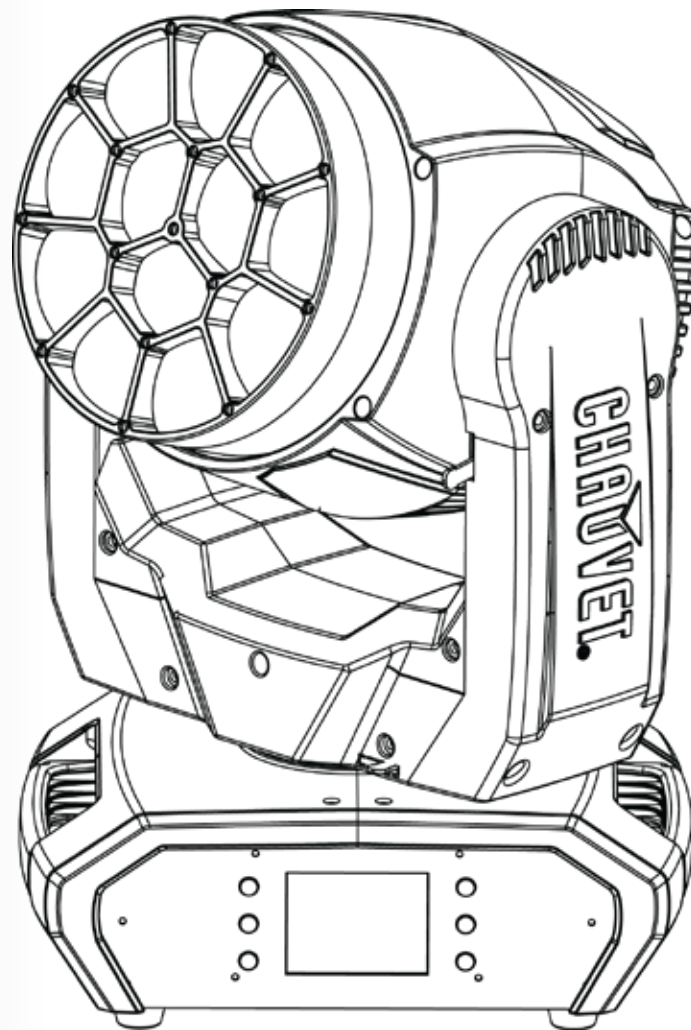# MAVERICK

## MK2 WASH

## User Manual



**CHAUVET**
**PROFESSIONAL**

# Edition Notes

The Maverick MK2 Wash User Manual Rev. 3 covers the description, safety precautions, installation, programming, operation, and maintenance of the Maverick MK2 Wash. Chauvet released this edition of the Maverick MK2 Wash User Manual in 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.

**Disclaimer**  Chauvet believes that the information contained in this manual is accurate in all respects. However, Chauvet assumes no responsibility and specifically disclaims any and all liability to any party for any loss, damage or disruption caused by any errors or omissions in this document, whether such errors or omissions result from negligence, accident or any other cause. Chauvet reserves the right to revise the content of this document without any obligation to notify any person or company of such revision, however, Chauvet has no obligation to make, and does not commit to make, any such revisions.

**Document Revision**  The Maverick MK2 Wash User Manual Rev. 3 is the current edition of this manual. Go to www.chauvetprofessional.com for the latest version.

# Table of Contents

# 1. BEFORE YOU BEGIN

**What Is Included**
- Maverick MK2 Wash
- Seetronic Powerkon power cord
- 2 Omega brackets with mounting hardware
- Warranty card
- Quick Reference Guide

**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 |
| **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 not intended for permanent installation.
- 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** The Maverick MK2 Wash is a fully featured moving head product equipped with 12 quad-color RGBW 40-watt LEDs. Maverick MK2 Wash is a powerful wash product that features smooth pan and tilt operation, a 7° to 49° zoom range, and a unique lens system that gives you an even, professionally combined color wash. The Maverick MK2 Wash runs on Art-Net™, sACN, Kling-Net, DMX, and WDMX protocols, and can be controlled with lighting consoles or media servers, providing the ultimate in flexible control integration options. Convert TCP/IP protocols in to DMX output for shorter cable runs.

**Features**
· 12 RGBW 40 W LEDs
· Zoom from a narrow 7° to a wide 49°.
· Up to 19,000 lux at 5 meters
· Ultra-fast pan/tilt movement
· Control options include Art-Net™, sACN, Kling-Net, DMX, and WDMX
· Seetronic Powerkon in and out ports
· Amphenol XLRnet through ports
· DMX 3- and 5-pin in and out ports
· Built-in TCP/IP to DMX converter
· Built-in web server for remote diagnostics and firmware upgrades

## Overview

**Front View**

**Rear Panel**

Yoke

5-pin DMX In/Out

Ethernet LED Indicators

Antenna

3-pin DMX In/Out

Amphenol XLRnet Through Ports

Seetronic Powerkon In

Fuse-Holder

Seetronic Powerkon Out

Handle (x2)

Rubber Foot (x4)

Touchscreen Display

Menu Buttons
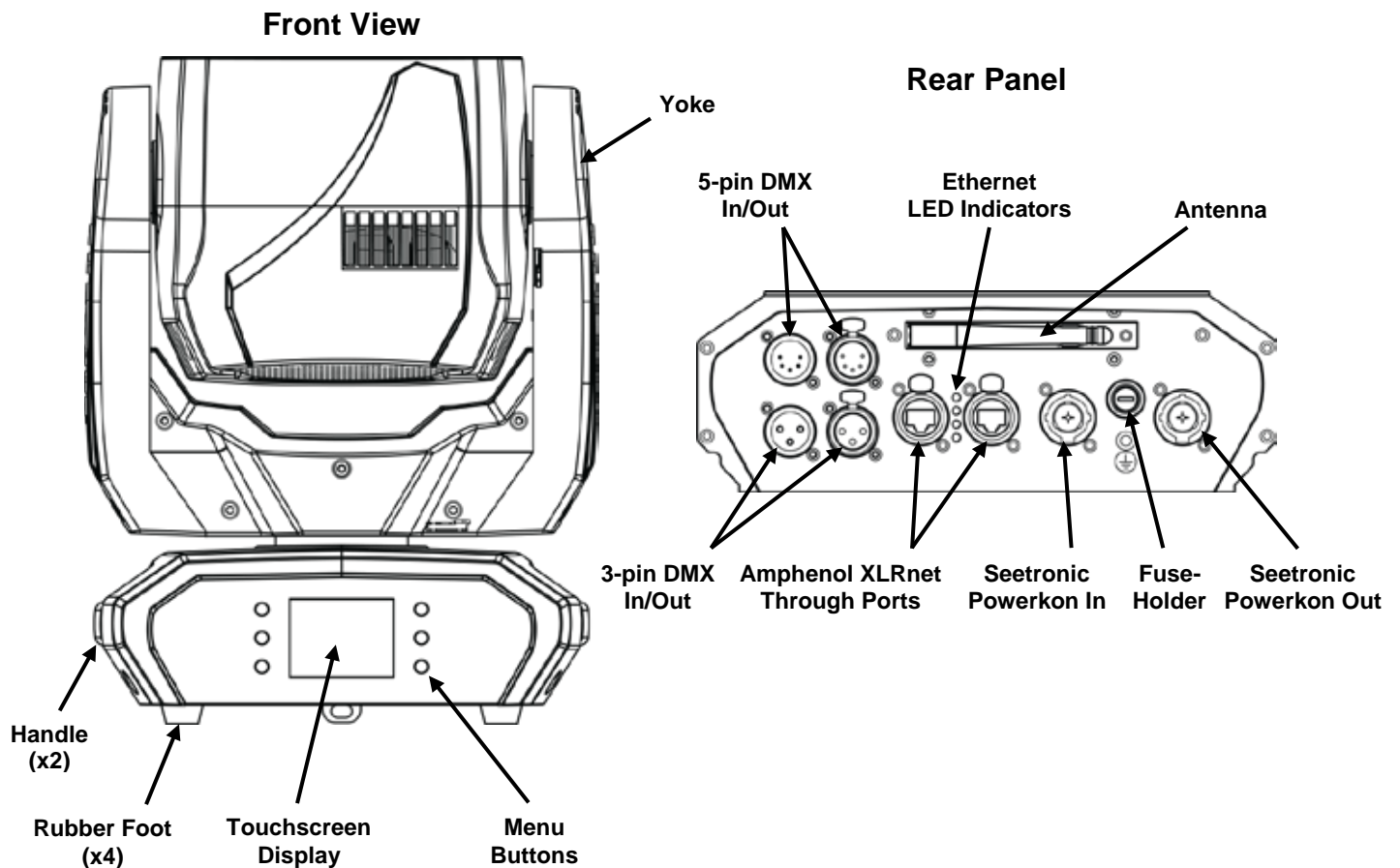
## Dimensions
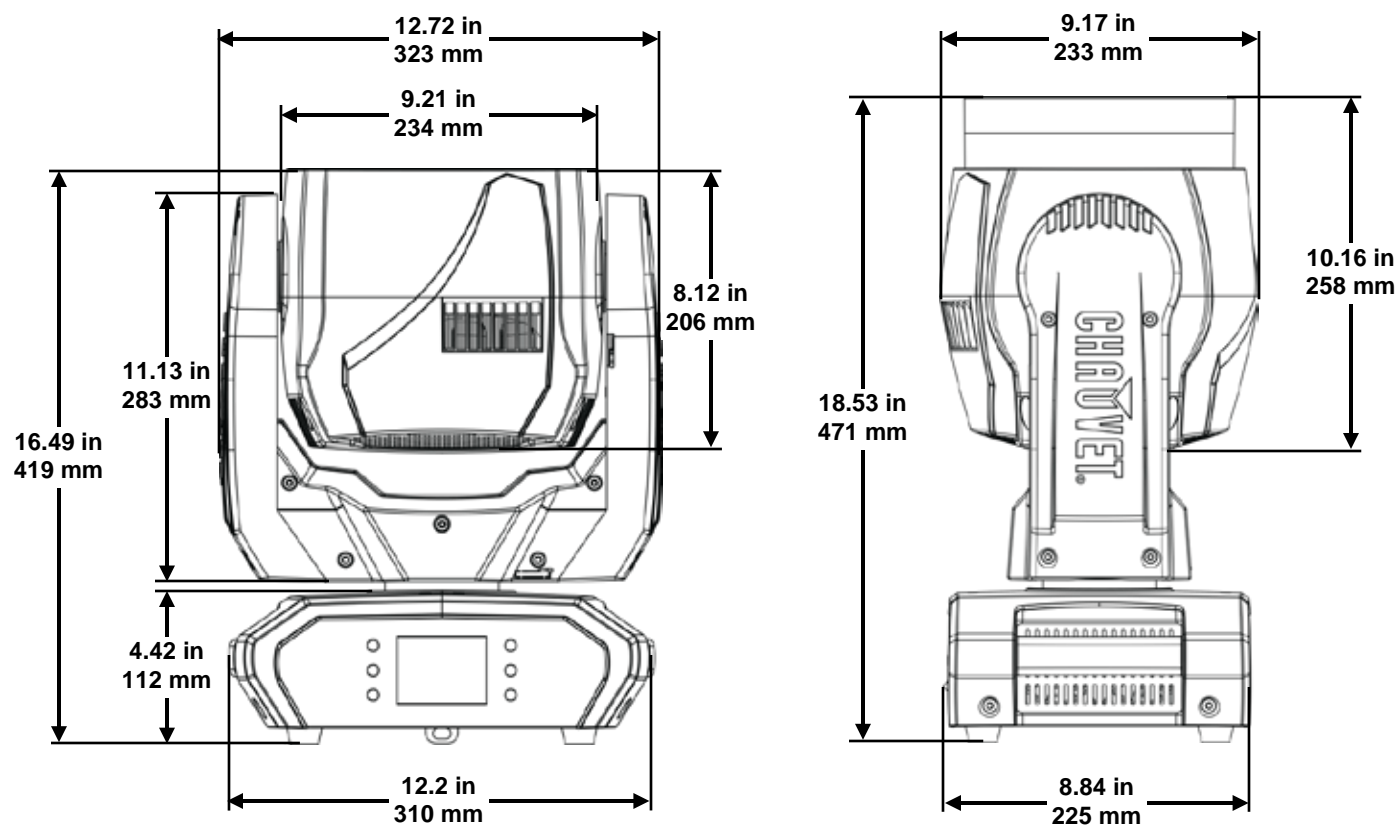
# 3. SETUP

**AC Power**

Each Maverick MK2 Wash 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 Wash, 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 Wash comes with a power input cord terminated with a Seetronic Powerkon 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.**

**Power Linking**

The Maverick MK2 Wash supports power linking. You can power link up to 2 products at 120 V; up to 4 at 208 V; or up to 5 at 230 V.

This product comes with a power input cord. Power linking cables are available from Chauvet for purchase.

**Power Linking Diagram**



Power Source
1st Product
2nd Product    3rd Product
Additional Products
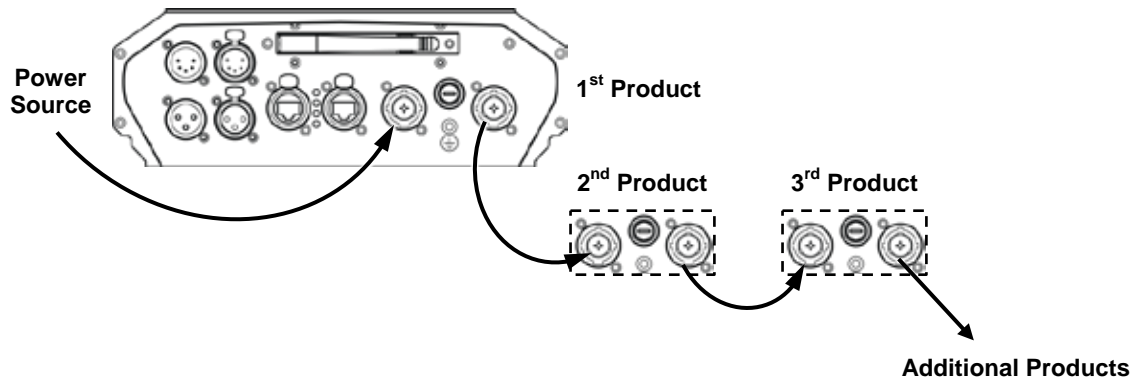
**Mounting**  Before mounting this product, read and follow the Safety Notes. For our CHAUVET Professional line of mounting clamps, go to http://trusst.com/products/.

**Orientation**  Always mount this product in a safe position and make sure there is adequate room for ventilation, configuration, and maintenance. The Maverick MK2 Wash 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.
·  The product is not intended for permanent installation.
·  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 Wash so that it can move freely without hitting anything or anybody.
·  Leave enough slack on the cabled to prevent tension and pull on the plugs.

**Mounting Diagram**



**Mounting Clamp**

**Omega Bracket**

**Safety Cable**

**Rubber Feet (x4)**
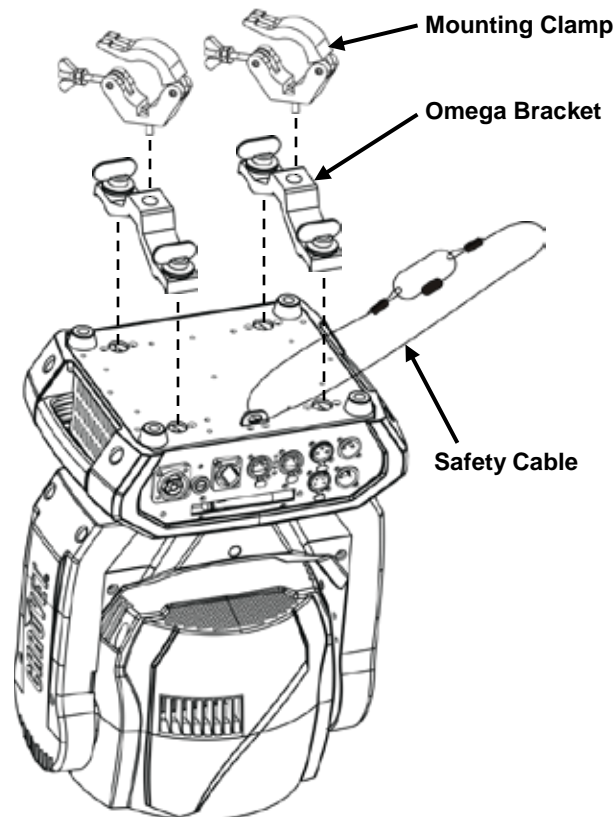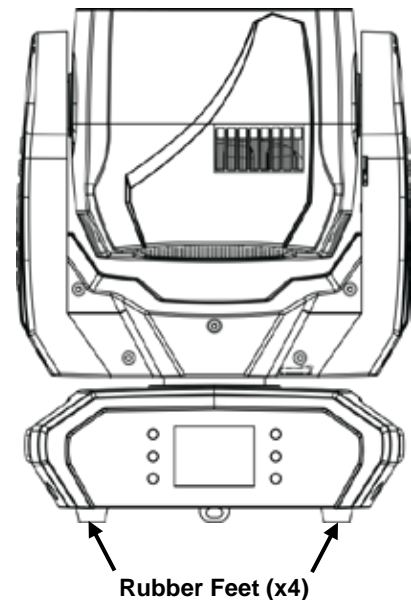
**Overhead Mounting**          **Floor Mounting**

# Signal Connections

The Maverick MK2 Wash can receive DMX, Art-Net™, sACN, or Kling-Net signal. The Maverick MK2 Wash has 2 Neutrik® 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 a large amount of DMX512 data using an Neutrik® 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.

**sACN Connection**

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

**Kling-Net Connection**

Kling-Net is a network protocol that allows auto configuration of display devices using a Neutrik® etherCON® RJ45 Ethernet connection. Refer to the ArKaos software manual for detailed instructions on programming this product.

**ArKaos Kling-Net does not support the pan and tilt functions, and must be paired with another protocol for full functionality with the Maverick MK2 Wash.**



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

**Maverick MK2 Wash**

**Connection Diagram**

**Computer/Controller**
(running Art-Net™, sACN, or Kling-Net protocol)

To other Art-Net™, sACN, or Kling-Net Devices
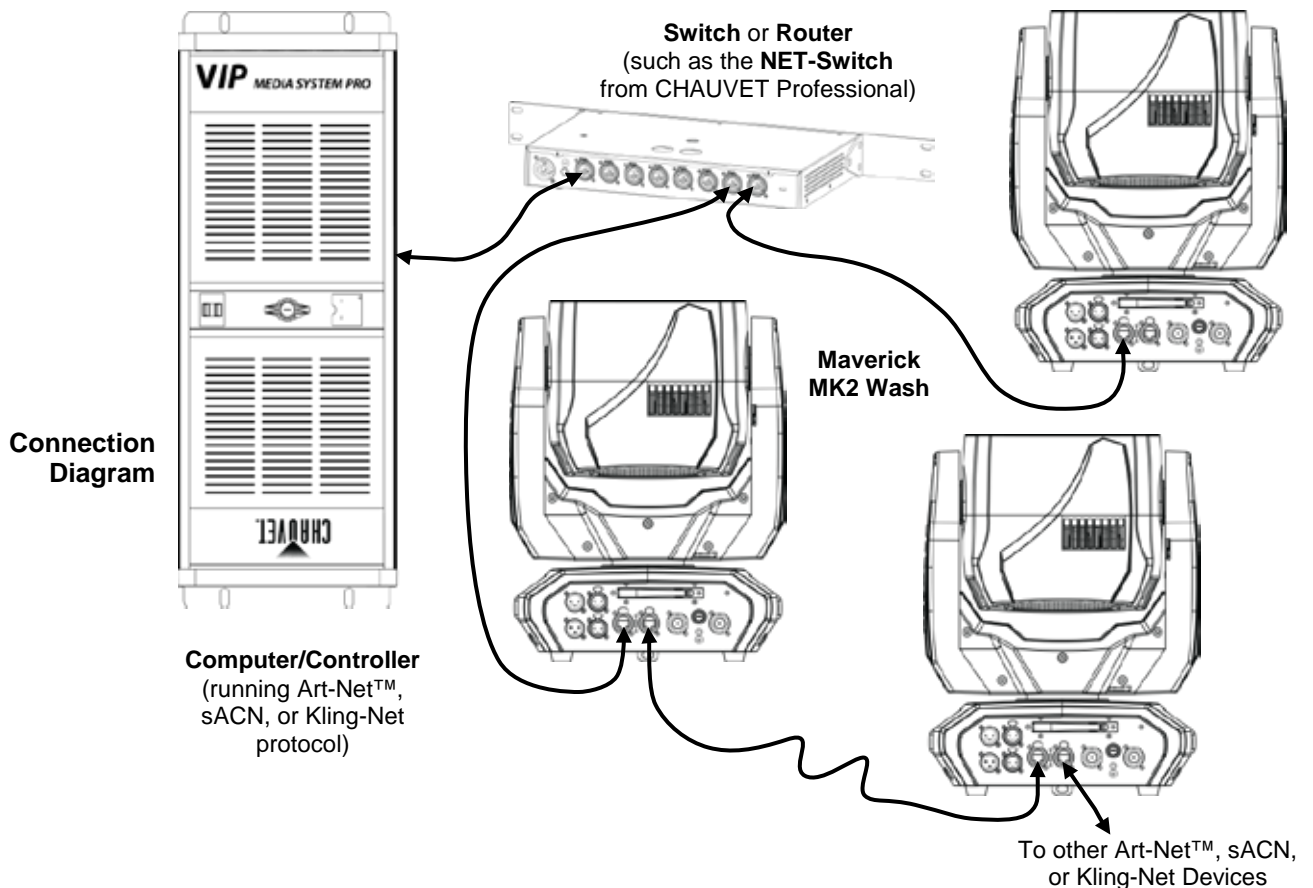
**The three LED indicators in between the Amphenol XLRnet ports indicate a connection to a network and activity on that network. They do not indicate whether or not the Maverick MK2 Wash is receiving a signal from a controller.**

# 4. OPERATION

**Touchscreen Control Panel** The Maverick MK2 Wash 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)

**Control Panel Description**

| Button | Function |
|---|---|
| < ⇧ > <br> (**<UP>**) | Navigates upwards through the menu list or increases the numeric value when in a function |
| <☰> <br> (**<MENU>**) | Exits from the current menu or function |
| < ⇩ > <br> (**<DOWN>**) | Navigates downwards through the menu list or decreases the numeric value when in a function |
| <⇦> <br> (**<LEFT>**) | Navigates leftwards through the menu list |
| <⇦┘> <br> (**<ENTER>**) | Enables the currently displayed menu or sets the currently selected value into the selected function |
| <⇨> <br> (**<RIGHT>**) | Navigates rightwards through the menu list |

## Menu Map

| Main Level | Programming Levels | | | | Description |
|---|---|---|---|---|---|
| **Control Settings** | **Single Control** | **DMX** | **Personality** | **Basic** | Sets the DMX personality, from Basic (20CH), Standard (68CH), Advanced (122CH) or Tour (146CH) |
| | | | | **Standard** | |
| | | | | **Advanced** | |
| | | | | **Tour** | |
| | | | **Start Address** | **001–512** | Sets the DMX starting address |
| | | **ArtNet** | **Personality** | **Basic** | Sets the Art-Net™ personality, from Basic (20CH), Standard (68CH), Advanced (122CH) or Tour (146CH) |
| | | | | **Standard** | |
| | | | | **Advanced** | |
| | | | | **Tour** | |
| | | | **Start Address** | **001–512** | Sets the Art-Net™ starting address |
| | | | **Universe** | **0–254** | Sets the Art-Net™ universe |
| | | **sACN** | **Personality** | **Basic** | Sets the sACN personality, from Basic (20CH), Standard (68CH), Advanced (122CH) or Tour (146CH) |
| | | | | **Standard** | |
| | | | | **Advanced** | |
| | | | | **Tour** | |
| | | | **Start Address** | **001–512** | Sets the sACN starting address |
| | | | **Universe** | **0–255** | Sets the sACN universe |
| | | **WDMX** | **Personality** | **Basic** | Sets the WDMX personality, from Basic (20CH), Standard (68CH), Advanced (122CH) or Tour (146CH) |
| | | | | **Standard** | |
| | | | | **Advanced** | |
| | | | | **Tour** | |
| | | | **Start Address** | **001–512** | Sets the WDMX starting address |

| Main Level | Programming Levels | | | | | Description |
|---|---|---|---|---|---|---|
| **Control Settings** (cont.) | **Dual Control** | **Movement** | **DMX** | **Personality** | **Basic** | Sets the DMX personality, from Basic (8CH), Standard (20CH), or Advanced (26CH) |
| | | | | | **Standard** | |
| | | | | | **Advanced** | |
| | | | | **Start Address** | **001–512** | Sets the DMX starting address |
| | | | **ArtNet** | **Personality** | **Basic** | Sets the Art-Net™ personality, from Basic (8CH), Standard (20CH), or Advanced (26CH) |
| | | | | | **Standard** | |
| | | | | | **Advanced** | |
| | | | | **Start Address** | **001–512** | Sets the Art-Net™ starting address |
| | | | | **Universe** | **0–254** | Sets the Art-Net™ universe |
| | | | **sACN** | **Personality** | **Basic** | Sets the sACN personality, from Basic (8CH), Standard (20CH), or Advanced (26CH) |
| | | | | | **Standard** | |
| | | | | | **Advanced** | |
| | | | | **Start Address** | **001–512** | Sets the sACN starting address |
| | | | | **Universe** | **0–255** | Sets the sACN universe |
| | | **Pixels** | **DMX** | **Personality** | **Basic** | Sets the DMX personality, from Basic (36CH), Standard (48CH), or Advanced (96CH) |
| | | | | | **Standard** | |
| | | | | | **Advanced** | |
| | | | | **Start Address** | **001–512** | Sets the DMX starting address |
| | | | **ArtNet** | **Personality** | **Basic** | Sets the Art-Net™ personality, from Basic (36CH), Standard (48CH), or Advanced (96CH) |
| | | | | | **Standard** | |
| | | | | | **Advanced** | |
| | | | | **Start Address** | **001–512** | Sets the Art-Net™ starting address |
| | | | | **Universe** | **0–254** | Sets the Art-Net™ universe |
| | | | **sACN** | **Personality** | **Basic** | Sets the sACN personality, from Basic (36CH), Standard (48CH), or Advanced (96CH) |
| | | | | | **Standard** | |
| | | | | | **Advanced** | |
| | | | | **Start Address** | **001–512** | Sets the sACN starting address |
| | | | | **Universe** | **0–255** | Sets the sACN universe |
| | | | **KlingNet** | **Personality** | **Basic** | Sets the Kling-Net personality, from Basic (36CH) or Standard (48CH) |
| | | | | | **Standard** | |

**In Dual Control mode, the Movement Protocol and the pixel protocol cannot be the same.**

| Main Level | Programming Levels | | | Description |
|---|---|---|---|---|
| **Test Mode** | **Auto test** | | | Auto test all functions |
| | **Manual test** | **Pan** | **000–255** | Manually control and test all settings through the control panel |
| | | **Tilt** | | |
| | | **P/T Speed** | | |
| | | **Red** | | |
| | | **Green** | | |
| | | **Blue** | | |
| | | **White** | | |
| | | **CTC** | | |
| | | **Color** | | |
| | | **Pattern** | | |
| | | **LED Macro** | | |
| | | **LED Ma. Speed** | | |
| | | **LED Ma. Fade** | | |
| | | **Background** | | |
| | | **Background Dim.** | | |
| | | **Dimmer** | | |
| | | **Shutter** | | |
| | | **Function** | | |
| | | **Zoom** | | |
| **Setup** | **Network Settings** | **Ethernet To DMX** | **NO** | Do not convert ethernet in to DMX out |
| | | | **YES** | Convert ethernet in to DMX out |
| | | **IP Mode** | **Manual** | Manually set IP address |
| | | | **DHCP** | Network sets IP address |
| | | | **Static** | Product sets IP address |
| | | **IP** | _ _ _._ _ _._ _ _._ _ _ | Set IP address in Manual mode |
| | | **SubMask** | _ _ _._ _ _._ _ _._ _ _ | Set Subnet Mask in Manual mode |
| | **Pan Reverse** | **NO** | | Normal pan |
| | | **YES** | | Reversed pan |
| | **Tilt Reverse** | **NO** | | Normal tilt |
| | | **YES** | | Reversed tilt |
| | **Zoom Reverse** | **NO** | | Normal zoom |
| | | **YES** | | Reversed zoom |
| | **Screen Reverse** | **NO** | | Normal display |
| | | **YES** | | Inverted display |
| | | **AUTO** | | Automatic display orientation |
| | **Pan Angle** | **540** | | 540° pan range |
| | | **360** | | 360° pan range |
| | | **180** | | 180° pan range |
| | **Tilt Angle** | **540** | | 540° tilt range |
| | | **270** | | 270° tilt range |
| | | **180** | | 180° tilt range |
| | **BL. O. P/T Move** | **NO** | | Do not black out while panning/tilting |
| | | **YES** | | Black out while panning/tilting |
| | **Calibration** | **NO** | | Keep current settings |
| | | **YES** | | Calibrate touchscreen |
| | **Touchscreen Lock** | **NO** | | Display responds to touch |
| | | **YES** | | Display does not respond to touch |
| | **Lock Screen** | **NO** | | Locks the buttons and touchscreen. |
| | | **YES** | | Passcode to unlock: 0920 |

| Main Level | Programming Levels | | | Description |
|---|---|---|---|---|
| **Setup** (cont.) | **Swap XY** | NO | | Do not swap pan and tilt |
| | | YES | | Swap pan and tilt |
| | **XY Mode** | Slow | | Slow panning and tilting |
| | | Fast | | Fast panning and tilting |
| | **WDMX Reset** | NO | | Do not reset WDMX |
| | | YES | | Reset WDMX |
| | **Backlight Timer** | 30S | | Display turns off after 30 seconds |
| | | 1M | | Display turns off after 1 minute |
| | | 5M | | Display turns off after 5 minutes |
| | | ON | | Display stays on at all times |
| | **Loss of Data** | Hold | | Hold last signal received at signal loss |
| | | Close | | Black out the product at signal loss |
| | **Fans** | Auto | | Fan speed set according to product temperature |
| | | Full | | Fan speed at highest setting |
| | | ECO | | Quiet running mode |
| | **C Mixing Mode** | RGBW | | Additive color mixing (0=0, 255=100%) |
| | | CMY | | Subtractive color mixing (0=100%, 255=0) |
| | **Dimmer Curve** | Linear | | Set the dimmer curve |
| | | Square | | |
| | | I Squa | | |
| | | SCurve | | |
| | **Dimmer Speed** | Smooth | | Set the dimmer speed |
| | | Fast | | |
| | **Color Balance** | Red | 100–255 | Sets red LED maximum value |
| | | Green | | Sets green LED maximum value |
| | | Blue | | Sets blue LED maximum value |
| | | White | | Sets white LED maximum value |
| | **Reset Function** | Pan | NO | Reset individual functions or all functions from start-up |
| | | | YES | |
| | | Tilt | NO | |
| | | | YES | |
| | | All | NO | |
| | | | YES | |
| | **Factory Settings** | NO | | Reset to factory default settings |
| | | YES | | |

| Main Level | Programming Levels | | | Description |
|---|---|---|---|---|
| | **Fixture Information** | **Ver** | **V_** | Shows firmware version |
| | | **Running Mode** | _ _ _ | Shows current running mode |
| | | **Address** | _ _ _ | Shows current starting address |
| | | **Temperature** | _ _ | Shows current product temperature in °C |
| | | **Fixture Hours** | _ _ _ _ _ | Shows number of hours product has been powered on |
| | | **IP** | _ _ _._ _ _._ _ _._ _ _ | Shows current IP address |
| | | **SubMask** | _ _ _._ _ _._ _ _._ _ _ | Shows current Subnet Mask |
| | | **MAC** | _ _._ _._ _._ _._ _._ _ | Shows current MAC address |
| | **Fan Information** | **Head Fan1 Speed** | _ _ _ _ | Shows speed of head fans in rpm |
| | | **Head Fan2 Speed** | _ _ _ _ | |
| | **Error Information** | **No Error!*** | | Shows any errors, or No Error! |
| **Sys Info** | **Channel Information** | **Frequency** | _ _ _ | Shows all current values from input signals, 000–255 |
| | | **Pan** | | |
| | | **Pan Fine** | | |
| | | **Tilt** | | |
| | | **Tilt Fine** | | |
| | | **CTC** | | |
| | | **Color** | | |
| | | **Pattern** | | |
| | | **LED Macro** | | |
| | | **LED Ma. Speed** | | |
| | | **LED Ma. Fade** | | |
| | | **Background** | | |
| | | **Background Dim.** | | |
| | | **Bg. Dim. Fine** | | |
| | | **Dimmer** | | |
| | | **Dimmer Fine** | | |
| | | **Shutter** | | |
| | | **Zoom** | | |
| | | **Functions** | | |
| | | **Red** (main, **1–12**) | | |
| | | **Red Fine** (main, **1–12**) | | |
| | | **Green** (main, **1–12**) | | |
| | | **Green Fine** (main, **1–12**) | | |
| | | **Blue** (main, **1–12**) | | |
| | | **Blue Fine** (main, **1–12**) | | |
| | | **White** (main, **1–12**) | | |
| | | **White Fine** (main, **1–12**) | | |

# Protocol Configuration

The Maverick MK2 Wash can be set to respond to DMX, WDMX, Art-Net™, sACN, Kling-Net, or a combination of those protocols. The protocol configuration must be set for the product to respond correctly to the controller(s). See the <u>Menu Map</u> for more information.

## Single Control

In Single Control mode, the Maverick MK2 Wash is controlled by a single protocol input. Choose from DMX, Art-Net™, sACN, or WDMX. In this mode, the three personalities available are **Basic** (20 channels), **Standard** (68 channels), and **Advanced** (122 channels).

**Single Control Protocol**
To select the Single Control protocol, 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 **Control Settings**, or touch the display where it says **Control Settings**.
3. If using the buttons instead of the touchscreen, press **<ENTER>**.
4. Use **<UP>** or **<DOWN>** to select **Single Control**, or touch the display where it says **Single Control**.
5. If using the buttons instead of the touchscreen, press **<ENTER>**.
6. Use **<UP>** or **<DOWN>** to select from **DMX**, **ArtNet**, **sACN**, or **WDMX**, or touch the display where it says the desired protocol option.
7. If using the buttons instead of the touchscreen, press **<ENTER>**.

**Single Control Personality**
To select the Single Control personality, set the <u>Protocol</u>, then do the following:
1. Use **<UP>** or **<DOWN>** to select **Personality**, or touch the display where it says **Personality**.
2. If using the buttons instead of the touchscreen, press **<ENTER>**.
3. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select from **Basic** (20-channel), **Standard** (68-channel), or **Advanced** (122-channel), or touch the display where it says the desired personality.
4. If using the buttons instead of the touchscreen, press **<ENTER>**.

(i) **For WDMX control, ensure the antenna is raised and there are no obstructions between the controller and the product. See <u>WDMX Reset</u> for troubleshooting information.**

**Single Control Start Address**
To set the starting address of the Single Control mode, set the <u>Protocol</u>, then follow the instructions below:
1. Use **<UP>** or **<DOWN>** to select **Start Address**, or touch the display where it says **Start Address**.
2. If using the buttons instead of the touchscreen, press **<ENTER>**.
3. 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.
4. Press **<ENTER>**.

**Single Control Universe**
To set the Universe address of the Single Control mode when using Art-Net™ or sACN, set the <u>Protocol</u> to **ArtNet** or **sACN**, then do the following:
1. Use **<UP>** or **<DOWN>** to select **Universe**, or touch the display where it says **Universe**.
2. If using the buttons instead of the touchscreen, press **<ENTER>**.
3. 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 is set as desired.
4. Press **<ENTER>**.

## Dual Control

In Dual Control mode, the Maverick MK2 Wash is controlled by two protocol inputs. One controls the movement of the yoke and zoom, as well as the dimmers and shutter, while the other controls the individual LED output.

**Dual Control Movement**
The Movement protocol controls the movement of the yoke and zoom, as well as the dimmers and shutter. Choose from DMX, Art-Net™, or sACN. In this mode, the three personalities available are **Basic** (8 channels), **Standard** (20 channels), and **Advanced** (26 channels).

**Dual Control Movement Protocol**
To select the Dual Control Movement protocol, 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 **Control Settings**, or touch the display where it says **Control Settings**.
3. If using the buttons instead of the touchscreen, press **<ENTER>**.
4. Use **<UP>** or **<DOWN>** to select **Dual Control**, or touch the display where it says **Dual Control**.
5. If using the buttons instead of the touchscreen, press **<ENTER>**.
6. Use **<UP>** or **<DOWN>** to select **Movement**, or touch the display where it says **Movement**.
7. If using the buttons instead of the touchscreen, press **<ENTER>**.
8. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select from **DMX**, **ArtNet**, or **sACN**, or touch the display where it says the desired protocol option.
9. If using the buttons instead of the touchscreen, press **<ENTER>**.

**Dual Control Movement Personality**
To select the Dual Control Movement personality, set the Protocol, then do the following:
1. Use **<UP>** or **<DOWN>** to select **Personality**, or touch the display where it says **Personality**.
2. If using the buttons instead of the touchscreen, press **<ENTER>**.
3. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select from **Basic** (8-channel), **Standard** (20-channel), or **Advanced** (26-channel), or touch the display where it says the desired personality.
4. If using the buttons instead of the touchscreen, press **<ENTER>**.

**Dual Control Movement Start Address**
To set the starting address of the Dual Control Movement mode, set the Protocol, then follow the instructions below:
1. Use **<UP>** or **<DOWN>** to select **Start Address**, or touch the display where it says **Start Address**.
2. If using the buttons instead of the touchscreen, press **<ENTER>**.
3. 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.
4. Press **<ENTER>**.

**Dual Control Movement Universe**
To set the Universe address of the Dual Control Movement mode when using Art-Net™ or sACN, set the Protocol to **ArtNet** or **sACN**, then do the following:
1. Use **<UP>** or **<DOWN>** to select **Universe**, or touch the display where it says **Universe**.
2. If using the buttons instead of the touchscreen, press **<ENTER>**.
3. 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 is set as desired.
4. Press **<ENTER>**.

**Dual Control Pixel** The Pixel protocol controls the individual output of the LEDs. Choose from DMX, Art-Net™, sACN, or Kling-Net. In this mode, the three personalities available are **Basic** (36 channels), **Standard** (48 channels), and **Advanced** (96 channels).

**Dual Control Pixel Protocol** To select the Dual Control Pixel protocol, 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 **Control Settings**, or touch the display where it says **Control Settings**.
3. If using the buttons instead of the touchscreen, press **<ENTER>**.
4. Use **<UP>** or **<DOWN>** to select **Dual Control**, or touch the display where it says **Dual Control**.
5. If using the buttons instead of the touchscreen, press **<ENTER>**.
6. Use **<UP>** or **<DOWN>** to select **Pixel**, or touch the display where it says **Pixel**.
7. If using the buttons instead of the touchscreen, press **<ENTER>**.
8. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select from **DMX**, **ArtNet**, **sACN**, or **KlingNet**, or touch the display where it says the desired protocol option.
9. If using the buttons instead of the touchscreen, press **<ENTER>**.

**Dual Control Pixel Personality** To select the Dual Control Pixel personality, set the <u>Protocol</u>, then do the following:
1. Use **<UP>** or **<DOWN>** to select **Personality**, or touch the display where it says **Personality**.
2. If using the buttons instead of the touchscreen, press **<ENTER>**.
3. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select from **Basic** (36-channel), **Standard** (48-channel), or **Advanced** (96-channel), or touch the display where it says the desired personality.
4. If using the buttons instead of the touchscreen, press **<ENTER>**.

📝 **Kling-Net can only be assigned the Basic and Standard personalities.**

**Dual Control Pixel Start Address** To set the starting address of the Dual Control Pixel mode, set the <u>Protocol</u>, then follow the instructions below:
1. Use **<UP>** or **<DOWN>** to select **Start Address**, or touch the display where it says **Start Address**.
2. If using the buttons instead of the touchscreen, press **<ENTER>**.
3. 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.
4. Press **<ENTER>**.

**Dual Control Pixel Universe** To set the Universe address of the Dual Control Pixel mode when using Art-Net™ or sACN, set the <u>Protocol</u> to **ArtNet** or **sACN**, then do the following:
1. Use **<UP>** or **<DOWN>** to select **Universe**, or touch the display where it says **Universe**.
2. If using the buttons instead of the touchscreen, press **<ENTER>**.
3. 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 is set as desired.
4. Press **<ENTER>**.

## Zones for Pixel control



## DMX Values

| Channel | Function | Value | Percent/Setting |
|---|---|---|---|
| **Tour Mode** (146 Channel) | | | |
| **1** | Pan | 000ϭ255 | 0–100% |
| **2** | Pan Fine | 000ϭ255 | 0–100% |
| **3** | Tilt | 000ϭ255 | 0–100% |
| **4** | Tilt Fine | 000ϭ255 | 0–100% |
| **5** | CTC | 000 | No Function |
| | | 001ϭ255 | Color Temperature 19000K – 2700K |
| **6** | Color | 000 | No Function |
| | | 001ϭ255 | Color Macros |
| **7** | **Virtual Gobo/ Patterns** | 000ϭ009 | No function |
| | | 010ϭ255 | On/Off presets (Indexed) |
| **8** | **LED Macro / Auto Program** | 000ϭ015 | No function |
| | | 016ϭ135 | LED macros |
| | | 136ϭ255 | Auto programs |
| **9** | **LED Macro / Auto Program Speed** | 000ϭ127 | Fast to slow |
| | | 128 | Hold |
| | | 129ϭ255 | Slow to fast |
| **10** | **LED built-in delay** | 000ϭ255 | Fast to slow |
| **11** | **Background Color** | 000 | No function |
| | | 001ϭ002 | white 2700K(R=156   G=118   B=0   W=63) |
| | | 003ϭ004 | white 3200K(R=156   G=141   B=5   W=89) |
| | | 005ϭ006 | white 4200K(R=156   G=141   B=14   W=255) |
| | | 007ϭ008 | white 5600K(R=156   G=207   B=54   W=255) |
| | | 009ϭ010 | white 8000K(R=130   G=255   B=96   W=255) |
| | | 011 | blue   R=0   G=0   B=255   W=0 |
| | | 012ϭ048 | R=0   G+   B=255   W=0 |
| | | 049 | cyan   R=0   G=255   B=255   W=0 |
| | | 050ϭ086 | R=0   G=255   B-   W=0 |
| | | 087 | green   R=0   G=255   B=0   W=0 |
| | | 088ϭ124 | R+   G=255   B=0   W=0 |
| | | 125 | yellow   R=255   G=255   B=0   W=0 |
| | | 126ϭ162 | R=255   G-   B=0   W=0 |
| | | 163 | red   R=255   G=0   B=0   W=0 |
| | | 164ϭ200 | R=255   G=0   B+   W=0 |
| | | 201 | magenta   R=255   G=0   B=255   W=0 |
| | | 202ϭ238 | R+   G=0   B=255   W=0 |
| | | 239 | blue   R=0   G=0   B=255   W=0 |
| | | 240ϭ247 | Color change, fast to slow |
| | | 248ϭ255 | Color jump, fast to slow |

**Tour Mode**
(146 Channel)

| Channel | Function | Value | Percent/Setting |
|---|---|---|---|
| 12 | BC Dimmer | 000ó255 | 0–100% |
| 13 | BC Fine Dimmer | 000ó255 | 0–100% |
| 14 | Main Dimmer | 000ó255 | 0–100% |
| 15 | Fine Main Dimmer | 000ó255 | 0–100% |
| 16 | Shutter | 000ó019 | Off |
| | | 020ó024 | On |
| | | 025ó064 | Strobe 1, fast to slow |
| | | 065ó069 | On |
| | | 070ó084 | Strobe 2 (Fast on, slow off) fast to slow |
| | | 085ó089 | On |
| | | 090ó104 | Strobe 3 (Slow on, fast off) fast to slow |
| | | 105ó109 | On |
| | | 110ó124 | Strobe 4 (Random) fast to slow |
| | | 125ó129 | On |
| | | 130ó144 | Strobe 5 (Random fast on, slow off) fast to slow |
| | | 145ó149 | On |
| | | 150ó164 | Strobe 6 (Random slow on, fast off) fast to slow |
| | | 165ó169 | On |
| | | 170ó184 | Strobe 7 (Pulse) fast to slow |
| | | 185ó189 | On |
| | | 190ó204 | Strobe 8 (Random pulse) fast to slow |
| | | 205ó209 | On |
| | | 210ó224 | Strobe 9 (Fade in, fade out) fast to slow |
| | | 225ó229 | On |
| | | 230ó244 | Strobe 10 (Random pulse) fast to  slow |
| | | 245ó255 | On |
| 17 | Zoom | 000ó255 | Narrow to wide |
| 18 | Control | 000ó009 | No function |
| | | 010ó014 | Pan/tilt blackout |
| | | 015ó019 | No function (reserved for future use) |
| | | 020ó024 | RGBW color mixing mode (additive) |
| | | 025ó029 | CMY color mixing mode (subtractive) |
| | | 030ó049 | No function (reserved for future use) |
| | | 050ó054 | Pan reset |
| | | 055ó059 | Tilt reset |
| | | 060ó064 | Zoom reset |
| | | 065ó069 | No function (reserved for future use) |
| | | 070ó074 | Reset all |
| | | 075ó109 | No function (reserved for future use) |
| | | 110ó114 | Pan/tilt speed fast |
| | | 115ó119 | Pan/tilt speed slow |
| | | 120ó124 | Fan mode slow |
| | | 125ó129 | Fan mode full |
| | | 130ó134 | Fan mode auto |
| | | 135ó139 | Dimmer mode fast |
| | | 140ó144 | Dimmer mode slow |
| | | 145ó255 | No function (reserved for future use) |
| 19 | R (C) Main | 000ó255 | 0–100% |
| 20 | R (C) Main Fine | 000ó255 | 0–100% |
| 21 | G (M) Main | 000ó255 | 0–100% |
| 22 | G (M) Main Fine | 000ó255 | 0–100% |
| 23 | B (Y) Main | 000ó255 | 0–100% |
| 24 | B (Y)Main Fine | 000ó255 | 0–100% |
| 25 | W Main | 000ó255 | 0–100% |
| 26 | W Main Fine | 000ó255 | 0–100% |
| 27 | Dimmer 1 | 000ó255 | 0–100% |

| | Channel | Function | Value | Percent/Setting |
|---|---|---|---|---|
| **Tour Mode**<br>(146 Channel) | 28 | Dimmer 1 Fine | 000ꚃ255 | 0–100% |
| | 29 | R (C) 1 | 000ꚃ255 | 0–100% |
| | 30 | R (C) 1 Fine | 000ꚃ255 | 0–100% |
| | 31 | G (M) 1 | 000ꚃ255 | 0–100% |
| | 32 | G (M) 1 Fine | 000ꚃ255 | 0–100% |
| | 33 | B (Y) 1 | 000ꚃ255 | 0–100% |
| | 34 | B (Y)1 Fine | 000ꚃ255 | 0–100% |
| | 35 | W 1 | 000ꚃ255 | 0–100% |
| | 36 | W 1 Fine | 000ꚃ255 | 0–100% |
| | 37 | Dimmer 2 | 000ꚃ255 | 0–100% |
| | 38 | Dimmer 2 Fine | 000ꚃ255 | 0–100% |
| | 39 | R (C) 2 | 000ꚃ255 | 0–100% |
| | 40 | R (C) 2 Fine | 000ꚃ255 | 0–100% |
| | 41 | G (M) 2 | 000ꚃ255 | 0–100% |
| | 42 | G (M) 2 Fine | 000ꚃ255 | 0–100% |
| | 43 | B (Y) 2 | 000ꚃ255 | 0–100% |
| | 44 | B (Y)2 Fine | 000ꚃ255 | 0–100% |
| | 45 | W 2 | 000ꚃ255 | 0–100% |
| | 46 | W 2 Fine | 000ꚃ255 | 0–100% |
| | 47 | Dimmer 2 | 000ꚃ255 | 0–100% |
| | 48 | Dimmer 2 Fine | 000ꚃ255 | 0–100% |
| | 49 | R (C) 2 | 000ꚃ255 | 0–100% |
| | 50 | R (C) 2 Fine | 000ꚃ255 | 0–100% |
| | 51 | G (M) 2 | 000ꚃ255 | 0–100% |
| | 52 | G (M) 2 Fine | 000ꚃ255 | 0–100% |
| | 53 | B (Y) 2 | 000ꚃ255 | 0–100% |
| | 54 | B (Y)2 Fine | 000ꚃ255 | 0–100% |
| | 55 | W 2 | 000ꚃ255 | 0–100% |
| | 56 | W 2 Fine | 000ꚃ255 | 0–100% |
| | 57 | Dimmer 2 | 000ꚃ255 | 0–100% |
| | 58 | Dimmer 2 Fine | 000ꚃ255 | 0–100% |
| | 59 | R (C) 2 | 000ꚃ255 | 0–100% |
| | 60 | R (C) 2 Fine | 000ꚃ255 | 0–100% |
| | 61 | G (M) 2 | 000ꚃ255 | 0–100% |
| | 62 | G (M) 2 Fine | 000ꚃ255 | 0–100% |
| | 63 | B (Y) 2 | 000ꚃ255 | 0–100% |
| | 64 | B (Y)2 Fine | 000ꚃ255 | 0–100% |
| | 65 | W 2 | 000ꚃ255 | 0–100% |
| | 66 | W 2 Fine | 000ꚃ255 | 0–100% |
| | 67 | Dimmer 2 | 000ꚃ255 | 0–100% |
| | 68 | Dimmer 2 Fine | 000ꚃ255 | 0–100% |
| | 69 | R (C) 2 | 000ꚃ255 | 0–100% |
| | 70 | R (C) 2 Fine | 000ꚃ255 | 0–100% |
| | 71 | G (M) 2 | 000ꚃ255 | 0–100% |
| | 72 | G (M) 2 Fine | 000ꚃ255 | 0–100% |
| | 73 | B (Y) 2 | 000ꚃ255 | 0–100% |
| | 74 | B (Y)2 Fine | 000ꚃ255 | 0–100% |
| | 75 | W 2 | 000ꚃ255 | 0–100% |
| | 76 | W 2 Fine | 000ꚃ255 | 0–100% |
| | 77 | Dimmer 2 | 000ꚃ255 | 0–100% |
| | 78 | Dimmer 2 Fine | 000ꚃ255 | 0–100% |
| | 79 | R (C) 2 | 000ꚃ255 | 0–100% |
| | 80 | R (C) 2 Fine | 000ꚃ255 | 0–100% |
| | 81 | G (M) 2 | 000ꚃ255 | 0–100% |

**Tour Mode**
(146 Channel)

| Channel | Function | Value | Percent/Setting |
|---|---|---|---|
| 82 | G (M) 2 Fine | 000➔255 | 0–100% |
| 83 | B (Y) 2 | 000➔255 | 0–100% |
| 84 | B (Y)2 Fine | 000➔255 | 0–100% |
| 85 | W 2 | 000➔255 | 0–100% |
| 86 | W 2 Fine | 000➔255 | 0–100% |
| 87 | Dimmer 2 | 000➔255 | 0–100% |
| 88 | Dimmer 2 Fine | 000➔255 | 0–100% |
| 89 | R (C) 2 | 000➔255 | 0–100% |
| 90 | R (C) 2 Fine | 000➔255 | 0–100% |
| 91 | G (M) 2 | 000➔255 | 0–100% |
| 92 | G (M) 2 Fine | 000➔255 | 0–100% |
| 93 | B (Y) 2 | 000➔255 | 0–100% |
| 94 | B (Y)2 Fine | 000➔255 | 0–100% |
| 95 | W 2 | 000➔255 | 0–100% |
| 96 | W 2 Fine | 000➔255 | 0–100% |
| 97 | Dimmer 2 | 000➔255 | 0–100% |
| 98 | Dimmer 2 Fine | 000➔255 | 0–100% |
| 99 | R (C) 2 | 000➔255 | 0–100% |
| 100 | R (C) 2 Fine | 000➔255 | 0–100% |
| 101 | G (M) 2 | 000➔255 | 0–100% |
| 102 | G (M) 2 Fine | 000➔255 | 0–100% |
| 103 | B (Y) 2 | 000➔255 | 0–100% |
| 104 | B (Y)2 Fine | 000➔255 | 0–100% |
| 105 | W 2 | 000➔255 | 0–100% |
| 106 | W 2 Fine | 000➔255 | 0–100% |
| 107 | Dimmer 2 | 000➔255 | 0–100% |
| 108 | Dimmer 2 Fine | 000➔255 | 0–100% |
| 109 | R (C) 2 | 000➔255 | 0–100% |
| 110 | R (C) 2 Fine | 000➔255 | 0–100% |
| 111 | G (M) 2 | 000➔255 | 0–100% |
| 112 | G (M) 2 Fine | 000➔255 | 0–100% |
| 113 | B (Y) 2 | 000➔255 | 0–100% |
| 114 | B (Y)2 Fine | 000➔255 | 0–100% |
| 115 | W 2 | 000➔255 | 0–100% |
| 116 | W 2 Fine | 000➔255 | 0–100% |
| 117 | Dimmer 2 | 000➔255 | 0–100% |
| 118 | Dimmer 2 Fine | 000➔255 | 0–100% |
| 119 | R (C) 2 | 000➔255 | 0–100% |
| 120 | R (C) 2 Fine | 000➔255 | 0–100% |
| 121 | G (M) 2 | 000➔255 | 0–100% |
| 122 | G (M) 2 Fine | 000➔255 | 0–100% |
| 123 | B (Y) 2 | 000➔255 | 0–100% |
| 124 | B (Y)2 Fine | 000➔255 | 0–100% |
| 125 | W 2 | 000➔255 | 0–100% |
| 126 | W 2 Fine | 000➔255 | 0–100% |
| 127 | Dimmer 2 | 000➔255 | 0–100% |
| 128 | Dimmer 2 Fine | 000➔255 | 0–100% |
| 129 | R (C) 2 | 000➔255 | 0–100% |
| 130 | R (C) 2 Fine | 000➔255 | 0–100% |
| 131 | G (M) 2 | 000➔255 | 0–100% |
| 132 | G (M) 2 Fine | 000➔255 | 0–100% |
| 133 | B (Y) 2 | 000➔255 | 0–100% |
| 134 | B (Y)2 Fine | 000➔255 | 0–100% |

**Tour Mode**
(146 Channel)

| Channel | Function | Value | Percent/Setting |
|---|---|---|---|
| 135 | W 2 | 000➙255 | 0–100% |
| 136 | W 2 Fine | 000➙255 | 0–100% |
| 137 | Dimmer 12 | 000➙255 | 0–100% |
| 138 | Dimmer 12 Fine | 000➙255 | 0–100% |
| 139 | R (C) 12 | 000➙255 | 0–100% |
| 140 | R (C) 12 Fine | 000➙255 | 0–100% |
| 141 | G (M) 12 | 000➙255 | 0–100% |
| 142 | G (M) 12 Fine | 000➙255 | 0–100% |
| 143 | B (Y) 12 | 000➙255 | 0–100% |
| 144 | B (Y) 12 Fine | 000➙255 | 0–100% |
| 145 | W 12 | 000➙255 | 0–100% |
| 146 | W 12 Fine | 000➙255 | 0–100% |

## Single Control Values

**Advanced Mode**
(122-channel)

| 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 | CTC | 000 | No function |
| | | 001➙255 | Color temperature 1900K to 2700K |
| 6 | Color Macro | 000 | No function |
| | | 001➙255 | Color macros |
| 7 | On/Off Preset | 000➙009 | No function |
| | | 010➙255 | On/Off presets |
| 8 | LED Macro/Auto Program | 000➙015 | No function |
| | | 016➙135 | LED macros |
| | | 136➙255 | Auto programs |
| 9 | LED Macro/Auto Program Speed | 000➙127 | Fast to slow |
| | | 128 | Hold |
| | | 129➙255 | Slow to fast |
| 10 | LED Macro Fade | 000➙255 | Fast to slow |
| 11 | Background Color Macro | 000 | No function |
| | | 001➙255 | Background color macros |
| 12 | Background Dimmer | 000➙255 | 0–100% |
| 13 | Background Fine Dimmer | 000➙255 | 0–100% |
| 14 | Main Dimmer | 000➙255 | 0–100% |
| 15 | Main Fine Dimmer | 000➙255 | 0–100% |

| Advanced Mode | Channel | Function | Value | Percent/Settings |
|---|---|---|---|---|
| (122-channel cont.) | | | 000⚫019 | Off |
| | | | 020⚫024 | On |
| | | | 025⚫064 | Strobe 1, fast to slow |
| | | | 065⚫069 | On |
| | | | 070⚫084 | Strobe 2 (Fast on, slow off), fast to slow |
| | | | 085⚫089 | On |
| | | | 090⚫104 | Strobe 3 (Slow on, fast off), fast to slow |
| | | | 104⚫109 | On |
| | | | 110⚫124 | Strobe 4 (Random), fast to slow |
| | | | 125⚫129 | On |
| | 16 | Shutter | 130⚫144 | Strobe 5 (Random fast on, slow off), fast to slow |
| | | | 145⚫149 | On |
| | | | 150⚫164 | Strobe 6 (Random slow on, fast off), fast to slow |
| | | | 165⚫169 | On |
| | | | 170⚫184 | Strobe 7 (Pulse), fast to slow |
| | | | 185⚫189 | On |
| | | | 190⚫204 | Strobe 8 (Random pulse), fast to slow |
| | | | 205⚫209 | On |
| | | | 210⚫224 | Strobe 9 (Fade in, fade out), fast to slow |
| | | | 225⚫229 | On |
| | | | 230⚫244 | Strobe 10 (Random pulse), fast to slow |
| | | | 245⚫255 | On |
| | 17 | Zoom | 000⚫255 | Wide to narrow |
| | | | 000⚫009 | No function |
| | | | 010⚫014 | Pan/tilt blackout |
| | | | 015⚫019 | No function (reserved for future use) |
| | | | 020⚫024 | RGBW color mixing mode (additive) |
| | | | 025⚫029 | CMY color mixing mode (subtractive) |
| | | | 030⚫049 | No function (reserved for future use) |
| | | | 050⚫054 | Pan reset |
| | | | 055⚫059 | Tilt reset |
| | | | 060⚫064 | Zoom reset |
| | 18 | Control | 065⚫069 | No function (reserved for future use) |
| | | | 070⚫074 | Reset all |
| | | | 075⚫109 | No function (reserved for future use) |
| | | | 110⚫114 | Pan/tilt speed fast |
| | | | 115⚫119 | Pan/tilt speed slow |
| | | | 120⚫124 | Fan mode slow |
| | | | 125⚫129 | Fan mode full |
| | | | 130⚫134 | Fan mode auto |
| | | | 134⚫139 | Dimmer mode fast |
| | | | 140⚫144 | Dimmer mode slow |
| | | | 145⚫255 | No function (reserved for future use) |

| | Channel | Function | Value | Percent/Settings |
|---|---|---|---|---|
| **Advanced Mode**<br>(122-channel cont.) | 19 | Main Red | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 20 | Main Red Fine | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 21 | Main Green | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 22 | Main Green Fine | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 23 | Main Blue | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 24 | Main Blue Fine | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 25 | Main White | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 26 | Main White Fine | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 27 | Red 1 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 28 | Red Fine 1 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 29 | Green 1 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 30 | Green Fine 1 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 31 | Blue 1 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 32 | Blue Fine 1 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 33 | White 1 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 34 | White Fine 1 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 35 | Red 2 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 36 | Red Fine 2 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 37 | Green 2 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 38 | Green Fine 2 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 39 | Blue 2 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 40 | Blue Fine 2 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 41 | White 2 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 42 | White Fine 2 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 43 | Red 3 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 44 | Red Fine 3 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 45 | Green 3 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 46 | Green Fine 3 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 47 | Blue 3 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 48 | Blue Fine 3 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 49 | White 3 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 50 | White Fine 3 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 51 | Red 4 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 52 | Red Fine 4 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 53 | Green 4 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 54 | Green Fine 4 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 55 | Blue 4 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 56 | Blue Fine 4 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 57 | White 4 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 58 | White Fine 4 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 59 | Red 5 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 60 | Red Fine 5 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 61 | Green 5 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 62 | Green Fine 5 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 63 | Blue 5 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 64 | Blue Fine 5 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 65 | White 5 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 66 | White Fine 5 | 000◢255 | RGBW mode: 0–100% / CMY mode: 100%–0 |

| Advanced Mode (122-channel cont.) | Channel | Function | Value | Percent/Settings |
|---|---|---|---|---|
| | 67 | Red 6 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 68 | Red Fine 6 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 69 | Green 6 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 70 | Green Fine 6 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 71 | Blue 6 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 72 | Blue Fine 6 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 73 | White 6 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 74 | White Fine 6 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 75 | Red 7 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 76 | Red Fine 7 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 77 | Green 7 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 78 | Green Fine 7 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 79 | Blue 7 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 80 | Blue Fine 7 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 81 | White 7 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 82 | White Fine 7 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 83 | Red 8 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 84 | Red Fine 8 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 85 | Green 8 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 86 | Green Fine 8 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 87 | Blue 8 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 88 | Blue Fine 8 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 89 | White 8 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 90 | White Fine 8 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 91 | Red 9 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 92 | Red Fine 9 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 93 | Green 9 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 94 | Green Fine 9 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 95 | Blue 9 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 96 | Blue Fine 9 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 97 | White 9 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 98 | White Fine 9 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 99 | Red 10 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 100 | Red Fine 10 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 101 | Green 10 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 102 | Green Fine 10 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 103 | Blue 10 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 104 | Blue Fine 10 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 105 | White 10 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 106 | White Fine 10 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 107 | Red 11 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 108 | Red Fine 11 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 109 | Green 11 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 110 | Green Fine 11 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 111 | Blue 11 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 112 | Blue Fine 11 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 113 | White 11 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 114 | White Fine 11 | 000↔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |

| Advanced Mode | Channel | Function | Value | Percent/Settings |
|---|---|---|---|---|
| (122-channel cont.) | 115 | **Red 12** | 000⟿255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 116 | **Red Fine 12** | 000⟿255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 117 | **Green 12** | 000⟿255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 118 | **Green Fine 12** | 000⟿255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 119 | **Blue 12** | 000⟿255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 120 | **Blue Fine 12** | 000⟿255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 121 | **White 12** | 000⟿255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 122 | **White Fine 12** | 000⟿255 | RGBW mode: 0–100% / CMY mode: 100%–0 |

| Standard Mode | Channel | Function | Value | Percent/Settings |
|---|---|---|---|---|
| (68-channel) | 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 | **CTC** | 000 | No function |
| | | | 001⟿255 | Color temperature 1900K to 2700K |
| | 6 | **Color Macro** | 000 | No function |
| | | | 001⟿255 | Color macros |
| | 7 | **On/Off Preset** | 000⟿009 | No function |
| | | | 010⟿255 | On/Off presets |
| | 8 | **LED Macro/Auto Program** | 000⟿015 | No function |
| | | | 016⟿135 | LED macros |
| | | | 136⟿255 | Auto programs |
| | 9 | **LED Macro/Auto Program Speed** | 000⟿127 | Fast to slow |
| | | | 128 | Hold |
| | | | 129⟿255 | Slow to fast |
| | 10 | **LED Macro Fade** | 000⟿255 | Fast to slow |
| | 11 | **Background Color Macro** | 000 | No function |
| | | | 001⟿255 | Background color macros |
| | 12 | **Background Dimmer** | 000⟿255 | 0–100% |
| | 13 | **Main Dimmer** | 000⟿255 | 0–100% |

| Standard Mode | Channel | Function | Value | Percent/Settings |
|---|---|---|---|---|
| (68-channel cont.) | | | 000↔019 | Off |
| | | | 020↔024 | On |
| | | | 025↔064 | Strobe 1, fast to slow |
| | | | 065↔069 | On |
| | | | 070↔084 | Strobe 2 (Fast on, slow off), fast to slow |
| | | | 085↔089 | On |
| | | | 090↔104 | Strobe 3 (Slow on, fast off), fast to slow |
| | | | 104↔109 | On |
| | | | 110↔124 | Strobe 4 (Random), fast to slow |
| | | | 125↔129 | On |
| | 14 | Shutter | 130↔144 | Strobe 5 (Random fast on, slow off), fast to slow |
| | | | 145↔149 | On |
| | | | 150↔164 | Strobe 6 (Random slow on, fast off), fast to slow |
| | | | 165↔169 | On |
| | | | 170↔184 | Strobe 7 (Pulse), fast to slow |
| | | | 185↔189 | On |
| | | | 190↔204 | Strobe 8 (Random pulse), fast to slow |
| | | | 205↔209 | On |
| | | | 210↔224 | Strobe 9 (Fade in, fade out), fast to slow |
| | | | 225↔229 | On |
| | | | 230↔244 | Strobe 10 (Random pulse), fast to slow |
| | | | 245↔255 | On |
| | 15 | Zoom | 000↔255 | Wide to narrow |
| | | | 000↔009 | No function |
| | | | 010↔014 | Pan/tilt blackout |
| | | | 015↔019 | No function (reserved for future use) |
| | | | 020↔024 | RGBW color mixing mode (additive) |
| | | | 025↔029 | CMY color mixing mode (subtractive) |
| | | | 030↔049 | No function (reserved for future use) |
| | | | 050↔054 | Pan reset |
| | | | 055↔059 | Tilt reset |
| | | | 060↔064 | Zoom reset |
| | 16 | Control | 065↔069 | No function (reserved for future use) |
| | | | 070↔074 | Reset all |
| | | | 075↔109 | No function (reserved for future use) |
| | | | 110↔114 | Pan/tilt speed fast |
| | | | 115↔119 | Pan/tilt speed slow |
| | | | 120↔124 | Fan mode slow |
| | | | 125↔129 | Fan mode full |
| | | | 130↔134 | Fan mode auto |
| | | | 134↔139 | Dimmer mode fast |
| | | | 140↔144 | Dimmer mode slow |
| | | | 145↔255 | No function (reserved for future use) |

| Standard Mode | Channel | Function | Value | Percent/Settings |
|---|---|---|---|---|
| (68-channel cont.) | 17 | **Main Red** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 18 | **Main Green** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 19 | **Main Blue** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 20 | **Main White** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 21 | **Red 1** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 22 | **Green 1** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 23 | **Blue 1** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 24 | **White 1** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 25 | **Red 2** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 26 | **Green 2** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 27 | **Blue 2** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 28 | **White 2** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 29 | **Red 3** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 30 | **Green 3** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 31 | **Blue 3** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 32 | **White 3** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 33 | **Red 4** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 34 | **Green 4** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 35 | **Blue 4** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 36 | **White 4** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 37 | **Red 5** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 38 | **Green 5** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 39 | **Blue 5** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 40 | **White 5** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 41 | **Red 6** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 42 | **Green 6** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 43 | **Blue 6** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 44 | **White 6** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 45 | **Red 7** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 46 | **Green 7** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 47 | **Blue 7** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 48 | **White 7** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 49 | **Red 8** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 50 | **Green 8** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 51 | **Blue 8** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 52 | **White 8** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 53 | **Red 9** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 54 | **Green 9** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 55 | **Blue 9** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 56 | **White 9** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 57 | **Red 10** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 58 | **Green 10** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 59 | **Blue 10** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 60 | **White 10** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 61 | **Red 11** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 62 | **Green 11** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 63 | **Blue 11** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 64 | **White 11** | 000**ó**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |

| Standard Mode (68-channel cont.) | Channel | Function | Value | Percent/Settings |
|---|---|---|---|---|
| | **65** | **Red 12** | 000–255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | **66** | **Green 12** | 000–255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | **67** | **Blue 12** | 000–255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | **68** | **White 12** | 000–255 | RGBW mode: 0–100% / CMY mode: 100%–0 |

| Basic Mode (20-channel) | 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** | **CTC** | 000 | No function |
| | | | 001–255 | Color temperature 1900K to 2700K |
| | **6** | **Color Macro** | 000 | No function |
| | | | 001–255 | Color macros |
| | **7** | **On/Off Preset** | 000–009 | No function |
| | | | 010–255 | On/Off presets |
| | **8** | **LED Macro/Auto Program** | 000–015 | No function |
| | | | 016–135 | LED macros |
| | | | 136–255 | Auto programs |
| | **9** | **LED Macro/Auto Program Speed** | 000–127 | Fast to slow |
| | | | 128 | Hold |
| | | | 129–255 | Slow to fast |
| | **10** | **LED Macro Fade** | 000–255 | Fast to slow |
| | **11** | **Background Color Macro** | 000 | No function |
| | | | 001–255 | Background color macros |
| | **12** | **Background Dimmer** | 000–255 | 0–100% |
| | **13** | **Main Dimmer** | 000–255 | 0–100% |
| | **14** | **Shutter** | 000–019 | Off |
| | | | 020–024 | On |
| | | | 025–064 | Strobe 1, fast to slow |
| | | | 065–069 | On |
| | | | 070–084 | Strobe 2 (Fast on, slow off), fast to slow |
| | | | 085–089 | On |
| | | | 090–104 | Strobe 3 (Slow on, fast off), fast to slow |
| | | | 104–109 | On |
| | | | 110–124 | Strobe 4 (Random), fast to slow |
| | | | 125–129 | On |
| | | | 130–144 | Strobe 5 (Random fast on, slow off), fast to slow |
| | | | 145–149 | On |
| | | | 150–164 | Strobe 6 (Random slow on, fast off), fast to slow |
| | | | 165–169 | On |
| | | | 170–184 | Strobe 7 (Pulse), fast to slow |
| | | | 185–189 | On |
| | | | 190–204 | Strobe 8 (Random pulse), fast to slow |
| | | | 205–209 | On |
| | | | 210–224 | Strobe 9 (Fade in, fade out), fast to slow |
| | | | 225–229 | On |
| | | | 230–244 | Strobe 10 (Random pulse), fast to slow |
| | | | 245–255 | On |
| | **15** | **Zoom** | 000–255 | Wide to narrow |

| Basic Mode (20-channel cont.) | Channel | Function | Value | Percent/Settings |
|---|---|---|---|---|
| | | | 000–009 | No function |
| | | | 010–014 | Pan/tilt blackout |
| | | | 015–019 | No function (reserved for future use) |
| | | | 020–024 | RGBW color mixing mode (additive) |
| | | | 025–029 | CMY color mixing mode (subtractive) |
| | | | 030–049 | No function (reserved for future use) |
| | | | 050–054 | Pan reset |
| | | | 055–059 | Tilt reset |
| | | | 060–064 | Zoom reset |
| | | | 065–069 | No function (reserved for future use) |
| | 16 | Control | 070–074 | Reset all |
| | | | 075–109 | No function (reserved for future use) |
| | | | 110–114 | Pan/tilt speed fast |
| | | | 115–119 | Pan/tilt speed slow |
| | | | 120–124 | Fan mode slow |
| | | | 125–129 | Fan mode full |
| | | | 130–134 | Fan mode auto |
| | | | 134–139 | Dimmer mode fast |
| | | | 140–144 | Dimmer mode slow |
| | | | 145–255 | No function (reserved for future use) |
| | 17 | Main Red | 000–255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 18 | Main Green | 000–255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 19 | Main Blue | 000–255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 20 | Main White | 000–255 | RGBW mode: 0–100% / CMY mode: 100%–0 |

## Dual Control Movement Values

| Advanced Movement Mode (26-channel) | 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 | CTC | 000 | No function |
| | | | 001–255 | Color temperature 1900K to 2700K |
| | 6 | Color Macro | 000 | No function |
| | | | 001–255 | Color macros |
| | 7 | On/Off Preset | 000–009 | No function |
| | | | 010–255 | On/Off presets |
| | 8 | LED Macro/Auto Program | 000–015 | No function |
| | | | 016–135 | LED macros |
| | | | 136–255 | Auto programs |
| | 9 | LED Macro/Auto Program Speed | 000–127 | Fast to slow |
| | | | 128 | Hold |
| | | | 129–255 | Slow to fast |
| | 10 | LED Macro Fade | 000–255 | Fast to slow |
| | 11 | Background Color Macro | 000 | No function |
| | | | 001–255 | Background color macros |
| | 12 | Background Dimmer | 000–255 | 0–100% |
| | 13 | Background Fine Dimmer | 000–255 | 0–100% |
| | 14 | Main Dimmer | 000–255 | 0–100% |
| | 15 | Main Fine Dimmer | 000–255 | 0–100% |

| Advanced Movement Mode (26-channel cont.) | Channel | Function | Value | Percent/Settings |
|---|---|---|---|---|
| | 16 | Shutter | 000ó019 | Off |
| | | | 020ó024 | On |
| | | | 025ó064 | Strobe 1, fast to slow |
| | | | 065ó069 | On |
| | | | 070ó084 | Strobe 2 (Fast on, slow off), fast to slow |
| | | | 085ó089 | On |
| | | | 090ó104 | Strobe 3 (Slow on, fast off), fast to slow |
| | | | 104ó109 | On |
| | | | 110ó124 | Strobe 4 (Random), fast to slow |
| | | | 125ó129 | On |
| | | | 130ó144 | Strobe 5 (Random fast on, slow off), fast to slow |
| | | | 145ó149 | On |
| | | | 150ó164 | Strobe 6 (Random slow on, fast off), fast to slow |
| | | | 165ó169 | On |
| | | | 170ó184 | Strobe 7 (Pulse), fast to slow |
| | | | 185ó189 | On |
| | | | 190ó204 | Strobe 8 (Random pulse), fast to slow |
| | | | 205ó209 | On |
| | | | 210ó224 | Strobe 9 (Fade in, fade out), fast to slow |
| | | | 225ó229 | On |
| | | | 230ó244 | Strobe 10 (Random pulse), fast to slow |
| | | | 245ó255 | On |
| | 17 | Zoom | 000ó255 | Wide to narrow |
| | 18 | Control | 000ó009 | No function |
| | | | 010ó014 | Pan/tilt blackout |
| | | | 015ó019 | No function (reserved for future use) |
| | | | 020ó024 | RGBW color mixing mode (additive) |
| | | | 025ó029 | CMY color mixing mode (subtractive) |
| | | | 030ó049 | No function (reserved for future use) |
| | | | 050ó054 | Pan reset |
| | | | 055ó059 | Tilt reset |
| | | | 060ó064 | Zoom reset |
| | | | 065ó069 | No function (reserved for future use) |
| | | | 070ó074 | Reset all |
| | | | 075ó109 | No function (reserved for future use) |
| | | | 110ó114 | Pan/tilt speed fast |
| | | | 115ó119 | Pan/tilt speed slow |
| | | | 120ó124 | Fan mode slow |
| | | | 125ó129 | Fan mode full |
| | | | 130ó134 | Fan mode auto |
| | | | 134ó139 | Dimmer mode fast |
| | | | 140ó144 | Dimmer mode slow |
| | | | 145ó255 | No function (reserved for future use) |
| | 19 | Main Red | 000ó255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 20 | Main Red Fine | 000ó255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 21 | Main Green | 000ó255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 22 | Main Green Fine | 000ó255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 23 | Main Blue | 000ó255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 24 | Main Blue Fine | 000ó255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 25 | Main White | 000ó255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 26 | Main White Fine | 000ó255 | RGBW mode: 0–100% / CMY mode: 100%–0 |

| | Channel | Function | Value | Percent/Settings |
|---|---|---|---|---|
| **Standard Movement Mode** (20-channel) | 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 | CTC | 000 | No function |
| | | | 001–255 | Color temperature 1900K to 2700K |
| | 6 | Color Macro | 000 | No function |
| | | | 001–255 | Color macros |
| | 7 | On/Off Preset | 000–009 | No function |
| | | | 010–255 | On/Off presets |
| | 8 | LED Macro/Auto Program | 000–015 | No function |
| | | | 016–135 | LED macros |
| | | | 136–255 | Auto programs |
| | 9 | LED Macro/Auto Program Speed | 000–127 | Fast to slow |
| | | | 128 | Hold |
| | | | 129–255 | Slow to fast |
| | 10 | LED Macro Fade | 000–255 | Fast to slow |
| | 11 | Background Color Macro | 000 | No function |
| | | | 001–255 | Background color macros |
| | 12 | Background Dimmer | 000–255 | 0–100% |
| | 13 | Main Dimmer | 000–255 | 0–100% |
| | 14 | Shutter | 000–019 | Off |
| | | | 020–024 | On |
| | | | 025–064 | Strobe 1, fast to slow |
| | | | 065–069 | On |
| | | | 070–084 | Strobe 2 (Fast on, slow off), fast to slow |
| | | | 085–089 | On |
| | | | 090–104 | Strobe 3 (Slow on, fast off), fast to slow |
| | | | 104–109 | On |
| | | | 110–124 | Strobe 4 (Random), fast to slow |
| | | | 125–129 | On |
| | | | 130–144 | Strobe 5 (Random fast on, slow off), fast to slow |
| | | | 145–149 | On |
| | | | 150–164 | Strobe 6 (Random slow on, fast off), fast to slow |
| | | | 165–169 | On |
| | | | 170–184 | Strobe 7 (Pulse), fast to slow |
| | | | 185–189 | On |
| | | | 190–204 | Strobe 8 (Random pulse), fast to slow |
| | | | 205–209 | On |
| | | | 210–224 | Strobe 9 (Fade in, fade out), fast to slow |
| | | | 225–229 | On |
| | | | 230–244 | Strobe 10 (Random pulse), fast to slow |
| | | | 245–255 | On |
| | 15 | Zoom | 000–255 | Wide to narrow |

| | Channel | Function | Value | Percent/Settings |
|---|---|---|---|---|
| **Standard Movement Mode** (20-channel cont.) | 16 | **Control** | 000**ᴅ**009 | No function |
| | | | 010**ᴅ**014 | Pan/tilt blackout |
| | | | 015**ᴅ**019 | No function (reserved for future use) |
| | | | 020**ᴅ**024 | RGBW color mixing mode (additive) |
| | | | 025**ᴅ**029 | CMY color mixing mode (subtractive) |
| | | | 030**ᴅ**049 | No function (reserved for future use) |
| | | | 050**ᴅ**054 | Pan reset |
| | | | 055**ᴅ**059 | Tilt reset |
| | | | 060**ᴅ**064 | Zoom reset |
| | | | 065**ᴅ**069 | No function (reserved for future use) |
| | | | 070**ᴅ**074 | Reset all |
| | | | 075**ᴅ**109 | No function (reserved for future use) |
| | | | 110**ᴅ**114 | Pan/tilt speed fast |
| | | | 115**ᴅ**119 | Pan/tilt speed slow |
| | | | 120**ᴅ**124 | Fan mode slow |
| | | | 125**ᴅ**129 | Fan mode full |
| | | | 130**ᴅ**134 | Fan mode auto |
| | | | 134**ᴅ**139 | Dimmer mode fast |
| | | | 140**ᴅ**144 | Dimmer mode slow |
| | | | 145**ᴅ**255 | No function (reserved for future use) |
| | 17 | **Main Red** | 000**ᴅ**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 18 | **Main Green** | 000**ᴅ**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 19 | **Main Blue** | 000**ᴅ**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 20 | **Main White** | 000**ᴅ**255 | RGBW mode: 0–100% / CMY mode: 100%–0 |

| | Channel | Function | Value | Percent/Settings |
|---|---|---|---|---|
| **Basic Movement Mode** (8-channel) | **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** | **Main Dimmer** | 000→255 | 0–100% |
| | **6** | **Shutter** | 000→019 | Off |
| | | | 020→024 | On |
| | | | 025→064 | Strobe 1, fast to slow |
| | | | 065→069 | On |
| | | | 070→084 | Strobe 2 (Fast on, slow off), fast to slow |
| | | | 085→089 | On |
| | | | 090→104 | Strobe 3 (Slow on, fast off), fast to slow |
| | | | 104→109 | On |
| | | | 110→124 | Strobe 4 (Random), fast to slow |
| | | | 125→129 | On |
| | | | 130→144 | Strobe 5 (Random fast on, slow off), fast to slow |
| | | | 145→149 | On |
| | | | 150→164 | Strobe 6 (Random slow on, fast off), fast to slow |
| | | | 165→169 | On |
| | | | 170→184 | Strobe 7 (Pulse), fast to slow |
| | | | 185→189 | On |
| | | | 190→204 | Strobe 8 (Random pulse), fast to slow |
| | | | 205→209 | On |
| | | | 210→224 | Strobe 9 (Fade in, fade out), fast to slow |
| | | | 225→229 | On |
| | | | 230→244 | Strobe 10 (Random pulse), fast to slow |
| | | | 245→255 | On |
| | **7** | **Zoom** | 000→255 | Wide to narrow |
| | **8** | **Control** | 000→009 | No function |
| | | | 010→014 | Pan/tilt blackout |
| | | | 015→019 | No function (reserved for future use) |
| | | | 020→024 | RGBW color mixing mode (additive) |
| | | | 025→029 | CMY color mixing mode (subtractive) |
| | | | 030→049 | No function (reserved for future use) |
| | | | 050→054 | Pan reset |
| | | | 055→059 | Tilt reset |
| | | | 060→064 | Zoom reset |
| | | | 065→069 | No function (reserved for future use) |
| | | | 070→074 | Reset all |
| | | | 075→109 | No function (reserved for future use) |
| | | | 110→114 | Pan/tilt speed fast |
| | | | 115→119 | Pan/tilt speed slow |
| | | | 120→124 | Fan mode slow |
| | | | 125→129 | Fan mode full |
| | | | 130→134 | Fan mode auto |
| | | | 134→139 | Dimmer mode fast |
| | | | 140→144 | Dimmer mode slow |
| | | | 145→255 | No function (reserved for future use) |

## Dual Control Pixel Values

**Advanced Pixel Mode**
(96-channel)

| Channel | Function | Value | Percent/Settings |
|---|---|---|---|
| 1 | Red 1 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 2 | Red Fine 1 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 3 | Green 1 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 4 | Green Fine 1 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 5 | Blue 1 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 6 | Blue Fine 1 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 7 | White 1 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 8 | White Fine 1 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 9 | Red 2 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 10 | Red Fine 2 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 11 | Green 2 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 12 | Green Fine 2 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 13 | Blue 2 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 14 | Blue Fine 2 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 15 | White 2 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 16 | White Fine 2 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 17 | Red 3 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 18 | Red Fine 3 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 19 | Green 3 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 20 | Green Fine 3 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 21 | Blue 3 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 22 | Blue Fine 3 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 23 | White 3 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 24 | White Fine 3 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 25 | Red 4 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 26 | Red Fine 4 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 27 | Green 4 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 28 | Green Fine 4 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 29 | Blue 4 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 30 | Blue Fine 4 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 31 | White 4 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 32 | White Fine 4 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 33 | Red 5 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 34 | Red Fine 5 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 35 | Green 5 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 36 | Green Fine 5 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 37 | Blue 5 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 38 | Blue Fine 5 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 39 | White 5 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 40 | White Fine 5 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 41 | Red 6 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 42 | Red Fine 6 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 43 | Green 6 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 44 | Green Fine 6 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 45 | Blue 6 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 46 | Blue Fine 6 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 47 | White 6 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 48 | White Fine 6 | 000⌀255 | RGBW mode: 0–100% / CMY mode: 100%–0 |

| | Channel | Function | Value | Percent/Settings |
|---|---|---|---|---|
| **Advanced Pixel Mode** (96-channel cont.) | 49 | Red 7 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 50 | Red Fine 7 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 51 | Green 7 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 52 | Green Fine 7 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 53 | Blue 7 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 54 | Blue Fine 7 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 55 | White 7 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 56 | White Fine 7 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 57 | Red 8 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 58 | Red Fine 8 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 59 | Green 8 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 60 | Green Fine 8 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 61 | Blue 8 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 62 | Blue Fine 8 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 63 | White 8 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 64 | White Fine 8 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 65 | Red 9 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 66 | Red Fine 9 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 67 | Green 9 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 68 | Green Fine 9 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 69 | Blue 9 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 70 | Blue Fine 9 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 71 | White 9 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 72 | White Fine 9 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 73 | Red 10 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 74 | Red Fine 10 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 75 | Green 10 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 76 | Green Fine 10 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 77 | Blue 10 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 78 | Blue Fine 10 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 79 | White 10 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 80 | White Fine 10 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 81 | Red 11 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 82 | Red Fine 11 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 83 | Green 11 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 84 | Green Fine 11 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 85 | Blue 11 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 86 | Blue Fine 11 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 87 | White 11 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 88 | White Fine 11 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 89 | Red 12 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 90 | Red Fine 12 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 91 | Green 12 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 92 | Green Fine 12 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 93 | Blue 12 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 94 | Blue Fine 12 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 95 | White 12 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 96 | White Fine 12 | 000◆255 | RGBW mode: 0–100% / CMY mode: 100%–0 |

| | Channel | Function | Value | Percent/Settings |
|---|---|---|---|---|
| **Standard Pixel Mode** (48-channel) | 1 | Red 1 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 2 | Green 1 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 3 | Blue 1 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 4 | White 1 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 5 | Red 2 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 6 | Green 2 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 7 | Blue 2 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 8 | White 2 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 9 | Red 3 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 10 | Green 3 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 11 | Blue 3 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 12 | White 3 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 13 | Red 4 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 14 | Green 4 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 15 | Blue 4 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 16 | White 4 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 17 | Red 5 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 18 | Green 5 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 19 | Blue 5 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 20 | White 5 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 21 | Red 6 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 22 | Green 6 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 23 | Blue 6 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 24 | White 6 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 25 | Red 7 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 26 | Green 7 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 27 | Blue 7 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 28 | White 7 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 29 | Red 8 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 30 | Green 8 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 31 | Blue 8 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 32 | White 8 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 33 | Red 9 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 34 | Green 9 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 35 | Blue 9 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 36 | White 9 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 37 | Red 10 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 38 | Green 10 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 39 | Blue 10 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 40 | White 10 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 41 | Red 11 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 42 | Green 11 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 43 | Blue 11 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 44 | White 11 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 45 | Red 12 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 46 | Green 12 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 47 | Blue 12 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| | 48 | White 12 | 000𝟔255 | RGBW mode: 0–100% / CMY mode: 100%–0 |

**Basic Pixel Mode**
(36-channel)

| Channel | Function | Value | Percent/Settings |
|---|---|---|---|
| 1 | Red 1 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 2 | Green 1 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 3 | Blue 1 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 4 | Red 2 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 5 | Green 2 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 6 | Blue 2 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 7 | Red 3 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 8 | Green 3 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 9 | Blue 3 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 10 | Red 4 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 11 | Green 4 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 12 | Blue 4 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 13 | Red 5 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 14 | Green 5 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 15 | Blue 5 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 16 | Red 6 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 17 | Green 6 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 18 | Blue 6 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 19 | Red 7 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 20 | Green 7 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 21 | Blue 7 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 22 | Red 8 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 23 | Green 8 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 24 | Blue 8 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 25 | Red 9 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 26 | Green 9 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 27 | Blue 9 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 28 | Red 10 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 29 | Green 10 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 30 | Blue 10 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 31 | Red 11 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 32 | Green 11 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 33 | Blue 11 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 34 | Red 12 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 35 | Green 12 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |
| 36 | Blue 12 | 000⮚255 | RGBW mode: 0–100% / CMY mode: 100%–0 |

# Operating Settings Configuration

## Home Screen

The Maverick MK2 Wash has a home screen that shows the current control protocols, personalities, starting addresses, IP addresses, and universes. To see the home screen, press **<MENU>** repeatedly until it shows on the display. From the home screen, touch any of the displayed control settings to immediately jump to that part of the menu, such as the personality, starting address, or universe, or press **<ENTER>** to reach the main menu.

## Test Mode

**Auto Test** To perform an auto test of the Maverick MK2 Wash 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 Mode**, or touch the display where it says **Test Mode**.
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 Mode**, or touch the display where it says **Test Mode**.
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**, **Tilt**, **P/S Speed**, **Red**, **Green**, **Blue**, **White**, **CTC**, **Color, Pattern**, **LED Macro**, **LED Ma. Speed**, **LED Ma. Fade**, **Background**, **Background Dim.**, **Dimmer**, **Shutter**, **Function**, or **Zoom**, 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>**.

## Setup

To reach the **Setup** 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 **Setup**, or touch the display where it says **Setup**.
3. If using the buttons instead of the touchscreen, press **<ENTER>**.

## Network Settings

**Ethernet To DMX** The Maverick MK2 Wash 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. Navigate to the <u>**Setup**</u> menu.
2. Use **<UP>** or **<DOWN>** to select **Network Settings**, or touch the display where it says **Network Settings**.
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 Wash 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. Navigate to the **Setup** menu.
2. Use **<UP>** or **<DOWN>** to select **Network Settings**, or touch the display where it says **Network Settings**.
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>**.

**IP Address** In **Manual IP Mode**, the IP address must be assigned through the product menu. To set the IP address in **Manual IP Mode**, do the following:
1. Navigate to the **Setup** menu.
2. Use **<UP>** or **<DOWN>** to select **Network Settings**, or touch the display where it says **Network Settings**.
3. If using the buttons instead of the touchscreen, press **<ENTER>**.
4. Use **<UP>** or **<DOWN>** to select **IP**, or touch the display where it says **IP**.
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** In **Manual IP Mode**, the Subnet Mask must be assigned through the product menu. To set the Subnet Mask in **Manual IP Mode**, do the following:
1. Navigate to the **Setup** menu.
2. Use **<UP>** or **<DOWN>** to select **Network Settings**, or touch the display where it says **Network Settings**.
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.**

**Pan/Tilt Orientation**
To set whether the pan or tilt orientation is normal or inverted:"
1. Navigate to the **<u>Setup</u>** 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>**.

**Zoom Orientation**
To set whether the zoom goes from wide to narrow or from narrow to wide, follow the instructions below:
1. Navigate to the **<u>Setup</u>** menu.
2. Use **<UP>** or **<DOWN>** to select **Zoom Reverse**, or touch the display where it says **Zoom Reverse**.
3. If using the buttons instead of the touchscreen, press **<ENTER>**.
4. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **NO** (wide to narrow) or **YES** (narrow to wide) 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 **<u>Setup</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>**.
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 **<u>Setup</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>**.
4. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **540** (540°), **360** or **270** (360° or 270° for pan or tilt respectively) or **180** (180°), 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 **<u>Setup</u>** 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>**.

**Touchscreen Calibration**
If the touchscreen is not responding correctly, it may need to be calibrated. To do so:
1. Navigate to the **<u>Setup</u>** 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 for the control panel, do the following:
1. Navigate to the **Setup** 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 where it says the desired option.
5. Press **<ENTER>**.

**Lock Screen**
To completely lock or unlock the control panel, follow the instructions below:
1. Navigate to the **Setup** 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** (control panel will not lock) or **YES** (control panel will require a passcode to access), or touch the display where it says the desired option.
5. Press **<ENTER>**.

To access the control panel when it has been locked:
1. Press **<MENU>**.
2. Enter the passcode **0920** using one of the following methods:
   · Through the touchscreen: use the number pad on the screen to enter **0920**.
   · With the buttons:
      a. Use **<DOWN>** to select the number to be changed.
      b. Use **<UP>** to increase the value.
      c. Repeat until **0920** has been entered.
3. Press **<ENTER>**.

**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, do the following:
1. Navigate to the **Setup** 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 **Setup** 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 Wash, do the following:
1. Navigate to the **Setup** 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 **Setup** 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 **ON** (does not turn off), 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 Wash 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 **Setup** 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 **Setup** 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>**.

**Color Mixing Mode** The Maverick MK2 Wash has an additive color mixing mode, and a subtractive color mixing mode. In the additive color mixing mode, a value of 000 on a color LED channel gives zero output, and a value of 255 on that channel gives full output. In the subtractive color mixing mode, a value of 000 on a color LED channel gives full output, and a value of 255 on that channel gives zero output.
To set the color mixing mode:
1. Navigate to the **Setup** menu.
2. Use **<UP>** or **<DOWN>** to select **C Mixing Mode**, or touch the display where it says **C Mixing Mode**.
3. If using the buttons instead of the touchscreen, press **<ENTER>**.
4. Use **<UP>**, **<DOWN>**, **<LEFT>**, or **<RIGHT>** to select **RGBW** (additive color mixing), or **CMY** (subtractive color mixing), 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 **Setup** 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 **Setup** 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>**.

**Color Balance** To set the maximum values of a given color in the mix, follow the instructions below:
1. Navigate to the **Setup** menu.
2. Use **<UP>** or **<DOWN>** to select **Color Balance**, or touch the display where it says **Color Balance**.
3. If using the buttons instead of the touchscreen, press **<ENTER>**.
4. Use **<UP>** or **<DOWN>**, to select the color value to be changed, from **Red**, **Green**, **Blue**, or **White**, or touch the display where it says the desired option.
5. If using the buttons instead of the touchscreen, press **<ENTER>**.
6. Set the color value 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.
7. Press **<ENTER>**.
8. Repeat steps 4–7 until color balance is set as desired.

**Reset Functions** To reset the pan, tilt, or all functions as if from startup:
1. Navigate to the **Setup** 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**, 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 Wash to factory default settings, do the following:
1. Navigate to the **Setup** 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>**.

## System Information

All information about the current status of the Maverick MK2 Wash 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 **Sys Info**, or touch the display where it says **Sys Info**.
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.

**Offset Mode** The Offset mode provides fine adjustments for the home position of all the moving parts in the optical path as well as the pan and tilt movements. This way, when in their home position, 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 appears.
2. Enter the passcode **2323** using one of the following methods:
   - Through the touchscreen: use the number pad on the screen to enter **2323**.
   - With the buttons:
     a. Use **<DOWN>** to select the number to be changed.
     b. Use **<UP>** to increase the value.
     c. Repeat until **2323** has been entered.
3. Press **<ENTER>**.

This brings you into the Zero Adjust menu screen.

**PAN** To adjust the starting point of the pan motor, follow the instructions below:

1. Use **<UP>** or **<DOWN>** to select **PAN**.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to increase or decrease the starting value, from **000–255**.
4. Press **<ENTER>**.

**TILT** To adjust the starting point of the tilt motor, do the following:

1. Use **<UP>** or **<DOWN>** to select **TILT**.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to increase or decrease the starting value, from **000–255**.
4. Press **<ENTER>**.

**ZOOM** To adjust the starting point of the zoom motor, follow the instructions below:

1. Use **<UP>** or **<DOWN>** to select **ZOOM**.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to increase or decrease the starting value, from **000–255**.
4. Press **<ENTER>**.

**MAC Address** To assign the fourth, fifth, or sixth digit of the MAC address, do the following:

1. Use **<UP>** or **<DOWN>** to select **MAC4**, **MAC5**, or **MAC6**.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to increase or decrease the value, from **000–255**.
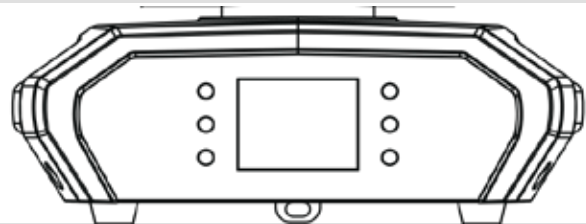4. Press **<ENTER>**.

# 5. FIRMWARE UPDATE

The following steps apply to the Windows® 7 operating system:
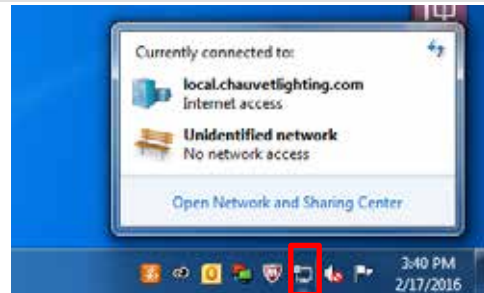
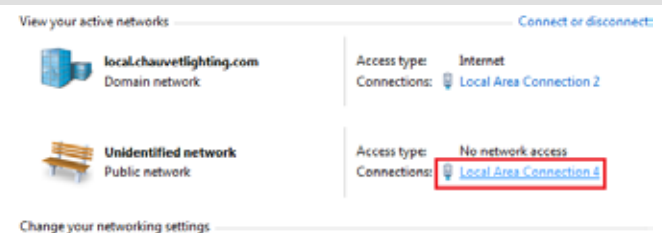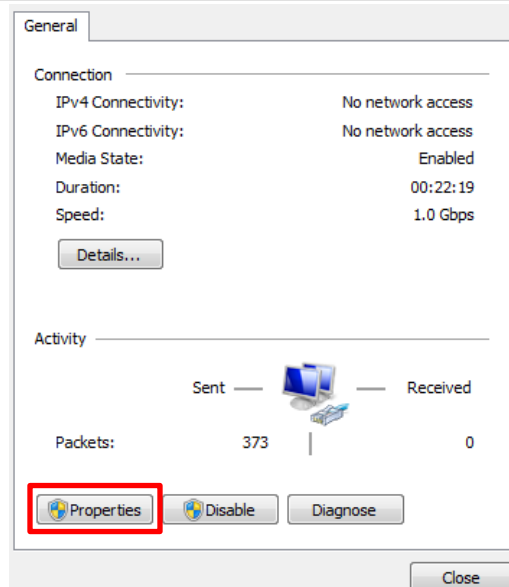| | |
|---|---|
| **Step 1** | 1. Connect the Maverick MK2 Wash to a computer with an ethernet cable.<br>2. Verify the network with the Maverick MK2 Wash is connected to the computer. |
| **Step 2** | 1. Set the control protocol on the Maverick MK2 Wash to **ArtNet** in **Single Control** mode. (See Single Control Protocol)<br>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 corresponds to that network on the right side of the window. |

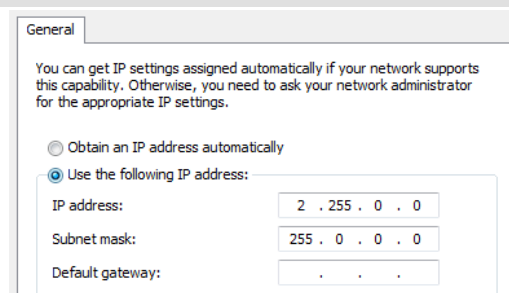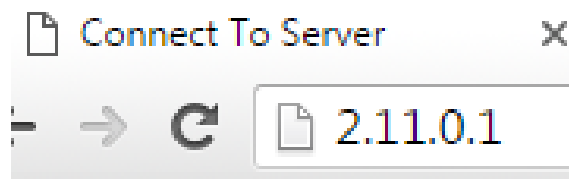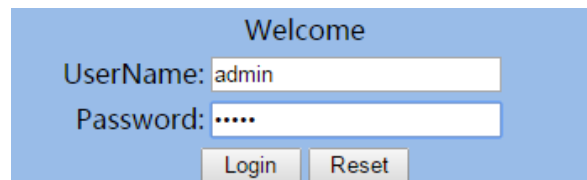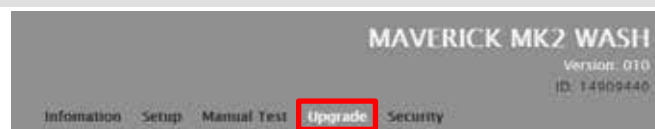| | |
|---|---|
| **Step 5** | Click **Properties** on the **Status** window that pops up. |
| **Step 6** | On the **Properties** window:<br>1. Click on **Internet Protocol Version 4 (TCP/IPv4)** to select it.<br>2. Click **Properties**. |
| **Step 7** | On the **TCP/IPv4 Properties** window:<br>1. Select **Use the following IP address:**<br>2. Type **2.255.0.0** into the **IP address** bar.<br>3. Press **<Tab>** on your keyboard. The **Subnet mask** bar should automatically populate as **255.0.0.0**. If not, then enter it manually.<br>4. Ignore the **Default gateway** bar. |

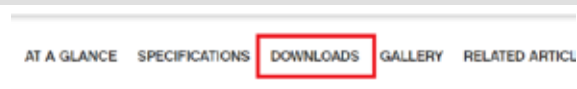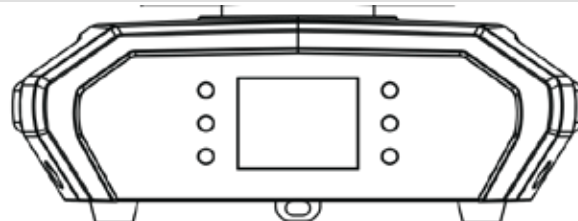| | |
|---|---|
| **Step 8** | 1. View the Home Screen on the Maverick MK2 Wash. (see <u>Home Screen</u>)<br>2. Open the internet browser on the computer.<br>3. Enter the IP address from the Maverick MK2 Wash display into the URL bar of the internet browser. (For example, if the display of the product reads **2.11.0.1**, enter **2.11.0.1** into the URL bar of the internet browser.) | |
| **Step 9** | On the **Welcome** screen:<br>1. Enter **admin** as both the **User Name** and **Password**. No capital letters.<br>2. Press **Log In** on the screen, or **<Enter>** on the keyboard.<br>If the user name and password do not work, reset the product to factory defaults. (see <u>Factory Reset</u>) | |
| **Step 10** | On the page that appears, click **Upgrade**. | |
| **Step 11** | Find the latest Firmware Upgrade on the website at https://www.chauvetprofessional.com/products/maverick-mk2-wash under **DOWNLOADS**. | |
| **Step 12** | 1. Click **Choose File** on the Maverick MK2 Wash Upgrade page.<br>2. In the File Explorer window that pops up, select the Firmware Upgrade file from the website and click **Open**.<br>3. Click **Upload File**.<br>A **Downloading** message will appear on the product's display. Once the product finishes installing the firmware, it will reset.<br>Do NOT turn the product off during this process. | |
| **Step 13** | On the Maverick MK2 Wash, verify the firmware has been updated by navigating to **Sys Info** (<u>System Information</u>) and checking that the version number matches the name of the file on the computer. | |
| **Step 15** | Disconnect the Maverick MK2 Wash from the computer. The firmware update is complete. | |

**The examples shown are for illustrative purposes.**

# 6. TECHNICAL INFORMATION

**Product Maintenance**

To maintain optimum performance and minimize wear, you should 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.**

# 7. TECHNICAL SPECIFICATIONS

| Dimensions and Weight | Length | Width | Height | Weight |
|---|---|---|---|---|
| | 12.72 in (323 mm) | 9.17 in (233 mm) | 18.54 in (471 mm) | 32.8 lb (14.8 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 | 651 W | 629 W | 609 W |
| | Current | 5.51 A | 3.03 A | 2.53 A |
| | Power linking current (products) | 13.6 A (2 products) | 13.6 A (4 products) | 13.6 A (5 products) |
| | Fuse/Breaker | T/F 10 A, 250 V | T/F 10 A, 250 V | T/F 10 A, 250 V |

| | Power I/O | U.S./Canada | Worldwide |
|---|---|---|---|
| | Power input connector | Seetronic Powerkon IP65 | Seetronic Powerkon IP65 |
| | Power output connector | Seetronic Powerkon IP65 | Seetronic Powerkon IP65 |
| | Power cord plug | Edison (U.S.) | Local plug |

| Light Source | Type | Power | Lifespan |
|---|---|---|---|
| | LED | 40 W | 50,000 hours |

| | Color | Quantity | Current |
|---|---|---|---|
| | Quad-color RGBW | 12 | 2.6 A |

| Photometrics | Parameter | Value |
|---|---|---|
| | Color Temperature | 2800 to 10000 K |
| | Beam Angle | 5° to 36° |
| | Field Angle | 7° to 49° |
| | Zoom Angle | 7° to 49° |
| | Illuminance @ 5 m (7°) | 19,000 lux |
| | Illuminance @ 5 m (49°) | 800 lux |

| DMX | I/O Connector | Channel Range |
|---|---|---|
| | 3- and 5-pin XLR | 9, 10, 13, 23, 81, 106 or 119 |

| Art-Net™/sACN | I/O Connector | Channel Range |
|---|---|---|
| | Amphenol XLRnet | 9, 10, 13, 23, 81, 106 or 119 |

| ArKaos Kling-Net | I/O Connector | Channel Range |
|---|---|---|
| | Amphenol XLRnet | Determined per ArKaos MediaMaster software |

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

| Ordering | Product Name | Item Name | Item Code | UPC Number |
|---|---|---|---|---|
| | Maverick MK2 Wash | MAVERICKMK2WASH | 08011201 | 781462215491 |

ART NET ETHERNET    cMETus    UL 1573   CSA C22.2 No. 166   E113093    CE    RoHS

# 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**
**General Information** – Chauvet
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             Sunrise, FL 33351
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    Fax:     (954) 929-5560
    Toll free: (800) 762-1084

**Technical Support**
    Voice:   (844) 393-7575
    Fax:     (954) 756-8015
    Email:   chauvetcs@chauvetlighting.com

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

**EUROPE**
**General Information** - Chauvet Europe BVBA
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    Voice:    +32 9 388 93 97

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

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

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             Zona Industrial Lerma
             Lerma, Mexico C.P. 52000
    Voice:    +52 (728) 285-5000

**Technical Support**
    Email:   servicio@chauvet.com.mx

**World Wide Web www.chauvet.com.mx**

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.