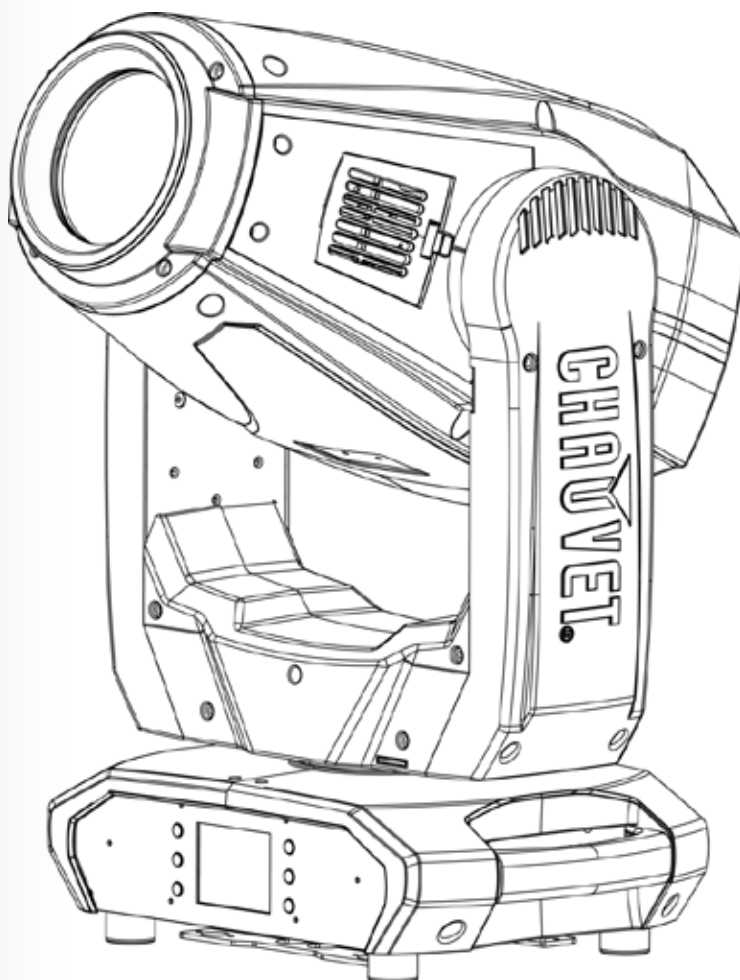# MAVERICK

## MK2 SPOT

## User Manual



**CHAUVET**
**PROFESSIONAL**

# Edition Notes

The Maverick MK2 Spot User Manual Rev. 1 covers the description, safety precautions, installation, programming, operation, and maintenance of the Maverick MK2 Spot. Chauvet released this edition of the Maverick MK2 Spot User Manual in May 2016.

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**Document Printing** For better 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 your printer to scale the content accordingly.

**Intended Audience** Any person in charge of 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** The Maverick MK2 Spot User Manual Rev. 1 supersedes all previous versions of this manual. Discard any older versions of this manual and replace with this version. Go to www.chauvetprofessional.com for the latest version.

# Table of Contents

# 1. BEFORE YOU BEGIN

**What Is Included**
- 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 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 your 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.

**Manual Conventions**

| Convention | Meaning |
|---|---|
| 1–512 | A range of values in the text |
| 50/60 | A set of mutually exclusive values in the text |
| <SET> | A button on the product's control panel |
| Settings | A product function or a menu option |
| MENU>Settings | A sequence of menu options |
| ON | A unique value to be entered or selected in a menu |

**Symbols**

| Symbols | Meaning |
|---|---|
| ⚠ | Critical 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 term "DMX" used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.**

**Product At A Glance**

| | | | |
|---|---|---|---|
| Use on Dimmer | ✖ | Auto Programs | ✖ |
| Outdoor Use | ✖ | Auto-Ranging Power Supply | P |
| Master/Slave | ✖ | Replaceable Fuse | P |
| DMX | P | User-Serviceable | ✖ |

## 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.

**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.**

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

### 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 electrocution.
- 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 shock, do not expose this product to rain or moisture. (IP20)
- CAUTION: When transferring 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 product to fully acclimate to the surrounding environment before connecting it to power.
- Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- Make sure there are no flammable materials close to this product while it is operating.
- When hanging this product, always secure to a fastening device using a safety cable.
- Never carry the product by the power cord or any moving part.

### Power And Wiring

- Make sure the power cord is not crimped or damaged.
- Always make sure you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- 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 this product to a dimmer pack or rheostat.
- Make sure to replace the fuse with another of the same type and rating.
- Never disconnect this product by pulling or tugging on the power cable.

### Operation

- Do not operate this product if you see damage on the housing, lenses, or cables. Have the damaged parts replaced by an authorized technician at once.
- Do not cover the ventilation slots when operating to avoid internal overheating.
- The maximum ambient temperature is 113 °F (45 °C). Do not operate this product at a higher temperature.
- In case 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 control 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 runs.

**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



**Front View**

**Rear View**

Yoke

Fans

Handles

Rubber Foot (x4)

Display

Menu Buttons

Wireless Antenna

5-pin DMX In/Out

3-pin DMX In/Out

Ethernet LED Indicator

etherCON® Through Ports

True 1 Compatible Power In

Fuse-Holder

Power Switch

## Dimensions

**17.6 in**
**447 mm**

**21.6 in**
**549 mm**

**9.8 in**
**249 mm**

**15.6 in**
**396 mm**

**15.1 in**
**384 mm**

**11.1 in**
**282 mm**

**9.8 in**
**249 mm**

**26.4 in**
**671 mm**

**14.6 in**
**371 mm**

**4.5 in**
**114 mm**
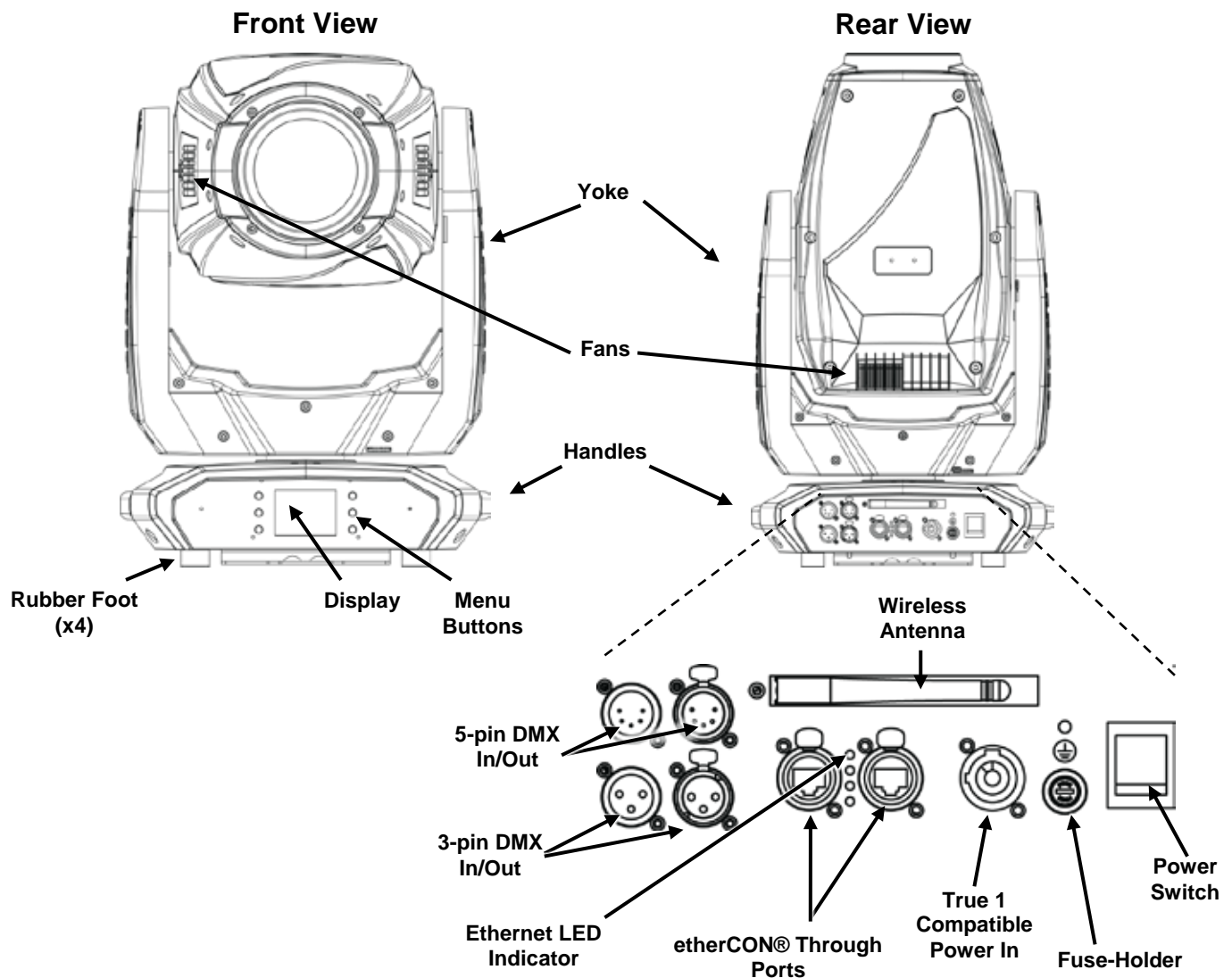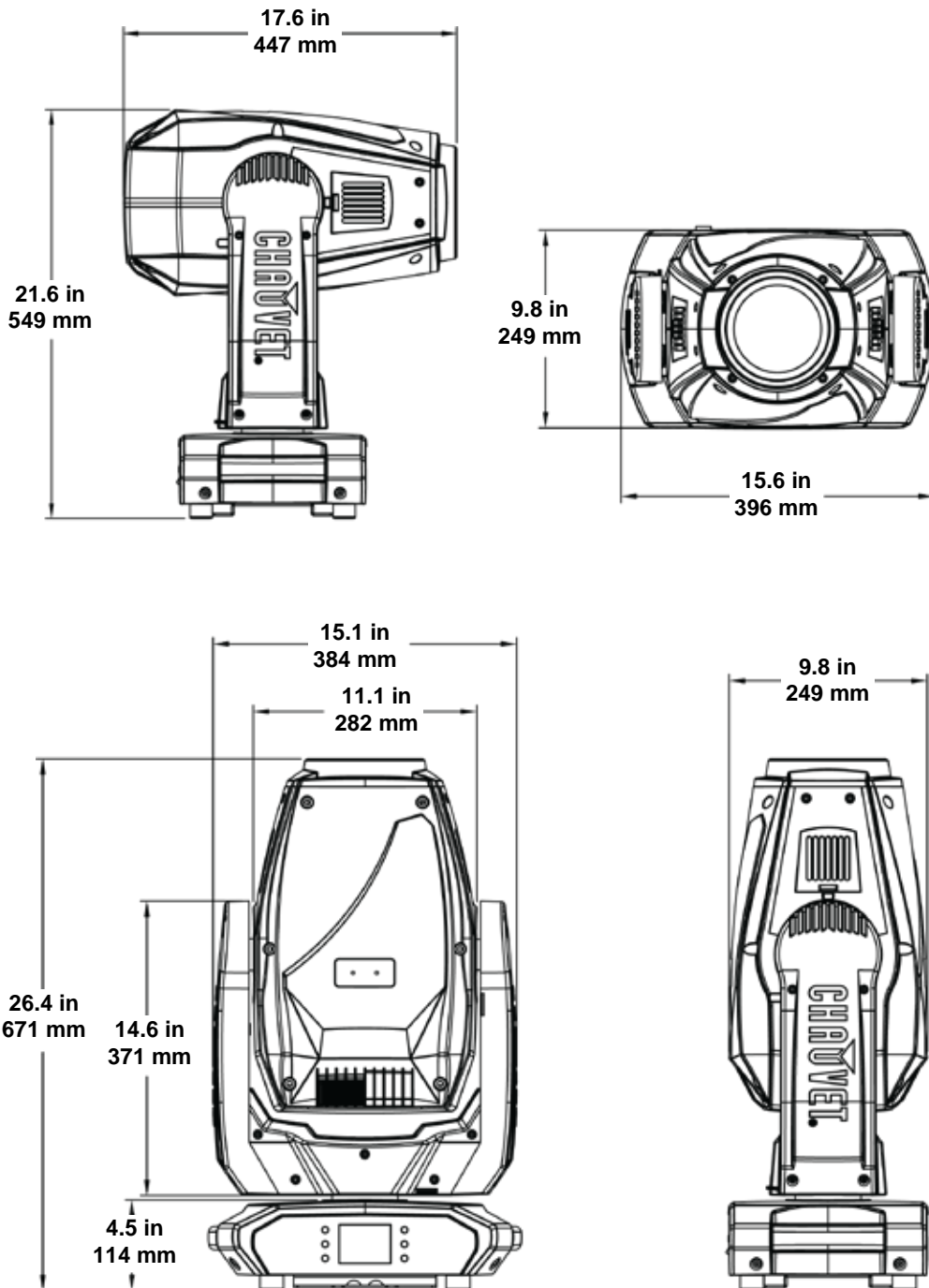
# 3. SETUP

**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 Technical Specifications chart in this manual.

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

⚠
- · **Always connect this product to a protected circuit with an appropriate electrical ground to avoid the risk of electrocution or fire.**
- · **Never connect this product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.**
- · **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.**

**AC Plug**
The Maverick MK2 Spot comes with a power input cord terminated with a True 1 compatible connector on one end and an Edison plug on the other end (U.S. market). If the power input cord that came with your product has no plug, or if you need to change the Edison 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 10 A, 250 V).
4. Screw the fuse holder cap back in place and reconnect power.

⚠ **Make sure to disconnect the product's power cord before replacing a blown fuse. Always replace the blown fuse with another of the same type and rating.**

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

**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 feet 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 for operation, programming adjustments, and routine maintenance.
· Make sure to mount this product away from any flammable material as indicated in the Safety Notes.
· Never mount in places where rain, high humidity, extreme temperature changes, or restricted ventilation may affect the product.
· If hanging this product, make sure that the mounting location can support the product's weight. See the Technical Specifications for the weight-bearing requirements of this product.
· When hanging this product, always secure to a fastening device using a safety cable. For our CHAUVET Professional line of safety cables, go to http://trusst.com/products/.
· 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 move freely without hitting anything or anybody.
· Leave enough slack on the cable to prevent tension and pull on the plugs.

**Mounting Diagram**



**Overhead Mounting**                    **Floor Mounting**
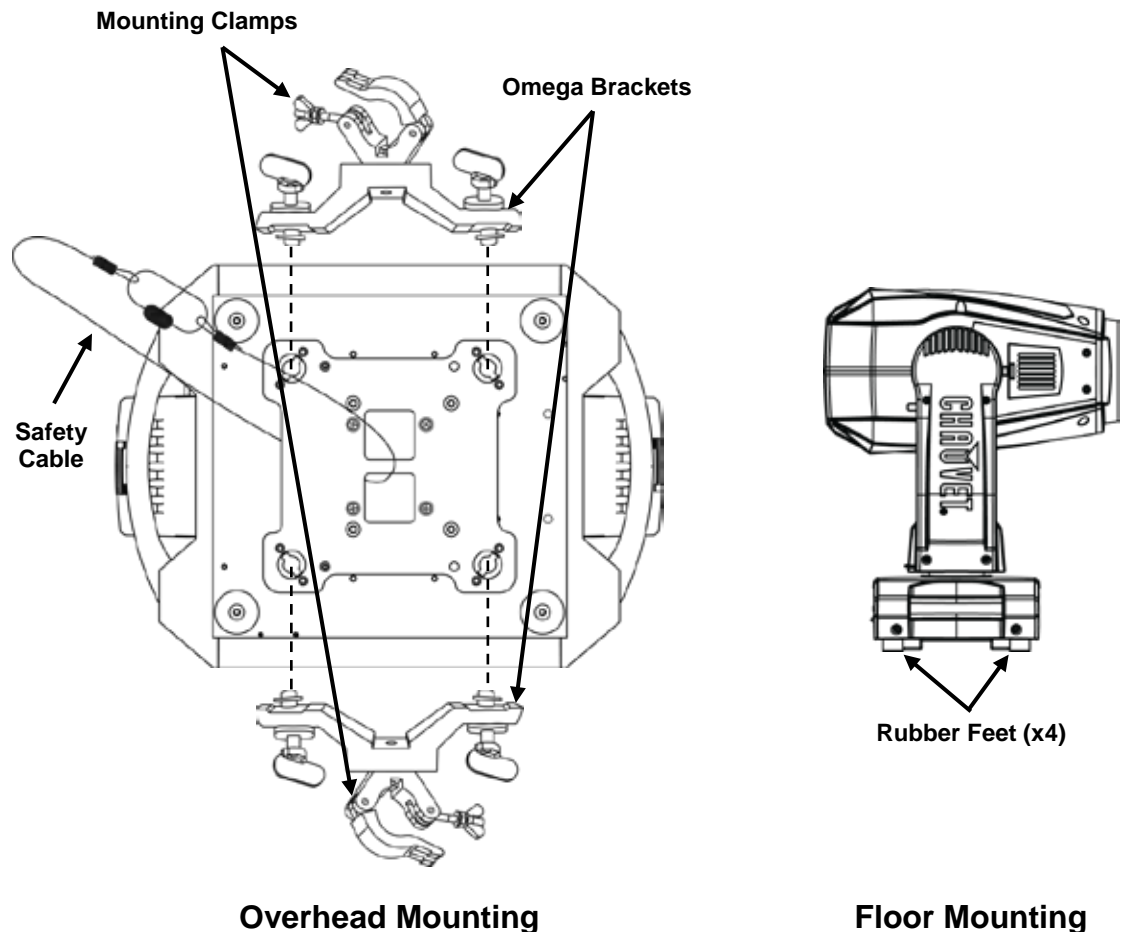
# Signal Connections

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 DMX512 data using an etherCON® 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.

**Chauvet Professional recommends using unicast Art-Net™ for best results.**

**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 TCP/IP or any other ACN compatible network. ACN is maintained by the Professional Lighting and Sound Association (PLASA).



**Switch** or **Router**
(such as the **NET-Switch**
from CHAUVET Professional)

**Connection
Diagram**

**Computer/Controller**
(running TCP/IP
protocol)

To other TCP/IP
Devices
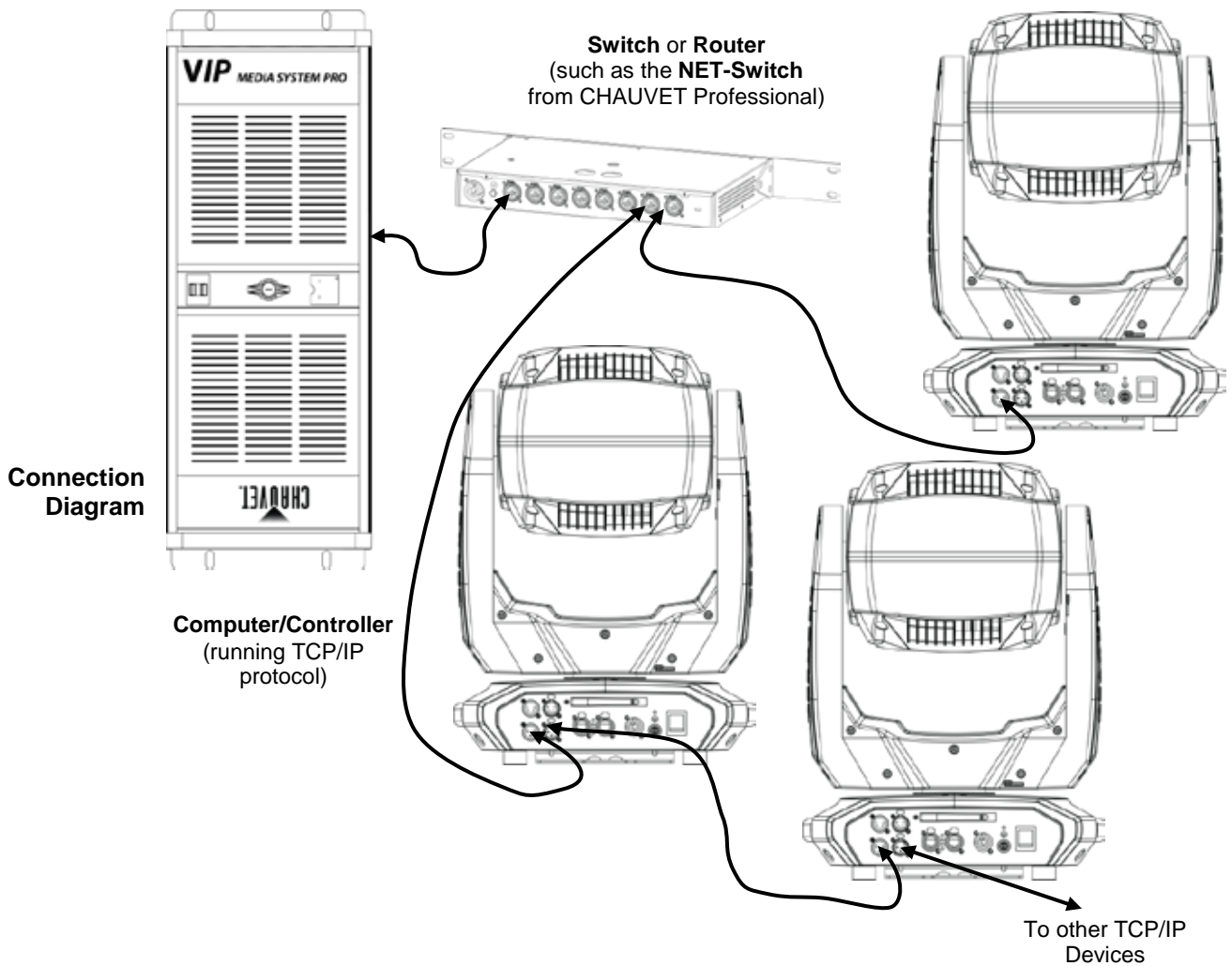
# 4. OPERATION

**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 in the menu (see Touchscreen Calibration and Touchscreen Lock).**

**Touchscreen and Control Panel Description**

| Button | Function |
|---|---|
| < ⇑ > (**<UP>**) | Navigates upwards through the menu list or increases the numeric value when in a function |
| < ☰ > (**<MENU>**) | Exits from the current menu or function |
| < ⇓ > (**<DOWN>**) | Navigates downwards through the menu list or decreases the numeric value when in a function |
| < ⇐ > (**<LEFT>**) | Navigates leftwards through the menu list |
| < ↵ > (**<ENTER>**) | Enables the currently displayed menu or sets the currently selected value into the selected function |
| < ⇒ > (**<RIGHT>**) | Navigates rightwards through the menu list |

## Menu Map

| Main Level | Programming Levels | | Description |
|---|---|---|---|
| **Address** | **000–512** | | Network Setting |
| **Network Setup** | **Ethernet to DMX** | **YES** | Turn on Art-Net to DMX capability |
| | | **NO** | |
| | **IP Mode** | **Manual** | Selection of IP mode (Static IP: 2.243.76.222) |
| | | **DHCP** | |
| | | **Static** | |
| | **Universe** | **0 ~ 255** | Set the Universe |
| | **ArtNetIp** | **002.243.075.222** | IP setting |
| | **SubMask** | **255.000.000.000** | Subnet Mask |
| **Personality** | **DMX 24CH** | **YES** | Choose 24 Channels of DMX |
| | | **NO** | |
| | **DMX 32CH** | **YES** | Choose 32 Channels of DMX |
| | | **NO** | |
| **Settings** | **Control Mode** | **DMX** | Signal Selection |
| | | **WDMX** | |
| | | **ArtNet** | |
| | | **sACN** | |
| | **Pan Reverse** | **YES** | Reverse the Pan |
| | | **NO** | |
| | **Tilt Reverse** | **YES** | Reverse the Tilt |
| | | **NO** | |
| | **Screen Reverse** | **NO** | Manually or automatically reverse the screen |
| | | **YES** | |
| | | **AUTO** | |

| Main Level | Programming Levels | | Description |
|---|---|---|---|
| | **Pan Angle** | **540** | Change the Pan angle |
| | | **360** | |
| | | **180** | |
| | **Tilt Angle** | **270** | Change the Tilt angle |
| | | **180** | |
| | | **90** | |
| | **BL. O. P/T Move** | **YES** | Enable/disable XY blackout |
| | | **NO** | |
| | **BL. O. Color Move** | **YES** | Enable/disable color blackout |
| | | **NO** | |
| | **BL. O. Gobo Move** | **YES** | Enable/disable gobo blackout |
| | | **NO** | |
| | **Calibration** | **YES** | Turn on Calibration |
| | | **NO** | |
| | **Touchscreen Lock** | **YES** | Lock the touchscreen |
| | | **NO** | |
| | **Lock Screen** | **YES** | Lock the buttons and touchscreen PASSCODE: 0920 |
| | | **NO** | |
| | **Swap X/Y** | **YES** | Swap the pan and tilt |
| | | **NO** | |
| | **X/Y Mode** | **Fast** | Pan and tilt speed |
| | | **Slow** | |
| | **WDMX Reset** | **YES** | Reset the wireless DMX |
| | | **NO** | |
| **Settings (Continued)** | **Backlight Timer** | **30S** | Set the backlight to turn off automatically after a chosen time |
| | | **1M** | |
| | | **5M** | |
| | | **ON** | |
| | **Loss of Data** | **Hold** | Loss of data setting |
| | | **Close** | |
| | **Fans** | **Auto** | Change the fan speed mode |
| | | **Full** | |
| | | **ECO** | |
| | **Dimmer Curve** | **Linear** | Set the dimmer curve |
| | | **Square** | |
| | | **I Square** | |
| | | **Scurve** | |
| | **Dimmer Speed** | **Smooth** | Change the dimmer speed |
| | | **Fast** | |
| | **Reset Function** | **Pan/Tilt** | **YES/NO** | Reset individual functions to factory |
| | | **Iris/ Prism** | |
| | | **Color/CMY +CTO** | |
| | | **Gobo/Gobo Rotate** | |
| | | **Zoom/Frost/ Focus** | |
| | | **All** | |

| Main Level | Programming Levels | | | Description |
|---|---|---|---|---|
| | Factory Settings | YES | | Reset all functions to factory |
| | | NO | | |
| | 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 | |
| | | CTO | 0 ~ 255 | |
| | | Color | 0 ~ 255 | |
| | | Gobo 1 | 0 ~ 255 | |
| | | Gobo 1 Index Fine | 0 ~ 255 | |
| Test | Manual Test | Gobo 1 Rotate | 0 ~ 255 | Individually test each function/channel |
| | | Gobo 2 | 0 ~ 255 | |
| | | Gobo 2 Index Fine | 0 ~ 255 | |
| | | Gobo 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 | |
| | | Prism Rotate | 0 ~ 255 | |
| | | Iris | 0 ~ 255 | |
| | | Frost | 0 ~ 255 | |
| | | CMY Macro | 0 ~ 255 | |
| | | CMY Macro Speed | 0 ~ 255 | |
| | | Special Function | 0 ~ 255 | |

| Main Level | Programming Levels | | Description |
|---|---|---|---|
| Information | Fixture Information | Ver      V1 | Current Version |
| | | Running Mode   DMX | Current Mode |
| | | DMX Address    001 | |
| | | Temperature    025 | Current Temparature |
| | | Fixture Hours    00000 | Current active hours |
| | | ArtNetIp002.243.075.222 | Current IP address |
| | | SubMask     255.000.000.000 | Current subnet mask |
| | | MAC    00.04.a3.08.00.00 | MAC address |
| | Fan Information | Base Fan1 Speed     2000rpm | View speed setting |
| | | Base Fan2 Speed     2000rpm | View speed setting |
| | | Head Fan1 Speed     2000rpm | View speed setting |
| | | Head Fan2 Speed     2000rpm | View speed setting |
| | Error Information | _ _ _ _ _ | Will appear on screen |
| | Channel Information | Frequency | 0Hz | Status of individual channel |
| | | 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 | |
| | | CTO | 0 ~ 255 | |
| | | Color | 0 ~ 255 | |
| | | Gobo 1 | 0 ~ 255 | |
| | | Gobo 1 Index Fine | 0 ~ 255 | |
| | | Gobo 1 Rotate | 0 ~ 255 | |
| | | Gobo 2 | 0 ~ 255 | |
| | | Gobo 2 Index Fine | 0 ~ 255 | |
| | | Gobo 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 | |
| | | Prism Rotate | 0 ~ 255 | |
| | | Iris | 0 ~ 255 | |
| | | Frost | 0 ~ 255 | |
| | | CMY Macro | 0 ~ 255 | |
| | | CMY Macro Speed | 0 ~ 255 | |
| | | 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 Control Mode and then 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 **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 touchscreen display.
   or
   · Using the buttons (or the button icons on the sides of the display),
   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 address is set as desired.
5. Press **<ENTER>**.

## Network Setup

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

**Ethernet To DMX** The Maverick MK2 Spot can convert a single ethernet 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 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 **Ethernet to DMX**, or touch the display where it says **Ethernet to DMX**.
5. If using the buttons instead of the touchscreen, press **<ENTER>**.
6. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **NO** (deactivate) or **YES** (activate), or touch the display where 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 specific 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**.
3. If using the buttons instead of the touchscreen, press **<ENTER>**.
4. Use **<UP>** or **<DOWN>** to select **IP Mode**, or touch the display where it says **IP Mode**.
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 Universe** The Subnet and universe must be assigned through the product menu. To set the Subnet and Universe 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 **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>**.
6. Enter the universe address (==0–254 for **ArtNet**==, ==0–255 for **sACN**==) with one of the following methods:
   - Type the universe number using the number pad that shows on the touchscreen display. or
   - Using the buttons (or the button icons on the sides of the display),
     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 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 **ArtNetIP**, or touch the display where it says **ArtNetIP**.
5. If using the buttons instead of the touchscreen, press **<ENTER>**.
6. Set the IP address (from **000.000.000.000** 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 IP address 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 IP address is set as desired.
7. Press **<ENTER>**.

**Subnet Mask** To set the Subnet Mask, 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 **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 **000.000.000.000** 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 touch 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** (confirm) 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 Home Screen 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 **<ENTER>**.

**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 Menu Map for more information.
To configure the protocol for the Maverick MK2 Spot, follow the instructions below:
1. Navigate to the **Settings** 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 the touchscreen, press **<ENTER>**.
4. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **DMX**, **WDMX**, **sACN**, **ArtNet**., or touch the display where it says the desired option.
5. Press **<ENTER>**.

**For WDMX control, ensure the antenna is raised and there are no obstructions between the controller and the product. See WDMX Reset for troubleshooting information.**

**Pan/Tilt Orientation** To set whether the pan or tilt orientation is normal or inverted:"
1. Navigate to the **Settings** 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 using 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 Orientation** To set which way the display faces, do the following:
1. Navigate to the **Settings** 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>**.
4. 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 Range** To set the range of motion the pan or tilt is permitted:
1. Navigate to the **Settings** 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>**.
4. 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 desired option.
5. Press **<ENTER>**.

**Blackout on Pan/Tilt Movement** To set whether the product will black out during pan or tilt movement, follow the instructions below:
1. Navigate to the **Settings** menu.
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 black out) or **YES** (black out during movement), or touch the display where it says the desired option.
5. Press **<ENTER>**.

**Blackout on Color Movement** To set whether the product will black out during color movement, follow the instructions below:
1. Navigate to the **Settings** menu.
2. Use **<UP>** or **<DOWN>** to select **BL. O. Color Move**, or touch the display where it says **BL. O. Color Move**.
3. If using the buttons instead of 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 touch the display where it says the desired option.
5. Press **<ENTER>**.

**Blackout on Gobo Movement** To set whether the product will black out during gobo movement, follow the instructions below:
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 instead of 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 touch the display where it says the desired option.
5. Press **<ENTER>**.

**Touchscreen Calibration** If the touchscreen is not responding correctly, it may need to be calibrated. To do so:
1. Navigate to the **Settings** menu.
2. Use **<UP>** or **<DOWN>** to select **Calibration**, or touch the display where it says **Calibration**.
3. If using the buttons instead of the touchscreen, press **<ENTER>**.
4. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **NO** (do not calibrate) or **YES** (calibrate), or touch the display where it says the desired option.
5. Press **<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 **Settings** 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 **Settings** 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 it 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 controls the tilt and what normally controls the tilt controls the pan, follow the instructions below:
1.  Navigate to the **Settings** 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 **<ENTER>**.
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 **Settings** menu.
2.  Use **<UP>** or **<DOWN>** to select **XY Mode**, or touch the display where it says **XY Mode**.
3.  If using the buttons instead of the touchscreen, 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 from the Maverick MK2 Spot, do the following:
1.  Navigate to the **Settings** menu.
2.  Use **<UP>** or **<DOWN>** to select **WDMX Reset**, or touch the display where it says **WDMX Reset**.
3.  If using the buttons instead of the touchscreen, press **<ENTER>**.
4.  Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **NO** (do not reset connection) or **YES** (reset the connection), or touch the display where it says the desired option.
5.  Press **<ENTER>**.

**Backlight Timer** To set the amount of time after inactivity before the display backlight turns off:
1.  Navigate to the **Settings** menu.
2.  Use **<UP>** or **<DOWN>** to select **Backlight Timer**, or touch the display where it says **Backlight Timer**.
3.  If using the buttons instead of the touchscreen, press **<ENTER>**.
4.  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 **Settings** 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 product temperature), **Full** (maximum speed), or **ECO** (quiet fans mode), or touch the display where 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 it 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 touch the display where it says **Dimmer Speed**.
3. If using the buttons instead of the touchscreen, press **<ENTER>**.
4. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **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 from startup:
1. Navigate to the **<u>Settings</u>** menu.
2. Use **<UP>** or **<DOWN>** to select **Reset Function**, or touch the display where it says **Reset Function**.
3. If using the buttons instead of the touchscreen, press **<ENTER>**.
4. Use **<UP>** or **<DOWN>** to select 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 option.
5. If using the buttons instead 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 display where it says the desired option.
7. Press **<ENTER>**.

**Factory Reset** To restore the Maverick MK2 Spot to factory default settings, do the following:
1. Navigate to the **<u>Settings</u>** 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 <u>Home Screen</u> shows on the display. Press **<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 **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. Press **<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 where 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 **Pan**, **Pan Fine, Tilt**, **Tilt Fine**, **P/S Speed**, **Dimmer**, **Dimmer Fine**, **Shutter**, **Virtual Shaking**, **Cyan**, **Magenta**, **Yellow**, **CTO**, **Color, Gobo, Gobo Rotate, Gobo 2**, **Gobo 2 Rotate**, **Focus**, **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 desired function.
7. If using the buttons instead of the touchscreen, press **<ENTER>**.
8. Change the value of the tested function with one of the following methods:
   · Type the desired value using the number pad that shows on the touchscreen display.
     or
   · Use **<UP>**, **<RIGHT>**, **<DOWN>**, or **<LEFT>** to increase or decrease the value.
9. Press **<ENTER>**.

## System Information

All information about the current 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 <u>Home Screen</u> shows on the display. Press **<ENTER>**.
2. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **Information**, or touch the display where it says **Information**.
3. If using the buttons instead of the touchscreen, press **<ENTER>**.
4. Use **<UP>** or **<DOWN>** to select from **Fixture Information** (shows firmware version, running mode, starting 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 signal input channels) or touch the display where it says the desired option.
5. Press **<ENTER>**.
6. Use **<UP>** or **<DOWN>** to scroll through the information.

## DMX Values

| 32CH | Channel | Function | Value | Percent/Settings |
|---|---|---|---|---|
| | 1 | Pan | 000ó255 | 0–100% |
| | 2 | Fine Pan | 000ó255 | 0–100% |
| | 3 | Tilt | 000ó255 | 0–100% |
| | 4 | Fine Tilt | 000ó255 | 0–100% |
| | 5 | Pan/Tilt Speed | 000ó255 | 0–100% |
| | 6 | Dimmer | 000ó255 | 0–100% |
| | 7 | Fine Dimmer | 000ó255 | 0–100% |
| | 8 | Shutter | 000ó003<br>004ó007<br>008ó076<br>077ó145<br>146ó215<br>216ó255 | Closed<br>Open<br>Slow to fast<br>Pulse effect from slow to fast<br>Random effect from slow to fast<br>Open |
| | 9 | Virtual Shutter | 000ó001<br>002ó128<br>129ó255 | No function<br>Shaking strobe, slow to fast<br>Fade in/out, slow to fast |
| | 10 | Cyan | 000ó255 | 0–100% |
| | 11 | Magenta | 000ó255 | 0–100% |
| | 12 | Yellow | 000ó255 | 0–100% |
| | 13 | CTO | 000ó255 | 0–100% |
| | 14 | Color Wheel | 000ó006<br>007ó013<br>014ó020<br>021ó027<br>028ó034<br>035ó041<br>042ó047<br>048ó059<br>060ó187<br>188ó219<br>220ó223<br>224ó255 | Open<br>Red<br>Orange<br>Green<br>Blue<br>Magenta<br>Yellow<br>UV<br>Split colors<br>Clockwise color scroll, fast to slow<br>Stop<br>Counter-clockwise color scroll, slow to fast |
| | 15 | Gobo Wheel 1<br>[Gobo Designs] | 000ó008<br>009ó017<br>018ó026<br>027ó035<br>036ó044<br>045ó053<br>054ó063<br>064ó073<br>074ó082<br>083ó091<br>092ó100<br>101ó109<br>110ó118<br>119ó127<br>128ó191<br>192ó255 | Open<br>Gobo 1 (circuits)<br>Gobo 2 (ring of rings)<br>Gobo 3 (checker vortex)<br>Gobo 4 (triangle)<br>Gobo 5 (star field)<br>Gobo 6 (lenticular glass)<br>Gobo 6 Shaking<br>Gobo 5 Shaking<br>Gobo 4 Shaking<br>Gobo 3 Shaking<br>Gobo 2 Shaking<br>Gobo 1 Shaking<br>Open<br>Clockwise gobo scroll, fast to slow<br>Counter-clockwise gobo scroll, slow to fast |
| | 16 | Gobo Rotating 1 | 000ó063<br>064ó145<br>146ó149<br>150ó231<br>232ó255 | Rotating Gobo Index<br>Clockwise rotating, slow to fast<br>Stop<br>Counter-clockwise rotating, slow to fast<br>Bounce effect |

**32CH**

| Channel | Function | Value | Percent/Settings |
|---|---|---|---|
| 17 | **Gobo Wheel 1 Index Fine** | 000⏴255 | 0–100% |
| 18 | **Gobo Wheel 2** [Gobo Designs] | 000⏴008<br>009⏴017<br>018⏴026<br>027⏴035<br>036⏴044<br>045⏴053<br>054⏴063<br>064⏴073<br>074⏴082<br>083⏴091<br>092⏴100<br>101⏴109<br>110⏴118<br>119⏴127<br>128⏴191<br>192⏴255 | Open<br>Gobo 1 (spiral)<br>Gobo 2 (dot chiclets)<br>Gobo 3 (splat breakup)<br>Gobo 4 (wavy bar)<br>Gobo 5 (shower glass)<br>Gobo 6 (lenticular glass)<br>Gobo 6 Shaking<br>Gobo 5 Shaking<br>Gobo 4 Shaking<br>Gobo 3 Shaking<br>Gobo 2 Shaking<br>Gobo 1 Shaking<br>Open<br>Clockwise gobo scroll, fast to slow<br>Counter-clockwise gobo scroll, slow to fast |
| 19 | **Gobo Rotating 2** | 000⏴063<br>064⏴145<br>146⏴149<br>150⏴231<br>232⏴255 | Rotating Gobo Index<br>Clockwise rotating, slow to fast<br>Stop<br>Counter-clockwise rotating, slow to fast<br>Bounce effect |
| 20 | **Gobo Wheel 2 Index Fine** | 000⏴255 | 0–100% |
| 21 | **Focus** | 000⏴255 | 0–100% |
| 22 | **Fine Focus** | 000⏴255 | 0–100% |
| 23 | **Auto Focus** | 000⏴010<br>011⏴030<br>031⏴050<br>051⏴070<br>071⏴090<br>091⏴110<br>111⏴130<br>131⏴150<br>151⏴170<br>171⏴190<br>191⏴210<br>211⏴255 | No Function<br>0-5m<br>6m<br>7m<br>8m<br>9m<br>10m<br>12.5m<br>15m<br>17.5m<br>20-60m<br>Auto-detect distance |
| 24 | **Zoom** | 000⏴255 | 0–100% |
| 25 | **Fine Zoom** | 000⏴255 | 0–100% |
| 26 | **Prism** | 000⏴004<br>005⏴255 | No Function<br>Prism Effect |
| 27 | **Prism Rotate** | 000⏴127<br>128⏴189<br>190⏴193<br>194⏴255 | Rotating position<br>Clockwise rotating, slow to fast<br>Stop<br>Counter-clockwise rotating, fast to slow |
| 28 | **Iris** | 000⏴063<br>064⏴127<br>128⏴191<br>192⏴255 | Big to small<br>Auto change, slow to fast<br>Slow zoom in, fast zoom out (slow to fast)<br>Slow zoom out, fast zoom in (slow to fast) |
| 29 | **Frost** | 000⏴255 | 0–100% |
| 30 | **CMY Macro** | 000⏴009<br>010⏴255 | No function<br>CMY macro |
| 31 | **CMY Macro Speed** | 000⏴255 | fast to slow |

**32CH**

| Channel | Function | Value | Percent/Settings |
|---|---|---|---|
| 32 | Control | 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 |
| | | 152–159 | All reset |
| | | 160–167 | Iris reset |
| | | 168–175 | Frost reset |
| | | 176–183 | Zoom reset |
| | | 184–191 | CMY+CTO reset |
| | | 192–199 | Fan low speed |
| | | 200–207 | Fan full speed |
| | | 208–215 | Fan auto |
| | | 216–220 | no function |
| | | 221–225 | Iris Fast mode |
| | | 226–230 | Iris Smooth mode |
| | | 231–235 | XY swap on |
| | | 236–240 | XY swap off |
| | | 241–245 | no function |
| | | 246–250 | XY smooth mode |
| | | 251–255 | XY fast mode |

**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 | Fine Tilt | 000–255 | 0–100% |
| 5 | Pan/Tilt Speed | 000–255 | 0–100% |
| 6 | Dimmer | 000–255 | 0–100% |
| 7 | Shutter | 000–003 | Closed |
| | | 004–007 | Open |
| | | 008–076 | Slow to fast |
| | | 077–145 | Pulse effect from slow to fast |
| | | 146–215 | Random effect from slow to fast |
| | | 216–255 | Open |
| 8 | Virtual Shutter | 000–001 | No function |
| | | 002–128 | Shaking strobe, slow to fast |
| | | 129–255 | 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 | CTO | 000–255 | 0–100% |

**24CH**

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

**24CH**

| Channel | Function | Value | Percent/Settings |
|---------|----------|-------|------------------|
| 21 | **Prism Rotate** | 000◐127<br>128◐189<br>190◐193<br>194◐255 | Rotating position<br>Clockwise rotating, slow to fast<br>Stop<br>Counter-clockwise rotating, fast to slow |
| 22 | **Iris** | 000◐063<br>064◐127<br>128◐191<br>192◐255 | Big to small<br>Auto change, slow to fast<br>Slow zoom in, fast zoom out (slow to fast)<br>Slow zoom out, fast zoom in (slow to fast) |
| 23 | **Frost** | 000◐255 | 0–100% |
| 24 | **Control** | 000◐007<br>008◐015<br>016◐023<br>024◐031<br>032◐039<br>040◐047<br>048◐055<br>056◐095<br>096◐103<br>104◐111<br>112◐119<br>120◐127<br>128◐135<br>136◐143<br>144◐151<br>152◐159<br>160◐167<br>168◐175<br>176◐183<br>184◐191<br>192◐199<br>200◐207<br>208◐215<br>216◐220<br>221◐225<br>226◐230<br>231◐235<br>236◐240<br>241◐245<br>246◐250<br>251◐255 | No function<br>XY blackout<br>C blackout<br>G blackout<br>XYC blackout<br>XYG blackout<br>XYCG blackout<br>no function<br>X reset<br>Y reset<br>Color reset<br>Gobo & gobo rotating reset<br>no function<br>Prism reset<br>Focus reset<br>All reset<br>Iris reset<br>Frost reset<br>Zoom reset<br>CMY+CTO reset<br>Fan low speed<br>Fan full speed<br>Fan auto<br>no function<br>Iris Fast mode<br>Iris Smooth mode<br>XY swap on<br>XY swap off<br>no function<br>XY smooth mode<br>XY fast mode |

## Gobo Designs

| | | | | | | |
|---|---|---|---|---|---|---|
| **Wheel 1** | Circuits | Ring of Rings | Checker Vortex | Triangle | Star Field | Lenticular Glass |

| | | | | | | |
|---|---|---|---|---|---|---|
| **Wheel 2** | Spiral | Dot Chiclets | Splot Breakup | Wavy Bar | Shower Glass | Lenticular Glass |

## Color Wheel
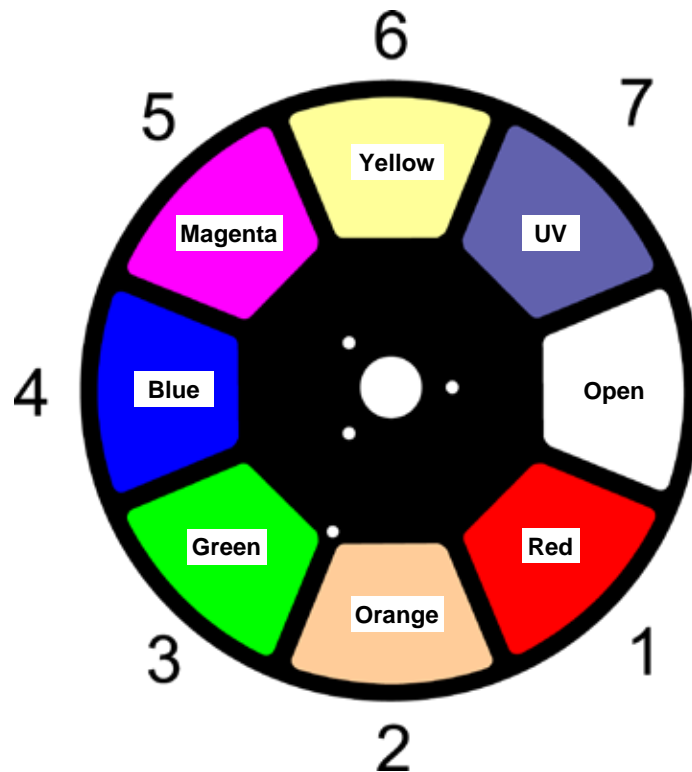
# 6. TECHNICAL INFORMATION

**Product Maintenance**

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

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

To clean your product:
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 vents.
4. Clean all external surfaces with a mild solution of non-ammonia glass cleaner or isopropyl alcohol.
5. Apply the solution directly to a soft, lint-free cotton cloth or a lens cleaning tissue.
6. 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 carefully after cleaning them.**

**Do not spin the cooling fans by blowing compressed air into them.**

## Error Indication

| Indicator | Meaning | Indicator | Meaning |
|---|---|---|---|
| Focus | Focus error detected | Y_cm | Tilt magnetic sensor error |
| Zoom | Zoom error detected | Y_op | 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 detected | Base Fan2 | Base fan 2 error detected |
| MAGENTA | Magenta error detected | | |
| YELLOW | Yellow error detected | | |
| CTO | CTO error detected | | |
| X_cm1 | Pan magnetic sensor 1 error detected | | |
| X_cm2 | Pan magnetic sensor 2 error detected | | |
| X_op | Pan optocoupler error | | |

# 7. TECHNICAL SPECIFICATIONS

| Dimensions and Weight | Length | Width | Height | 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 inches rounded to the nearest decimal digit.

| Electrical | Power Supply Type | Range | | Voltage Selection |
|---|---|---|---|---|
| | Switching (internal) | 100–240 VAC, 50/60 Hz | | Auto-ranging |
| | **Parameter** | **120 VAC, 60 Hz** | **208 VAC, 60 Hz** | **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./Canada** | | **Worldwide** |
| | Power input connector | True 1 compatible | | True 1 compatible |
| | Power cord plug | Edison (U.S.) | | Local plug |

| Light Source | Type | Power | Lifespan |
|---|---|---|---|
| | LED | 440 W | 50,000 hours |
| | **Color** | **Quantity** | **Current** |
| | CW (cold white) | 1 | 5.6 A |

| Photo Optic | Parameter | Value |
|---|---|---|
| | Illuminance (13°) @ 5 m | 18,079 lux |
| | Illuminance (37°) @ 5 m | 2,518 lux |
| | Beam Angle | 12° to 35° |
| | Field Angle | 13° to 37° |
| | Zoom Angle | 13° to 37° |
| | Color Temperature | 6,808 K |
| | CRI | 73 |
| | Strobe Rate | 0 to 20 Hz |

| DMX | I/O Connector | Channel Range |
|---|---|---|
| | 3- and 5-pin XLR | 24 or 32 |

| Art-Net™/ sACN | I/O Connector | Channel Range |
|---|---|---|
| | etherCON® | 24 or 32 |

| Thermal | Max. External Temperature | Cooling System |
|---|---|---|
| | 113 °F (45 °C) | Fan-Assisted Convection |

| Ordering | 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 www.chauvetlighting.com 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 Chauvet products to them. Visit our website www.chauvetlighting.com for contact details.**

Call the corresponding Chauvet Technical Support office and request a Return Merchandise Authorization (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause for the return.

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

Clearly label the package with the RMA number. Chauvet will 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 following 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 problem

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

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

# CONTACT US

**USA WORLD HEADQUARTERS**
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              Sunrise, FL 33351
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    Toll free: (800) 762-1084

**Technical Support**
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    Fax:    (954) 756-8015
    Email:   tech@chauvetlighting.com

**World Wide Web www.chauvetlighting.com**

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    Voice:    +32 9 388 93 97

**Technical Support**
    Email:   Eutech@chauvetlighting.eu

**World Wide Web www.chauvetlighting.eu**

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**World Wide Web www.chauvetlighting.co.uk**

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    Voice:    +52 (728) 285-5000

**Technical Support**
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W**orld Wide Web www.chauvet.com.mx**

Outside the U.S., United Kingdom, Ireland, Mexico, or Benelux contact the dealer of record. Follow their instructions to request support or to return a product. Visit our website for contact details.

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