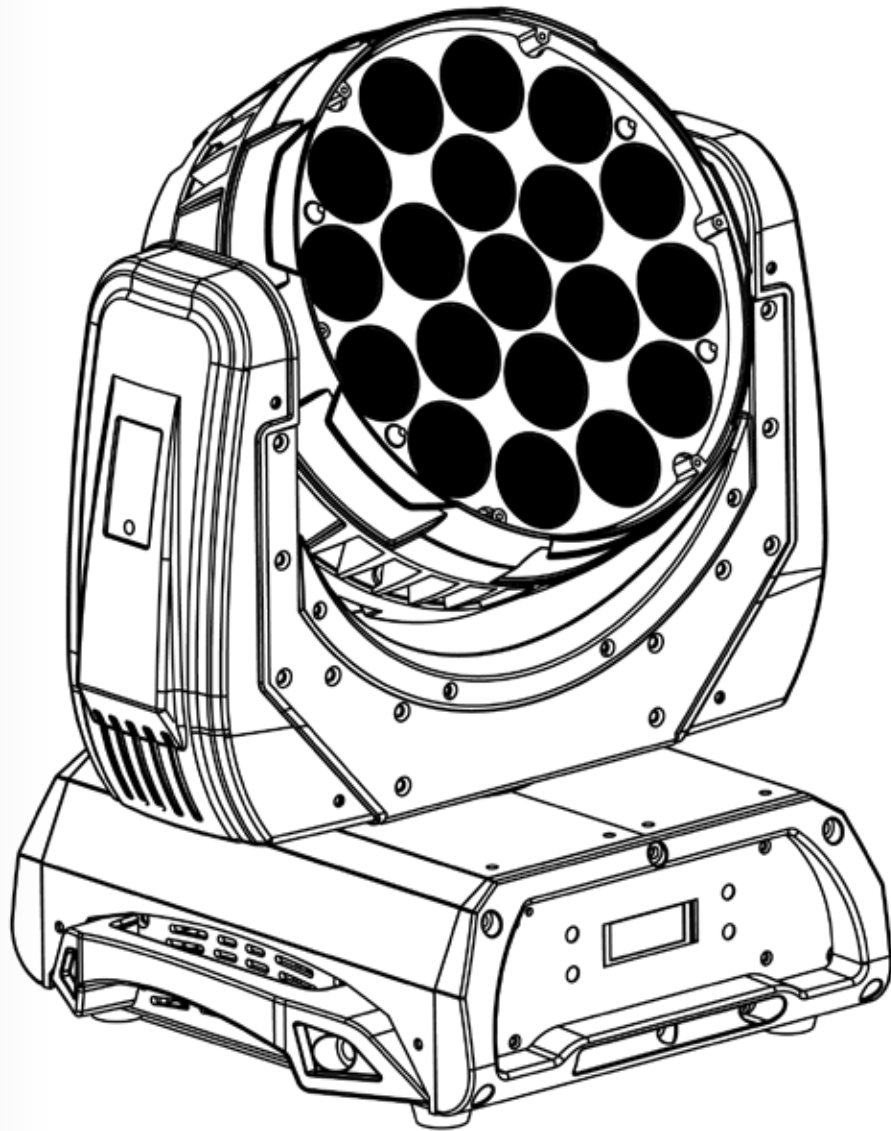# Q-WASH™ 419Z-LED

## User Manual

CHAUVET
PROFESSIONAL

## Edition Notes

This user manual covers the description, safety precautions, installation, programming, operation, and maintenance of the Q-Wash™ 419Z-LED.

Chauvet released this edition of the Q-Wash™ 419Z-LED user manual in April 2015.

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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 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 Q-Wash™ 419Z-LED User Manual Rev. 4 supersedes all previous versions of this manual. Discard any older versions of this manual and replace with this version. Go to www.chauvetprofessional.com for the latest version.

| Author | Date | Editor | Date |
|---|---|---|---|
| D. Couppe | 1/28/15 | M. Trouard | 4/22/15 |

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## Table of Contents

# 1. Before You Begin

**What Is Included**
- Q-Wash™ 419Z-LED
- powerCON® power cord
- Omega bracket 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 |
| **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.
- 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.
- Always disconnect this product from power before servicing.
- Always connect this product to a grounded circuit to avoid the risk of electrocution.
- Do not touch this product's housing when operating because it may be 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.
- When hanging this product, always secure to a fastening device using a safety cable.
- Always carry this product using the built-in handles.
- Do not leave any flammable material within 50 cm of this product while operating.

### 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. In any of these cases, have the damaged parts replaced by an authorized technician at once.
- 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.
- Do not cover the ventilation slots when the product is operating to avoid internal overheating.
- The maximum ambient temperature (Ta) 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!

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** The Q-Wash™ 419Z-LED is a high-power quad-color RGBW LED, moving head wash product. This product consists of a base section and a moving yoke with a pan range of up to 540º. The moving head, which has a tilt range of 270º, contains the 19 quad-color RGBW LEDs and the zoom motors. The base section has the 3- and 5-pin DMX input and output sockets, the Neutrik® powerCON® input connector, and the LCD-based control panel.

**Features**
- 19 LEDs quad-color RGBW (15 W)
- Smooth Zoom and Pan/Tilt movement
- 3 zones of LED control
- 16 bit control of master dimmer and individual colors
- Flicker-free operation

## Overview

**Control Panel**

**Handles**

**Omega Brackets**

**Side View**

**Front View**

**Quad-Color LEDs**

**Power Switch**

**Fuse**

**Power In/Out**

**Data In/Out**

**Top View**

**Rear View**

## Dimensions

**13.43 in**
**341 mm**

**10.63 in**
**270 mm**

**14.49 in**
**368 mm**

**11.69 in**
**297 mm**

**3.86 in**
**98 mm**

**8.86 in**
**225 mm**

**13.31 in**
**338 mm**
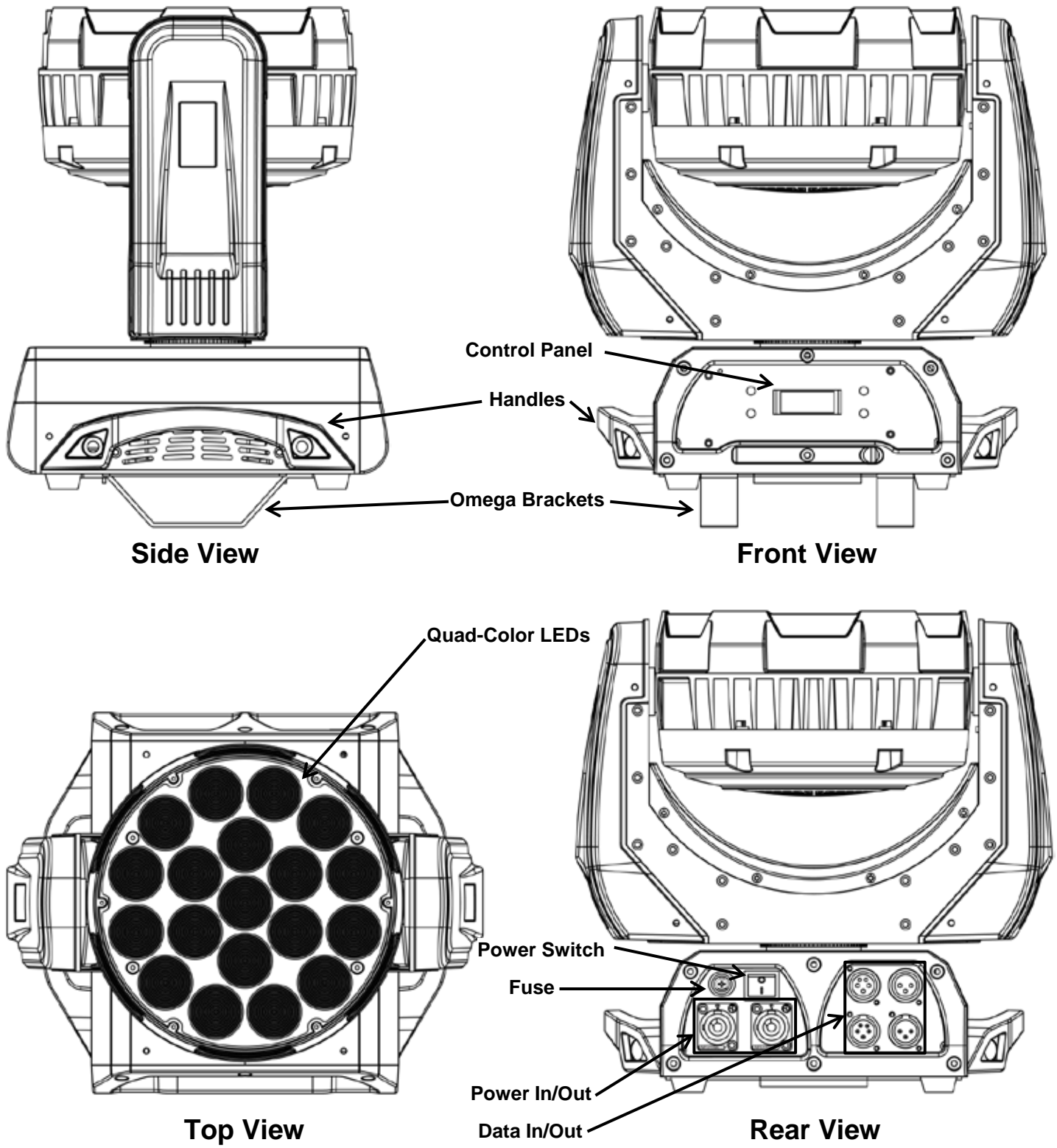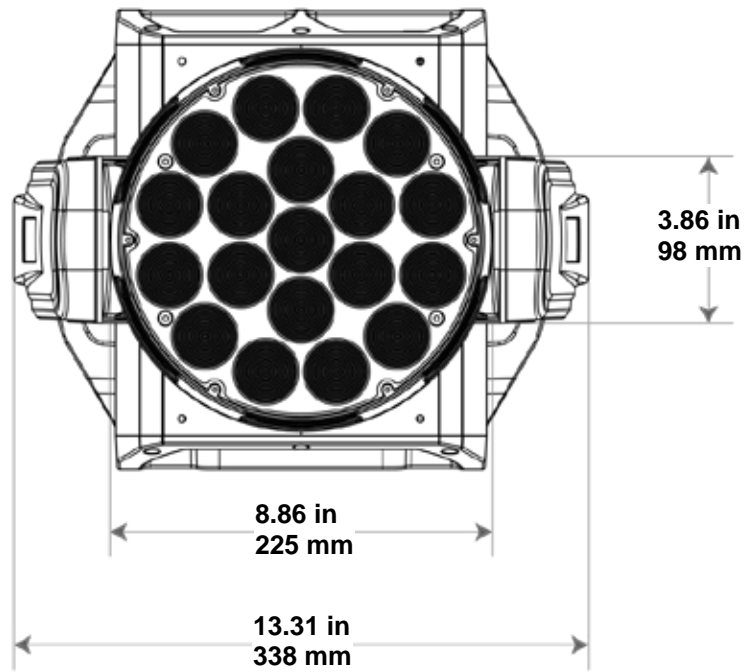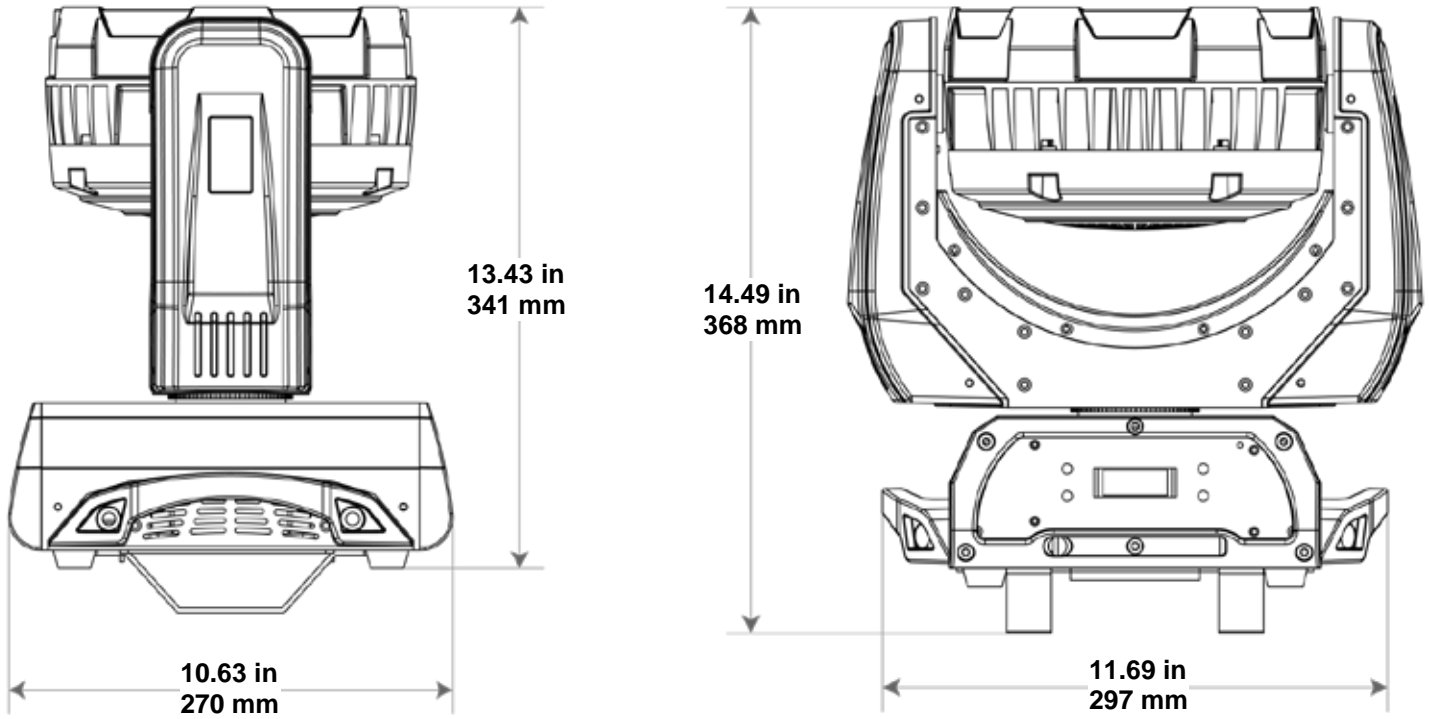
# 3. Setup

**AC Power** The Q-Wash™ 419Z-LED 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 Q-Wash™ 419Z-LED, 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.chauvetprofessional.com.

- Always connect this product to a protected circuit with an appropriate electrical ground to avoid the risk of electrocution or fire.
- 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 rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

**AC Plug** The Q-Wash™ 419Z-LED comes with a power input cord terminated with a Neutrik® powerCON® A connector and an Edison power cord adapter. If the power cord adapter that came with your product has no plug or 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 |

**Power Linking** The Q-Wash™ 419Z-LED supports power linking. You can power link up to:

- 5 products at 120 VAC,
- 9 products at 208 VAC, or
- 9 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.

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.

**Fuse Replacement** The stand-alone battery charger has no external fuse. However, the flight case/charger comes with a replaceable fuse (T 6.3 A @ 250 V).

To change the fuse on the flight case/charger, do the following:

1. Disconnect the product from the power outlet.
2. With a Phillips #2 head screwdriver, unscrew the fuse holder cap from its housing.
3. Remove the blown fuse and replace it with a good fuse of the same type and rating (T 6.3 A @ 250 V).
4. Screw the fuse holder cap back in its place and reconnect power.

## DMX Linking

You can link the Q-Wash™ 419Z-LED to a DMX controller using a standard DMX serial connection. If using other DMX compatible products with the Q-Wash™ 419Z-LED, you can control each individually with a single DMX controller.

## DMX Modes

The Q-Wash™ 419Z-LED uses the standard DMX data connection for its **PERSON1, PERSON2, PERSON3, PERSON4,** and **PERSON5** 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 Q-Wash™ 419Z-LED to work in these modes.
- The DMX Values section provides you with detailed information regarding the DMX modes.

## Master/Slave Connectivity

The Master/Slave mode allows a Q-Wash™ 419Z-LED (master product) to control one or more products (slave products) without a DMX controller.

One Q-Wash™ 419Z-LED becomes the master product either when running in static (MANUAL > MANUAL) mode or when using the automatic (STAND ALONE > RUN > AUTO 1~2) or customizable (STAND ALONE > RUN > CUSTOM) programs.

In addition, you must configure each of the slave products (via control panel) to operate in Slave (STAND ALONE > RUN > SLAVE) mode. During Master/Slave operation, the slave products will operate in unison with the master product.

For more information, see Menu Map.

Do not connect a DMX controller to products operating in Master/Slave mode. The DMX controller signals may interfere with the signals from the master product.

- The Operation section of this manual provides detailed instructions on how to configure the Master and Slave products.
- If you need more information about DMX standards, Master/Slave connectivity, or the DMX cables needed in order to link the product to a DMX controller, download the *DMX Primer* from the Chauvet website: www.chauvetprofessional.com.

## 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.

## Rigging

Chauvet recommends using the following general guidelines when mounting this product.

·   When selecting an installation location, consider easy access to this product for operation, programming adjustments, and routine maintenance.

·   Make sure to mount this product away from any flammable material as indicated in the Safety Notes.

·   Never mount in places where rain, high humidity, extreme temperature changes, or restricted ventilation may affect the product.

·   If hanging this product, make sure that the mounting location can support the product's weight. See the Technical Specifications for the weight-bearing requirements of this product.

·   When hanging this product, always secure to a fastening device using a safety cable.

## Procedure

The Q-Wash™ 419Z-LED comes with two omega brackets to which you can attach clamps. You must supply your own clamps and make sure that they are capable of supporting the weight of this product. You will have to use two mounting points per product. The omega brackets also serve to anchor this product to a panel. For floor standing operation, this product has built-in rubber feet..

**Mounting Diagram**

Clamp

Safety Cable

**Floor Mounting**          **Overhead Mounting**
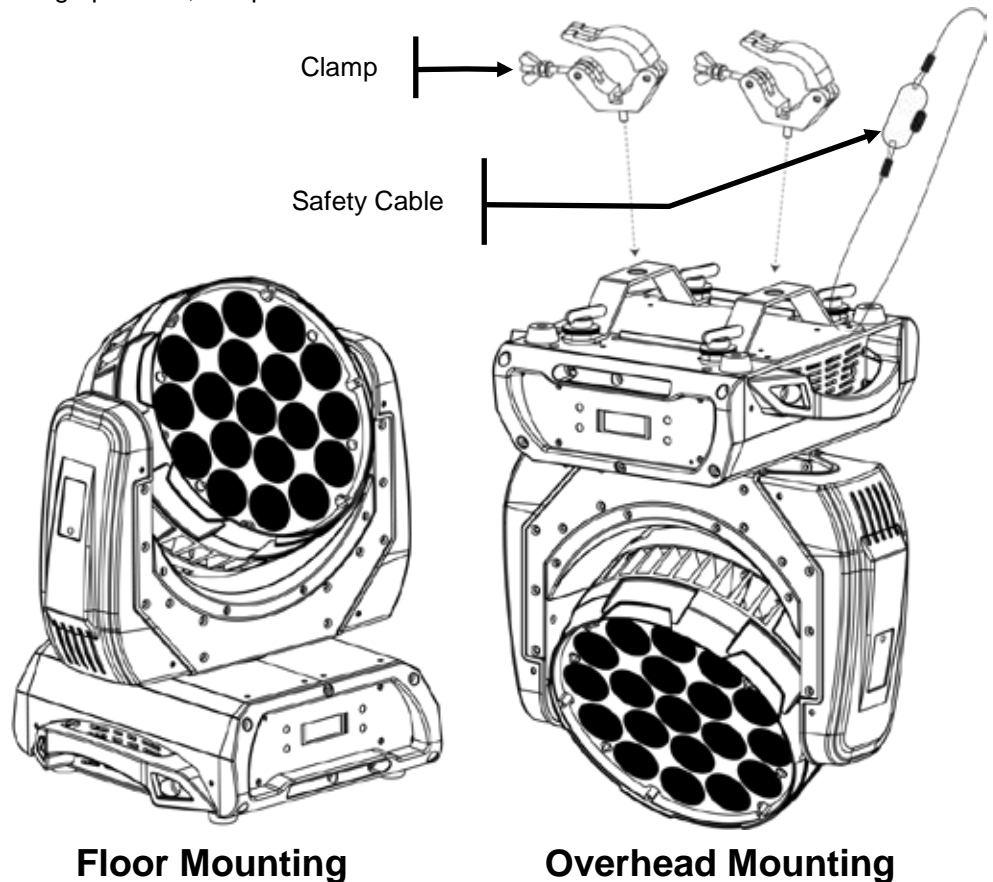
# 4. Operation

## Control Panel Description

| Button | Function |
|--------|----------|
| MENU | 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 options and increases the numeric value when in a function |
| DOWN | Navigates downward through the menu options and decreases the numeric value when in a function |

## Control Options

You can set the Q-Wash™ 419Z-LED starting address in the 001 to 512 DMX range. This enables control of up to 15 products in the 34-channel **PERSON5** personality.

## Programming

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 go to the desired main level, press **MENU** repeatedly until the option shows on the display. Press **ENTER** to select. 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.

## Control Panel Display

The Q-Wash™ 419Z-LED allows you to customize what is displayed on the products control panel screen.

1. Choose the screen mode as follows.
   a. Go to **SETTINGS > PERFORM > HOME SCREEN**.
   b. Select **DMX** to display only the DMX address or **NAME** to display what is programmed in the **CONTENT** level.
2. Enter the text to be displayed on the screen as follows.
   a. Go to **SERVICE > CONTENT**.
   b. Select **DISPLAY1**.
   c. Use the **UP** and **DOWN** keys to enter up to 16 characters of text.
   d. Select **DISPLAY2**.
   e. Use the **UP** and **DOWN** keys to enter up to 16 characters of text.

## Display Backlight

1. Select **SETTINGS > PERFORM > DISPLAY ON**.
   a. Select **LONG, SHORT,** or **ALWAYS**.

## Display Invert

1. Select **SETTINGS > PERFORM > DISPLAY INVERT**.
   a. Select **INVERT** to reverse the display direction or **NORM** to use the normal display direction.

**Control Panel Lock**  This setting enables you to activate or disable the control panel lock, which keeps non-authorized personnel from changing the product's settings.

To secure the **SETTINGS** level only:

1. Go to **SERVICE > ACCESS > SETTINGS LOCK**.
   a. Select **ON** to require the password to access the level or **OFF** to allow open access.

To secure the **SERVICE** level only:

1. Go to **SERVICE > ACCESS > SERVICE LOCK**.
   a. Select **ON** to require the password to access the level or **OFF** to allow open access.

To secure all levels of the control panel:

1. Go to **SETTINGS > DISPLAY LOCK**.
   a. Select **ON** to require the password to the control panel or **OFF** to allow open access.

When the control panel lock is active, the product will prompt you to enter the passcode after 30 seconds of control panel inactivity or after turning on the product.

**Passcode**  After being prompted to enter the passcode:

Press **<UP>, <DOWN>, <UP>, <DOWN>, <ENTER>**

**DMX Personality**  This setting allows you to choose a particular DMX personality.

1. Go to the **PERSON** main level.
2. Select the desired personality (**PERSON1, PERSON2, PERSON3, PERSON4,** or **PERSON5**).

For the highest starting address you can select for each personality, see the DMX Values section. Verify that the starting addresses on the products do not overlap due to the new personality setting.

**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 as shown in DMX Personality.
2. Set the running mode:
   a. Go to the **STAND ALONE > RUN** main level.
   b. Select the **DMX 512** programming level.
3. Set the starting address:
   a. Go to **ADDRESS** main level.
   b. Select the starting address (**001~512**).

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

| DMX Mode | DMX Address | DMX Mode | DMX Address |
|----------|-------------|----------|-------------|
| PERSON1 | 503 | PERSON4 | 492 |
| PERSON2 | 492 | PERSON5 | 479 |
| PERSON3 | 505 | | |

**Loss of Signal Setting**

This setting controls how the product will respond when the DMX signal is lost.

1. Go to the **SETTINGS > PERFORM** level, and select **DMX ERROR**.
   a. Select **SAVE** to make the product use the last command used when the signal is lost.
   b. Select **BLACK** to turn off the all the LEDs when the signal is lost.

**Static Control**

The Static Color mode allows for permanent RGBW color mixing without a DMX controller.

1. Go to the **MANUAL > MANUAL**.
2. Select **DIMMER**.
   a. Set the intensity value (**000~255**).
3. Select **RED**, **GREEN**, **BLUE**, or **WHITE**.
   a. Select the color value (**000~255**).
   b. Repeat for the other colors.
4. Select **PAN** or **TILT**.
   a. Set the position value (**000~255**).
   b. Repeat for the other position.
5. Select **STROBE**.
   a. Set the frequency value (**000~255**).
6. Select **ZOOM**.
   a. Set the angle value (**000~255**).

**Auto/Custom Programs**

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

1. Go to **STAND ALONE > RUN**.
2. Select the desired auto (**AUTO1, AUTO2**), test (**TEST**), or custom program (**CUSTOM**).

You cannot edit any of the auto or test programs (AUTO1, AUTO2, or TEST).

**Edit Custom Programs**
This setting allows the programming of up to 49 steps in the **CUSTOM** running mode.

1. Go to **STAND ALONE > EDIT**.
2. Select **STEP**.
3. Set the program step (**01~49**).
    a. Select **PAN** or **TILT**.
        i. Set the position value (**000~255**).
        ii. Repeat for the other position
    b. Select **DIMMER**.
        i. Set the intensity value (**000~255**).
    c. Select **RED, GREEN, BLUE,** or **WHITE**.
        i. Select the color value (**000~255**).
        ii. Repeat for the other colors.
    d. Select **STROBE**.
        i. Set the frequency value (**000~255**).
    e. Select **ZOOM**.
        i. Set the angle value (**000~255**).
    f. Select **TIME**.
        i. Select the step duration (**000~255**).
    g. Repeat for the other steps
4. Select **USE**.
    a. Select **YES** to save the program or **NO** to discard.

**Master/Slave**
The Master/Slave mode allows a group of Q-Wash™ 419Z-LEDs (slave products) to simultaneously duplicate the output of another Q-Wash™ 419Z-LED (master product) without a DMX controller.

1. Set each of the slave products:
    a. Go to **STAND ALONE > RUN**.
    b. Select **SLAVE**.
2. Set the master product:
    a. Set the running mode to **DMX** (see DMX Control).
    b. Select an Auto, Custom, or Static program as explained in Auto/Custom Programs or Static Control.

· The master product is the one that runs a program whether in Auto, Custom, 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.

**Fixture Cloning**  The Q-Wash™ 419Z-LED gives you 3 ways in which to transfer the settings from 1 Q-Wash™ 419Z-LED to other Q-Wash™ 419Z-LED products when hooked up via DMX daisy chain configuration.

To transfer the **CUSTOM** program only:

1.  Go to **STAND ALONE > SEND**.
    a.  Select **YES** to send the program or **NO** to cancel.

To transfer the **CONTENT** program (display text) only:

2.  Go to **SERVICE > CONTENT > SEND**.
    a.  Select **YES** to send the program or **NO** to cancel.

To transfer all of the product's software settings:

3.  Go to **SETTINGS > SEND**.
    a.  Select **YES** to send the program or **NO** to cancel.

Do not upload the data from a Q-Wash™ 419Z-LED to a different product. The other product may become inoperative.

**Fan Control**  The Q-Wash™ 419Z-LED allows you to adjust the fan speed of the product to allow for quiet operation.

1.  Go to **SETTINGS > PERFORM > FANS**.
    a.  Select **SLOW, NORMAL, FAST,** or **AUTO**.

In AUTO mode, the product controls the speed of the fan to allow for the most efficient cooling while allowing maximum output. To prevent overheating, using any other fan speed may reduce product output.

**Pan/Tilt Speed**  1.  Select **SETTINGS > PERFORM > PT SPEED**.
    a.  Select **FAST** for fast movement or **SLOW** to use the normal speed.

**Reverse Pan Direction**  1.  Select **SETTINGS > PERFORM > PAN INVERT**.
    a.  Select **INVERT** to reverse the pan direction or **NORM** to use the normal pan direction.

**Reverse Tilt Direction**  1.  Select **SETTINGS > PERFORM > TILT INVERT**.
    a.  Select **INVERT** to reverse the tilt direction or **NORM** to use the normal tilt direction.

**Optics Speed**  1.  Select **SETTINGS > PERFORM > OPTICS SPEED**.
    a.  Select **FAST** for fast movement or **SLOW** to use the normal speed.

**Reverse Dimmer Direction**  1.  Select **SETTINGS > PERFORM > DIM INVERT**.
    a.  Select **INVERT** to reverse the dimmer direction or **NORM** to use the normal dimmer direction.

**Head Motion Black Out**  1.  Select **SETTINGS > PERFORM > BLACKOUT**.
    a.  Select **INSTANT** to black out the output when the head tilts or pans, or **DELAY** to keep the output on while the head moves.

**Color Settings**
The Color setting determines how the product generates the white color based on various RGB settings.

1. Go to the **SETTINGS > PERFORM** main level.
2. Select **COLOR**.
3. Select **OFF**, **RGBtoW**, or **UC**.

| | | |
|---|---|---|
| | **OFF:** | When all the RGB faders are set to **255**, the output is maximum, although the resulting white color may not be balanced. |
| | **RGBtoW:** | When all the RGB faders are set to **255**, the resulting output is defined by the configured White color (see White Calibration). |
| | **UC:** | When all the RGB faders are set to **255**, the output matches that of less efficient products (Universal Color). |

**Dimmer Curves**
This setting provides you with four options to simulate the dimming curve of an incandescent light product.

1. Go to the **SETTINGS > PERFORM** main level.
2. Select **DIMMER**.
3. Select the desired dimmer curve (**OFF**, **DIM1**, **DIM2**, **DIM3**, or **DIM4**).

| | | |
|---|---|---|
| | **OFF** | The output is proportional (linear) to the dimmer and RGBW channel values. |
| | **DIM1~4:** | The output follows the dimmer and RGBW channel values based on the corresponding dimmer curve, being DIM1 the fastest and DIM4 the slowest. |

**Dimmer Curve Settings**
This setting allows you to select the dimmer curve shape using the red, green, blue, white, and dimmer faders.

1. Go to the **SETTINGS > PERFORM** main level.
2. Select **CURV**.
3. Select the desired dimmer curve (**OFF**, **CURV1**, **CURV2**, or **CURV3**).

| | | |
|---|---|---|
| | **OFF** | This output is proportional (linear) to the Dimmer and RGBW channel values. |
| | **CV1~3** | This output follows the dimmer and RGBW channel values based on the corresponding dimmer curve, being CURV1 the fastest and CURV3 the slowest. |

For optimum control of the 16-bit dimming channels in the PERSON2 and PERSON5 personalities, be sure that both dimming curves in SETTINGS > PERFORM > DIMMER and SETTINGS > PERFORM > CURV are set to OFF

**Zoom Position Adjust**  This setting adjusts the position of the zoom lens outside the normal limits to allow for tighter beam adjustment at longer distances.

1. Select **SETTINGS > PERFORM > ZOOM POS.**
    a. Select **BOOST** to adjust the zoom lens for better focusing at longer distances or **NORMAL** to use the factory settings.

**Limit Pan/Tilt Range**
1. Select **SETTINGS > RANGE**.
2. To set the start and end points of the pan and tilt ranges:
    a. Select **P.START** and set the pan starting point between **000~255**.
    b. Select **P.END** and set the pan ending point between **000~255**.
    c. Select **T.START** and set the tilt starting point between **000~255**.
    d. Select **T.END** and set the tilt ending point between **000~255**.
3. Select **USE**.
    a. Select **YES** to activate the changes or **NO** to cancel.

**Offset Calibration**  This option allows you to calibrate the starting points of the Pan, Tilt, and Zoom motors.

1. Select **SERVICE > CALIB.M**.
    a. Select **PAN**.
        i. Set the position value (**000~255**).
    b. Select **TILT**.
        i. Set the position value (**000~255**).
    c. Select **ZOOM**.
        i. Set the position value (**000~255**).

**White Calibration**  This setting allows you to select and edit the temperature of the white colors used in channel 14 (Macros) when in the **PERSON2** mode.

1. Select **SERVICE > CALIB.C**.
2. Select **3200K, 3400K, 4200K, 4900K, 5600K, 5900K, 6500K, 7200K, 8000K, 8500K,** or **10000K**.
3. Select **RED, GREEN, BLUE,** or **WHITE**.
    a. Set the position value (**000~255**).
    b. Repeat for the other colors.
4. Repeat for other color temperatures.

**Calibrating the White Color**  This setting allows you to calibrate the white color when **SETTINGS > PERFORM > COLOR** is set to **RGBtoW** and the DMX controller's red, green, and blue faders are set to "255".

1. Select **SERVICE > CALIB.C**.
2. Select **RGBTOW**
3. Select **RED, GREEN,** or **BLUE**.
    a. Set the position value (**000~255**).
    b. Repeat for the other colors.

When selecting SERVICE > CALIB.C > RGBTOW, you will only be able to define the values of red, green, and blue.

The values of RED, GREEN, and BLUE configured from SERVICE > CALIB.C > RGBTOW will define the color temperature shown when the RGB faders are set to "255" if SETTINGS > PERFORM > COLOR > RGBtoW is active.

**Product Reset Control**   This option allows the product to be reset from the DMX controller or from the display only.

1. Select **SETTINGS > PERFORM > DMX RESET**.
   a. Select **DMX** to reset the product from a DMX controller or **DISPLAY** to reset the product from the control panel only.

**Reset**   The Q-Wash™ 419Z-LED gives you 3 different levels to reset the product.

To reset the Pan and Tilt motors only:
1. Go to **MANUAL > RESET > PT.RESET**.
   a. Select **YES** to reset or **NO** to exit.

To reset the Zoom motor only:
2. Go to **MANUAL > RESET > OPTIC RESET**.
   a. Select **YES** to reset or **NO** to exit.

To reset the all the motors:
3. Go to **MANUAL > RESET > ALL RESET**.
   a. Select **YES** to reset or **NO** to exit.

**Custom Program Reset**   This option allows you to reset only the custom programs back to the factory defaults.

1. Go to **SERVICE > ServiceRecovery**.
   a. Enter the Passcode as described in [Passcode](#).

**Reset to Factory Default**   This option allows you to reset all the product's settings to the factory defaults.

1. Go to **SETTINGS > DEFAULT**.
   a. Enter the Passcode as described in [Passcode](#).

**Software Version**   1. Go to **INFO > SOFTWARE**.

## Menu Map

| Main Level | Programming Levels | | | Description |
|---|---|---|---|---|
| ADDRESS | 000-512 | | | Sets the DMX starting address |
| PERSON | PERSON1 | | | 10-Channel mode |
| | PERSON2 | | | 21-Channel mode |
| | PERSON3 | | | 8-Channel mode |
| | PERSON4 | | | 21-Channel mode |
| | PERSON5 | | | 34-Channel mode |
| SETTINGS | PERFORM | FANS | SLOW | Selects the fan's operation mode. |
| | | | NORM | |
| | | | FAST | |
| | | | AUTO | |
| | | PT SPEED | FAST | Defines the speed of the pan/tilt |
| | | | SLOW | |
| | | PAN INVERT | NORM | Defines the direction of the pan fader |
| | | | INVERT | |
| | | TILT INVERT | NORM | Defines the direction of the tilt fader |
| | | | INVERT | |
| | | OPTICS SPEED | FAST | Defines the speed of the zoom |
| | | | SLOW | |
| | | BLACKOUT | DELAY | Activates the move-in black delay (3 sec) |
| | | | INSTANT | |
| | | DIMMER | DIM4 | Slow (**DIM4**) to fast (**DIM1**) dimmer curves |
| | | | DIM3 | |
| | | | DIM2 | |
| | | | DIM1 | |
| | | | OFF | Linear dimmer/no dimmer function |
| | | CURV | CURV3 | Slow (**CURV3**) to fast (**CURV1**) dimmer curves |
| | | | CURV2 | |
| | | | CURV1 | |
| | | | OFF | No dimmer |

## Menu Map (Cont.)

| Main Level | Programming Levels | | | Description |
|---|---|---|---|---|
| SETTINGS (cont.) | PERFORM (cont.) | DIM INVERT | NORM | Defines the direction of the dimmer fader |
| | | | INVERT | |
| | | COLOR | UC | Universal color balance |
| | | | RGBtoW | RGB set to "255" = balanced white |
| | | | OFF | RGB set to "255" = max. output |
| | | DMX ERROR | SAVE | Continues with last command upon loss of DMX control |
| | | | BLACK | Blacks out fixture upon loss of DMX signal |
| | | DMX RESET | DMX | The DMX controller resets the product |
| | | | DISPLAY | The control panel resets the product |
| | | DISPLAY ON | LONG | Determines how long the backlight of the display will stay on after last command button pressed |
| | | | SHORT | |
| | | | ALWAYS | |
| | | HOME SCREEN | DMX | Displays DMX address |
| | | | NAME | Displays what is programmed via **SERVICE > CONTENT** level |
| | | DISPLAY INVERT | NORM | Allows the display on the control panel to be inverted |
| | | | INVERT | |
| | | ZOOM POS. | NORMAL | Zoom lens is set to factory default |
| | | | BOOST | Sets the zoom lens to perform better at longer distances |
| | RANGE | P.START | 000~255 | Sets the pan start point (pan range) |
| | | P.END | | Sets the pan end point (pan range) |
| | | T.START | | Sets the tilt start point (tilt range) |
| | | T.END | | Sets the tilt end point (tilt range) |
| | | USE | NO | Activates the changes |
| | | | YES | |
| | DISPLAY LOCK | OFF | | Activates/deactivates the main level password |
| | | ON | | |
| | DEFAULT | **** (Enter Passcode) | | Resets fixture to factory default settings |
| | SEND | NO | | Sends **ALL** settings of the 1st product to all other Q-Wash™ 419Z-LEDs connected to the DMX output |
| | | YES | | |

## Menu Map (Cont.)

| Main Level | Programming Levels | | | Description |
|---|---|---|---|---|
| STAND ALONE | RUN | | DMX 512 | Selects DMX running mode |
| | | | AUTO1 | Selects the first automatic program |
| | | | AUTO2 | Selects the second automatic program |
| | | | CUSTOM | Selects a user customizable program |
| | | | TEST | Starts the product's test sequence |
| | | | SLAVE | Selects the Slave running mode |
| | EDIT | STEP | 01~49 | Selects the program step |
| | | PAN | 000~255 | Selects the pan position |
| | | TILT | | Selects the tilt position |
| | | RED | | Combines red, green, blue, and white to obtain a custom color |
| | | GREEN | | |
| | | BLUE | | |
| | | WHITE | | |
| | | DIMMER | | Selects the dimmer value |
| | | STROBE | | Selects the strobe frequency |
| | | ZOOM | | Select the zoom position |
| | | TIME | | Selects the step duration |
| | | USE | NO | Activates the changes |
| | | | YES | |
| | SEND | NO | | Sends **CUSTOM** settings of the 1st product to all other Q-Wash™ 419Z-LEDs connected to the DMX output |
| | | YES | | |
| INFO | SOFTWARE | | V.X.X | Shows version of software installed |
| MANUAL | RESET | ALL RESET | NO | Resets fixture to home settings |
| | | | YES | |
| | | PT.RESET | NO | Resets the Pan/Tilt to home settings |
| | | | YES | |
| | | OPTIC RESET | NO | Resets the Zoom to home settings |
| | | | YES | |

## Menu Map (Cont.)

| Main Level | Programming Levels | | | | Description |
|---|---|---|---|---|---|
| MANUAL (cont.) | MANUAL | PAN | | 000~255 | Allows manual control of all settings from control panel |
| | | TILT | | | |
| | | RED | | | |
| | | GREEN | | | |
| | | BLUE | | | |
| | | WHITE | | | |
| | | DIMMER | | | |
| | | STROBE | | | |
| | | ZOOM | | | |
| SERVICE | CALIB.M | PAN | | 000~255 | Calibrates the start position of the motors |
| | | TILT | | | |
| | | ZOOM | | | |
| | CALIB.C | 3200K | RED | 000~255 | Sets color temperature for **White 1** |
| | | | GREEN | | |
| | | | BLUE | | |
| | | | WHITE | | |
| | | 3400K | RED | | Sets color temperature for **White 2** |
| | | | GREEN | | |
| | | | BLUE | | |
| | | | WHITE | | |
| | | 4200K | RED | | Sets color temperature for **White 3** |
| | | | GREEN | | |
| | | | BLUE | | |
| | | | WHITE | | |
| | | 4900K | RED | | Sets color temperature for **White 4** |
| | | | GREEN | | |
| | | | BLUE | | |
| | | | WHITE | | |
| | | 5600K | RED | | Sets color temperature for **White 5** |
| | | | GREEN | | |
| | | | BLUE | | |
| | | | WHITE | | |
| | | 5900K | RED | | Sets color temperature for **White 6** |
| | | | GREEN | | |
| | | | BLUE | | |
| | | | WHITE | | |

## Menu Map (Cont.)

| Main Level | Programming Levels | | | Description |
|---|---|---|---|---|
| SERVICE (cont.) | CALIB.C (cont.) | 6500K | RED | Sets color temperature for **White 7** |
| | | | GREEN | |
| | | | BLUE | |
| | | | WHITE | |
| | | 7200K | RED | Sets color temperature for **White 8** |
| | | | GREEN | |
| | | | BLUE | |
| | | | WHITE | |
| | | 8000K | RED | Sets color temperature for **White 9** |
| | | | GREEN | |
| | | | BLUE | |
| | | | WHITE | 000~255 |
| | | 8500K | RED | Sets color temperature for **White 10** |
| | | | GREEN | |
| | | | BLUE | |
| | | | WHITE | |
| | | 10000K | RED | Sets color temperature for **White 11** |
| | | | GREEN | |
| | | | BLUE | |
| | | | WHITE | |
| | | RGBTOW | RED | Defines the color temperature used when **COLOR** is set to **RGBtoW** |
| | | | GREEN | |
| | | | BLUE | |
| | ACCESS | SETTINGS LOCK | OFF | Activates/deactivates the **SETTINGS** main level passcode |
| | | | ON | |
| | | SERVICE LOCK | OFF | Activates/deactivates the **SERVICE** main level passcode |
| | | | ON | |
| | CONTENT | DISPLAY1 | ********* | Allows 16 characters of text to be displayed on control panel |
| | | DISPLAY2 | ********* | |
| | | SEND | NO | Sends **CONTENT** settings of the 1st product to all other Q-Wash™ 419Z-LEDs connected to the DMX output |
| | | | YES | |
| | Service Recovery | **** (Enter Passcode) | | Resets all custom modes to default values |

# DMX Values

**PERSON1**

| Channel | Function | Value | Percent/Setting |
|---|---|---|---|
| 1 | Pan | 000 ❺ 255 | 0~100% |
| 2 | Tilt | 000 ❺ 255 | 0~100% |
| 3 | Red | 000 ❺ 255 | 0~100% |
| 4 | Green | 000 ❺ 255 | 0~100% |
| 5 | Blue | 000 ❺ 255 | 0~100% |
| 6 | White | 000 ❺ 255 | 0~100% |
| 7 | Dimmer | 000 ❺ 255 | 0~100% |
| 8 | Strobe | 000 ❺ 009<br>010 ❺ 255 | No Function<br>0~100% |
| 9 | Zoom | 000 ❺ 255 | 0~100% |
| 10 | Control | 000 ❺ 019<br>020 ❺ 039<br>040 ❺ 059<br>060 ❺ 079<br>080 ❺ 099<br>100 ❺ 119<br>120 ❺ 139<br>140 ❺ 149<br>150 ❺ 159<br>160 ❺ 169<br>170 ❺ 179<br>180 ❺ 199<br>200 ❺ 219<br>220 ❺ 235<br>236 ❺ 239<br>240 ❺ 243<br>244 ❺ 247<br>248 ❺ 251<br>252 ❺ 255 | No Function<br>Pan/tilt black activation<br>Pan/tilt black deactivation<br>Automatic fan speed<br>Slow fan speed<br>Normal fan speed<br>High fan speed<br>Auto program 1 (3 s activation delay)<br>Auto program 2 (3 s activation delay)<br>Test (3 s activation delay)<br>Custom program (3 s activation delay)<br>No Function<br>Reset (3 s activation delay)<br>No Function<br>DIM0 (3 s activation delay)<br>DIM1 (3 s activation delay)<br>DIM2 (3 s activation delay)<br>DIM3 (3 s activation delay)<br>DIM4 (3 s activation delay) |

## DMX Values (Cont.)

| PERSON2 | Channel | Function | Value | Percent/Setting |
|---|---|---|---|---|
| | 1 | Pan | 000 ⟷ 255 | 0~100% |
| | 2 | Pan Fine | 000 ⟷ 255 | 0~100% |
| | 3 | Tilt | 000 ⟷ 255 | 0~100% |
| | 4 | Tilt Fine | 000 ⟷ 255 | 0~100% |
| | 5 | Pan/Tilt Speed | 000 ⟷ 255 | 0~100% |
| | 6 | Red | 000 ⟷ 255 | 0~100% |
| | 7 | Red Fine | 000 ⟷ 255 | 0~100% |
| | 8 | Green | 000 ⟷ 255 | 0~100% |
| | 9 | Green Fine | 000 ⟷ 255 | 0~100% |
| | 10 | Blue | 000 ⟷ 255 | 0~100% |
| | 11 | Blue Fine | 000 ⟷ 255 | 0~100% |
| | 12 | White | 000 ⟷ 255 | 0~100% |
| | 13 | White Fine | 000 ⟷ 255 | 0~100% |
| | 14 | Color/White Macro | 000 ⟷ 010 | No Function |
| | | | 011 ⟷ 030 | R: 100% G: 0~100%      B: 0 |
| | | | 031 ⟷ 050 | R: 100%~0      G: 100% B: 0 |
| | | | 051 ⟷ 070 | R: 0      G: 100% B: 0~100% |
| | | | 071 ⟷ 090 | R: 0      G: 100%~0      B: 100% |
| | | | 091 ⟷ 110 | R: 0~100%      G: 0      B: 100% |
| | | | 111 ⟷ 130 | R: 100% G: 0      B: 100%~0 |
| | | | 131 ⟷ 150 | R: 100% G: 0~100%      B: 0~100% |
| | | | 151 ⟷ 170 | R: 100%~0      G: 100%~0      B: 100% |
| | | | 171 ⟷ 200 | R: 100% G: 100% B: 100%      W:100% |
| | | | 201 ⟷ 205 | White 1 |
| | | | 206 ⟷ 210 | White 2 |
| | | | 211 ⟷ 215 | White 3 |
| | | | 216 ⟷ 220 | White 4 |
| | | | 221 ⟷ 225 | White 5 |
| | | | 226 ⟷ 230 | White 6 |
| | | | 231 ⟷ 235 | White 7 |
| | | | 236 ⟷ 240 | White 8 |
| | | | 241 ⟷ 245 | White 9 |
| | | | 246 ⟷ 250 | White 10 |
| | | | 251 ⟷ 255 | White 11 |

## DMX Values (Cont.)

| | Channel | Function | Value | Percent/Setting |
|---|---|---|---|---|
| **PERSON2 (cont.)** | 15 | Auto Rings | 000 ⟷ 009 | No Function |
| | | | 010 ⟷ 019 | Static Ring 1 |
| | | | 020 ⟷ 029 | Static Ring 2 |
| | | | 030 ⟷ 039 | Static Ring 3 |
| | | | 040 ⟷ 049 | Ring Effect 1 |
| | | | 050 ⟷ 059 | Ring Effect 2 |
| | | | 060 ⟷ 069 | Ring Effect 3 |
| | | | 070 ⟷ 079 | Ring Effect 4 |
| | | | 080 ⟷ 089 | Ring Effect 5 |
| | | | 090 ⟷ 099 | Ring Effect 6 |
| | | | 100 ⟷ 109 | Ring Effect 7 |
| | | | 110 ⟷ 119 | Ring Effect 8 |
| | | | 120 ⟷ 129 | Ring Effect 9 |
| | | | 130 ⟷ 139 | Ring Effect 10 |
| | | | 140 ⟷ 149 | Ring Effect 11 |
| | | | 150 ⟷ 159 | Ring Effect 12 |
| | | | 160 ⟷ 169 | Ring Effect 13 |
| | | | 170 ⟷ 179 | Ring Effect 14 |
| | | | 180 ⟷ 189 | Static Ring 4 |
| | | | 190 ⟷ 199 | Static Ring 5 |
| | | | 200 ⟷ 209 | Static Ring 6 |
| | | | 210 ⟷ 219 | Static Ring 7 |
| | | | 220 ⟷ 229 | Static Ring 8 |
| | | | 230 ⟷ 239 | Static Ring 9 |
| | | | 240 ⟷ 249 | Static Ring 10 |
| | | | 250 ⟷ 255 | RGBW: 100% |
| | 16 | Auto Speed | 000 ⟷ 255 | 0~100% |
| | 17 | Dimmer | 000 ⟷ 255 | 0~100% |
| | 18 | Dimmer Fine | 000 ⟷ 255 | 0~100% |
| | 19 | Strobe | 000 ⟷ 009 | No Function |
| | | | 010 ⟷ 255 | 00~20 Hz |
| | 20 | Zoom | 000 ⟷ 255 | 0~100% |
| | 21 | Control | 000 ⟷ 019 | No Function |
| | | | 020 ⟷ 039 | Pan/tilt black activation |
| | | | 040 ⟷ 059 | Pan/tilt black deactivation |
| | | | 060 ⟷ 079 | Automatic fan speed |
| | | | 080 ⟷ 099 | Slow fan speed |
| | | | 100 ⟷ 119 | Normal fan speed |
| | | | 120 ⟷ 139 | High fan speed |
| | | | 140 ⟷ 149 | Auto program 1 (3 s activation delay) |
| | | | 150 ⟷ 159 | Auto program 2 (3 s activation delay) |
| | | | 160 ⟷ 169 | Test (3 s activation delay) |
| | | | 170 ⟷ 179 | Custom program (3 s activation delay) |
| | | | 180 ⟷ 199 | No Function |
| | | | 200 ⟷ 219 | Reset (3 s activation delay) |
| | | | 220 ⟷ 235 | No Function |
| | | | 236 ⟷ 239 | DIM0 (3 s activation delay) |
| | | | 240 ⟷ 243 | DIM1 (3 s activation delay) |
| | | | 244 ⟷ 247 | DIM2 (3 s activation delay) |
| | | | 248 ⟷ 251 | DIM3 (3 s activation delay) |
| | | | 252 ⟷ 255 | DIM4 (3 s activation delay) |

## DMX Values (Cont.)

**PERSON3**

| Channel | Function | Value | Percent/Setting |
|---|---|---|---|
| 1 | Pan | 000 ➔ 255 | 0~100% |
| 2 | Tilt | 000 ➔ 255 | 0~100% |
| 3 | Hue | 000 ➔ 255 | 0~100% |
| 4 | Saturation | 000 ➔ 255 | 0~100% |
| 5 | Value | 000 ➔ 255 | 0~100% |
| 6 | Strobe | 000 ➔ 009<br>010 ➔ 255 | No Function<br>00~20 Hz |
| 7 | Zoom | 000 ➔ 255 | 0~100% |
| 8 | Control | 000 ➔ 019<br>020 ➔ 039<br>040 ➔ 059<br>060 ➔ 079<br>080 ➔ 099<br>100 ➔ 119<br>120 ➔ 139<br>140 ➔ 149<br>150 ➔ 159<br>160 ➔ 169<br>170 ➔ 179<br>180 ➔ 199<br>200 ➔ 219<br>220 ➔ 235<br>236 ➔ 239<br>240 ➔ 243<br>244 ➔ 247<br>248 ➔ 251<br>252 ➔ 255 | No Function<br>Pan/tilt black activation<br>Pan/tilt black deactivation<br>Automatic fan speed<br>Slow fan speed<br>Normal fan speed<br>High fan speed<br>Auto program 1 (3 s activation delay)<br>Auto program 2 (3 s activation delay)<br>Test (3 s activation delay)<br>Custom program (3 s activation delay)<br>No Function<br>Reset (3 s activation delay)<br>No Function<br>DIM0 (3 s activation delay)<br>DIM1 (3 s activation delay)<br>DIM2 (3 s activation delay)<br>DIM3 (3 s activation delay)<br>DIM4 (3 s activation delay) |

## DMX Values (Cont.)

**PERSON4**

| Channel | Function | Value | Percent/Setting |
|---------|----------|-------|-----------------|
| 1 | Pan | 000 ó 255 | 0~100% |
| 2 | Pan Fine | 000 ó 255 | 0~100% |
| 3 | Tilt | 000 ó 255 | 0~100% |
| 4 | Tilt Fine | 000 ó 255 | 0~100% |
| 5 | Pan/Tilt Speed | 000 ó 255 | 0~100% |
| 6 | Dimmer | 000 ó 255 | 0~100% |
| 7 | Strobe | 000 ó 009<br>010 ó 255 | No Function<br>00~20 Hz |
| 8 | Zoom | 000 ó 255 | 0~100% |
| 9 | Control | 000 ó 019<br>020 ó 039<br>040 ó 059<br>060 ó 079<br>080 ó 099<br>100 ó 119<br>120 ó 139<br>140 ó 149<br>150 ó 159<br>160 ó 169<br>170 ó 179<br>180 ó 199<br>200 ó 219<br>220 ó 235<br>236 ó 239<br>240 ó 243<br>244 ó 247<br>248 ó 251<br>252 ó 255 | No Function<br>Pan/tilt black activation<br>Pan/tilt black deactivation<br>Automatic fan speed<br>Slow fan speed<br>Normal fan speed<br>High fan speed<br>Auto program 1 (3 s activation delay)<br>Auto program 2 (3 s activation delay)<br>Test (3 s activation delay)<br>Custom program (3 s activation delay)<br>No Function<br>Reset (3 s activation delay)<br>No Function<br>DIM0 (3 s activation delay)<br>DIM1 (3 s activation delay)<br>DIM2 (3 s activation delay)<br>DIM3 (3 s activation delay)<br>DIM4 (3 s activation delay) |
| 10 | Red 1 | 000 ó 255 | 0~100% |
| 11 | Green 1 | 000 ó 255 | 0~100% |
| 12 | Blue 1 | 000 ó 255 | 0~100% |
| 13 | White 1 | 000 ó 255 | 0~100% |
| 14 | Red 2 | 000 ó 255 | 0~100% |
| 15 | Green 2 | 000 ó 255 | 0~100% |
| 16 | Blue 2 | 000 ó 255 | 0~100% |
| 17 | White 2 | 000 ó 255 | 0~100% |
| 18 | Red 3 | 000 ó 255 | 0~100% |
| 19 | Green 3 | 000 ó 255 | 0~100% |
| 20 | Blue 3 | 000 ó 255 | 0~100% |
| 21 | White 3 | 000 ó 255 | 0~100% |

## DMX Values (Cont.)

**PERSON5**

| Channel | Function | Value | Percent/Setting |
|---|---|---|---|
| 1 | Pan | 000 ó 255 | 0~100% |
| 2 | Pan Fine | 000 ó 255 | 0~100% |
| 3 | Tilt | 000 ó 255 | 0~100% |
| 4 | Tilt Fine | 000 ó 255 | 0~100% |
| 5 | Pan/Tilt Speed | 000 ó 255 | 0~100% |
| 6 | Dimmer | 000 ó 255 | 0~100% |
| 7 | Dimmer Fine | 000 ó 255 | 0~100% |
| 8 | Strobe | 000 ó 009<br>010 ó 255 | No Function<br>00~20 Hz |
| 9 | Zoom | 000 ó 255 | 0~100% |
| 10 | Control | 000 ó 019<br>020 ó 039<br>040 ó 059<br>060 ó 079<br>080 ó 099<br>100 ó 119<br>120 ó 139<br>140 ó 149<br>150 ó 159<br>160 ó 169<br>170 ó 179<br>180 ó 199<br>200 ó 219<br>220 ó 235<br>236 ó 239<br>240 ó 243<br>244 ó 247<br>248 ó 251<br>252 ó 255 | No Function<br>Pan/tilt black activation<br>Pan/tilt black deactivation<br>Automatic fan speed<br>Slow fan speed<br>Normal fan speed<br>High fan speed<br>Auto program 1 (3 s activation delay)<br>Auto program 2 (3 s activation delay)<br>Test (3 s activation delay)<br>Custom program (3 s activation delay)<br>No Function<br>Reset (3 s activation delay)<br>No Function<br>DIM0 (3 s activation delay)<br>DIM1 (3 s activation delay)<br>DIM2 (3 s activation delay)<br>DIM3 (3 s activation delay)<br>DIM4 (3 s activation delay) |
| 11 | Red 1 | 000 ó 255 | 0~100% |
| 12 | Red 1 Fine | 000 ó 255 | 0~100% |
| 13 | Green 1 | 000 ó 255 | 0~100% |
| 14 | Green 1 Fine | 000 ó 255 | 0~100% |
| 15 | Blue 1 | 000 ó 255 | 0~100% |
| 16 | Blue 1 Fine | 000 ó 255 | 0~100% |
| 17 | White 1 | 000 ó 255 | 0~100% |
| 18 | White 1 Fine | 000 ó 255 | 0~100% |

## DMX Values (Cont.)

| | Channel | Function | Value | Percent/Setting |
|---|---|---|---|---|
| **PERSON5 (cont.)** | 19 | Red 2 | 000 ⬧ 255 | 0~100% |
| | 20 | Red 2 Fine | 000 ⬧ 255 | 0~100% |
| | 21 | Green 2 | 000 ⬧ 255 | 0~100% |
| | 22 | Green 2 Fine | 000 ⬧ 255 | 0~100% |
| | 23 | Blue 2 | 000 ⬧ 255 | 0~100% |
| | 24 | Blue 2 Fine | 000 ⬧ 255 | 0~100% |
| | 25 | White 2 | 000 ⬧ 255 | 0~100% |
| | 26 | White 2 Fine | 000 ⬧ 255 | 0~100% |
| | 27 | Red 3 | 000 ⬧ 255 | 0~100% |
| | 28 | Red 3 Fine | 000 ⬧ 255 | 0~100% |
| | 29 | Green 3 | 000 ⬧ 255 | 0~100% |
| | 30 | Green 3 Fine | 000 ⬧ 255 | 0~100% |
| | 31 | Blue 3 | 000 ⬧ 255 | 0~100% |
| | 32 | Blue 3 Fine | 000 ⬧ 255 | 0~100% |
| | 33 | White 3 | 000 ⬧ 255 | 0~100% |
| | 34 | White 3 Fine | 000 ⬧ 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 is at room temperature.
- 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 |
|---|---|---|---|---|
| | 11.6 in (297 mm) | 10.6 in (270 mm) | 14.5 in (369 mm) | 22 lb (10 kg) |

**Note:** Dimensions in inches rounded to the nearest decimal digit.

| Power | 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 | 322 W | 304 W |
| | Operating | 2.64 A | 1.4 A |
| | Fuse | 6.3 A, 250 V | 6.3 A, 250 V |
| | Power Linking | 5 products | 9 products |

| | 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 | 15 W | 50,000 hours |

| | Color | Quantity | Current |
|---|---|---|---|
| | quad-color RGBW | 19 | 1 A |

| Photometric | Parameter | Narrow | Wide |
|---|---|---|---|
| | Illuminance @ 5 m | 9,130 lx | 645 lx |
| | Beam angle | 7º | 30º |
| | Field angle | 12.5º | 45º |

| 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 | 8,10,21,21,34 |

| Ordering | Product Name | Item Code | UPC Number |
|---|---|---|---|
| | Q-Wash™ 419Z-LED | 01010722 | 781462210700 |

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

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