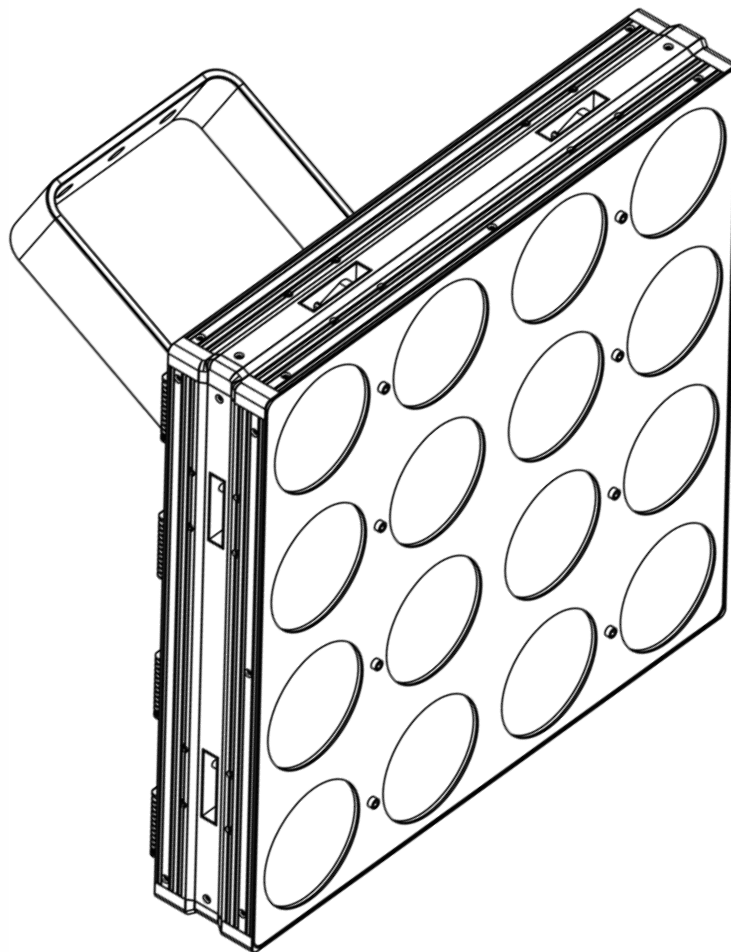


nEXUS™

4x4

User Manual




CHAUVET®
PROFESSIONAL
It's **Green** Thinking.

Edition Notes This user manual covers the description, safety precautions, installation, programming, operation, and maintenance of the Nexus™ 4x4.

CHAUVET® released this edition of the Nexus™ 4x4 user manual in July 2013.

Trademarks CHAUVET® is a registered trademark of CHAUVET & Sons Inc. (d/b/a CHAUVET® or Chauvet). The CHAUVET® logo in its entirety including the CHAUVET® name and the dotted triangle, and all other trademarks in this manual pertaining to services, products, or marketing statements (for example: It's Green Thinking™) are owned or licensed by CHAUVET®.

Any other product names, logos, brands, company names, and other trademarks featured or referred to within this document are the property of their respective trademark holders.

Copyright Notice CHAUVET® owns the content of this User Manual in its entirety, including but not limited to pictures, logos, trademarks, and resources.

© Copyright 2013 CHAUVET®. All rights reserved.

Electronically published by CHAUVET® in the United States of America.

Manual Use CHAUVET® authorizes its customers to download and print this manual for professional information purposes only. CHAUVET® expressly prohibits the usage, copy, storage, distribution, modification, or printing of this manual or its content for any other purpose without written consent from CHAUVET®.

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 for any errors or omissions in this document. CHAUVET® reserves the right to revise and make changes to the content of this document without obligation that CHAUVET® notify any person or company of such revision or changes. This does not in any way constitute a commitment by CHAUVET® to make such changes. CHAUVET® may issue a revision of this manual or a new edition to incorporate such changes.

Document Revision The Nexus™ 4x4 User Manual Rev. 1 supersedes all previous versions of this manual. Discard any older versions of this manual and replace with this version.

Author	Date	Editor	Date Updated
D. Couppe	07/23/13	T. Yeago	07/26/13

Table of Contents

1. Before You Begin	2
What Is Included	2
Claims	2
Manual Conventions	2
Symbols	2
Safety Notes	3
Personal Safety	3
Mounting and Rigging	3
Power and Wiring	3
Operation	3
Expected LED Lifespan	3
2. Introduction	4
Description	4
Features	4
Controllers	4
Overview	5
Dimensions	6
3. Setup	7
AC Power	7
AC Plug	7
Fuse Replacement	7
Power Linking	8
DMX Linking	9
DMX Modes	9
Master/Slave Connectivity	9
Art-Net™ Connection	10
Kling-Net Connection	10
Mounting	11
Orientation	11
Rigging	11
4. Operation	14
Control Panel Description	14
Programming the Nexus™ 4x4	14
Auto Programs	14
Static Color	14
Dimmer Curves	14
Display Backlight	15
Product Information	15
DMX Control	15
DMX Personality	15
Master/Slave	15
White Calibration	16
Fan Control	16
Temperature	16
Setting Ethernet Protocols	16
Reset to Factory Default	16
Nexus™ 4x4 Software Upgrade Instructions	17
Menu Map	21
DMX Values	23
Pixel Layout (53 or 48 Ch modes)	25
5. Technical Information	28
Product Maintenance	28
Returns	28
Technical Specifications	29
Contact Us	30

1. Before You Begin

What Is Included

- Nexus™ 4x4
- 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 104 °F (40 °C). Do not operate this product at a higher temperature.
- In case of a serious operating problem, stop using this product immediately!

**Expected LED Lifespan**

In the unlikely event that your CHAUVET® product may require service, contact CHAUVET® Technical Support.

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™ 4x4 is a tour-ready wash light capable of delivering a pixel mapping display and an output of sixteen 25-watt RGB COB LEDs. The combination of COB emitters and a clever reflector design yields a diffused light with saturated hues. Nexus™ 4x4 is controllable via Art-Net™, Kling-Net, and DMX protocols. It also features interlocking hardware to build large arrays.

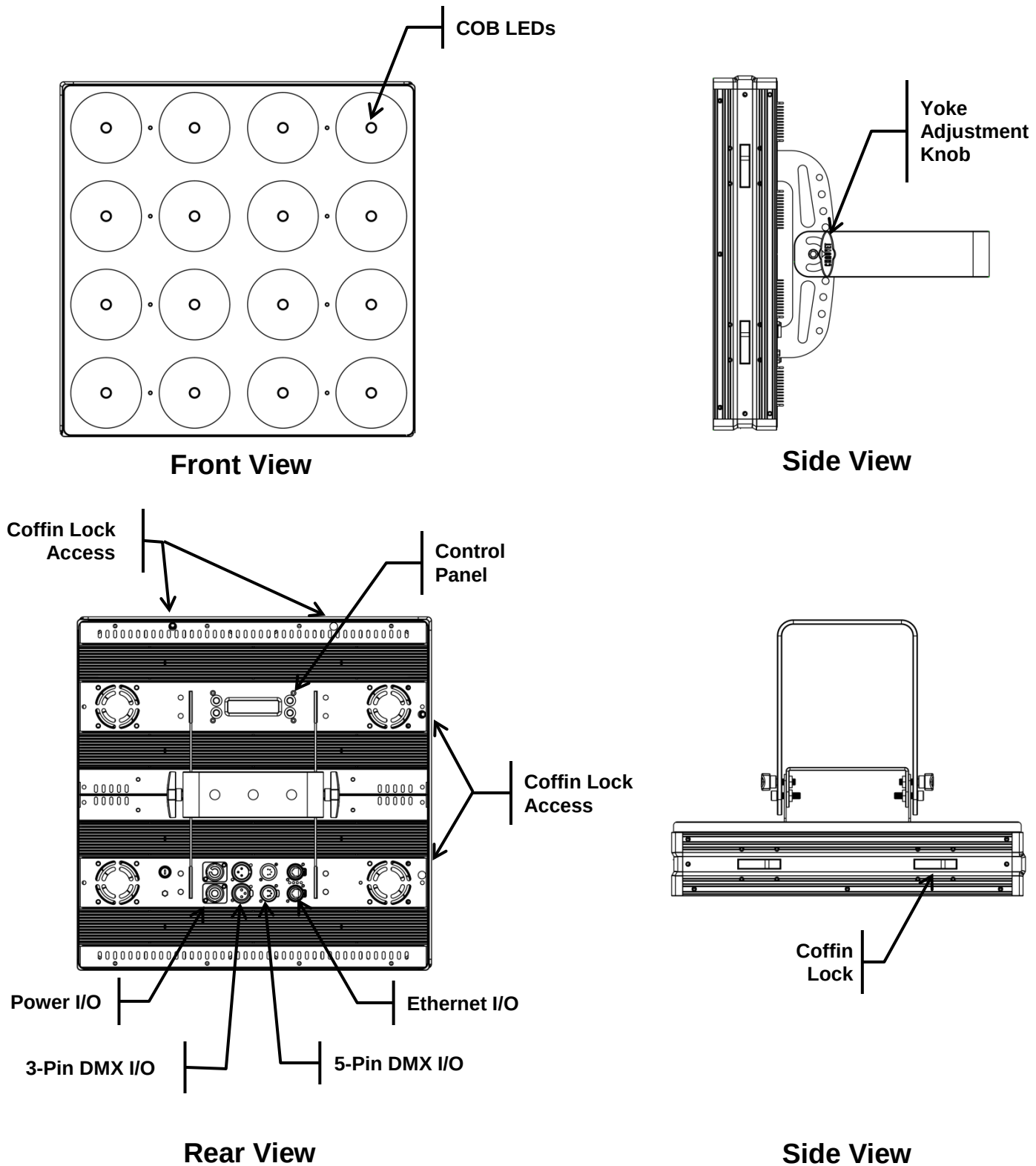
Features

- 3, 5, 9, 48, or 53 RGB COB LED wash product
- Operating modes:
 - § 3-channel: RGB control
 - § 5-channel: RGB, dimmer, strobe
 - § 9-channel: R/WW, G/CW, B, dimmer, strobe, color macro, auto, dimmer speed, auto speed
 - § 48-channel: RGB pixel control
 - § 53-channel: R/WW pixel control, G/CW pixel control, B pixel control, dimmer, strobe, auto, dimmer speed, auto speed
- Bright large diode COB LEDs for vibrant colors
- Individual pixel control for pixel mapping options
- Link multiple panels together with integrated locks
- Neutrik® powerCON®, Neutrik® etherCON®, 3- and 5-pin XLR connections

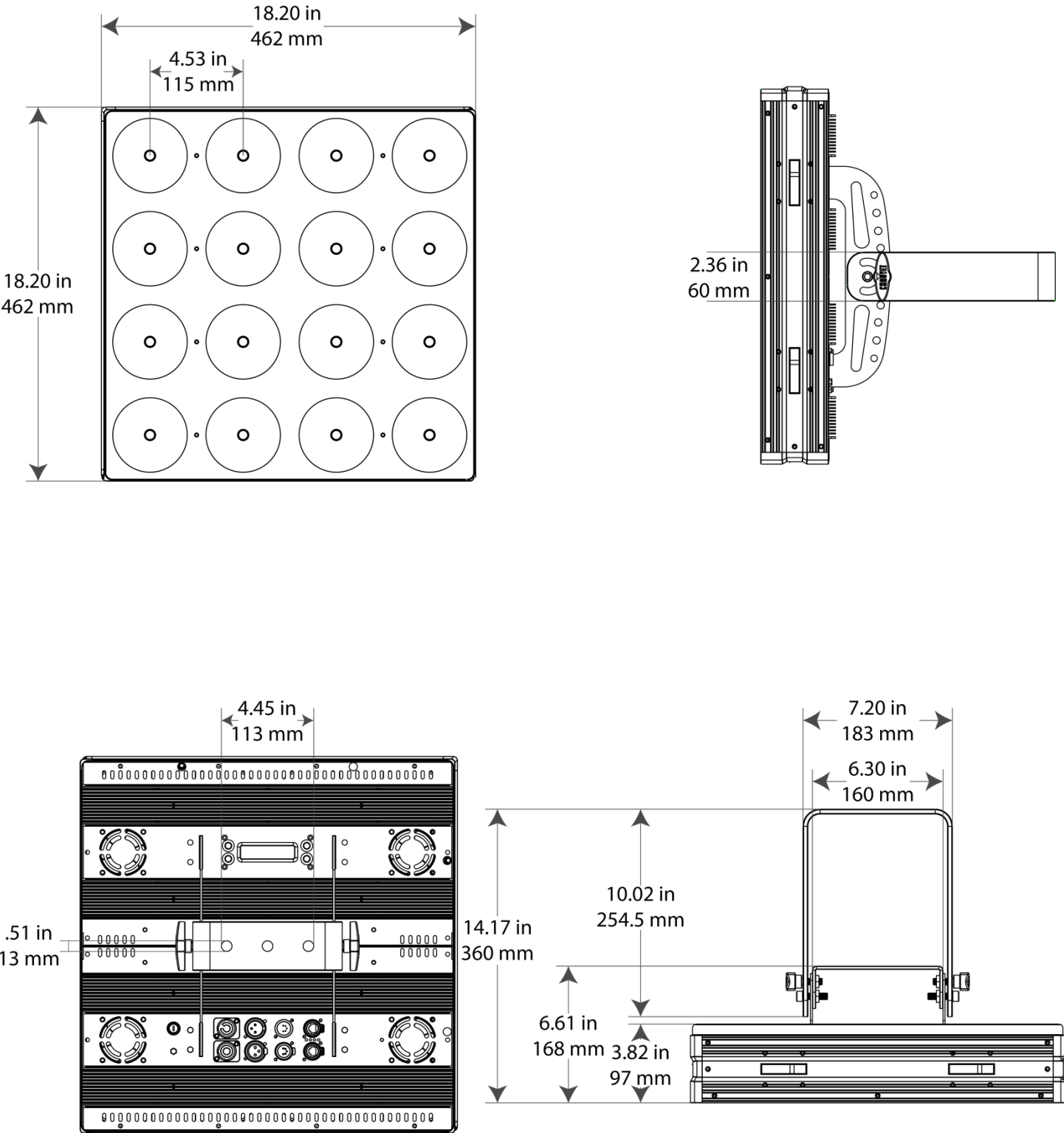
Controllers

- Kling-net, Art-Net™, DMX Control

Overview



Dimensions



3. Setup

AC Power

The Nexus™ 4x4 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™ 4x4, 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.



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™ 4x4 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 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 a good fuse of the same type and rating (T 5 A, 250 V).
4. Screw the fuse holder cap back in place and reconnect power.

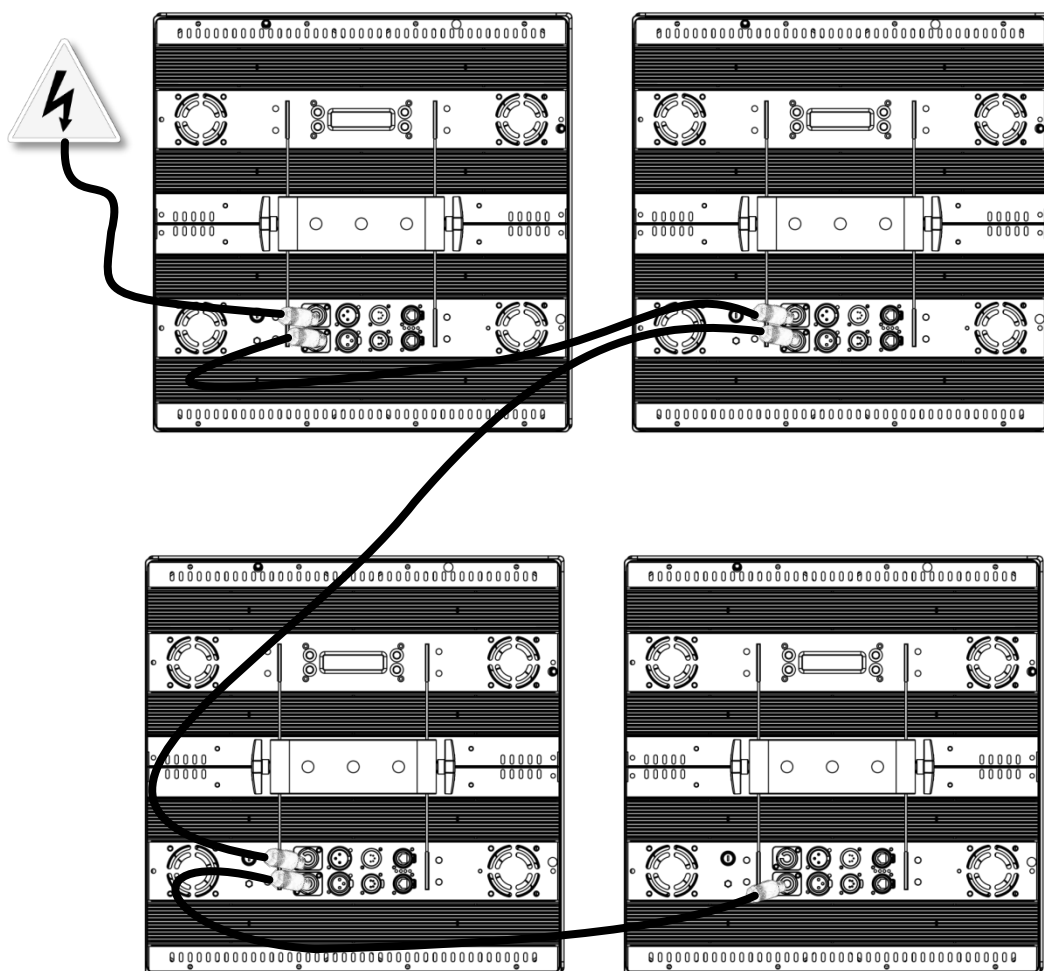
Power Linking

The Nexus™ 4x4 supports power linking. You can power link up to:

- 4 products at 120 VAC, or
- 8 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™ 4x4 to a DMX controller using a standard DMX serial connection. If using other DMX compatible products with the Nexus™ 4x4, you can control each individually with a single DMX controller.

DMX Modes

The Nexus™ 4x4 uses the standard DMX data connection for the 3, 5, 9, 48, and 53 channel DMX modes.

- Refer to the [Introduction](#) section for a brief description of these modes.
- Refer to the [Operation](#) section to learn how to configure the Nexus™ 4x4 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™ 4x4 (the “master product”) to control one or more Nexus™ 4x4s (the “slave products”) without a DMX controller. One Nexus™ 4x4 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.

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. 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™ 4x4 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

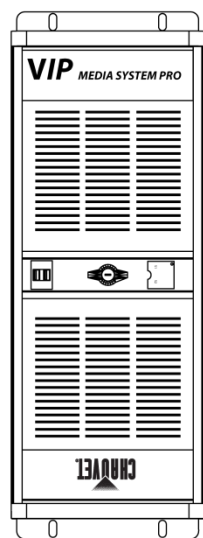
Kling-Net is a network protocol to allow auto configuration of display devices over the Ethernet. Kling-Net uses the Neutrik® etherCON® connection. For more information, please contact ArKaos directly.



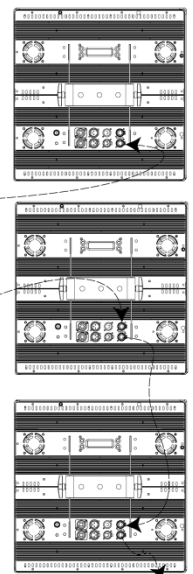
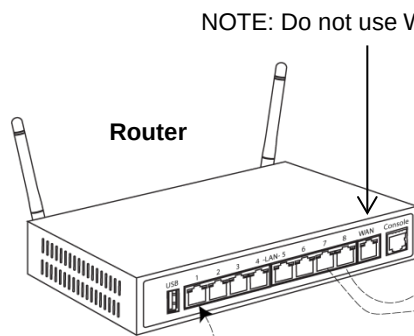
For a smooth-running operation, ArKaos Kling-Net requires a gigabit (1000 Mbps) Ethernet card and network switch.

The Nexus™ 4x4 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



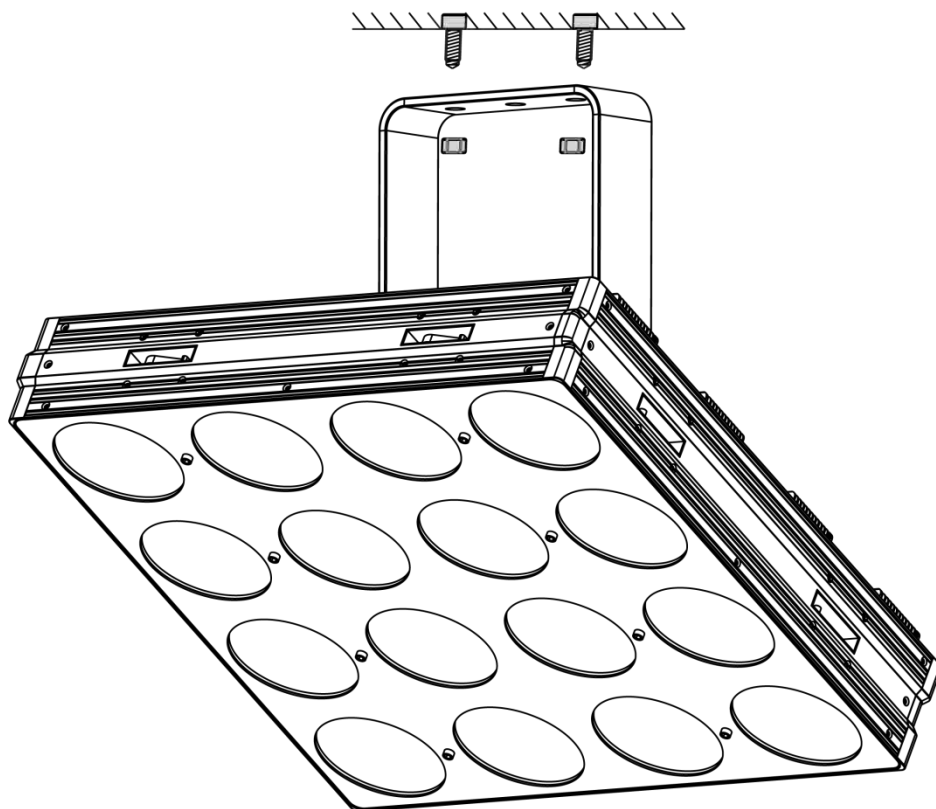
Computer/Controller
(running Kling-Net
or Art-Net™ protocol)



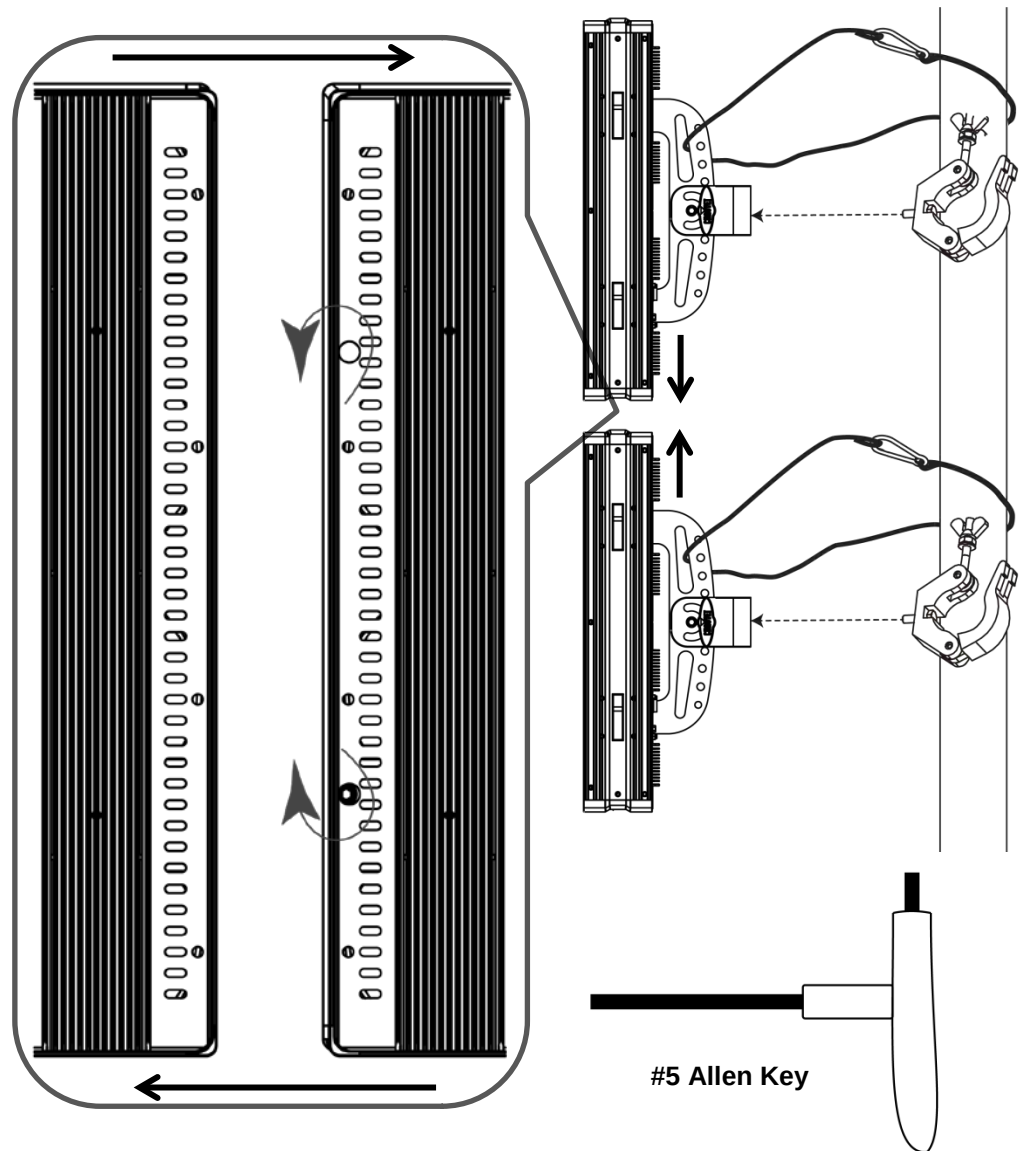
To other
Kling-Net or
Art-Net™
Devices

- 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™ 4x4 consists of a bracket and body. CHAUVET® recommends using the following guidelines when mounting this product.
- When selecting an installation location, consider easy access to this product for operation, programming adjustments, and routine maintenance.
 - Make sure to mount this product away from any flammable material as indicated in the [Safety Notes](#).
 - Never mount in places where rain, high humidity, extreme temperature changes, or restricted ventilation may affect the product.
 - If hanging this product, make sure that the mounting location can support the product's weight. See the [Technical Specifications](#) for the weight-bearing requirements of this product.
 - When hanging this product, always secure to a fastening device using a safety cable (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™ 4x4 comes with an adjustable mounting bracket with three (3) 13 mm holes which serves as a floor or wall mount support.

Floor/Wall 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>	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™ 4x4

Refer to the [Menu Map](#) 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 option shows on the display. Press <ENTER> to select. 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 (01~12)** 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™ 4x4 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 stays 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.
 - 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**, **48Ch**, or **53Ch**).

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
3Ch	510	48Ch	465
5Ch	508	53Ch	460
9Ch	504		

Master/Slave

The Master/Slave mode allows a group of Nexus™ 4x4s (slave units) to simultaneously duplicate the output of another Nexus™ 4x4 (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.
 - The master product should be the first product in the daisy chain.



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™ 4x4 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 products 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**:
 1. Select the desired **value** (**00~15**).
 - iv. **Universe**:
 2. Select the desired **value** (**00~15**).

Reset to Factory Default

This procedure allows you to reset the Nexus™ 4x4 to the default factory values.

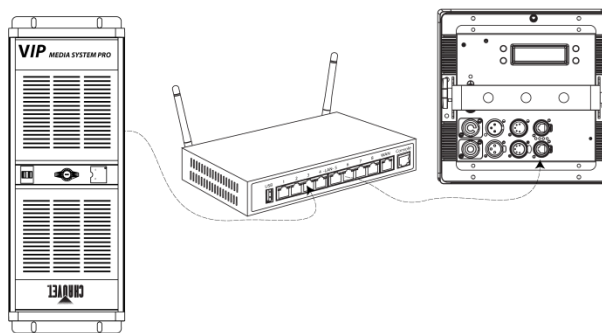
1. Turn off the power to the Nexus™ 4x4.
2. Press and hold **<MENU>** and **<ENTER>**.
3. Turn on the power to the Nexus™ 4x4.
4. Release **<MENU>** and **<ENTER>** when *Factory reset? ENTER = Confirm* is displayed on the control panel.
5. Press **<ENTER>**.
6. Wait for the reset process to finish.

Nexus™ 4x4 Software Upgrade Instructions

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

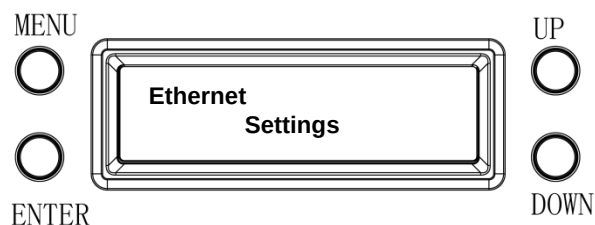
Step 1:

1. **Connect** the Nexus™ 4x4 to the router.
2. **Verify** the computer is using the same network as the Nexus™ 4x4 product.



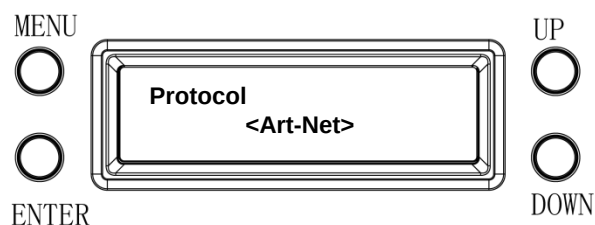
Step 2:

1. From the Nexus™ 4x4 main level, navigate to the **Ethernet Settings**.



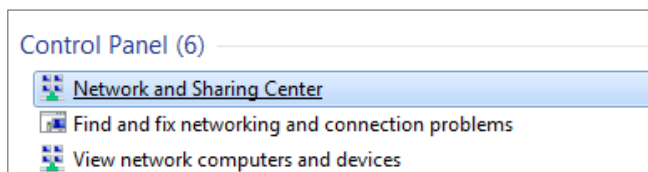
Step 3:

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.

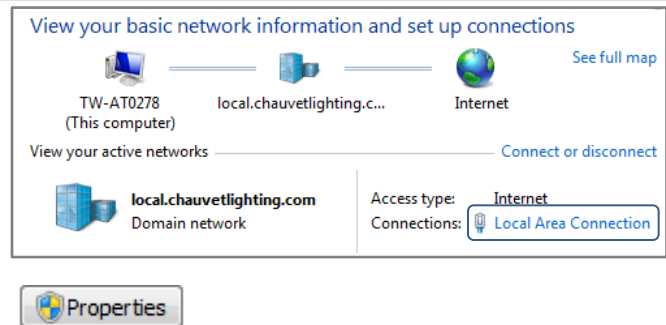


Step 5:

1. Select the desired **network** the product is connected to.
- 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.

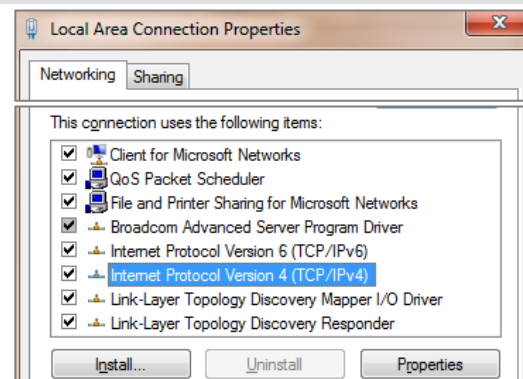
2. Click **Properties**.
The *Local Area Connection Properties* dialog appears.



Step 6:

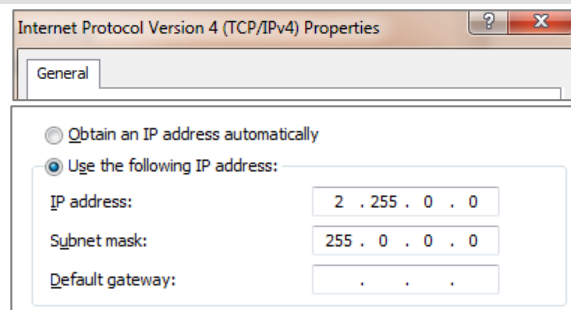
1. From the **Networking** tab, select **Internet Protocol Version 4 (TCP/IPv4)**.
2. Click **Properties**.

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



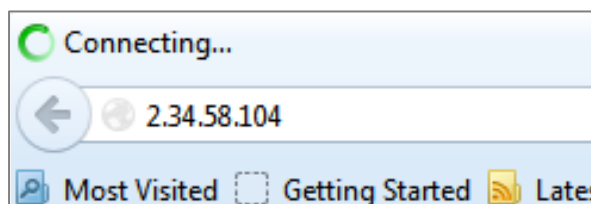
Step 7:

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.



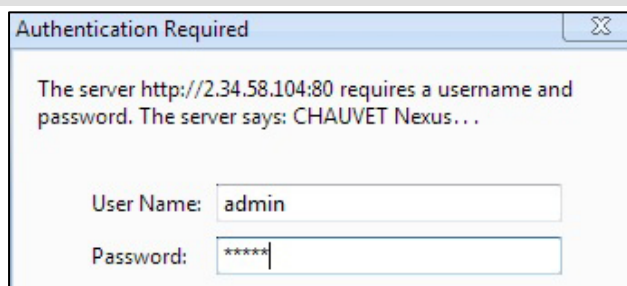
Step 8:

1. From the Nexus™ 4x4 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™ 4x4 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:**

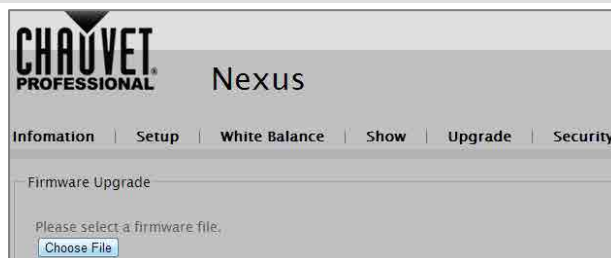
1. Enter the following information:
 - c. Enter **admin** in the **User Name** box.
 - d. Enter **admin** in the **Password** box.
2. Click **Log In**. The *Nexus 4x4 firmware* window appears.

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

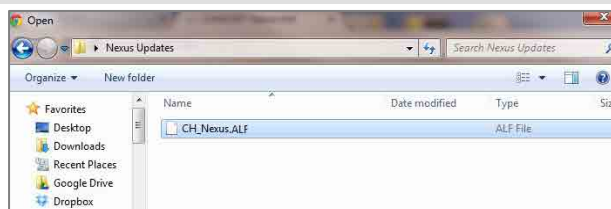
**Step 10:**

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™ 4x4 product.
2. Click **Open**.

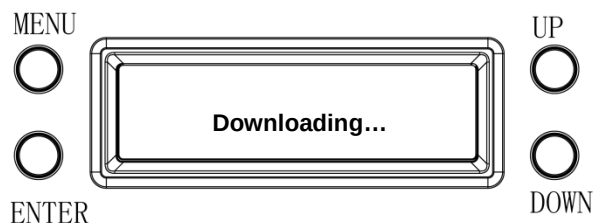


The “*Downloading...*” message appears in the product's control panel.

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



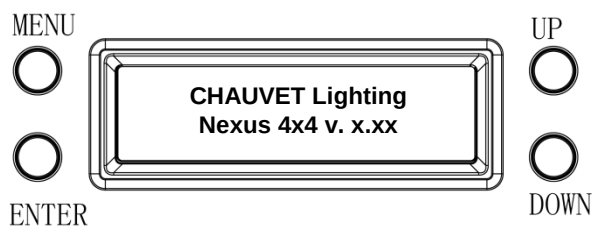
Do not turn off the product during the downloading process. It will take approximately 1 min before to reset.



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.

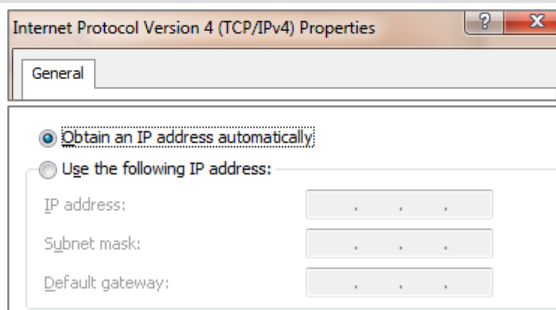


Step 13:

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 01~12	Show Speed 000~100		13 automatic programs
	Fade			
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		
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
	48Ch			48-Channel mode
	53Ch			53-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					Shows the product 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

53 Ch	Channel	Function	Value	Percent/Setting
1	Red 1		000 ó 255	0~100%
	Warm White 1			When values 011-020 in CH. 53 are activated
2	Green 1		000 ó 255	0~100%
	Cool White 1			When values 011-020 in CH. 53 are activated
3	Blue 1		000 ó 255	0~100%
4	Red 2		000 ó 255	0~100%
	Warm White 2			When values 011-020 in CH. 53 are activated
5	Green 2		000 ó 255	0~100%
	Cool White 2			When values 011-020 in CH. 53 are activated
6	Blue 2		000 ó 255	0~100%
7	Red 3		000 ó 255	0~100%
	Warm White 3			When values 011-020 in CH. 53 are activated
8	Green 3		000 ó 255	0~100%
	Cool White 3			When values 011-020 in CH. 53 are activated
9	Blue 3		000 ó 255	0~100%
10	Red 4		000 ó 255	0~100%
	Warm White 4			When values 011-020 in CH. 53 are activated
11	Green 4		000 ó 255	0~100%
	Cool White 4			When values 011-020 in CH. 53 are activated
12	Blue 4		000 ó 255	0~100%
13	Red 5		000 ó 255	0~100%
	Warm White 5			When values 011-020 in CH. 53 are activated
14	Green 5		000 ó 255	0~100%
	Cool White 5			When values 011-020 in CH. 53 are activated
15	Blue 5		000 ó 255	0~100%
16	Red 6		000 ó 255	0~100%
	Warm White 6			When values 011-020 in CH. 53 are activated
17	Green 6		000 ó 255	0~100%
	Cool White 6			When values 011-020 in CH. 53 are activated
18	Blue 6		000 ó 255	0~100%
19	Red 7		000 ó 255	0~100%
	Warm White 7			When values 011-020 in CH. 53 are activated
20	Green 7		000 ó 255	0~100%
	Cool White 7			When values 011-020 in CH. 53 are activated
21	Blue 7		000 ó 255	0~100%
22	Red 8		000 ó 255	0~100%
	Warm White 8			When values 011-020 in CH. 53 are activated
23	Green 8		000 ó 255	0~100%
	Cool White 8			When values 011-020 in CH. 53 are activated
24	Blue 8		000 ó 255	0~100%
25	Red 9		000 ó 255	0~100%
	Warm White 9			When values 011-020 in CH. 53 are activated
26	Green 9		000 ó 255	0~100%
	Cool White 9			When values 011-020 in CH. 53 are activated
27	Blue 9		000 ó 255	0~100%
28	Red 10		000 ó 255	0~100%
	Warm White 10			When values 011-020 in CH. 53 are activated
29	Green 10		000 ó 255	0~100%
	Cool White 10			When values 011-020 in CH. 53 are activated
30	Blue 10		000 ó 255	0~100%

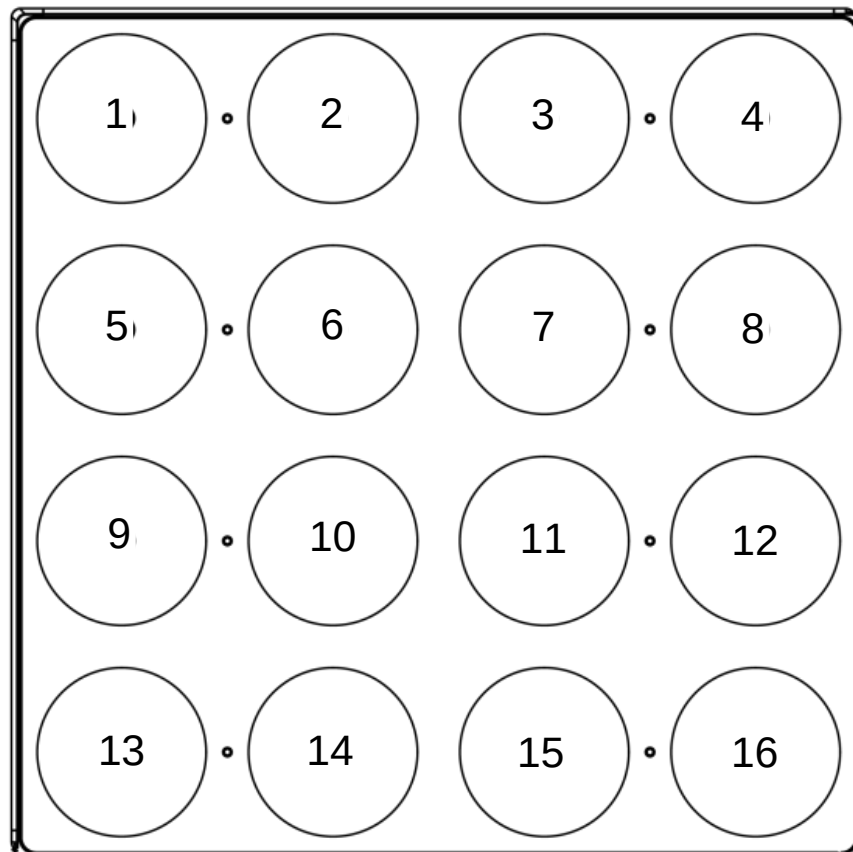
DMX Values (Cont.)

53 Ch (Cont.)	Channel	Function	Value	Percent/Setting
31	Red 11	Warm White 11	000 ó 255	0~100%
	When values 011-020 in CH. 53 are activated			
32	Green 11	Cool White 11	000 ó 255	0~100%
	When values 011-020 in CH. 53 are activated			
33	Blue 11		000 ó 255	0~100%
34	Red 12	Warm White 12	000 ó 255	0~100%
	When values 011-020 in CH. 53 are activated			
35	Green 12	Cool White 12	000 ó 255	0~100%
	When values 011-020 in CH. 53 are activated			
36	Blue 12		000 ó 255	0~100%
37	Red 13	Warm White 13	000 ó 255	0~100%
	When values 011-020 in CH. 53 are activated			
38	Green 13	Cool White 13	000 ó 255	0~100%
	When values 011-020 in CH. 53 are activated			
39	Blue 13		000 ó 255	0~100%
40	Red 14	Warm White 14	000 ó 255	0~100%
	When values 011-020 in CH. 53 are activated			
41	Green 14	Cool White 14	000 ó 255	0~100%
	When values 011-020 in CH. 53 are activated			
42	Blue 14		000 ó 255	0~100%
43	Red 15	Warm White 15	000 ó 255	0~100%
	When values 011-020 in CH. 53 are activated			
44	Green 15	Cool White 15	000 ó 255	0~100%
	When values 011-020 in CH. 53 are activated			
45	Blue 15		000 ó 255	0~100%
46	Red 16	Warm White 16	000 ó 255	0~100%
	When values 011-020 in CH. 53 are activated			
47	Green 16	Cool White 16	000 ó 255	0~100%
	When values 011-020 in CH. 53 are activated			
48	Blue 16		000 ó 255	0~100%
49	Auto Programs	000 ó 010	No Function	
		011 ó 030	Auto 1	
		031 ó 050	Auto 2	
		051 ó 070	Auto 3	
		071 ó 090	Auto 4	
		091 ó 110	Auto 5	
		111 ó 130	Auto 6	
		131 ó 150	Auto 7	
		151 ó 170	Auto 8	
		171 ó 190	Auto 9	
		191 ó 210	Auto 10	
		211 ó 230	Auto 11	
		231 ó 255	Auto 12	
50	Auto Speed		000 ó 255	Only when CH. 49 has Auto 01~12 activated
51	Dimmer		000 ó 255	0~100%
52	Strobe	000 ó 010	No Function	
		011 ó 255	0~30 Hz	
53	Dimmer Speed	000 ó 010	Preset dimmer speed from display menu	
		011 ó 020	WW/CW Mode On (hold for 5 sec.)	
		021 ó 030	WW/CW Mode Off (hold for 5 sec.)	
		031 ó 051	No Function	
		052 ó 101	Linear dimmer	
		102 ó 152	Nonlinear dimming curve 1 (fastest)	
		153 ó 203	Nonlinear dimming curve 2	
		204 ó 255	Nonlinear dimming curve 3 (slowest)	

DMX Values (Cont.)

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

Pixel Layout (53 or 48 Ch modes)



DMX Values (Cont.)

9 CH	Channel	Function	Value	Percent/Setting
	1	Dimmer	000 ó 255	0~100%
	2	Red	000 ó 255	0~100%
		Warm White		When values 011-020 in CH. 9 are activated
	3	Green	000 ó 255	0~100%
		Cool White 1		When values 011-020 in CH. 9 are activated
	4	Blue	000 ó 255	0~100%
	5	Strobe	000 ó 009 010 ó 255	No Function 0~30 Hz
	6	Color Macro + White Balance	000 ó 010 011 ó 030 031 ó 050 051 ó 070 071 ó 090 091 ó 110 111 ó 130 131 ó 150 151 ó 170 171 ó 200 201 ó 205 206 ó 210 211 ó 215 216 ó 220 221 ó 225 226 ó 230 231 ó 235 236 ó 240 241 ó 245 246 ó 250 251 ó 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 ó 010 011 ó 030 031 ó 050 051 ó 070 071 ó 090 091 ó 110 111 ó 130 131 ó 150 151 ó 170 171 ó 190 191 ó 210 211 ó 230 231 ó 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 Auto 12
	8	Auto Speed	000 ó 255	Only when CH. 7 has Auto 01~12 activated
	9	Dimmer Speed	000 ó 010 011 ó 020 021 ó 030 031 ó 051 052 ó 101 102 ó 152 153 ó 203 204 ó 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)

DMX Values (Cont.)

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

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
18.2 in (462 mm)	18.2 in (462mm)	14.17 in (360 mm)	26.6 lb (12.07 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	401 W	394 W
Operating current	3.35 A	1.90 A
Power linking (products)	4	8
Fuse/Breaker	T 5 A, 250 V	T 5 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
Power cord plug	Edison (U.S.)	Local plug

Light Source

Type	Power	Lifespan
LED	25 W	50,000 hours

Color	Quantity	Current
Red	16	658 mA
Green	16	667 mA
Blue	16	680 mA

Photo Optic

Parameter	Standard Optics
Illuminance @ 5 m	484 lx
Beam angle	45°
Field angle	75°

Thermal

Max. External Temperature	Cooling System
104 °F (40 °C)	Fan-assisted Convection

DMX

I/O Connectors	Connector Type	Channel Range
3- and 5-pin XLR	Sockets	3,5,9,48,53

Art-Net™/Kling-Net

I/O Connectors	Connector Type	Channel Range
RJ45	Sockets	48

Ordering

Product Name	Item Code	UPC Number
Nexus™ 4x4	03090656	781462210045

Contact Us **World Headquarters**

CHAUVET®

General Information

Address: 5200 NW 108th Avenue
Sunrise, FL 33351
Voice: (954) 577-4545
Fax: (954) 929-5560
Toll free: (800) 762-1084

Technical Support

Voice: (954) 577-4455 (Press 4)
Fax: (954) 756-8015
Email: tech@chauvetlighting.com

World Wide Web

www.chauvetlighting.com

United Kingdom and Ireland

CHAUVET® Europe Ltd.

General Information

Address: Unit 1C
Brookhill Road Industrial Estate
Pinxton, Nottingham, UK
NG16 6NT
Voice: +44 (0)1773 511115
Fax: +44 (0)1773 511110

Technical Support

Email: uktech@chauvetlighting.com

World Wide Web

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.

RoHS



UL 1573

CSA C22.2 No. 166

E113093