COLORADO 3-QUAD ZOOM

User Manual

Model ID: COLORADO3QZL

Edition Notes

The COLORado 3 Quad Zoom User Manual includes a description, safety precautions, installation, programming, operation, and maintenance instructions for the COLORado 3 Quad Zoom as of the release date of this edition.

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Document Printing

For best 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 the printer to scale the content accordingly.

Intended Audience

Any person installing, operating, and/or maintaining this product should completely read through the guide that shipped with the product, as well as this manual, before installing, operating, or maintaining this product.

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Document Revision

Go to www.chauvetprofessional.com for the latest version.

Revision	Date	Description
2	07/2025	Updated Model ID

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1. Before You Begin

What Is Included

- COLORado 3 Quad Zoom
- Seetronic Powerkon IP65 power cable
- Omega bracket
- Gel frame
- Quick Reference Guide

Claims

Carefully unpack the product immediately and check the container 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 a 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.

Text Conventions

Convention	Meaning
1–512	A range of values
50/60	A set of values of which only one can be chosen
Settings	A menu option not to be modified
<ENTER>	A key to be pressed on the product's control panel

Symbols

Symbol	Meaning
⚡	Electrical warning. Not following these instructions may cause electrical damage to the product, accessories, or the user.
⚠	Critical installation, configuration, or operation information. Not following these instructions may make the product not work, cause damage to the product, or cause harm to the operator.
ⓘ	Important installation or configuration information. The product may not function correctly if this information is not used.
📝	Useful information.

⚠ **Any reference to data or power connections in this manual assumes the use of Seetronic IP-rated cables.**

📝 **The term "DMX" used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.**
Connection of the control signal: DMX line
- **The product has XLR sockets for DMX input and output.**
- **Notice: This control circuit is isolated and belongs to the Class 2 data port.**
The control circuit has a cumulative leakage current of less than 3.5 mA.

Safety Notes

Read all the following safety notes before working with this product. These notes contain 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, certified technicians. Do not open the housing or attempt any repairs.**

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

- The luminaire is intended for professional use only.
- The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 1.64 ft (0.5 m) is not expected.
- If the external flexible cable or cord of this luminaire is damaged, it shall be replaced by a special cord or cord exclusively available from the manufacturer or its service agent.
- The light source contained in this luminaire shall only be replaced by the manufacturer or its service agent or a similar qualified person.
- **CAUTION:**
  - This product's housing may be hot when operating. Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
  - When transferring the 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 the product to fully acclimate to the surrounding environment before connecting it to power.
  - Flashing light is known to trigger epileptic seizures. User must comply with local laws regarding notification of strobe use.
- **ALWAYS:**
  - Disconnect from power before cleaning the product or replacing the fuse.
  - When using an IP65-rated product in an outdoor environment, use IP65- (or higher) rated power and data cable.
  - Replace and secure IP-rated protective covers to all power, data, USB, or other ports when not in use.
  - Replace the fuse with the same type and rating.
  - Use a safety cable when mounting this product overhead.
  - Connect this product to a grounded and protected circuit.
- **DO NOT:**
  - Open this product. It contains no user-serviceable parts.
  - Look at the light source when the product is on.
  - Leave any flammable material within 0.5 m of this product while operating or connected to power.
  - Connect this product to a dimmer or rheostat.
  - Operate this product if the housing, lenses, or cables appear damaged.
  - Submerge this product (adhere to standards for the published IP rating). Regular outdoor operation is fine.
  - Permanently install outdoors in locations with extreme environmental conditions. This includes, but is not limited to:
    - Exposure to a marine/saline environment (within 3 miles of a saltwater body of water).
    - Locations where normal temperatures exceed the temperature ranges in this manual.
    - Locations that are prone to flooding or being buried in snow.
    - Other areas where the product will be subject to extreme radiation or caustic substances.
- ONLY use the hanging/mounting bracket to carry this product.
- The maximum ambient temperature is 122 °F (50 °C). Do not operate this product at higher temperatures.
- The minimum ambient temperature is -4°F (-20°C). Do not operate the product at lower temperatures.
- 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.
- In the event of a serious operating problem, stop using immediately.

FCC Statement of Compliance

This device complies with Part 15 Part B of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Expected LED Lifespan

Over time, use and heat will gradually reduce LED brightness. Clustered LEDs produce more heat than single LEDs, contributing to shorter lifespans if always used at full intensity. The average LED lifespan is 40,000 to 50,000 hours. To extend LED lifespan, maintain proper ventilation around the product, and limit the overall intensity.

2. Introduction

Features

- High-performance RGBL LED zoom wash for indoor and outdoor touring, rental, or production
- High-power, with smooth and even color mixing
- 3.9° to 52.6° smooth and fast zoom
- All-environment operation with IP-rated power and DMX connections
- Easy mounting using traditional clamps, quick-connecting omega bracket, or split yoke floor stand
- Selectable, smooth dimming curves for programming versatility
- OLED display with backlit buttons, including focus mode and password protection

Product Overview
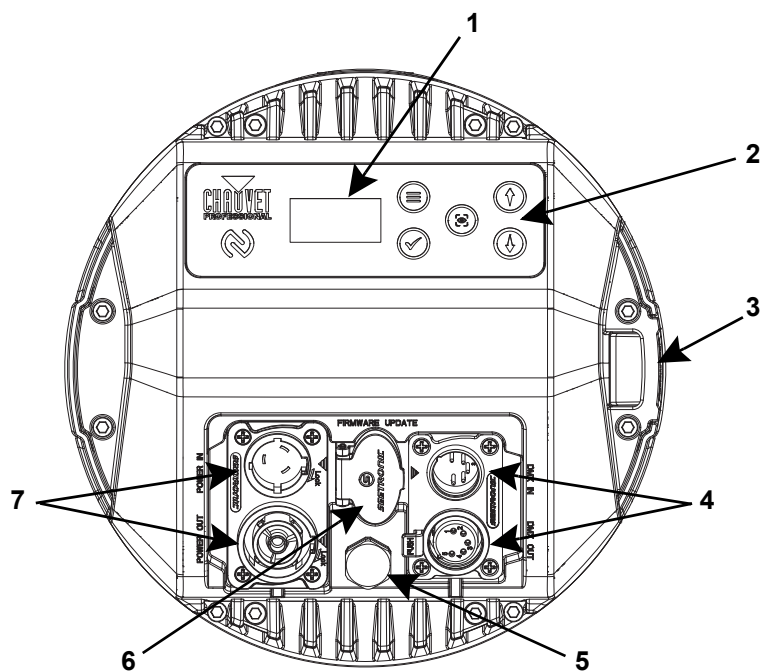
#	Name
1	OLED display
2	Menu buttons
3	Safety pass-through
4	5-pin DMX in/out
5	GORE valve
6	USB-C port
7	Power in/out
8	Gel frame holder
9	Yoke adjustment knob
10	Split yoke

Product Dimensions

16.34 in
415 mm

10.94 in
278 mm

8.30 in
210.84 mm
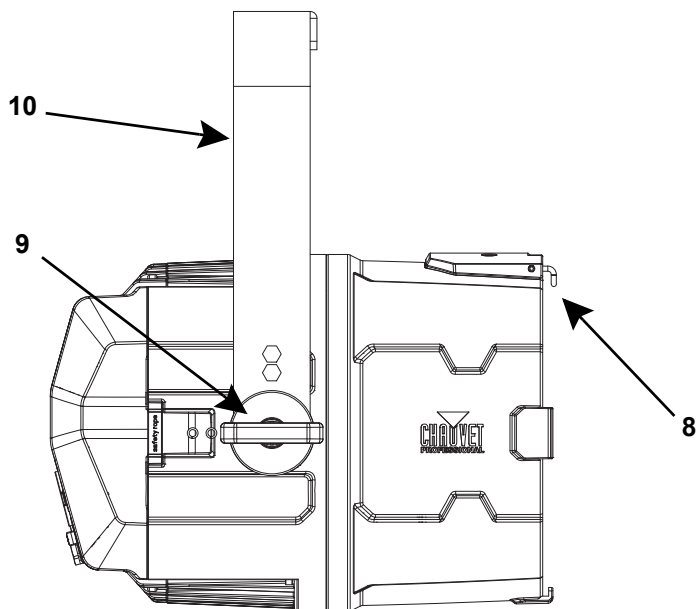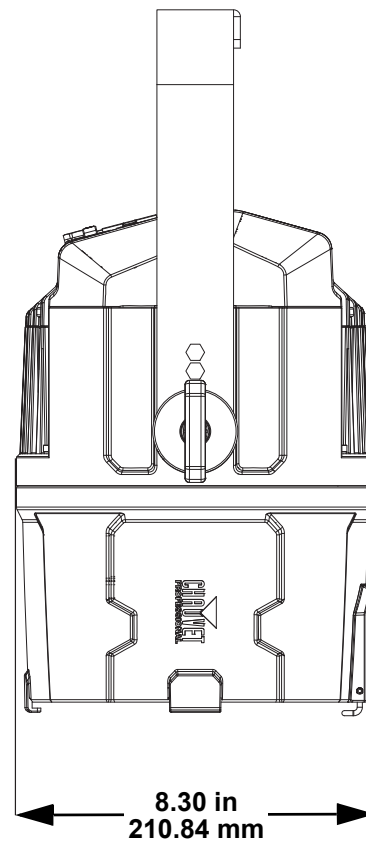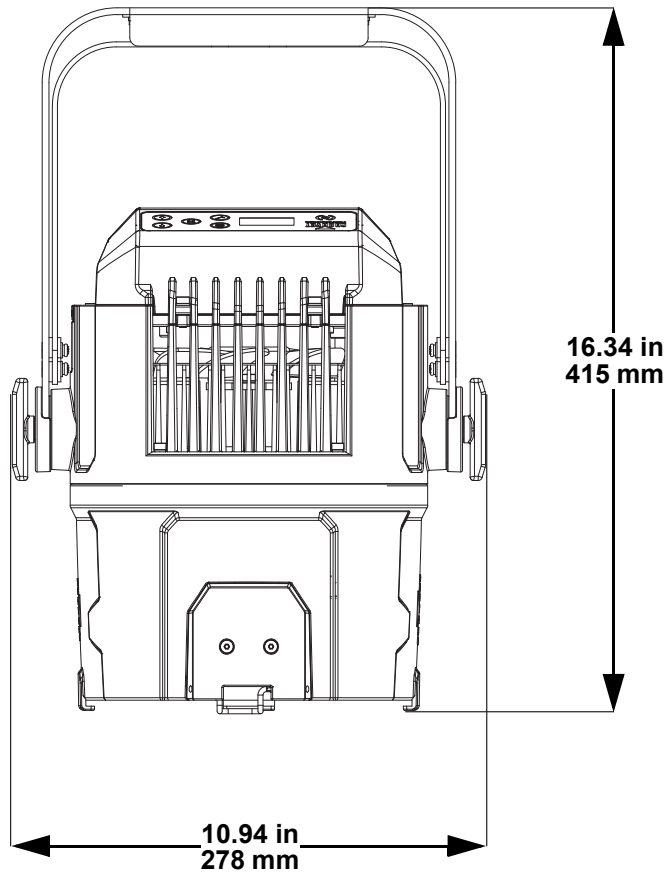
3. Setup

AC Power

The COLORado 3 Quad Zoom has an auto-ranging power supply and it can work with an input voltage range of 100 to 240 VAC, 50/60 Hz.

To determine the product's power requirements (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or refer to the product's specifications chart. The listed current rating indicates the product's average current draw under normal conditions.

⚠ • **Always connect the product to a protected circuit (a circuit breaker or fuse). Ensure the product has 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 the 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 COLORado 3 Quad Zoom comes with a power input cable terminated with a Seetronic Powerkon A connector on one end and an Edison plug on the other end (U.S. market). If the power cable which came with the product has no plug, or if it is necessary to change the plug, use the table below to wire a 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

It is possible to power link COLORado 3 Quad Zoom products. See the table below for the current draw at each voltage and frequency:

	100 V, 60 Hz	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz	240 V, 50 Hz
Current Draw	2.60 A	2.17 A	1.28 A	1.20 A	1.14 A

Never exceed 12 A on a single circuit. Power-linking cables can be purchased separately.

DMX Linking

The COLORado 3 Quad Zoom can be linked to a DMX controller using a 5-pin DMX connection. If using other DMX-compatible products with this product, it's possible to control each individually with a single DMX controller.

DMX Personalities

The COLORado 3 Quad Zoom uses a 5-pin DMX data connection for its 9 DMX personalities: 1 Ch, 5 Ch1, 5 Ch2, 7 Ch, 11 Ch, 12 Ch, 13 Ch, 16 Ch, or HSV.

- Refer to the Operation chapter to learn how to configure the COLORado 3 Quad Zoom to work in these personalities.
- The Control Channel Assignments and Values section provides detailed information regarding the DMX personalities.

📝 **For 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.chauvetprofessional.com.**

Remote Device Management

Remote Device Management, or RDM, is a standard for allowing DMX-enabled devices to communicate bi-directionally along existing DMX cabling. Check the DMX controller's User Manual or with the manufacturer as not all DMX controllers have this capability. The COLORado 3 Quad Zoom supports RDM protocol that allows feedback to make changes to menu map options.

Master/Slave Connectivity

The Master/Slave mode allows an COLORado 3 Quad Zoom (the master) to control one or more COLORado 3 Quad Zoom products (the slaves) without a DMX controller. One COLORado 3 Quad Zoom becomes the master when running an auto program or in Static mode.Each slave's control panel must be configured to operate in Slave mode. During Master/Slave operation, the slaves will operate in unison with the master

USB Software Update

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.

- **The Operation section of this manual provides detailed instructions on how to configure the master and slaves.**
- **For more information about DMX standards or the DMX cables needed to link this product to a DMX controller, download the DMX primer from the Chauvet website: www.chauvetprofessional.com.**

The COLORado 3 Quad Zoom allows for software updates with a USB device using the built-in USB-C port. To update the software using a USB flash drive:

1. Power on the product, and plug the flash drive into the USB-C port.
2. Locate "**Upgrade Firmware**" on the product's display menu and press **<ENTER>**. Select from **Only This Unit**, **Multiple Fixture**, **Other Fixture Type**, or **Fixture to Fixture** and press **<ENTER>**. A list of the updated software files will be displayed.
3. Select the file to be uploaded and press **<ENTER>**.

If the selected file is incorrect, the upgrade will fail and the display will go back to the main interface. Repeat steps 1–3 using the correct file.

4. If the selected file is correct, the upgrade will start. DO NOT turn off the power or disconnect the USB during the process. USB update can take several minutes to complete.
5. When the update is completed, the fixture will automatically reboot.
6. Go to Fixture Information on the product's menu map and confirm the firmware revision.
7. When the boot-up process is finished, restart the product.

- Place the .chl file in the root directory of the USB drive.
- The product's USB port supports up to 32GB capacity and only works with FAT32 file format.

Turning off the power, removing the USB, or not setting the fixture to the correct protocol during the update can cause partial or total firmware failure in the targeted fixture(s). Please refer to Force Upload section to fix firmware failure issues.

Force Upload

A Force Upload is done whenever a software update fails due to accidental removal of the USB flash drive, incorrect control protocol, or loss of power during a regular software update process.

- **A Force Upload process requires a target fixture (the fixture that needs a Force Upload and a main fixture (the fixture that controls the upload process).**
- **The Force Upload process can only be done one target fixture at a time.**

To do a Force Upload, follow the instructions below:

1. Link the target fixture to the main fixture via a DMX 5-pin connection. Ensure that the target fixture is turned off.
2. Turn on the main fixture.
3. Plug the flash drive into the USB-C port of the main fixture.
4. Go to Upgrade Firmware on the menu map.
5. Choose between **Multiple Fixture** and **Other Fixture Type**. Press **<ENTER>**.
   - **Multiple Fixture:** Both the target fixture and main fixture are from the same product line (e.g., 2 COLORado 3 Quad Zoom fixtures).
   - **Other Fixture Type:** The target fixture and main fixture are from different product series (e.g., a COLORado 3 Quad Zoom as the target fixture and a Maverick Silens 2 Profile as the main fixture).
6. Select the file that needs to be uploaded. The message "**Are you sure?**" will appear on the screen. Press **<ENTER>**. Turn on the target fixture within 1–2 seconds of pressing **<ENTER>**. The display on the target fixture should remain off.
   a. The main fixture will show the update progress (0–100%).
   b. The target fixture's display will turn on, and a notification "**<UPDATE>**" will appear on the screen.

The timing of when the target fixture's display will turn on varies from fixture to fixture.

7. DO NOT turn off power or remove the USB flash drive. Once the software is done uploading, the target fixture will automatically reboot.
8. Go to the target fixture's main menu and confirm that the firmware version has been updated.
9. Reboot the target fixture.

Mounting

Before mounting the product, read and follow the safety recommendations indicated in the <u>Safety Notes</u>.

Orientation

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

Rigging

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

- Before deciding on a location for the product, make sure there is easy access to the product for maintenance and programming purposes.
- Make sure that the structure and attachment points can support the weight before hanging the product (see the <u>Technical Specifications</u> for weight information).
- When mounting the product overhead, always use a safety cable. Mount the product securely to a rigging point, whether an elevated platform or a truss.
- When rigging the product onto a truss, use a mounting clamp of appropriate weight capacity.
- When power linking multiple products, mount the products close enough for power-linking cables to reach.
- The bracket adjustment knobs allow for directional adjustment when aiming the product to the desired angle. Only loosen or tighten the bracket knobs manually. Using tools could damage the knobs.

Procedure

The COLORado 3 Quad Zoom comes with an Omega bracket. The user can directly attach a mounting clamp (sold separately) to this Omega bracket. Make sure the clamp is capable of supporting the weight of this product. For the Chauvet Professional line of mounting clamps, go to <u>http://www.trusst.com/products</u>.

Mounting Diagram
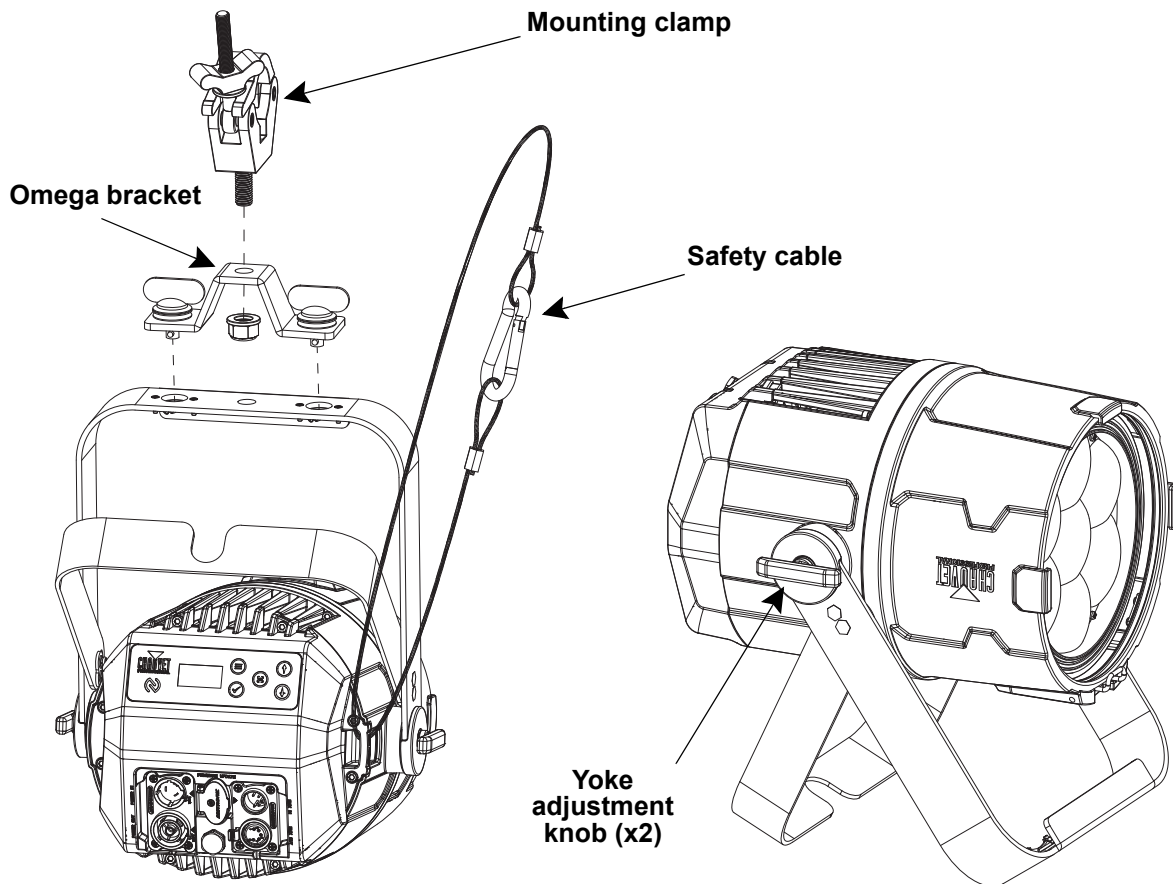
4. Operation

Control Panel Description

Button	Name	Function
☰	**<Menu>**	Exits the current menu or function
✔	**<Enter>**	Enables the currently displayed menu or sets a selected value into a function
⇧	**<Up>**	Navigates upwards through the menu or increases the numeric value of a function
⇩	**<Down>**	Navigates downwards through the menu or decreases the numeric value of a function
👁	**<Focus Mode>**	Activates or deactivates Focus Mode: full output power for easy focusing. Does not change other settings.

Programming

Refer to the menu map to understand the menu options. The menu map shows the main menu and a variable number of programming levels for each option.

- To access the main menu, press **<MENU>**.
- To navigate to the desired option in the main menu, use **<UP>** or **<DOWN>** to navigate directly.
- Press **<ENTER>** to select the indicated option.
- Use **<UP>** or **<DOWN>** to navigate within a programming level until the desired option is indicated.
- To return to the main menu, press **<MENU>** repeatedly until it shows on the display.

Passcode

When prompted, enter the following passcode: **<UP>**, **<DOWN>**, **<UP>**, **<DOWN>**, **<ENTER>**.
It is not possible to change this passcode.

Menu Map

Refer to the COLORado 3 Quad Zoom product page on www.chauvetprofessional.com for the latest menu map.

Main Level	Programming Levels	Description
DMX Address	**001–512**	Selects DMX address (highest channel restricted to personality chosen)
DMX Channel	**1 Ch**	1-channel: dimmer (color set through display menu)
	5 Ch 1	5-channel (1): dimmer, color macro, color temperature, hue, zoom
	5 Ch 2	5-channel (2): R, G, B, L, zoom
	7 Ch	7-channel: dimmer, R, G, B, L, strobe, zoom
	11 Ch	11-channel: dimmer, dimmer fine, R, G, B, L, strobe, color macro, color temperature, hue, zoom
	12 Ch	12-channel: dimmer, dimmer fine, R, R fine, G, G fine, B, B fine, L, L fine, strobe, zoom
	13 Ch	13-channel: dimmer, R, G, B, L, strobe, color macro, color temperature, hue, auto programs, auto speed, control, zoom
	16 Ch	16-channel: dimmer, dimmer fine, R, R fine, G, G fine, B, B fine, L, L fine, strobe, color macro, color temperature, hue, control, zoom
	HSV	3-channel: hue, saturation, value

Main Level	Programming Levels		Description
Static	Virtual Color WHL	Md Yellow	Virtual Color Wheel simulates the output of each gel color. Refer to the Virtual Color Wheel Chart for specific values.
		Lt Yellow	
		Amb Yellow	
		VLt Amber	
		Lt Amber	
		Md Amber	
		Dk Amber	
		Lt Red	
		Md Red	
		NC Pink	
		Md Pink	
		Dk Pink	
		Md Red Amber	
		Dk Red Amber	
		Magenta	
		Dk Magenta	
		Lt Lavender	
		Lt Blue	
		VLt Blue	
		Lt Blue2	
		Blue	
		Md Blue	
		Dk Blue	
		Indigo	
		VDk Blue	
		VdK Blue2	
		Yel Green	
		Green	
		Turquoise	
		Aqua	
		Blue Green	

Note: "Dimmer 000–255" appears in a merged cell spanning the Magenta/Dk Magenta rows between Programming Levels and Description.

Main Level	Programming Levels		Description
Static (cont.)	Color Temperature	2800K	Preset white color temperatures. Emulates a tungsten lamp at the specified color temperature. Refer to the <u>Color Temperature Chart</u> for specific values.
		2900K	
		3000K	
		3100K	
		3200K	
		3300K	
		3400K	
		3500K	
		3600K	
		3700K	
		3800K	
		3900K	
		4000K	
		4100K	
		4200K	
		4300K	Dimmer 000–255
		4400K	
		4500K	
		4600K	Hue -25–25
		4700K	
		4800K	
		4900K	
		5000K	
		5100K	
		5200K	
		5300K	
		5400K	
		5500K	
		5600K	
		5700K	
		6000K	
		6500K	
		7000K	
		7500K	
		8000K	
	Manual Color Mixer	Red	Combines red, green, blue, and lime to make a custom color (0–100%)
		Green	000–255
		Blue	
		Lime	
	Color X-Fade SPD	Off	Turns off the fade transition between colors
		X-Fade Speed 1	Creates fade transition between colors when using colors in the Virtual Color Wheel or Color Temperature chart, from fast (X-Fade Speed 1) to slow (X-Fade Speed 4)
		X-Fade Speed 2	
		X-Fade Speed 3	
		X-Fade Speed 4	
Auto Show	Auto 1–5	001–100	Selects automatic programs and program speed
Zoom	Zoom	000–255	Sets the zoom level
Red Shift		On	Turns on or off Red Shift (color temperature warms when dimming to imitate lamp)
		Off	

Main Level	Programming Levels			Description
Master/Slave	Master			DMX mode (master)
	Slave			Slave mode
Dimmer Curve	S–Curve			S curve dimmer
	Linear			Liner dimmer
	Square			Square curve dimmer
	Inverse Square			Reverse square curve dimmer
Dimmer Mode	Off			Linear dimmer
	Dimmer 1–3			Dimming curves **Dimmer 1** (fast) to **Dimmer 3** (slow)
Color Calibration	Off			Color calibration off
	User Calibration	Red	125–255	Sets maximum red LED value
		Green		Sets maximum green LED value
		Blue		Sets maximum blue LED value
		Lime		Sets maximum lime LED value
	Factory Calibration			Color calibration set by factory
LED Frequency	600Hz			Sets the Pulse Width Modulation frequency
	1200Hz			
	2000Hz			
	4000Hz			
	6000Hz			
	25KHz			
Fan Mode	Auto			Sets the fan to auto mode
	On			Sets the fan to always on
	Off			Sets the fan to always off
	Silent			Sets the fan to silent
Back Light	10S			Turns off display backlight after 10 seconds of inactivity
	30S			Turns off display backlight after 30 seconds of inactivity
	2Min			Turns off display backlight after 2 minutes of inactivity
	Always On			Display backlight always on
Key Lock	On			Locks the display. Passcode: **<UP>**, **<DOWN>**, **<UP>**, **<DOWN>**, **<ENTER>**
	Off			
Information	Fixture Hours	<_ _ _ _H>		Shows total hours the product has been powered on
	LED Hours	<_ _ _ _H>		Shows number of hours the LED has been powered on
	DISP	<V1.0.0>		Shows current display version
	LED	<V1.0.0>		Shows current driver version
	UID	<21A408E1000A>		Shows product UID
Clock	Setting Time	YYYY/MM/DD Hr:Min:Sec		Allows for manual setting of date and time
	Current Time	YYYY/MM/DD Hr:Min:Sec		Displays the current set date and time

Main Level	Programming Levels		Description
Upgrade Firmware	**Only This Fixture**	– – – – – –.**CHL**	Selects an update file for this product, or shows "**No such file!**"
		...	
	Multiple Fixture	– – – – – –.**CHL**	Selects an update file for this and connected COLORado 3 Quad Zoom products, or shows "**No such file!**"
		...	
	Other Fixture Type	– – – – – –.**CHL**	Selects an update file for other connected products, or shows "**No such file!**"
		...	
	Fixture to Fixture	**Are you sure?**	Uploads current firmware to connected products
Factory Reset	**No**		Resets the product to factory default settings
	Yes		

⚠ **When operating in Fan Mode: Off and Fan Mode: Silent, the product will become hotter to the touch than when using other fan modes. Use proper protective equipment to prevent burns. Keep a safe distance from flammable objects.**

ⓘ
- **The "Other Fixture Type" option under Upgrade Firmware can only be selected for connected products compatible with the Upload 03 (the first 2 digits of the item code must be 03).**
- **The "Fixture to Fixture" option under Upgrade Firmware can only be selected for connected COLORado 3 Quad Zoom products.**

DMX Configuration
Use control configurations to operate the product with a DMX controller.

DMX Personalities
To set the DMX personality:
1. Go to the **DMX Channel** main level.
2. Select the desired personality, from **1 Ch**, **5 Ch1**, **5 Ch2**, **7 Ch**, **11 Ch**, **12 Ch**, **13 Ch**, **16 Ch**, or **HSV**.

📝
- See the Starting Address section for the highest selectable starting address for each personality.
- Make sure that the starting addresses on the various products do not overlap due to the new personality setting.

Starting Address
Each product will respond to a unique starting address from the controller. All products with the same starting address will respond in unison. To set the starting address in DMX mode:
1. Go to the **DMX Address** main level.
2. Select the starting address (**001–512**).

Personality	Highest Address	Products per Universe
1 Ch	512	512
5 Ch1, 5 Ch2	508	102
7 Ch	506	73
11 Ch	502	46
12 Ch	501	42
13 Ch	500	39
16 Ch	497	32
HSV	510	170

Virtual Color Wheel

The COLORado 3 Quad Zoom includes a feature called the Virtual Color Wheel (VCW). This feature is available as a standalone control mode for manual use and as a control channel in select DMX personalities. More than 30 premixed colors, custom blended by Chauvet engineers, are available to call up for easier programming.

The DMX values used to mix these colors are provided below. The overall intensity of the COLORado fixture can be adjusted to more closely replicate familiar industry-standard colors. A chart is available at www.chauvetprofessional.com to compare Chauvet's premixed colors with popular gel colors. This chart is for comparison purposes only and is not an assertion that Chauvet's premixed colors match any of the gel colors listed.

Virtual Color Wheel Chart

DMX Value	Display Readout	Red	Green	Blue	Lime
000 ⇔ 005	--	--	--	--	--
006 ⇔ 013	**C3050–Md Yellow**	255	115	000	255
014 ⇔ 021	**C3040–Lt Yellow**	255	101	000	255
022 ⇔ 028	**C3240–Amb Yellow**	247	167	000	037
029 ⇔ 035	**C2340–VLt Amber**	253	111	004	000
036 ⇔ 043	**C2040–Lt Amber**	255	096	002	000
044 ⇔ 051	**C2050–Md Amber**	255	089	000	037
052 ⇔ 059	**C2060–Dk Amber**	255	020	000	096
060 ⇔ 067	**C1050–Lt Red**	255	000	000	021
068 ⇔ 075	**C1080–Md Red**	255	000	000	000
076 ⇔ 083	**C1020–NC Pink**	255	015	040	220
084 ⇔ 091	**C1030–Md Pink**	255	010	040	170
092 ⇔ 099	**C1630–Dk Pink**	218	077	057	255
100 ⇔ 107	**C1250–Md Red Amber**	255	000	000	029
108 ⇔ 115	**C1060–Dk Red Amber**	255	007	008	000
116 ⇔ 121	**C1650–Magenta**	127	020	010	000
122 ⇔ 130	**C6170–Dk Magenta**	222	000	049	000
131 ⇔ 138	**C6020–Lt Lavender**	255	136	067	255
139 ⇔ 146	**C5030–Lt Blue**	037	255	105	051
147 ⇔ 154	**C5020–VLt Blue**	018	093	042	051
155 ⇔ 162	**C5430–Lt Blue2**	069	235	066	000
163 ⇔ 170	**C5070–Blue**	000	134	074	000
171 ⇔ 178	**C5050–Md Blue**	030	177	073	000
179 ⇔ 186	**C5060–Dk Blue**	030	236	120	000
187 ⇔ 194	**C5690–Indigo**	039	010	147	000
195 ⇔ 202	**C5080–VDk Blue**	000	144	145	000
203 ⇔ 210	**C5081–VDk Blue2**	000	154	178	014
211 ⇔ 218	**C4370–Yel Green**	000	254	000	010
219 ⇔ 226	**C4070–Green**	000	217	002	060
227 ⇔ 234	**C4550–Turquoise**	020	255	050	255
235 ⇔ 242	**C4560–Aqua**	000	194	022	097
243 ⇔ 250	**C4570–Blue Green**	000	255	015	000
251 ⇔ 255	--	--	--	--	--

The colors above are simulated renditions of the color output produced compared with other similar incandescent products. Chauvet makes no guarantee of the color output accuracy.

Color Temperature Chart

DMX Value	Temperature	R	G	B	L	DMX Value	Temperature	R	G	B	L
000 ⇔ 005	**No function**					125	**4500K**	101	000	045	255
006	**2800K**	255	000	018	229	126 ⇔ 131	**4501–4599K**				
007 ⇔ 012	**2801–2899K**					132	**4600K**	095	000	046	255
013	**2900K**	255	000	021	245	133 ⇔ 138	**4601–4699K**				
014 ⇔ 019	**2901–2999K**					139	**4700K**	094	002	048	255
020	**3000K**	245	000	023	255	140 ⇔ 145	**4701–4799K**				
021 ⇔ 026	**3001–3099K**					146	**4800K**	096	006	050	255
027	**3100K**	230	000	025	255	147 ⇔ 152	**4801–4899K**				
028 ⇔ 033	**3101–3199K**					153	**4900K**	092	009	051	255
034	**3200K**	217	000	026	255	154 ⇔ 159	**4901–4999K**				
035 ⇔ 040	**3201–3299K**					160	**5000K**	091	011	053	255
041	**3300K**	203	000	028	255	161 ⇔ 166	**5001–5099K**				
042 ⇔ 047	**3301–3399K**					167	**5100K**	091	014	055	255
048	**3400K**	193	000	030	255	168 ⇔ 173	**5101–5199K**				
049 ⇔ 054	**3401–3499K**					174	**5200K**	088	016	056	255
055	**3500K**	180	000	031	255	175 ⇔ 180	**5201–5299K**				
056 ⇔ 061	**3501–3599K**					181	**5300K**	084	018	057	255
062	**3600K**	171	000	033	255	182 ⇔ 187	**5301–5399K**				
063 ⇔ 068	**3601–3699K**					188	**5400K**	084	018	059	255
069	**3700K**	161	000	033	255	189 ⇔ 194	**5401–5499K**				
070 ⇔ 075	**3701–3799K**					195	**5500K**	084	025	060	255
076	**3800K**	153	000	036	255	196 ⇔ 201	**5501–5599K**				
077 ⇔ 082	**3801–3899K**					202	**5600K**	082	025	062	255
083	**3900K**	144	000	037	255	203 ⇔ 208	**5601–5699K**				
084 ⇔ 089	**3901–3999K**					209	**5700K**	080	027	063	255
090	**4000K**	137	000	039	255	210 ⇔ 215	**5701–5999**				
091 ⇔ 096	**4001–4099K**					216	**6000K**	080	037	068	255
097	**4100K**	128	000	040	255	217 ⇔ 222	**6001–6499K**				
098 ⇔ 103	**4101–4199K**					223	**6500K**	077	051	074	225
104	**4200K**	120	000	041	255	224 ⇔ 229	**6501–6999K**				
105 ⇔ 110	**4201–4299K**					230	**7000K**	074	061	081	255
111	**4300K**	113	000	042	255	231 ⇔ 236	**7001–7499K**				
112 ⇔ 117	**4301–4399K**					237	**7500K**	071	075	087	255
118	**4400K**	109	000	044	255	238 ⇔ 243	**7501–7999K**				
119 ⇔ 124	**4401–4499K**					244 ⇔ 255	**8000K**	060	075	091	255

The color temperatures above are simulated renditions of the color output produced compared with a tungsten lamp at the specified color temperature. Chauvet makes no guarantee of the color output accuracy.

DMX Channel Assignments and Values
Control Chart

Value	Percent/Setting	Value	Percent/Setting
000 ⇔ 007	No function	120 ⇔ 127	Fan mode silent
008 ⇔ 015	Reset dimmer	128 ⇔ 135	X-Fade speed off
016 ⇔ 023	Red shift on	136 ⇔ 143	X-Fade speed 1
024 ⇔ 031	Red shift off	144 ⇔ 151	X-Fade speed 2
032 ⇔ 039	S-curve dimmer	152 ⇔ 159	X-Fade speed 3
040 ⇔ 047	Linear dimmer	160 ⇔ 167	X-Fade speed 4
048 ⇔ 055	Square dimmer	168 ⇔ 172	PWM frequency 750 Hz
056 ⇔ 063	Inverse square dimmer	173 ⇔ 177	PWM frequency 1200 Hz
064 ⇔ 071	Dimmer mode off	178 ⇔ 182	PWM frequency 2000 Hz
072 ⇔ 079	Dimmer mode 1 (fast)	183 ⇔ 187	PWM frequency 4000 Hz
080 ⇔ 087	Dimmer mode 2	188 ⇔ 192	PWM frequency 6000 Hz
088 ⇔ 095	Dimmer mode 3 (slow)	193 ⇔ 197	PWM frequency 25000 Hz
096 ⇔ 103	Fan mode auto	198 ⇔ 200	Reserved for future use
104 ⇔ 111	Fan mode on	201 ⇔ 220	Zoom reset
112 ⇔ 119	Fan mode off	221 ⇔ 255	No function

5 Ch1/ 5 Ch2/ 7 Ch / 11 Ch / 12 Ch / 13 Ch / 16 Ch

5-1	5-2	7	11	12	13	16	Function	Value	Percent/Setting
1	–	1	1	1	1	1	**Dimmer**	000 ⇔ 255	0–100%
–	–	–	2	2	–	2	**Dimmer Fine**	000 ⇔ 255	0–100%
–	1	2	3	3	2	3	**Red**	000 ⇔ 255	0–100%
–	–	–	–	4	–	4	**Red Fine**	000 ⇔ 255	0–100%
–	2	3	4	5	3	5	**Green**	000 ⇔ 255	0–100%
–	–	–	–	6	–	6	**Green Fine**	000 ⇔ 255	0–100%
–	3	4	5	7	4	7	**Blue**	000 ⇔ 255	0–100%
–	–	–	–	8	–	8	**Blue Fine**	000 ⇔ 255	0–100%
–	4	5	6	9	5	9	**Lime**	000 ⇔ 255	0–100%
–	–	–	–	10	–	10	**Lime Fine**	000 ⇔ 255	0–100%
–	–	6	7	11	6	11	**Strobe**	000 ⇔ 010	No function
								011 ⇔ 255	Strobe, slow to fast
2	–	–	8	–	7	12	**Virtual Color Wheel**	000 ⇔ 255	See the Virtual Color Wheel Chart
3	–	–	9	–	8	13	**Color Temperature**	000 ⇔ 255	See the Color Temperature Chart
4	–	–	10	–	9	14	**Hue**	000	No function
								001 ⇔ 255	-25–25
–	–	–	–	–	10	–	**Automatic program**	000 ⇔ 010	No function
								011 ⇔ 060	Automatic program 1
								061 ⇔ 110	Automatic program 2
								111 ⇔ 160	Automatic program 3
								161 ⇔ 210	Automatic program 4
								211 ⇔ 255	Automatic program 5 (cycles Programs 1-4)
–	–	–	–	–	11	–	**Automatic speed**	000 ⇔ 255	Program speed, slow to fast
–	–	–	–	–	12	15	**Control**	000 ⇔ 255	See the Control Chart
5	5	7	11	12	13	16	**Zoom**	000 ⇔ 255	Wide to narrow

HSV

Channel	Function	Value	Percent/Setting
1	Hue	000 ⇔ 255	0–100%
2	Saturation	000 ⇔ 255	0–100%
3	Value	000 ⇔ 255	0–100%

1Ch

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100% (color set through display menu)

Standalone Configuration

Static Mode
The static mode options under **Static** also include preset color temperatures and a manual color mixer.

Virtual Color Wheel
To select from the Virtual Color Wheel:
1. Go to the **Virtual Color WHL** main level.
2. Select the **Virtual Color WHL** option.
3. Select the desired virtual gel color (see the Virtual Color Wheel Chart).
4. Set the **Dimmer** value (**0–255**).

Color Temperature
To select a preset color temperature via the menu map:
1. Go to the **Virtual Color WHL** main level.
2. Select the **Color Temperature** option.
3. Select the desired color temperature (see the Color Temperature Chart).
4. Set the **Dimmer** value (**0–255**).
5. If desired, set the **Hue** value (**-25–25**).

Manual Color Mixer
To manually mix a custom static color:
1. Go to the **Virtual Color WHL** main level.
2. Select **Manual Color Mixer**.
3. Select the color to edit (**Red**, **Green**, **Blue**, or **Lime**).
4. Set the value for the selected color (**0–255**).
5. Repeat steps 3 and 4 until product outputs as desired.

Color X-Fade Speed
To select the Virtual Color Wheel cross-fade speed:
1. Go to the **Virtual Color WHL** main level.
2. Select **Color X-Fade SPD**.
3. Select the speed, from **Off** (snap), **X-Fade Speed 1** (fastest), **X-Fade Speed 2**, **X-Fade Speed 3**, or **X-Fade Speed 4** (slowest).

Auto Show
To select an automatic program:
1. Go to the **Auto Show** main level.
2. Select the desired auto program (**Auto 1–5**).
3. Set the **Speed** value (**1–100**).

Zoom
To set the zoom level via the menu map:
1. Go to the **Zoom** main level.
2. Set the **Zoom** value (**000–255**).

Settings Configuration

Red Shift

With red shift enabled, the color temperature will warm as the dimmer decreases in imitation of a lamp. To enable or disable the red shift function:
1. Go to the **Red Shift** main level.
2. Select from **On** or **Off**.

Master/Slave

To set the COLORado 3 Quad Zoom product to master or slave mode:
1. Go to the **Master/Slave** main level.
2. Select from **Master** (sends control signal) or **Slave** (receives control signal).

- • **Configure all the slave products before connecting the master to the daisy chain.**
- • **Never connect a DMX controller to a DMX string configured for Master/Slave operation because the controller may interfere with the signals from the master.**
- • **Do not connect more than 31 slaves to the master.**

Dimmer Curve

To set the dimmer curve:
1. Go to the **Dimmer Curve** main level.
2. Select from **S Curve**, **Linear**, **Square**, or **Inverse Square**.

Dimmer Mode

To set the dimmer speed:
1. Go to the **Dimmer Mode** main level.
2. Select the dimmer speed mode from **Off** (instant), **Dimmer 1** (fastest), **Dimmer 2**, or **Dimmer 3** (slowest).

Color Calibration

To configure the color calibration:
1. Go to the **Color Calibration** main level.
2. Select from **Off**, **User Calibration**, or **Factory Calibration**.
3. If **User Calibration**, select the maximum color value to edit, from **Red**, **Green**, **Blue**, or **Lime**.
4. Set the maximum level for the selected color, from **125–255**.
5. Repeat steps 3–4 until the colors are calibrated as desired.

LED Frequency

To set the frequency of the pulse width modulation:
1. Go to the **LED Frequency** main level.
2. Select the PWM frequency, from **600Hz**, **1200Hz**, **2000Hz**, **4000Hz**, **6000Hz**, or **25KHz**.

Fan Mode

To set the fan mode:
1. Go to the **Fan Mode** main level.
2. Select the fan mode, from **Auto** (adjusts to product temperature), **On** (always on), **Off** (always off), or **Silent** (silent mode).

When operating in Fan Mode: Off and Fan Mode: Silent, the product will become hotter to the touch than when using other fan modes. Use proper protective equipment to prevent burns. Keep a safe distance from flammable objects.

Back Light

To set how long the display will stay lit without activity:
1. Go to the **Back Light** main level.
2. Select from **10S** (10 seconds), **30S** (30 seconds), **2Min** (2 minutes), or **Always On**.

Key Lock

To enable or disable the passcode lock on the display:
1. Go to the **Key Lock** main level.
2. Select from **On** or **Off**.

Information

To view product information, such as the number of hours the product has been on, the driver firmware, etc., go to the **Information** main level.

Clock

To set the date and time on the product:
1. Go to the **Clock** main level.
2. Select **Setting Time** (**Current Time** allows users to view the current set date and time).
3. Use **<Up>** and **<Down>** to set a desired value for the underlined segment.
4. Press **<Enter>** to advance to the next segment.
5. Once the desired date and time are fully set, press **<Enter>** until **Save&Esc** appears.
6. Press **<Enter>** to save and return to the **Clock** main level.

Factory Reset

To reset the product to factory default settings:
1. Go to the **Factory Reset** main level.
2. Select **No** (do not reset) or **Yes** (reset).

5. Maintenance

Product Maintenance

Dust build-up reduces light output performance and can cause overheating. This can lead to reduction of the light source's life and/or mechanical wear. To maintain optimum performance and minimize wear, clean each lighting product at least twice a month. However, be aware that usage and environmental conditions could be contributing factors to increase the cleaning frequency.

To clean the product, follow the instructions below:

1. Unplug the product from power.
2. Wait until the product is at room temperature.
3. Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external surface/vents.
4. Clean all transparent surfaces with a mild soap solution, ammonia-free glass cleaner, or isopropyl alcohol.
5. Apply the solution directly to a soft, lint free cotton cloth or a lens cleaning tissue.
6. Softly drag any dirt or grime to the outside of the transparent surface.
7. Gently polish the transparent surfaces until they are free of haze and lint.

ⓘ **Always dry the transparent surfaces carefully after cleaning them.**

ⓘ **Dry off this product before storing it in the case. Failure to do so may result in deterioration of the product's housing.**

Torque Measurements

To maintain the IP rating when reassembling the product, use the given torque measurements for each of the following screws and bolts:

Fixture Parts	Torque Rating (Kgf.cm)
Lens cover screws	15±2
Connector screws	6±1
Rear cover screws	10±2
Lens screws	5±1
PCB screws	5±1

Vacuum Test Measurements

Use the IP Tester from Chauvet Professional to ensure the product has been reassembled correctly by following the information below:

Parameters	Values
Method	Positive
Test pressure	40 kPa
Test duration	60 seconds
PASS state leak pressure	<0.5 kPa

6. Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
16.34 in (415 mm)	10.94 in (278 mm)	8.3 in (210.84 mm)	14.2 lb (6.4 kg)

Note: Dimensions in inches are rounded.

Power

Power Supply Type	Range	Voltage Selection
Switching (internal)	100 to 240 VAC, 50/60 Hz	Auto-ranging

Parameter	100 V, 60 Hz	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz	240 V, 50 Hz
Consumption	258 W	258 W	255 W	260 W	256 W
Operating Current	2.60 A	2.17 A	1.28 A	1.20 A	1.14 A
Power Linking Current	12 A	12 A	12 A	12 A	12 A

Power I/O	U.S./Worldwide	UK/Europe
Power Input Connector	Seetronic Powerkon IP65	Seetronic Powerkon IP65
Power Output Connector	Seetronic Powerkon IP65	Seetronic Powerkon IP65
Power Cable plug	Edison	Local plug

Light Source

Type	Color	Quantity	Power	Current	Lifespan
LED	Quad-color RGBL	7	8.4 to 13 W	2.7 A	50,000 hours

Photometrics

Color Temperature Range	Color Temperature at Full	CRI (3200K)
2800 to 8000 K	5882 K	83

Parameter	Narrow Zoom	Wide Zoom
Beam angle	3.9°	38.5°
Field angle	6°	52.6°
Cuttoff angle	7.3°	58.9°
Zoom range	3.9°	52.6°
Illuminance @ 5m	27,567 lux	657 lux
Lumens	3350 (3.2°)	5974 (39.9°)

Thermal

Maximum External Temperature	Cooling System
158 °F (70 °C)	Fan-assisted Convection

Control

DMX I/O Connector	Channel Range
5-pin XLR	1, 5, 7, 11, 12, 13, 16, HSV

Ordering

Item Name	Item Code	UPC Number
COLORADO3QZL	03032273	781462226213

RoHS

DMX RDM

MET ® ᶜ ᵁˢ
UL 1573
CSA C22.2 No. 166
E113093

FC UK CA C E

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Warranty & Returns

For warranty terms and conditions and return information, please visit our website.

For customers in the United States and Mexico: www.chauvetlighting.com/warranty-registration.

For customers in the United Kingdom, Republic of Ireland, Belgium, the Netherlands, Luxembourg, France, and Germany: www.chauvetlighting.eu/warranty-registration.