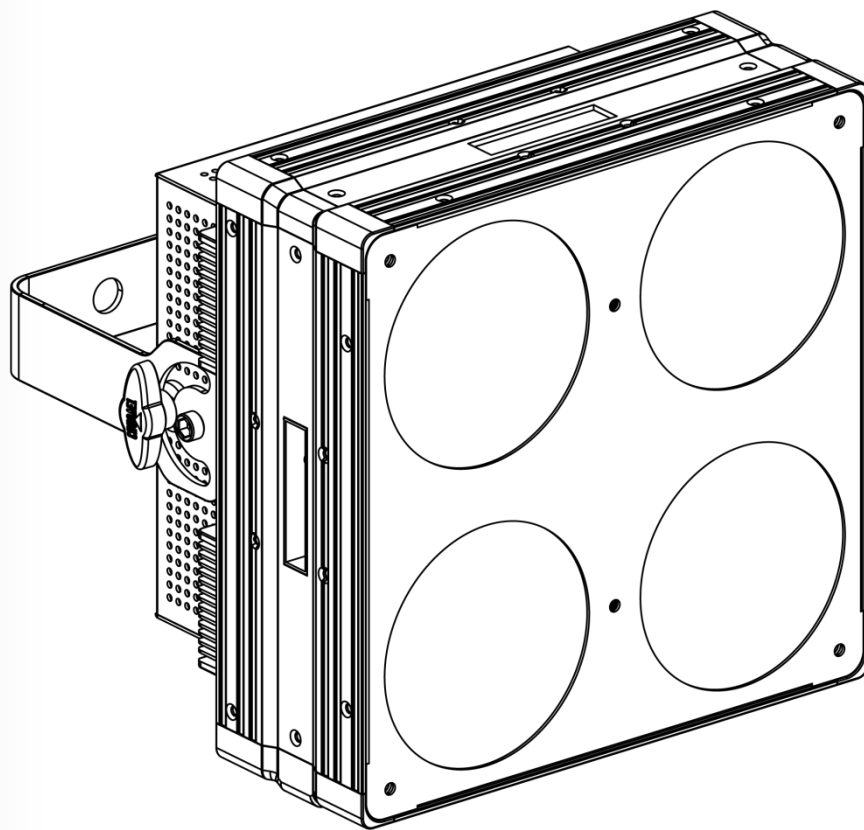


# nEXUS™

2x2

## User Manual



**Edition Notes** This User Manual covers the description, safety precautions, installation, programming, operation, and maintenance of the Nexus™ 2x2.

CHAUVET® released this edition of the Nexus™ 2x2 User Manual in October 2013.

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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

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# 1. Before You Begin

## What Is Included

- Nexus™ 2x2
- Neutrik® powerCON® power input cable
- #5 Allen wrench
- Alternate bracket
- 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
MENU>Settings	A sequence of menu options
1~10	A range of menu values from which to choose in a menu
Yes/No	A set of two mutually exclusive menu options in a menu
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.

**Safety Notes**

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



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



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

**Personal Safety**

- Avoid direct eye exposure to the light source while the product is on.
- Always disconnect this product from its power source before servicing.
- Always connect this product to a grounded circuit to avoid the risk of electrocution.
- Do not touch this product's housing during operation because it may be very hot.

**Mounting and Rigging**

- This product is for indoor use only! To prevent risk of fire or shock, do not expose this product to rain or moisture.
- 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 (included).

**Power and Wiring**

- 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.
- Never connect this product to a dimmer pack or rheostat.
- 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!



**In the unlikely event that your CHAUVET® product may require 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.

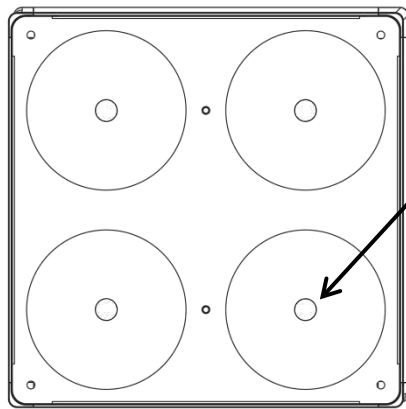
## 2. Introduction

**Description** Nexus™ 2x2 is a tour-ready wash light capable of delivering a pixel mapping display and an output of four 27-watt RGB COB LEDs. The combination of COB emitters and a clever reflector design yields a diffused light with saturated hues. Nexus™ 2x2 is controllable via Art-Net™, Kling-Net, and DMX protocols. It also features interlocking hardware to build large arrays.

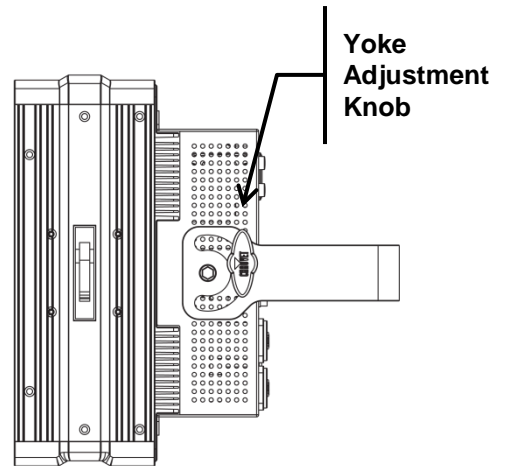
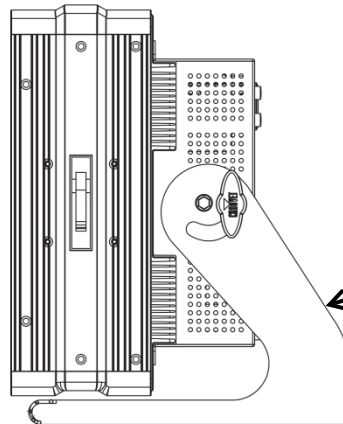
- Features**
- Achieve vibrant colors with bright COB LEDs
  - Increase pixel mapping options by controlling pixels individually
  - Build large arrays by linking multiple panels together with integrated locks
  - Works seamlessly with Nexus™ 4x4 and Nexus™ 4x1
  - Use universal power connectors: Neutrik powerCON®, Neutrik etherCON®, 3- and 5-pin DMX

- Controllers**
- Kling-net, Art-Net™, DMX Control

## Overview



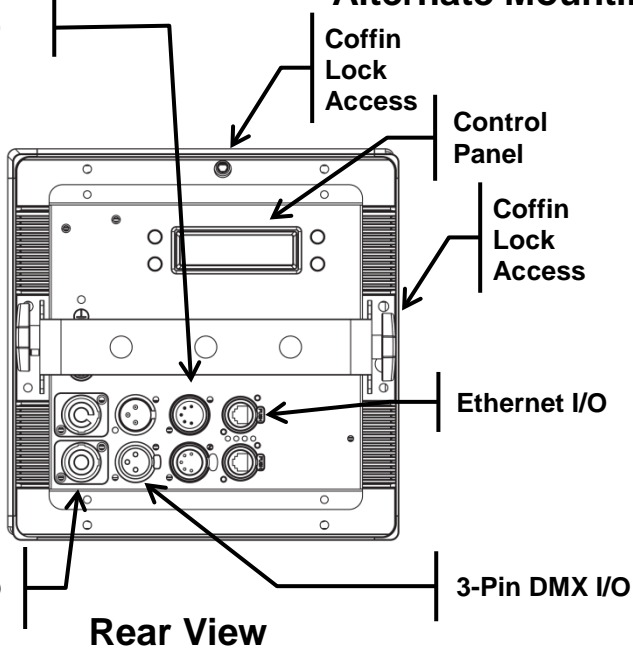
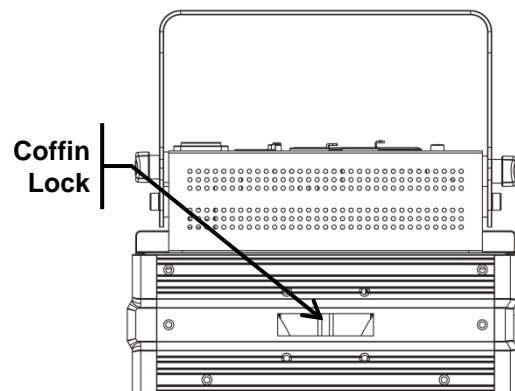
COB LEDs

**Front View**Yoke  
Adjustment  
Knob**Side View**

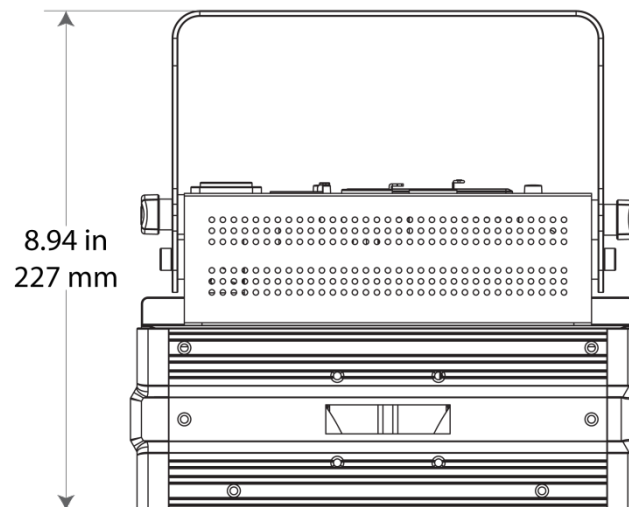
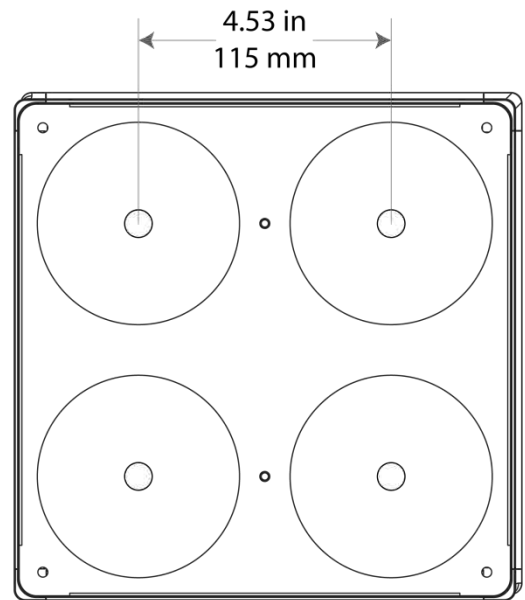
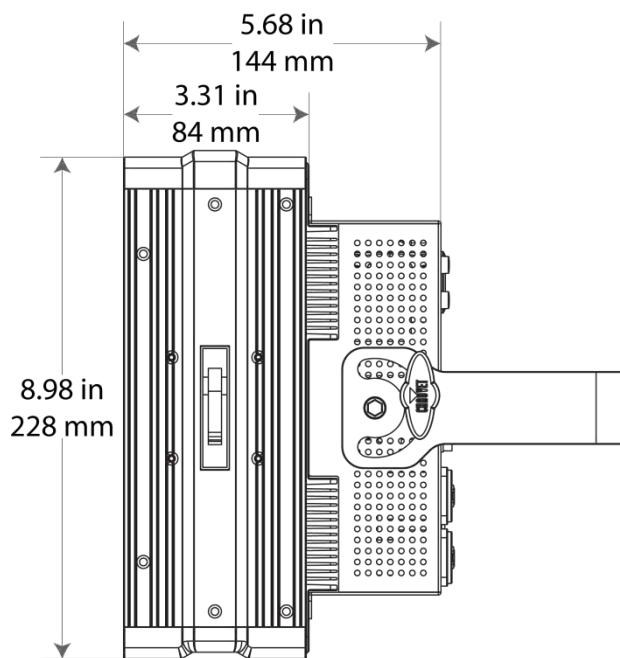
Bracket

## Alternate Mounting Bracket

5-Pin DMX I/O

**Rear View****Top View**

## Dimensions





### 3. Setup

**AC Power** The Nexus™ 2x2 has an auto-ranging power supply that works with an input voltage range of 100–240 VAC, 50/60 Hz. To determine the power requirements for each Nexus™ 2x2, refer to the label affixed to the product. You can also refer to the [Technical Specifications](#) section 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.chauvetpro.com](http://www.chauvetpro.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.**

**AC Plug** The Nexus™ 2x2 comes with a power input cord terminated with a Neutrik® powerCON® 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



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

#### Fuse Replacement

1. Disconnect the 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 a good fuse of the same type and rating (T 2 A, 250 V).
4. Screw the fuse holder cap back in place and reconnect power.

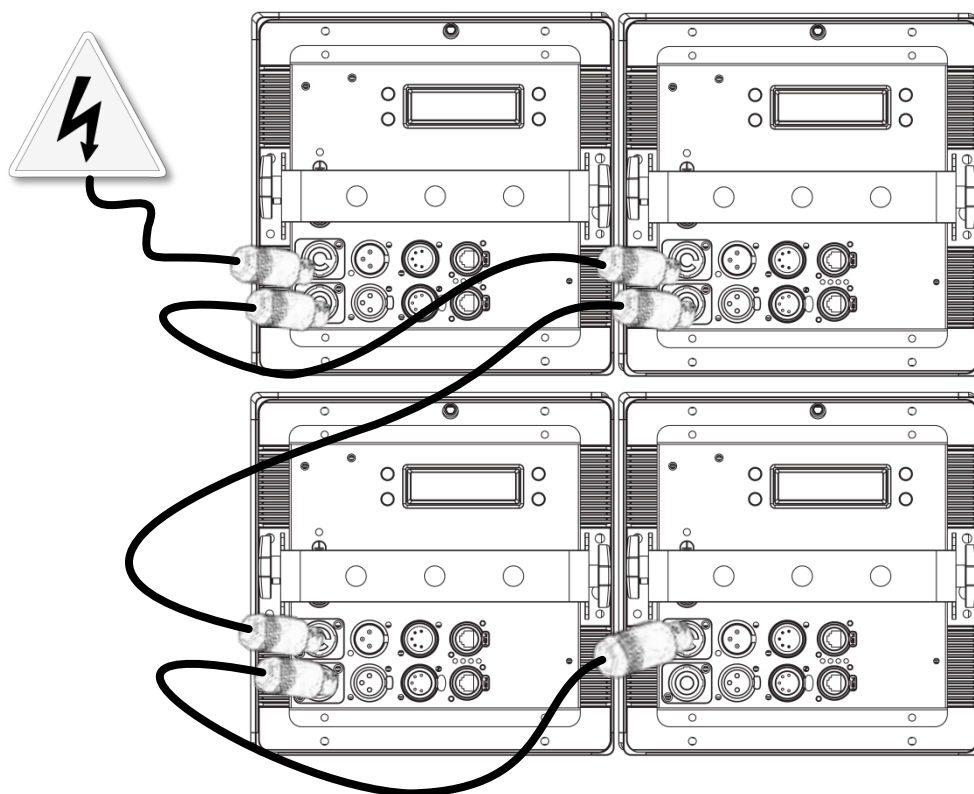
## Power Linking

The Nexus™ 2x2 supports power linking. You can power link up to:

- 15 products at 120 VAC, or
- 28 products at 230 VAC

This product comes with a power input cord. This product does not come with a power linking cable; however, a power linking cable is available as an option.

Power Linking Diagram



## DMX Linking

You can link the Nexus™ 2x2 to a DMX controller using a standard DMX serial connection. If using other DMX compatible products with the Nexus™ 2x2, you can control each Nexus™ 2x2 individually with a single DMX controller.

## DMX Modes

The Nexus™ 2x2 uses the standard DMX data connection for the 3, 5, 9, 12, and 17 channel DMX modes.

- Refer to the [Introduction](#) section for a brief description of each DMX modes.
- Refer to the [Operation](#) section to learn how to configure the Nexus™ 2x2 to work in these modes.
- The [DMX Values](#) section will provide you with detailed information regarding the DMX modes.

## Master/Slave Connectivity

The Master/Slave mode allows a Nexus™ 2x2 (the “master product”) to control one or more Nexus™ 2x2s (the “slave products”) without a DMX controller. One Nexus™ 2x2 becomes the master product when running an Auto program, or by being in STATIC mode.

You must configure each slave product's control panel to operate in SLAVE mode. During Master/Slave operation, the slave products will operate in unison with the master product.



- **When operating in the Master/Slave mode, do not connect a DMX controller to the product as the DMX controller signals may interfere with the signals from the master product.**
- **Master/Slave connections use the 3- and 5-pin XLR connections only. Products connected via the etherCON® connection will not function correctly.**



The [Operation](#) section provides detailed instructions on how to configure the Master and Slave products.



If you are not familiar with or need more information about DMX standards, Master/Slave connectivity, or the DMX cables needed to link this product to a DMX controller, download the DMX Primer from the CHAUVET® website: [www.chauvetpro.com](http://www.chauvetpro.com).

## Art-Net™ Connection

Art-Net™ is an Ethernet protocol that uses TCP/IP to transfer large amounts of DMX512 data over a network. Art-Net™ uses the Neutrik® etherCON® connection. An Art-Net™ protocol document is available from [www.chauvetpro.com](http://www.chauvetpro.com). Art-Net™ is designed and copyright by Artistic License Holdings Ltd.



The Art-Net™ protocol is designed to work with nodes and Ethernet hubs, or switches in “Star Topology”. CHAUVET determined the Nexus™ 2x2 products can run in serial topology for configuration of up to 12 fixtures. For systems larger than 12 fixtures, CHAUVET recommends using the star-topography as detailed under the TCP/IP Protocol.

## Kling-Net Connection

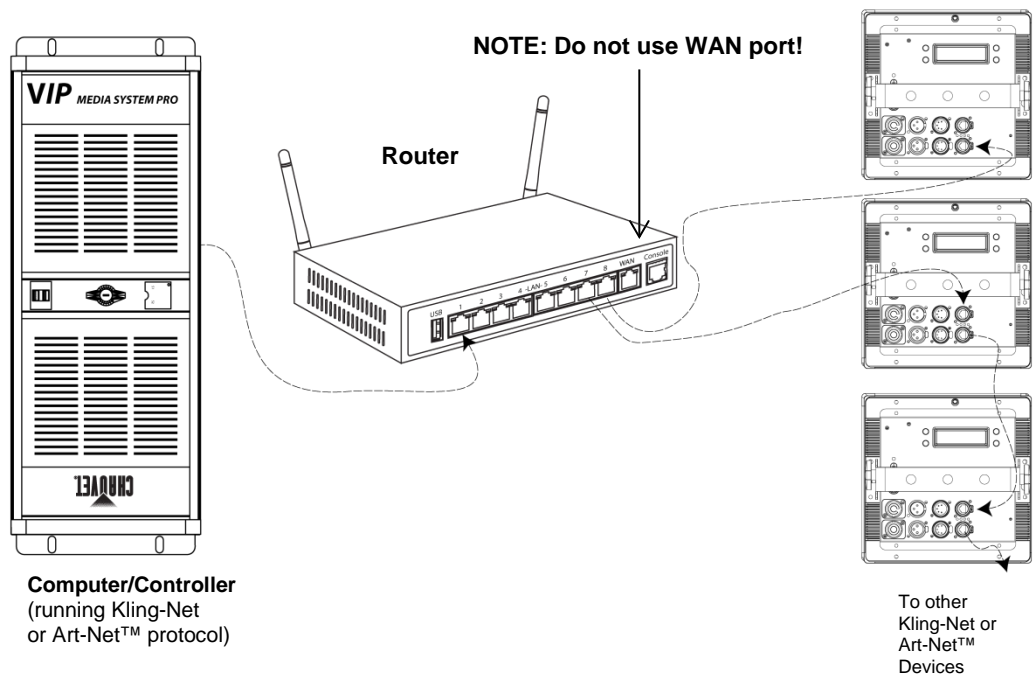
Kling-Net is a network protocol to allow auto configuration of display devices over the Ethernet. Kling-Net uses the Neutrik® etherCON® connection. For more information, please contact ArKaos directly.



For a smooth-running operation, ArKaos Kling-Net requires a gigabit (1000 Mbps) Ethernet card and network switch.

The Nexus™ 2x2 uses a Neutrik® etherCON® data connection to link all data ports. The following diagrams illustrate how to assemble the data connections.

Art-Net™/Kling-Net Connection Diagram



**Mounting** Before mounting this product, read and follow the guidelines outlined in the [Safety Notes](#) section.

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

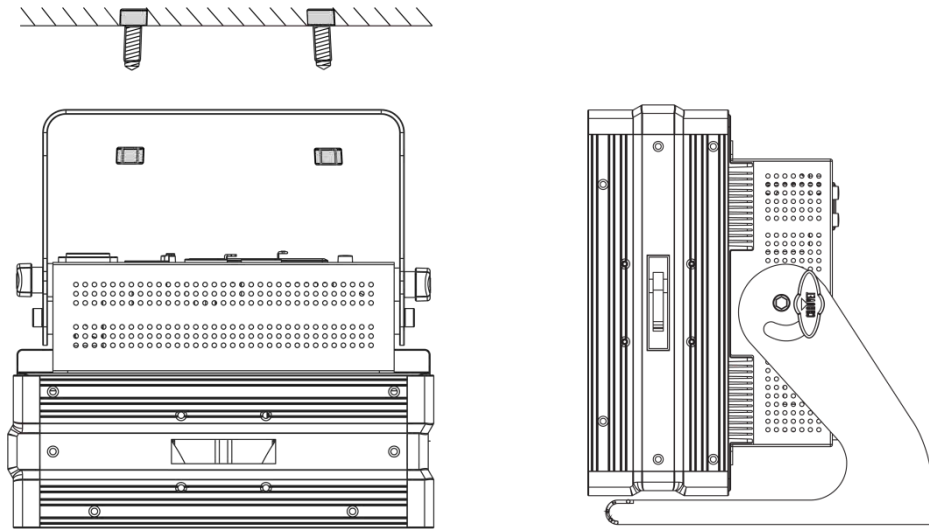
**Rigging** The Nexus™ 2x2 consists of a bracket and body. CHAUVET® recommends using the following guidelines when mounting this product.

- When selecting a desired location and before installation, consider easy access to this product for operation, programming adjustments, and routine maintenance.
- Make sure to mount this product away from any flammable material as indicated in the [Safety Notes](#) section.
- 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 [Technical Specifications](#) for weight-bearing requirements.
- When hanging this product, always secure to a fastening device using a safety cable (included).

**Procedure** The product can be mounted in almost any orientation provided each individual product is secured through the mounting bracket. The coffin locks are for product alignment only and are not weight bearing. DO NOT hang product using only the coffin locks. You must supply your own mounting clamps. Make sure the clamps are capable of supporting the weight of this product. Use at least one mounting point per product.

The Nexus™ 2x2 comes with an adjustable mounting bracket with three (3) 13 mm holes, which serves as a floor or wall mount support.

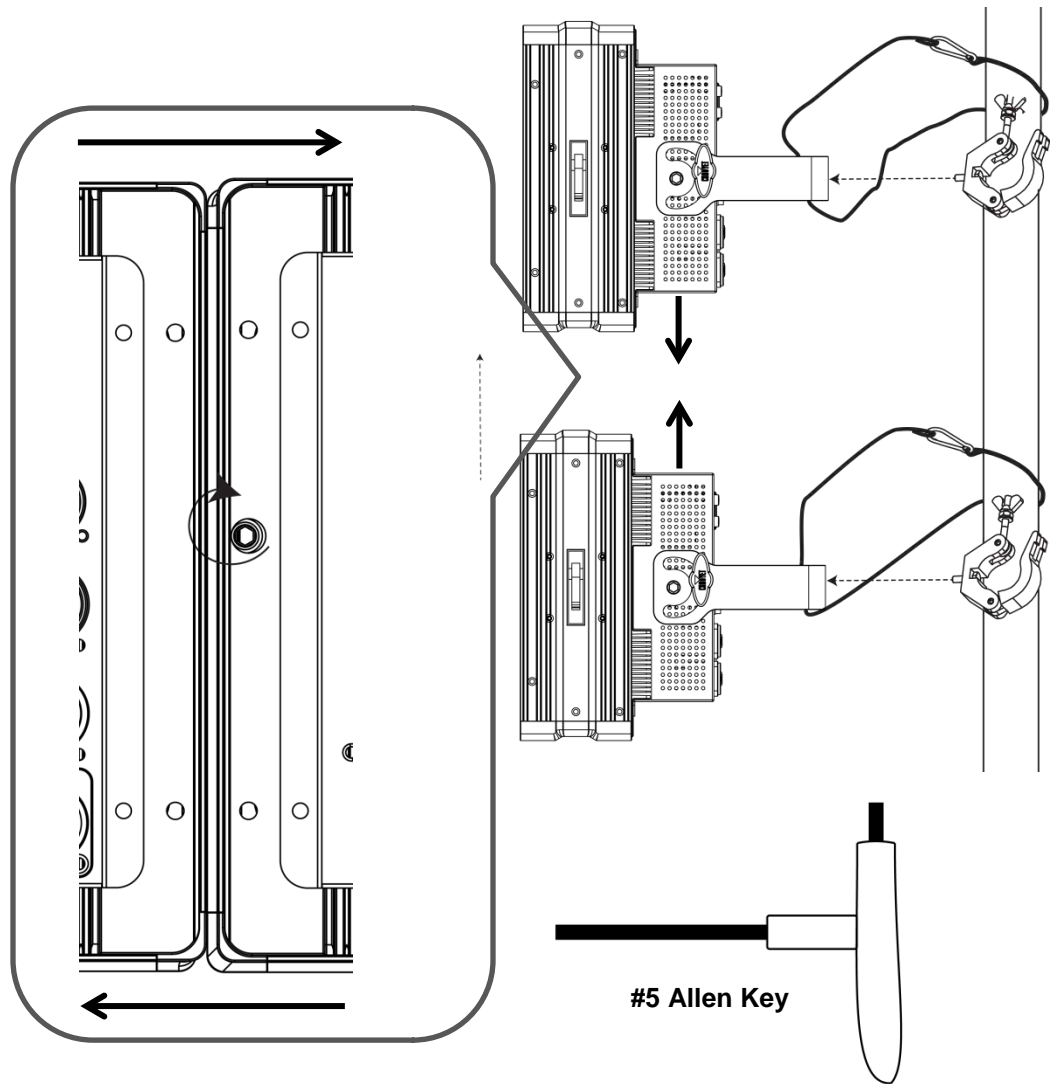
Floor/Wall Mounting



Wall  
Mounting

Floor  
Mounting

Pipe/Truss Mounting



Only use the coffin locks to align the product; it is not intended to be used for bearing weight. Do not hang the product only using the coffin locks.

## 4. Operation

### Control Panel Description

Button	Function
<MENU/ESC>	Scrolls through the main menu and exits from the current menu or function
<ENTER>	Enables the currently displayed menu or sets the currently selected value in to the current function
<UP>	Navigates upward through the menu list and increases the numeric value when in a function
<DOWN>	Navigates downward through the menu list and decreases the numeric value when in a function

### Programming the Nexus™ 2x2

Refer to the [Menu Map](#) section to understand the menu options. The menu map shows the main level and a variable number of programming levels for each option.

- To navigate to the desired main level, press **<MENU>** repeatedly until the desired option is displayed on the control panel. Press **<ENTER>** to select the desired option. This will take you to the first programming level for that option.
- To select an option or value within the current programming level, press **<UP>** or **<DOWN>** until the desired option is displayed on the control panel, and press **<ENTER>** to select the option. In this case, if there is another programming level, you will see that first option, or you will see the selected value.
- Press **<MENU>** repeatedly to exit to the previous main level.

### Auto Programs

Auto programs allow for dynamic RGB color mixing without a DMX controller.

1. Go to **Auto Show**.
2. Select the desired **Auto (1~11)** or **Fade** program.
3. Select the **Show Speed (000~100)**.



You cannot edit any of the auto programs.

### Static Color

The Static Color mode allows for preset or custom RGB color mixing without a DMX controller.

1. Go to the **Static** main level.
2. Select **Fixture Color** or **Manual Color**.
  - a. **Fixture Color:**
    - i. Select desired **color (R, G, B, GB, RB, RG, or RGB)**.
  - b. **Manual Color:**
    - i. Select the desired **color (R, G, or B)**.
    - ii. Select the desired **color value (000~255)**.
    - iii. Repeat the steps for each color.

### Dimmer Curves

This setting determines how fast the output of the Nexus™ 2x2 changes when you modify the values of the red, green, blue, and dimmer faders. This setting provides 3 different options to simulate the dimming curve of an incandescent lighting product.

1. Go to the **Dimmer Mode** main level.
2. Select a dimmer curve (**OFF**, **DIM1**, **DIM2**, or **DIM3**).

**OFF:** The output is proportional (linear) to the dimmer and RGB channel values.

**DIM1~3:** The output follows the dimmer and RGB channel values based on the corresponding dimmer curve, being **DIM1** the fastest and **DIM3** the slowest.



## Display Backlight

This setting determines how long the backlight on the display will stay on.

1. Go to the **Back Lite** main level.
2. Select the desired amount of time the backlight display will stay on after pressing the last menu button (**On**, **10 S**, **20 S**, or **30 S**).

## Product Information

This menu option provides software information that is needed for certain programming functions and software uploads.

1. Go to the **Info** main level.
2. Select the desired **program level** based on the information required.
  - a. **Fixture Hours** – Displays the amount of time the product has been in use.
  - b. **Version** – Displays the software version installed on the product.
  - c. **IP Address** - Displays the product's IP address.
  - d. **Device ID** - Displays the product's ID number (used for Kling-Net only).

## DMX Control

In this mode, each product will respond to a unique starting address from the DMX controller. All products with the same starting address will respond in unison.

1. Select a **DMX personality** (see DMX Personality).
2. Set the starting address:
  - a. Go to **DMX Address** main level.
  - b. Select the starting address (**001~512**).

## DMX Personality

This setting allows you to choose a particular DMX personality.

1. Go to the **DMX Channel** main level.
2. Select the desired **personality** (**3Ch**, **5Ch**, **9Ch**, **12Ch**, or **17Ch**).



- For the highest starting address you can select for each personality, see the [DMX Values](#) section.
- Make sure that the starting addresses on the various products do not overlap due to the new personality setting.



The highest recommended starting address for each DMX mode are as follows:

DMX Mode	DMX Address	DMX Mode	DMX Address
<b>3Ch</b>	510	<b>12Ch</b>	501
<b>5Ch</b>	508	<b>17Ch</b>	496
<b>9Ch</b>	504		

## Master/Slave

The Master/Slave mode allows a group of Nexus™ 2x2 products (slave units) to simultaneously duplicate the output of another Nexus™ 2x2 product (master unit) without a DMX controller.

1. Setting each of the slave products:
  - a. Go to **Master/Slave** main level.
  - b. Select **Slave**.
2. Setting the master product:
  - a. Go to **Master/Slave** main level.
  - b. Select **Master**.
  - c. Select an **auto** program (see [Auto Programs](#)), or a static mix of colors (see [Static Color](#)).



- The master product runs a program whether in Auto or Static color mode.
- Do not connect a DMX controller to the products configured for Master/Slave operation. The DMX controller may interfere with signals from the master product.
- Master/Slave connections use the 3- and 5-pin XLR connections only. Products connected via the etherCON® connection will not function correctly.



**White Calibration** This setting allows you to define the color temperature used when the DMX controller's faders (red, green, blue) are set to "255."

1. Go to the **White** main level.
2. Select the desired **color** (**R**, **G**, or **B**).
3. Select the desired **color value** (**125~255**).
4. Repeat the steps for each color.

**Fan Control** The Nexus™ 2x2 allows you to adjust the fan speed for quiet operation.

1. Go to the **Fan Speed** main level.
2. Select the desired **speed** (**High** or **Auto**).

**Temperature** This main level displays the product's internal temperature.

1. Go to the **Temperature** main level.

**Setting Ethernet Protocols** This setting allows you to choose a particular Ethernet protocol setting.

1. Go to **Ethernet Settings > Protocol**.
2. Select the desired mode (**Kling-Net** or **Art-Net**).
  - a. **Kling-Net**: All settings are preconfigured by the ArKaos Media Master software. *Note: Verify the software is running to receive an IP address.*
  - b. **Art-Net**:
    - i. **IP Mode**:
      - a. Select **DHCP** to seek an address from the router or **Static** to use the product's factory preset IP Address.
    - ii. **Net**:
      - a. Select the desired **value** (**000~127**). *Note: Setting is used for consoles running Art-Net™ 3 or above.*
    - iii. **Subnet**:
      - a. Select the desired **value** (**00~15**).
    - iv. **Universe**:
      - a. Select the desired **value** (**00~15**).

**Reset to Factory Default** This procedure allows you to reset the Nexus™ 2x2 to the default factory values.

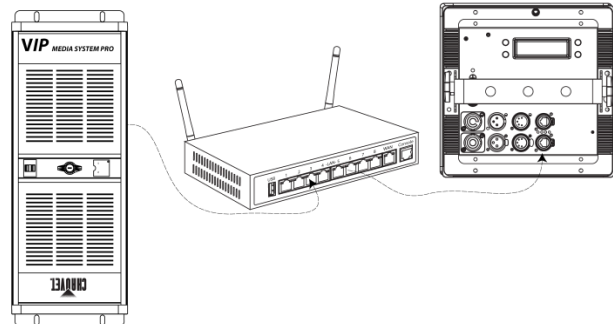
1. Turn off the power to the Nexus™ 2x2.
2. Press and hold **<MENU>** and **<ENTER>**.
3. Turn on the power to the Nexus™ 2x2.
4. Release **<MENU>** and **<ENTER>** when *Factory reset? ENTER = Confirm* is displayed on the control panel.
5. Press **<ENTER>**.
6. Wait for the reset process to finish.

## Nexus™ 2x2 Software Upgrade Instructions

The following steps were used in the Windows® 7 operating system environment.

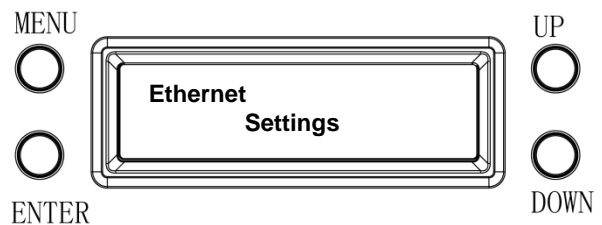
### Step 1:

1. **Connect** the Nexus™ 2x2 to the router.
2. **Verify** the computer is using the same network as the Nexus™ 2x2 product.



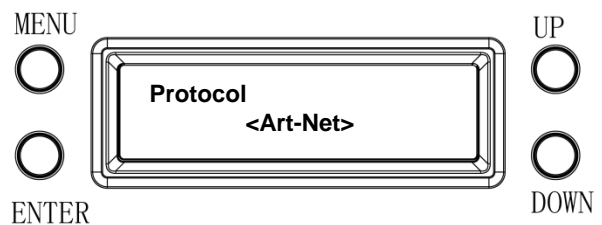
### Step 2:

1. From the Nexus™ 2x2 main level, navigate to the **Ethernet Settings**.



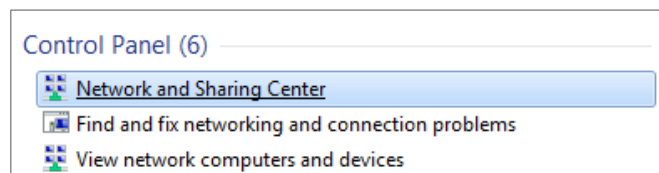
### Step 3:

1. Select **Protocol**.
2. Select **Art-Net**.
3. Select **IP Mode** (verify the **Static** setting is selected).



### Step 4:

1. From the Windows® start menu, click the **Start** button.
2. From the **Search** box, type **Network and Sharing Center**. Windows will generate the search results in the Start window.
3. Select **Network and Sharing Center**. The *Network and Sharing Center* dialog appears.



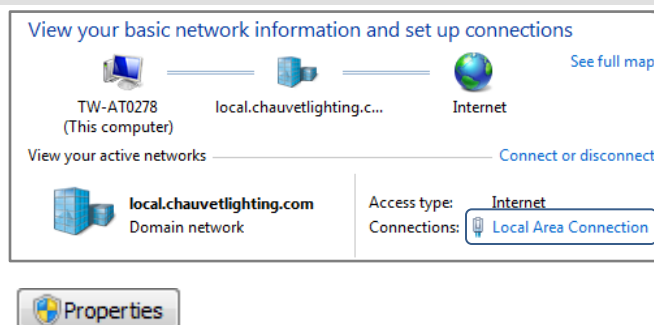
**Step 5:**

1. Select the desired **network** the product is connected to.
- i** NOTE: If you are running a hard-wired line from the PC to your router, then select *Local Area Connection*.

The *Local Area Connection Status* dialog appears.

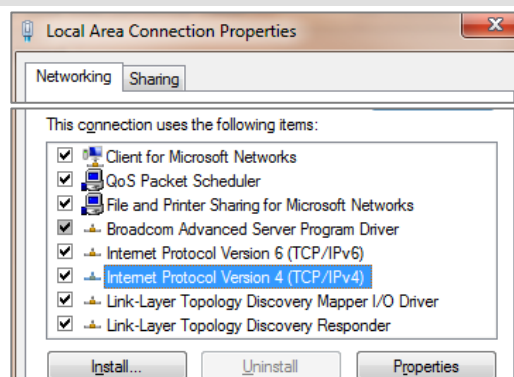
2. Click **Properties**.

The *Local Area Connection Properties* dialog appears.

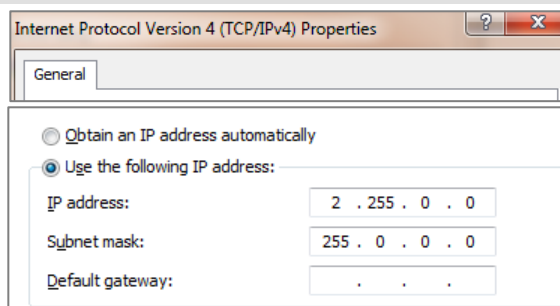
**Step 6:**

1. From the **Networking** tab, select **Internet Protocol Version 4 (TCP/IPv4)**.
2. Click **Properties**.

The *Internet Protocol Version 4 (TCP/IPv4) Properties* dialog appears.

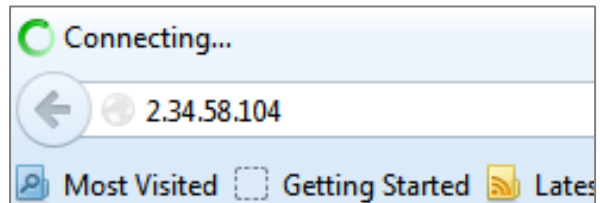
**Step 7:**

1. From the **General** tab, select **Use the following IP address:**.
2. Enter the following information:
  - a. Enter **2.255.0.0** in the **IP address** box.
  - b. Enter **255.0.0.0** in the **Subnet mask** box.
3. Click **OK**.
4. **Close** existing dialogs that are currently open.
5. **Minimize** the Control Panel, as it will be necessary to access this window after the software upgrade is uploaded to the product.



## Step 8:

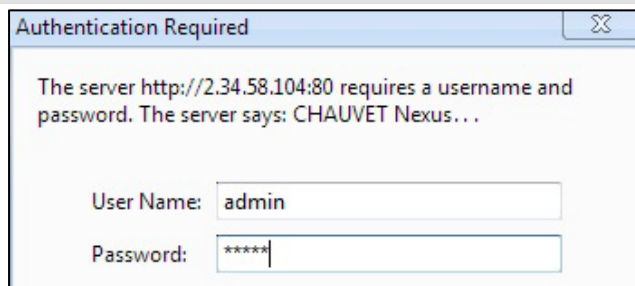
1. From the Nexus™ 2x2 control panel, navigate to the **Info** main level.
2. Select **IP Address**.
3. From the PC, **open** the Internet browser.
4. Enter the **IP address** for the Nexus™ 2x2 you are working with in the address bar. For example, if the IP address shown in the product's control panel is 2.34.58.104, then type that into your internet browser address bar).
5. Press **ENTER**. The *Authentication Required* dialog appears.



## Step 9:

1. Enter the following information:
  - a. Enter **admin** in the **User Name** box.
  - b. Enter **admin** in the **Password** box.
2. Click **Log In**. The *Nexus 2x2 firmware* window appears.

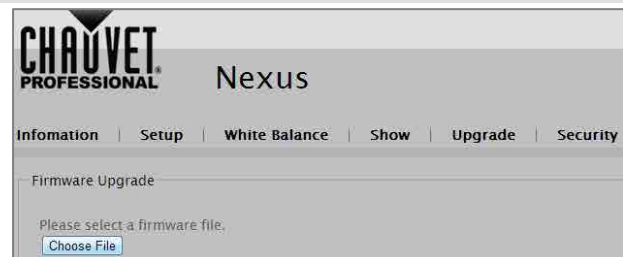
**i** NOTE: If the user name/password you entered is invalid, follow the [Factory Reset](#) procedure.



## Step 10:

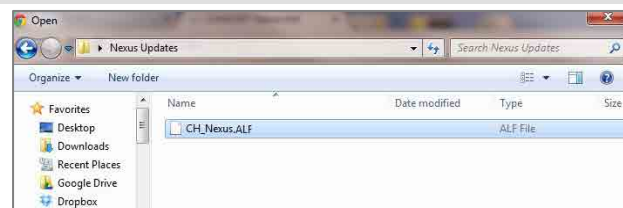
1. From the **Navigation** bar, select the **Upgrade** tab.
2. From the **Firmware Upgrade** section, click **Choose File**.

The *Open* dialog appears.



## Step 11:

1. From the *Open* dialog, select the **file** to upload the firmware onto the Nexus™ 2x2 product.
2. Click **Open**.

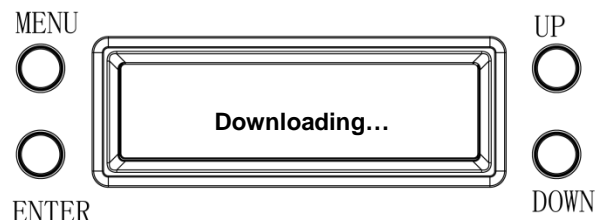


The “*Downloading...*” message appears in the product's control panel.

Once the firmware finishes downloading the software, the product will automatically reset the unit and the control panel flickers.



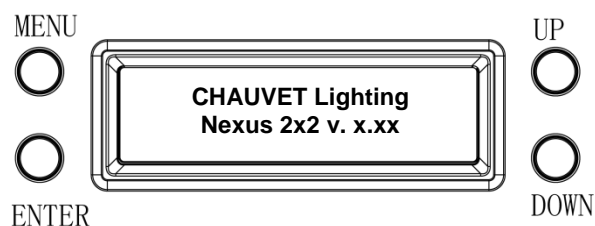
**Do not turn off the product during the downloading process. It will take approximately 1 min before to reset.**



**Step 12:**

1. Navigate to the **Info** main level.
2. Select **Version**.
3. Verify the product's control panel displays the uploaded version.

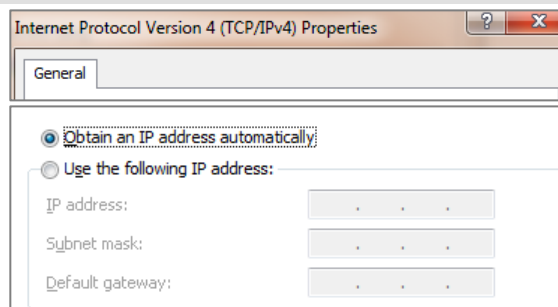
The software upgrade is now complete.

**Step 13:**

Once the software upgrade is complete, the IP setting on your PC needs to be changed back to the original settings.

1. Refer to step #4 for navigation instructions on how to access the *Internet Protocol Version 4 Properties (TCP/IPv4)* dialog.
2. From the General tab, select **Obtain an IP address automatically**, and click **OK**.
3. Continue to close the dialogs displayed until you exit out of the Control Panel.

The installation process is complete.



## Menu Map

Main Level	Programming Levels			Description
Auto Show	Auto 01~11	Show Speed 000~100		11 automatic programs
	Fade			Cross-fading color scroll
Static	Fixture Color	R		7 preset colors
		G		
		B		
		GB		
		RB		
		RG		
		RGB		
	Manual Color	R	000~255	Combine Red, Green, and Blue, to generate a custom color (0~100%)
		G		
		B		
Dimmer Mode	Off			Dimming curve
	Dimmer 1~3			
Back Lite	On			Always on
	10S			Sets the amount of time control panel backlight stays on
	20S			
	30S			
Info	Fixture Hours			Shows the amount of time the product has been in use
	Version			Shows the software version installed
	IP Address			Shows the products IP address
	Device ID			Shows the products ID number
DMX Address	001~512			Sets products DMX Address/Art-Net™ start channel
DMX Channel	3Ch			3-Channel mode
	5Ch			5-Channel mode
	9Ch			9-Channel mode
	12Ch			12-Channel mode
	17Ch			17-Channel mode

## Menu Map (Cont.)

Main Level	Programming Levels				Description
Master/Slave	Master				Selects Master mode
	Slave				Selects Slave mode
White	R	125~255			Defines the color temperature used when RGB faders are at 100%
	G				
	B				
Fan Speed	Auto				Product determines fan speed
	High				Fan speed is set to highest setting
Temperature					Displays the product's internal temperature
Ethernet Settings	Protocol	Kling-Net			Product uses Kling-Net protocols
		Art-Net	IP Mode	DHCP	Router provides the IP address
				Static	Uses the products pre-configured IP address
			Net	000~127	For use with consoles/controllers running Art-Net™ 3
			Subnet	00~15	For use when addressing Art-Net™
			Universe		

## DMX Values

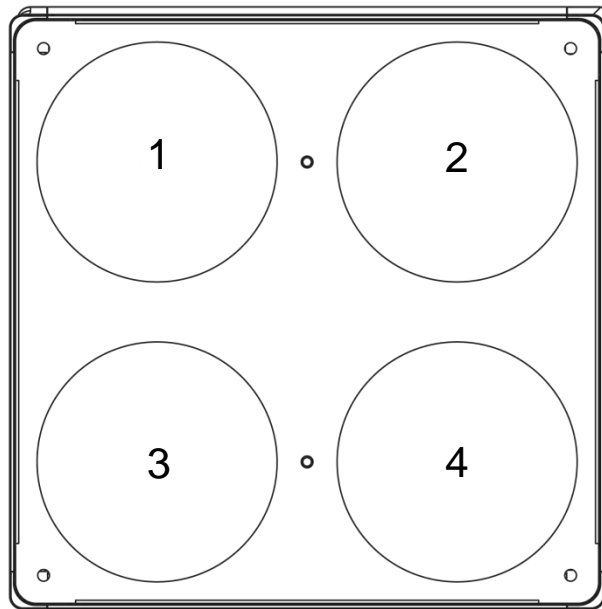
17 Ch	Channel	Function	Value	Percent/Setting
1		Red 1	000 ◊ 255	0~100%
		Warm White 1		When values <b>011-020</b> in <b>CH. 17</b> are activated
2		Green 1	000 ◊ 255	0~100%
		Cool White 1		When values <b>011-020</b> in <b>CH. 17</b> are activated
3		Blue 1	000 ◊ 255	0~100%
4		Red 2	000 ◊ 255	0~100%
		Warm White 2		When values <b>011-020</b> in <b>CH. 17</b> are activated
5		Green 2	000 ◊ 255	0~100%
		Cool White 2		When values <b>011-020</b> in <b>CH. 17</b> are activated
6		Blue 2	000 ◊ 255	0~100%
7		Red 3	000 ◊ 255	0~100%
		Warm White 3		When values <b>011-020</b> in <b>CH. 17</b> are activated
8		Green 3	000 ◊ 255	0~100%
		Cool White 3		When values <b>011-020</b> in <b>CH. 17</b> are activated
9		Blue 3	000 ◊ 255	0~100%
10		Red 4	000 ◊ 255	0~100%
		Warm White 4		When values <b>011-020</b> in <b>CH. 17</b> are activated
11		Green 4	000 ◊ 255	0~100%
		Cool White 4		When values <b>011-020</b> in <b>CH. 17</b> are activated
12		Blue 4	000 ◊ 255	0~100%
13		Auto Programs	000 ◊ 010	No Function
			011 ◊ 029	Auto 1
			030 ◊ 048	Auto 2
			049 ◊ 067	Auto 3
			068 ◊ 086	Auto 4
			087 ◊ 104	Auto 5
			105 ◊ 123	Auto 6
			124 ◊ 142	Auto 7
			162 ◊ 161	Auto 8
			180 ◊ 179	Auto 9
			199 ◊ 198	Auto 10
			199 ◊ 217	Auto 11
			218 ◊ 236	Fade
			237 ◊ 255	Auto 1~11
14		Auto Speed	000 ◊ 255	Only when values <b>011~255</b> in <b>CH. 13</b> are activated
15		Dimmer	000 ◊ 255	0~100%
16		Strobe	000 ◊ 010	No Function
			011 ◊ 255	0~30 Hz
17		Dimmer Speed	000 ◊ 010	Preset dimmer speed from display menu
			011 ◊ 020	WW/CW Mode On (hold for 5 sec.)
			021 ◊ 030	WW/CW Mode Off (hold for 5 sec.)
			031 ◊ 051	No Function
			052 ◊ 101	Linear dimmer
			102 ◊ 152	Nonlinear dimming curve 1 (fastest)
			153 ◊ 203	Nonlinear dimming curve 2
			204 ◊ 255	Nonlinear dimming curve 3 (slowest)



## DMX Values (Cont.)

12 Ch	Channel	Function	Value	Percent/Setting
	1	Red 1	000 ◊ 255	0~100%
	2	Green 1	000 ◊ 255	0~100%
	3	Blue 1	000 ◊ 255	0~100%
	4	Red 2	000 ◊ 255	0~100%
	5	Green 2	000 ◊ 255	0~100%
	6	Blue 2	000 ◊ 255	0~100%
	7	Red 3	000 ◊ 255	0~100%
	8	Green 3	000 ◊ 255	0~100%
	9	Blue 3	000 ◊ 255	0~100%
	10	Red 4	000 ◊ 255	0~100%
	11	Green 4	000 ◊ 255	0~100%
	12	Blue 4	000 ◊ 255	0~100%

**Pixel Layout  
(12 or 17  
Channel modes)**



5 CH	Channel	Function	Value	Percent/Setting
	1	Dimmer	000 ◊ 255	0~100%
	2	Red	000 ◊ 255	0~100%
	3	Green	000 ◊ 255	0~100%
	4	Blue	000 ◊ 255	0~100%
	5	Strobe	000 ◊ 010 011 ◊ 255	No Function 0~30 Hz
3 CH	Channel	Function	Value	Percent/Setting
	1	Red	000 ◊ 255	0~100%
	2	Green	000 ◊ 255	0~100%
	3	Blue	000 ◊ 255	0~100%

## DMX Values (Cont.)

9 CH	Channel	Function	Value	Percent/Setting
	1	Dimmer	000 ○ 255	0~100%
	2	Red	000 ○ 255	0~100%
		Warm White		When values <b>011-020</b> in <b>CH. 9</b> are activated
	3	Green	000 ○ 255	0~100%
		Cool White 1		When values <b>011-020</b> in <b>CH. 9</b> are activated
	4	Blue	000 ○ 255	0~100%
	5	Strobe	000 ○ 009 010 ○ 255	No Function 0~30 Hz
	6	Color Macro + White Balance	000 ○ 010 011 ○ 030 031 ○ 050 051 ○ 070 071 ○ 090 091 ○ 110 111 ○ 130 131 ○ 150 151 ○ 170 171 ○ 200 201 ○ 205 206 ○ 210 211 ○ 215 216 ○ 220 221 ○ 225 226 ○ 230 231 ○ 235 236 ○ 240 241 ○ 245 246 ○ 250 251 ○ 255	No Function R: 100%    G: 0~100%    B: 0 R: 100%~0    G: 100%    B: 0 R: 0    G: 100%    B: 0~100% R: 0    G: 100%~0    B: 100% R: 0~100%    G: 0    B: 100% R: 100%    G: 0    B: 100%~0 R: 100%    G: 0~100%    B: 0~100% R: 100%~0    G: 100%~0    B: 100% R: 100%    G: 100%    B: 100% White 1 White 2 White 3 White 4 White 5 White 6 White 7 White 8 White 9 White 10 White 11
	7	Auto Programs	000 ○ 010 011 ○ 029 030 ○ 048 049 ○ 067 068 ○ 086 087 ○ 104 105 ○ 123 124 ○ 142 162 ○ 161 180 ○ 179 199 ○ 198 199 ○ 217 218 ○ 236 237 ○ 255	No Function Auto 1 Auto 2 Auto 3 Auto 4 Auto 5 Auto 6 Auto 7 Auto 8 Auto 9 Auto 10 Auto 11 Fade Auto 1~11
	8	Auto Speed	000 ○ 255	Only when values <b>011~255</b> in <b>CH. 7</b> are activated
	9	Dimmer Speed	000 ○ 010 011 ○ 020 021 ○ 030 031 ○ 051 052 ○ 101 102 ○ 152 153 ○ 203 204 ○ 255	Preset dimmer speed from display menu WW/CW Mode On (hold for 5 sec.) WW/CW Mode Off (hold for 5 sec.) No Function Linear dimmer Nonlinear dimming curve 1 (fastest) Nonlinear dimming curve 2 Nonlinear dimming curve 3 (slowest)

## 5. 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:

- Unplug the product from power.
- Wait until the product has cooled.
- Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external vents and accessible internal components.
- Clean all external surfaces with a mild solution of non-ammonia glass cleaner or isopropyl alcohol.
- Apply the solution directly to a soft, lint-free cotton cloth or a lens cleaning tissue.
- Wipe any dirt or grime to the outside edges of the lens surface.
- Gently polish the lens surfaces until they are free of haze and lint.



**Always dry the external surfaces thoroughly and carefully after cleaning them.**

### Returns

- You must send the product prepaid, in the original box, and with the original packing and accessories. CHAUVET® will not issue call tags.
- Call CHAUVET® 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(s) for the return.
- Clearly label the package with an RMA number. CHAUVET® will refuse any product returned without an RMA number.



Do not write the RMA number directly on the box. Instead, write it on a properly affixed label.

Once you have received the RMA number, include the following information on a piece of paper inside the box:

- Your name
- Your address
- Your phone number
- The RMA number
- A brief description of the problem(s)

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



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

## Technical Specifications

Dimensions and Weight	Length	Width	Height	Weight
	9 in (228 mm)	9 in (228 mm)	6 in (152.4 mm)	10 lb. (4.6 kg)
	Note: Dimensions in inches rounded to the nearest decimal digit.			
Electrical	Power Supply Type	Range		Voltage Selection
	Switching (internal)	100~240 V, 50/60 Hz		Auto-ranging
	Parameter	120 V, 60 Hz		230 V, 50 Hz
	Consumption	108 W		111 W
	Operating current	.90 A		.48 A
	Power linking (products)	15		28
	Fuse/Breaker	T 2 A, 250 V		T 2 A, 250 V
	Power I/O	U.S./Worldwide		Europe
	Power input connector	Neutrik® powerCON® A		Neutrik® powerCON® A
	Power output connector	Neutrik® powerCON® B		Neutrik® powerCON® B
Light Source	Power cord plug	Edison (U.S.)		Local plug
	Type	Power		Lifespan
	LED	27 W		50,000 hours
	Color	Quantity		Current
	Red	4		658 mA
	Green	4		667 mA
	Blue	4		680 mA
	Photo Optic	Parameter	Standard Optics	
Illuminance @ 5 m		135 lx		
Beam angle		45°		
Field angle		75°		
Thermal	Max. External Temperature	Cooling System		
	113 °F (45 °C)	Fan-assisted Convection		
DMX	I/O Connectors	Connector Type	Channel Range	
	3- and 5-pin XLR	Sockets	3,5,9,12,17	
Art-Net™/Kling-Net	I/O Connectors	Connector Type	Channel Range	
	RJ45	Sockets	12	
Ordering	Product Name	Item Code	UPC Number	
	Nexus™ 2x2	03090745	781462210939	

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### World Wide Web

[www.chauvetlighting.co.uk](http://www.chauvetlighting.co.uk)

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

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UL 1573

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