔145 146⇔149 150⇔231 232⇔255	Rotating Gobo Index Clockwise rotating, fast to slow Stop Counter-clockwise rotating, slow to fast Bounce effect
	16	Go o Wheel 2 [Gobo Designs]	$\begin{array}{c} 000 \Leftrightarrow 008 \\ 009 \Leftrightarrow 017 \\ 018 \Leftrightarrow 026 \\ 027 \Leftrightarrow 035 \\ 036 \Leftrightarrow 044 \\ 045 \Leftrightarrow 053 \\ 054 \Leftrightarrow 063 \\ 064 \Leftrightarrow 073 \\ 074 \Leftrightarrow 082 \\ 083 \Leftrightarrow 091 \\ 092 \Leftrightarrow 100 \\ 101 \Leftrightarrow 109 \\ 110 \Leftrightarrow 118 \\ 119 \Leftrightarrow 127 \\ 128 \Leftrightarrow 191 \\ 192 \Leftrightarrow 255 \end{array}$	Open Gobo 1 (spiral) Gobo 2 (dot chiclets) Gobo 3 (splat breakup) Gobo 4 (wavy bar) Gobo 5 (shower glass) Gobo 6 (lenticular glass) Gobo 6 Shaking Gobo 6 Shaking Gobo 5 Shaking Gobo 3 Shaking Gobo 3 Shaking Gobo 1 Shaking Open Clockwise gobo scroll, fast to slow Counter-clockwise gobo scroll, slow to fast
	17	Gobo Rotating 2	000⇔063 064⇔145 146⇔149 150⇔231 232⇔255	Rotating Gobo Index Clockwise rotating, fast to slow Stop Counter-clockwise rotating, slow to fast Bounce effect
	18	Focus	000⇔255	0–100%
-	19	Zoom	000⇔255	0–100%
-	20	Prism	000⇔004 005⇔255	No function Prism effect

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24CH	Channel	Function	Value	Percent/Settings
	21	Prism Rotate	000⇔127 128⇔189 190⇔193 194⇔255	Rotating position Clockwise rotating, slow to fast Stop Counter-clockwise rotating, fast to slow
	22	Iris	000⇔063 064⇔127 128⇔191 192⇔255	Big to small Auto change, slow to fast Slow zoom in, fast zoom out (slow to fast) Slow zoom out, fast zoom in (slow to fast)
	23	Frost	<mark>000⇔255</mark>	0–100%
	24	Control	$\begin{array}{c} 000 \div 007 \\ 008 \div 015 \\ 016 \div 023 \\ 024 \div 031 \\ 032 \div 039 \\ 040 \div 047 \\ 048 \div 055 \\ 056 \div 095 \\ 096 \div 103 \\ 104 \div 111 \\ 112 \div 119 \\ 120 \div 127 \\ 128 \div 135 \\ 136 \div 143 \\ 144 \div 151 \\ 152 \div 159 \\ 160 \div 167 \\ 168 \div 175 \\ 1 6 \div 183 \\ 1 4 \div 191 \\ 192 \div 199 \\ 200 \div 207 \\ 208 \div 215 \\ 216 \div 220 \\ 221 \div 225 \\ 226 \div 230 \\ 231 \div 235 \\ 236 \div 240 \\ 241 \div 245 \\ 246 \div 250 \\ 251 \div 255 \\ \end{array}$	No function XY blackout C blackout XYC blackout XYC blackout XYC blackout xYCG blackout no function X reset Color reset Color reset Color reset Color reset Color reset Color reset Color reset Color reset cocus eset Al set is reset Frost reset Zoom reset CMY+CTO reset Fan low speed Fan auto no function Iris Fast mode Iris Smooth mode XY swap off no function XY smooth mode XY fast mode



Gobo Designs



Color Wheel





Gobo Replacement The gobos in both gobo wheels 1 and 2 are removable from their gobo holders. This operation is quite simple, although it requires the technician to be careful and to 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.
- Use only glass gobos when using custom gobos in gobo wheel 2.
- 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 4 Phillips-head ¼-turn screws n th sides of the top cover.
 - Separate the gobo holder away from the gobo wheel by pushing it tow rd 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 hold the obo in place and remove the gobo from the gobo holder.
 - 6. Insert a new gobo and hold it in place with the expa sion ring.
 - 7. Slide the tip of the gobo holder under the press re p ate 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 itself into the gobo wheel slot.





5. FIRMWARE UPDATE

The following steps apply to the Windows® 7 operating system:

Step 1
 Connect the Maverick MK1 Hybrid to a computer with an ethernet cable.
 Verify the network with the Maverick MK1 Hybrid is connected to the computer.



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Currently connected to:

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local.chauvetlighting.com Internet access Unidentified network No network access

Open Network and Sharing Center

- Step 2 1. Set the control protocol on the Maverick MK1 Hybrid to ArtNet in Single Control mode. (See Single Control Protocol)
 - 2. Set the IP Mode to Static. (See IP Mode)
- Step 3 On the computer, open the Network and Sharing Center (through the Start Menu, the Control Panel or the Network icon on the right side of the Taskbar)

Step 4 Select the network that the product is connected to by clicking the blue text that orresponds to that network on the right side of the window.



Change your networking settings



Step 5 Click Properties on the Status window that pops up.	General		
	Connection IPv4 Connectivity: No network access		
	IPv6 Connectivity: No network access		
	Media State: Enabled		
	Duration: 00:22:19		
	Speed: 1.0 Gbps		
	Details		
	Activity		
	Sent — Received		
	Packets: 373 0		
	Properties Disable Diagnose		
	Close		
Step 6 On the Properties window:	Married Tax		
Step 0 On the Properties window.	Networking Sharing		
1. Click on Internet Protocol Version 4 (ICP/IPV4)	Connect using:		
to select it.	ASIX AX88179 USB 3.0 to Gigabit Ethemet Adapter #2		
2. Click Properties.			
	Configure		
	This connection uses the following items:		
	Client for Microsoft Networks		
	QoS Packet Scheduler		
	File and Printer Sharing for Microsoft Networks		
	Internet Protocol Version 6 (TCP/IPv6)		
	 Link-Layer Topology Discovery Responder 		
	Install Uninstall Properties		
	Transmission Control Protocol/Internet Protocol. The default		
	wide area network protocol that provides communication		
	across giverse interconnected networks.		
	OK Cancel		
Step 7 On the TCP IPv4 Properties window:	Convert		
1 Select lise the following ID address:			
2. Type 2.255.0.0 into the ID address her	You can get IP settings assigned automatically if your network supports		
2. Type 2.255.0.0 Into the IP address bar.	for the appropriate IP settings.		
3. Pr s <tab> on your keyboard. The Subnet</tab>			
mask bar should automatically populate as	Obtain an IP address automatically		
255.0.0.0. If not, then enter it manually.	Use the following IP address:		
4 Ignore the Default gateway bar.	IP address: 2 . 255 . 0 . 0		
	Subnet mask: 255 . 0 . 0 . 0		
	Default cateway:		
	Derivar gatemay.		



Step 8	 View the Home Screen on the Maverick MK1 Hybrid. (see <u>Home Screen</u>) Open the internet browser on the computer. Enter the IP address from the Maverick MK1 Hybrid display into the URL bar of the internet browser. (For example, if the display of the product reads 2.11.0.1, enter 2.11.0.1 into the URL bar of the internet browser.) 	Connect To Server \times
Step 9	 On the Welcome screen: 8. Enter admin as both the User Name and Password. No capital letters. 9. Press Log In on the screen, or <enter> on the keyboard.</enter> If the user name and password do not work, reset the product to factory defaults. (see Factory Reset) 	Welcome UserName: admin Password: ••••• Login Reset
Step 10	On the page that appears, click Upgrade .	MAVERICK MK2 WASH Version: 010 ID: 14909440 Infomation Setup Manual Test Upgrade Security
Step 11	Find the latest Firmware Upgrade on the website at <u>https://www.chauvetprofessional.com/products/maveri</u> <u>ck-mk2-wash</u> under DOWNLOADS .	AT A GLANCE SPECIFICATIONS DOWNLOADS GALLERY RELATED ARTICL
Step 12	 Click Choose File on the Maverick MK1 Hybrid Upgrade page. In the File Explorer window that pops up, s ec the Firmware Upgrade file from the webs e and click Open. Click Upload File. A Downloading message will appear on the product's display. Once the product finishes installing the firmware, it will reset. Do NOT turn the product off uring this process. 	Firmware Upgrade Please select a firmware file. Choose File No file chosen Upload File
Step 13	On the Maverick MK1 Hybrid, verify the firmware has been updated by navi ating to Sys Info (<u>System</u> <u>Information</u>) and che king that the version number matches the n me of the file on the computer.	
Step 15	Disconn ct the Maverick MK1 Hybrid from the computer	r. The firmware update is complete.
	The examples shown are for illustrative purposes.	



6. TECHNICAL INFORMATION

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

Maintenance As a rule, clean this product at least twice a month. Dust build-up reduces light outp t performance and can cause overheating. This can lead to reduced light source life and increased mechanical wear.

- To clean your product:
- Unplug the product from power. 1.
- 2. Wait until the product is at room temperature.
- Use a vacuum (or dry compressed air) and a soft brush to remove dust co lected on the 3. external vents.
- 4. Clean all external surfaces with a mild solution of non-ammonia glas cleaner or isopropyl alcohol.
- Apply the solution directly to a soft, lint-free cotton cloth or a le s c eaning tissue.
- Wipe any dirt or grime to the outside edges of the lens surface.
- 7. Gently polish the lens surfaces until they are free of haze and lint.



Always dry the external surfaces thoroughly and ca efully after cleaning them.

Do not spin the cooling fans by blowing com res ed air into them.

Error Indication

Indicator	Meaning	Indicat r	Meaning
Focus	Focus error detected	Y_cm	Tilt magnetic sensor error
Zoom	Zoom error detected	ор	Tilt optocoupler error
Prism	Prism error detected	CPU_A	IC-A error
Prism.R	Rotating prism error detected	CPU_B	IC-B error
Gobo	Gobo wheel 1 error detected	CPU_C	IC-C error
Gobo.R	Rotating gobo wheel 1 error detected	CPU_D	IC-D error
Gobo2	Gobo wheel 2 error detected	CPU_E	IC-E error
Gobo2.R	Rotating Gobo wheel 2 error detected	Head Fan1	Head fan 2 error detected
Color	Color error detected	Head Fan2	Head fan 2 error detected
Iris	Iris error detected	Base Fan1	Base fan 1 error detected
CYAN	Cyan error detecte	Base Fan2	Base fan 2 error detected
MAGENTA	Magenta e ror d tected		
YELLOW	Yellow erro d ected	_	
СТО	CTO error detected	_	
X_cm1	Pan agnetic sensor 1 error detected		
X_cm2	magnetic sensor 2 error detected	_	
X on	Pan ontocoupler error	_	



7. TECHNICAL SPECIFICATIONS

Dimensions and	Length	Width	Height	Weight
Weight	15.1 in (385 mm)	9.8 in (250 mm)	26.4 in (671 mm)	62.8 lb (28.5 kg)
	Note: Dimensions in inch	es rounded to the nearest	decimal digit.	
Electrical	Power Supply Type	e Range	•	Voltage Selection
	Switching (internal)	100–240 VAC,	50/60 Hz	Auto-ranging
	Parameter	120 VAC, 60 Hz	208 VAC, 60 H	z 230 VAC, 50 Hz
	Consumption	740 W	723 W	700 W
	Current	6.01 A	3.63 A	3.33 A
	Fuse/Breaker	F 10 A, 250 V	F 10 A, 250 V	F 10 A, 250 V
	Power I/O	U.S./Cana	ada	Worldwide
	Power input connected	or True 1 comp	patible	True 1 compatible
	Power cord plug	Edison (U	.S.)	Local plug
Light Source	Туре	Power		Lifespan
	LED	440 W		50,000 hours
	Color	Quan t	ty	Current
	CW (cold white)	1		5.6 A
Photo Optic	Parameter	Value		
	Illuminance (13°) @ 5	m 18,079 l	ux	
	Illuminance (37°) @ 5	m 2,518 lu	IX	
	Beam Angle	12° to 3	5°	
	Field Angle	13° to 3	7°	
	Zoom Angle	13° to 3	7°	
	Color Temperat e	6,808	<	
	CRI	73		
	Strob Ra e	0 to 20 H	Ηz	
DMX	I/O Connector	Channel R	ange	
	3 and 5-pin XLR	24 or 3	2	
Art-Net™/ sACN	I/O Connector	Channel R	ange	
	etherCON®	24 or 3	2	
Thermal	Max. External Tempera	ture Cooling Sy	stem	
	113 °F (45 °C)	Fan-Assisted C	onvection	
Orde ing	Product Name	Item Name	Item Code	UPC Number
	Maverick MK2 Spot	MAVERICKMK2SPOT	08011154	781462215026





RETURNS

To get support or return a product:

- If you are located in the U.S., contact Chauvet World Headquarters.
- If you are located in the UK or Ireland, contact Chauvet Europe Ltd.
- If you are located in Mexico, contact Chauvet Mexico.
- If you are located in Benelux, contact Chauvet Europe BVBA.

If you are located in any other country, DO NOT contact Chauvet. Instead, contact your local distributor. See <u>www.chauvetlighting.com</u> for distributors outside the U.S., UK, Ireland, Mexico, or Benelux.



If you are located outside the U.S., UK, Ireland, Mexico, or Benelux contact your distributor of record and follow their instructions on how to return Chauv t products to them. Visit our website <u>www.chauvetlighting.com</u> for contact details

Call the corresponding Chauvet Technical Support office and reques a Return Merchandise Authorization (RMA) number before shipping the product. Be prep red to provide the model number, serial number, and a brief description of the cause for the retu n.

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

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

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

Before sending the product, clearly write the ollowing information on a piece of paper and place it inside the box:

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

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



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



Contact Us

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World Wide Web <u>www.chauvet.com.mx</u>

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



