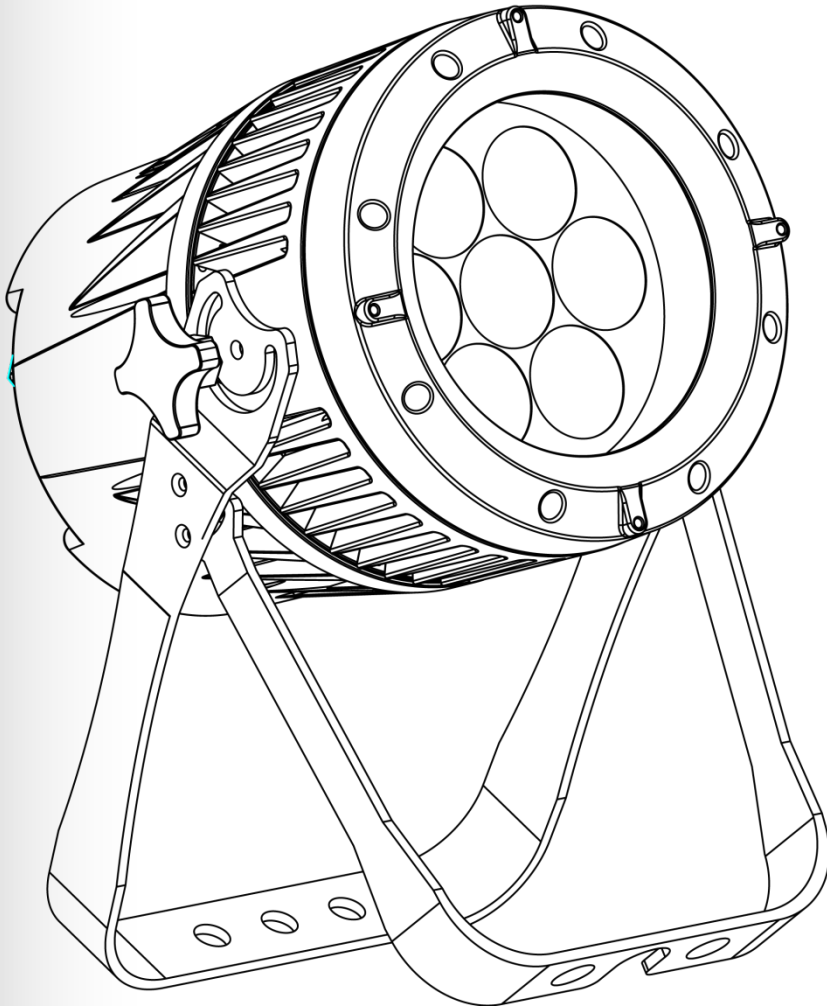


COLORADO™ 1-QUAD ZOOM TOUR

User Manual



Edition Notes The Colorado™ 1-Quad Zoom Tour User Manual Rev. 2 covers the description, safety precautions, installation, programming, operation, and maintenance of the Colorado™ 1-Quad Zoom Tour. Chauvet released this edition of the Colorado™ 1-Quad Zoom Tour 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.

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Document Revision The Colorado™ 1-Quad Zoom Tour User Manual Rev. 2 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
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1. BEFORE YOU BEGIN




- What Is Included**
- Colorado™ 1-Quad Zoom Tour
 - Neutrik® powerCON® power cord
 - Gel frame holder (7.5 in/191 mm accessories)
 - Gel frame
 - 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.

Product At A Glance

Use on Dimmer	X	Auto Programs	P
Outdoor Use	X	Auto-Ranging Power Supply	P
Master/Slave	P	Replaceable Fuse	P
DMX	P	User-Serviceable	X

Safety Notes

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



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



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

Personal Safety

- Avoid direct eye exposure to the light source while the product is on.
- Always disconnect this product from its power source before servicing.
- Always connect this product to a grounded circuit to avoid the risk of electrocution.
- Do not touch this product's housing during operation because it may be very hot.
- This product is for indoor use only! To prevent risk of fire or shock, do not expose this product to rain or moisture. (IP20)
- CAUTION: When transferring product from extreme temperature environments, (e.g. cold truck to warm humid ballroom) condensation may form on the internal electronics of the product. To avoid causing a failure, allow product to fully acclimate to the surrounding environment before connecting it to power.
- Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- Make sure there are no flammable materials close to this product while it is operating.
- When hanging this product, always secure to a fastening device using a safety cable.

Mounting And Rigging

Power And Wiring

Operation

- Always make sure you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.
- Never connect this product to a dimmer pack or rheostat.
- Never disconnect this product by pulling or tugging on the power cable.
- Do not operate this product if you see damage on the housing, lenses, or cables. Have the damaged parts replaced by an authorized technician at once.
- Do not cover the ventilation slots when operating to avoid internal overheating.
- The maximum ambient temperature is 113 °F (45 °C). Do not operate this product at a higher temperature.
- In case of a serious operating problem, stop using this product immediately!



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

Expected LED Lifespan

LEDs gradually decline in brightness over time, mostly because of heat. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal, single-LED conditions. For this reason, using clustered LEDs at their fullest intensity significantly reduces the LEDs' lifespan. Under normal conditions, this lifespan can be 40,000 to 50,000 hours. If extending this lifespan is vital, lower the operating temperature by improving the ventilation around the product and reducing the ambient temperature to an optimal operating range. In addition, limiting the overall projection intensity may also help to extend the LEDs' lifespan.

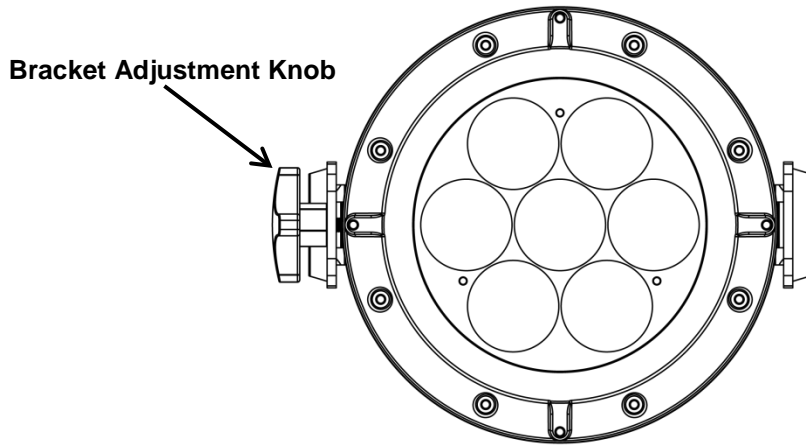
2. INTRODUCTION

Description The COLORado™ 1-Quad Zoom Tour is a high-power quad-color (RGBW) LED wash product with color mixing and zoom control. This product consists of a single module that houses the internal power supply, the control panel, the LED drivers, the LED boards, and motorized moving lenses, as well as the power and signal connectors. The COLORado™ 1-Quad Zoom Tour features a variable zoom, which enables the user to change the beam angle of the product via DMX or control panel, and a double-bracketed yoke that can serve as a floor mount or hanging support bracket.

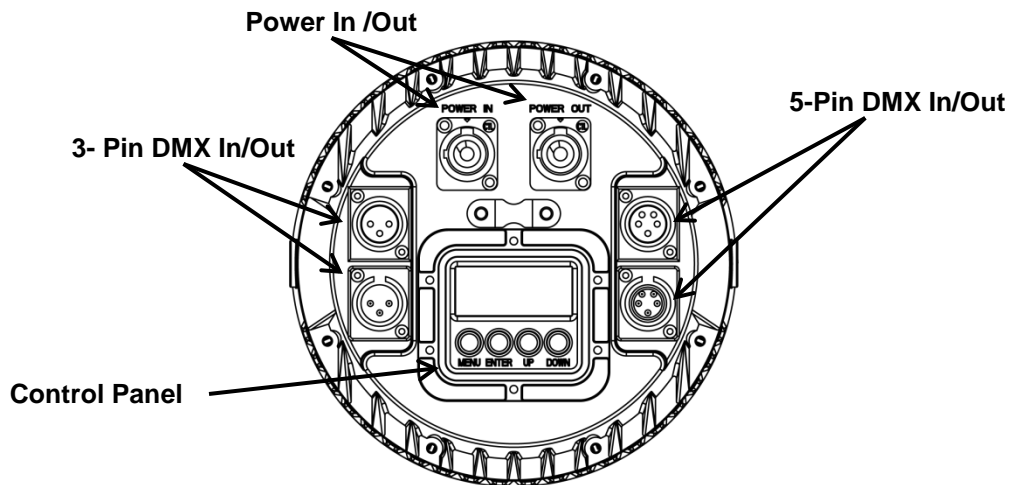
- Features**
- 3, 4, 5, 6, 7, 10, 12, 17 or 25-channel quad-color LED wash product
 - Operating modes:
 - 3-channel: RGB control
 - 3-channel: HSV control
 - 4-channel: RGB, dimmer
 - 4-channel: RGBW
 - 5-channel: RGBW, dimmer
 - 6-channel: RGBW, dimmer, strobe
 - 7-channel: RGBW, dimmer, zoom, zoom reset
 - 10-channel: RGBW, dimmer, strobe, color macro, auto/custom, dimmer speed, auto speed **
 - 12-channel: RGBW, dimmer, strobe, color macro, auto/custom, dimmer speed, auto speed, zoom, zoom reset
 - 17-channel: 16-bit RGBW and dimmer; strobe, color macro, auto/custom, dimmer speed, auto speed, zoom, zoom reset
 - 17-channel: 16-bit RGBW and dimmer; strobe, color macro, auto/custom, dimmer speed, auto speed, zoom, zoom reset
 - 25-channel: 16-bit RGBW pixel control and dimmer; strobe, color macro, auto/custom, dimmer speed, auto speed, zoom, zoom reset
 - Built-in auto and custom programs recalled via DMX and Master/Slave
 - RGBW color mixing via DMX or manually
 - Zoomable, with a wide zoom range for design versatility
 - Tough road-ready construction
 - Individual control of outer pixel ring and center pixel
 - Selectable, smooth dimming curves for programming versatility
 - 16-bit dimming of individual colors as well as master dimmer
 - Neutrik® powerCON® power input/output connections
 - 3- and 5-pin DMX input/output connections

****Zoom locked to match Colorado™ 1-Quad series.**

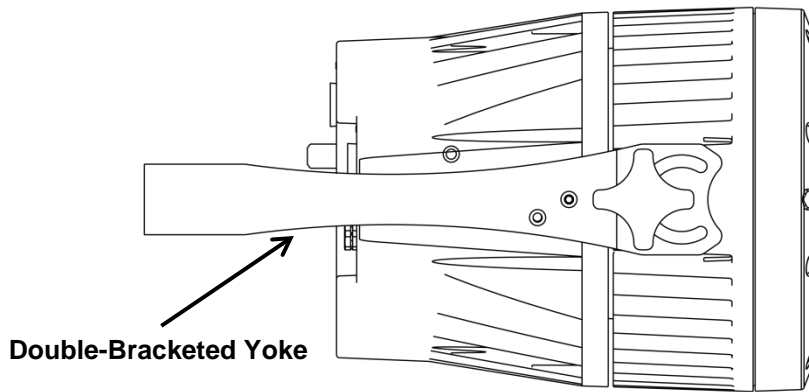
Overview



Front View

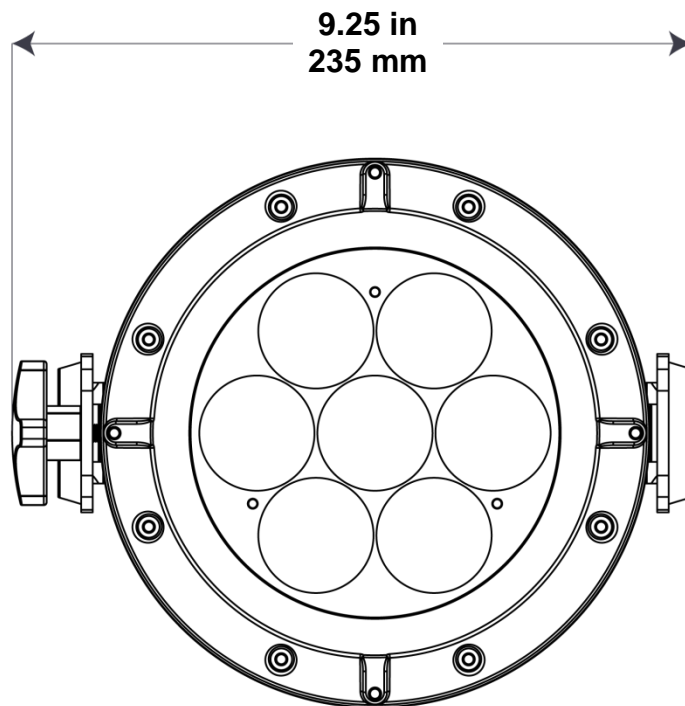
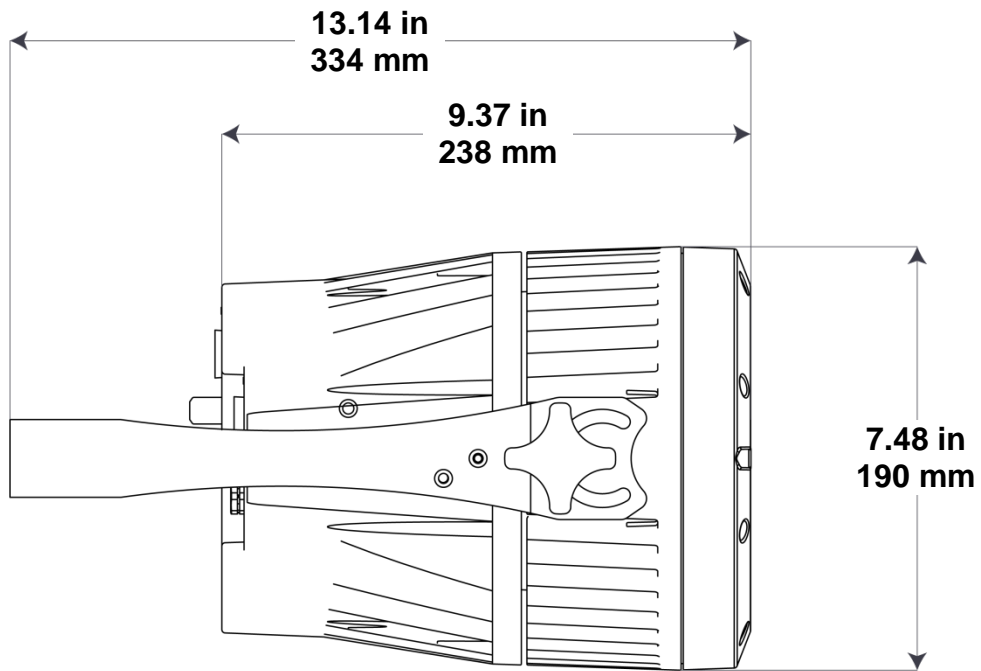


Rear View



Side View

Dimensions



3. SETUP

AC Power

Each Colorado™ 1-Quad Zoom Tour has an auto-ranging power supply that works with an input voltage range of 100 to 240 VAC, 50/60 Hz. To determine the power requirements for each Colorado™ 1-Quad Zoom Tour, refer to the label affixed to the product. You can also refer to the [Technical Specifications](#) chart in this manual.

The listed current rating indicates the maximum current draw during normal operation. For more information, you may download Sizing Circuit Breakers from the Chauvet website: www.chauvetprofessional.com.



- **Always connect this product to a protected circuit with an appropriate electrical ground to avoid the risk of electrocution or fire.**
- **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 Colorado™ 1-Quad Zoom Tour comes with a power input cord terminated with a Neutrik® powerCON® A connector on one end and an Edison plug on the other end (U.S. market). If the power input cord that came with your product has no plug, or if you need to change the Edison plug, use the table below to wire the new plug.

Connection	Wire (U.S.)	Wire (Europe)	Screw Color
AC Live	Black	Brown	Yellow or Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

Power Linking

The Colorado™ 1-Quad Zoom Tour supports power linking. You can power link up to 12 products at 120 V; up to 21 at 208 V; or up to 23 at 230 V. This product comes with a power input cord. Power linking cables are available from Chauvet for purchase.

DMX Linking

You can link the Colorado™ 1-Quad Zoom Tour to a DMX controller using a 3- or 5-pin DMX connection. If using other DMX-compatible products with the Colorado™ 1-Quad Zoom Tour, you can control each individually with a single DMX controller.

DMX Personalities

The Colorado™ 1-Quad Zoom Tour uses a 3- or 5-pin DMX data connection for its 3, 4, 5, 6, 7, 10, 12, 17, or 25-channel DMX personalities.

- Refer to the [Introduction](#) chapter for a brief description of each DMX personality.
- Refer to the [Operation](#) chapter to learn how to configure the Colorado™ 1-Quad Zoom Tour to work in these personalities.
- The [DMX Values](#) section provides you with detailed information regarding the DMX personalities.



If you are not familiar with or need more information about DMX standards, Master/Slave connectivity, or the DMX cables needed to link this product to a DMX controller, download the DMX Primer from the Chauvet website: www.chauvetprofessional.com.

Master/Slave Connectivity

The Master/Slave mode allows a Colorado™ 1-Quad Zoom Tour (the master) to control one or more Colorado™ 1-Quad Zoom Tours (the slaves) without a DMX controller. One Colorado™ 1-Quad Zoom Tour becomes the master when running an auto or custom program, or by being in a Static mode.

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



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.

Mounting Before mounting this product, read and follow the [Safety Notes](#). For our Chauvet line of mounting clamps, go to <http://trusst.com/products/>.

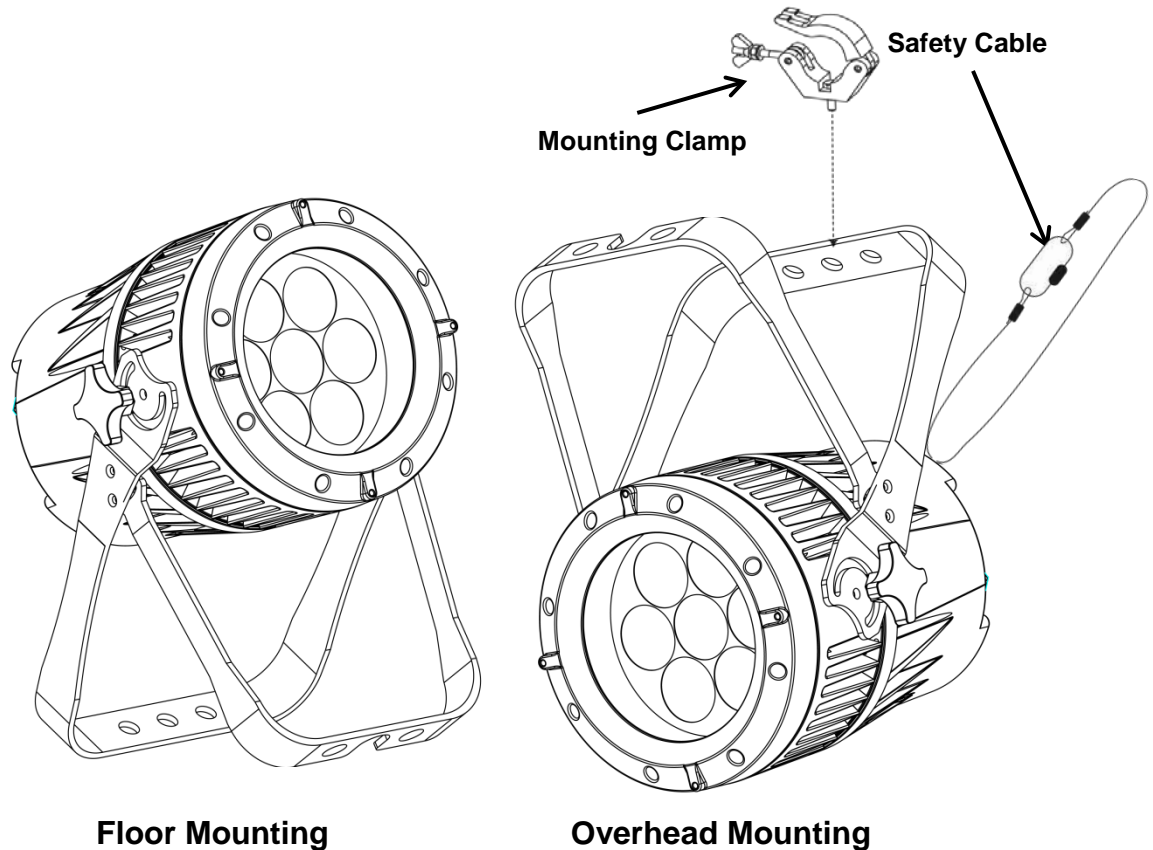
Orientation Always mount this product in a safe position and make sure there is adequate room for ventilation, configuration, and maintenance.

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. For our Chauvet line of safety cables, go to <http://trusst.com/products/>.

Procedure The Colorado™ 1-Quad Zoom Tour comes with a double-bracketed yoke to which you can either attach mounting clamps for hanging or simply use as a floor stand. You must supply your own mounting clamps. Make sure the clamps are capable of supporting the weight of this product. Use at least one mounting point per product. For our Chauvet line of mounting clamps, go to <http://trusst.com/products/>.

Mounting Diagram



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 list or increases the numeric value when in a function
	<DOWN>	Navigates downward through the menu list or decreases the numeric value when in a function

Control Options You can set the Colorado™ 1-Quad Zoom Tour starting address in the **001–512** DMX range. This enables control of up to 20 products in the 25-channel **FULL** 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 Lock This setting enables you to activate or disable the control panel lock, which keeps non-authorized personnel from changing the product's settings.

1. Go to the **KEY** main level.
2. Select **ON** or **OFF**.



When the control panel lock is activated, in order to access the products main programming level, the product will prompt you to enter the passcode. Enter the passcode as described in [Passcode](#).

Passcode After being prompted to enter the passcode:

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

Settings Lock This setting enables you to activate or disable the settings lock, which keeps non-authorized personnel from making any changes to the programming levels under the **SET** main level.

1. Go to the **SET** main level.
2. Select **SLCK**.
3. Select **ON** or **OFF**.



When the settings lock is activated, in order to access the SET programming levels, the product will prompt you to enter the passcode. Enter the passcode as described in [Passcode](#).

Menu Map

Main Level	Programming Levels				Description
STAT	RED	R.	000–255		Combines red, green, blue, and white to make a custom color (0–100%)
	GREN	G.			
	BLUE	B.			
	WHIT	W.			
	ZOOM	Z.			
	STRB	S.	00–20		Selects the strobe frequency (0–20 Hz)
AUTO	AT.	01–10	P.	000–255	10 automatic programs and speed
	PR.			01–10	10 customizable programs
RUN	DMX				DMX mode
	SLAV				Slave mode
ADDR	D.			001–512	Selects the DMX starting address
PERS	TOUR				12-channel: RGBW, dimmer, strobe, color macro, auto/custom, dimmer speed, auto speed, zoom, zoom reset
	TR16				17-channel: 16-bit RGBW and dimmer; strobe, color macro, auto/custom, dimmer speed, auto speed, zoom, zoom reset
	STD.Y				17-channel: 16-bit RGBW and dimmer; strobe, color macro, auto/custom, dimmer speed, auto speed, zoom, zoom reset
	FULL				25-channel: 16-bit RGBW pixel control and dimmer; strobe, color macro, auto/custom, dimmer speed, auto speed, zoom, zoom reset
	C1Q				10-channel: RGBW, dimmer, strobe, color macro, auto/custom, dimmer speed, auto speed **
	ARC.1				3-channel: RGB control
	AR1.D				4-channel: RGB, dimmer
	ARC.2				4-channel: RGBW
	AR2.D				5-channel: RGBW, dimmer
	AR2.S				6-channel: RGBW, dimmer, strobe
	AR2.Z				7-channel: RGBW, dimmer, zoom, zoom reset
	HSV				3-channel: HSV control

**Zoom locked to match Colorado™ 1-Quad series.

Menu Map (Cont.)

Main Level	Programming Levels					Description						
EDIT	PR.	01-10	SC.	01-30	RED	000-255	Combines red, green, blue, and white to generate a custom color (0-100%)					
					GREN							
					BLUE							
					WHIT							
										ZOOM		Selects beam angle (zoom)
										STRB	00-20	Selects the strobe frequency (0-20 Hz)
										TIME	000-255	Defines the step duration (slow to fast)
										FADE		Defines the fade duration (slow to fast)
SET	KEY			ON		Turns the passcode on or off						
				OFF								
	UPLD	**** (Enter Passcode)		SEND/ END		Uploads custom programs to other COLORado™ 1-Quad Zoom Tour products						
	REST	**** (Enter Passcode)				Defaults product to factory settings						
	COLR			OFF		RGB set to 255 = max. output						
				RGBW		RGB set to 255 = balanced white						
				UC.		Universal color balance						
	DIMX			OFF		No dimmer						
				DIM1		Dimmer profiles fast (DIM1) to slow (DIM4)						
				DIM2								
				DIM3								
				DIM4								
	CURV			OFF		No dimmer						
				CV1		Dimmer curves fast (CV1) to slow (CV3)						
				CV2								
				CV3								
	DERR			SAVE		Continues with last command upon loss of DMX control						
				BLAK		Blacks out fixture upon loss of DMX						
	SLCK			OFF		SET main level access lock						
				ON								
ZOOM			BASE		Sets default zoom position (full movement)							
			POS1		Sets position 1 setting for zoom limit							
			POS2		Sets position 2 setting for zoom limit							

Menu Map (Cont.)

Main Level	Programming Levels				Description	
CAL	**** (Enter Passcode)	CAL1	WH. 01–11	RED	000– 255	Modifies the color macros used in the TOUR , FULL , C1Q , TR16 , and STD.Y personalities
				GREN		
				BLUE		
WHIT						
	CAL2	RED		000– 255	Defines the color temperature used when COLR is set to RGBW	
		GREN				
		BLUE				
		CALR	**** (Enter Passcode)		Defaults CAL to factory settings	
ZOOM	POS.1	P. 000–255			Sets the min/max position of the zoom function	
	POS.2					

Configuration (Standalone)

Use standalone configuration to operate the product without a DMX controller.

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

1. Go to the **AUTO** main level.
2. Select the desired auto program (**AT. 01–10**) and speed of the program (**P. 000–255**) or custom program (**PR. 01–10**).



You cannot edit any of the auto programs (AUTO 01–10); however, you can edit the custom programs (PR.01–10). See [Edit Custom Programs](#) for details.

Edit Custom Programs

This setting allows the programming of up to 30 scenes for each of the 10 customizable programs, including colors and effects.

1. Go to the **EDIT** main level.
2. Select the desired custom program (**PR. 01–10**).
3. Select the desired scene (**SC. 01–30**).
4. Select the desired color, effect, or timer (**RED, GREN, BLUE, WHIT, STRB, ZOOM, TIME, or FADE**).
5. Select the color, effect, or timer value (**000–255** for colors, effects, and timers or **00–20** for strobe).
6. Repeat for the other colors, effects, or timers.
7. Return to the scene (**SC. 01–30**) level.
8. Repeat the settings of colors, effects, and timers for the other scenes.

Master/Slave

The Master/Slave mode allows a group of Colorado™ 1-Quad Zoom Tours (the slaves) to simultaneously duplicate the output of another Colorado™ 1-Quad Zoom Tour (the master) without a DMX controller.

1. Set each of the slaves:
 - a. Go to the **RUN** main level.
 - b. Select **SLAVE**.
2. Set the master:
 - a. Set the running mode to **DMX** as explained in [DMX Control](#).
 - b. Select an auto or custom program as explained in [Auto Programs](#), or a static mix of colors.

- **The master 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.**
- **The master should be the first product in the daisy chain.**



Color Settings

The **COLOR** setting determines how the Colorado™ 1-Quad Zoom Tour generates the white color based on various RGB settings.

1. Go to the **SET** main level.
2. Select **COLR**.
3. Select **OFF, RGBW, 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.



RGBW: 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 Profiles This setting determines how fast the output of the Colorado™ 1-Quad Zoom Tour changes when you modify the values of the red, green, blue, white, and dimmer faders. This setting provides four different options to simulate the dimming curve of an incandescent lighting product.

1. Go to the **SET** main level.
2. Select **DIMX**.
3. Select a 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, **DIM1** being the fastest and **DIM4** the slowest.

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 **SET** main level.
2. Select **CURV**.
3. Select a dimmer curve (**OFF**, **CV1**, **CV2**, or **CV3**).



- OFF:** The output is proportional (linear) to the dimmer and RGBW channel values.
- CV1–3:** The output follows the dimmer and RGBW channel values based on the corresponding dimmer curve, **CV1** being the fastest and **CV3** the slowest.



For optimum control of the 16-bit dimming channels in the TR16, FULL, and STD.Y personalities, be sure that both dimming curves in SET > DIM and SET > CURV are set to OFF.



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. See [Passcode](#).

Program Upload This option allows you to copy the custom programs of one Colorado™ 1-Quad Zoom Tour onto other Colorado™ 1-Quad Zoom Tour by using the Master/Slave mode.

1. Configure and connect the products in a Master/Slave arrangement, where the master has the custom programs you want to transfer to the slaves.
2. From the master, go to the **SET** main level.
3. Select **UPLD**.
4. When **PASS** shows, press **<ENTER>**.
5. Enter the master access passcode as shown in [Passcode](#).
6. When **SEND** shows, press **<ENTER>** to start the upload.
7. Wait for the upload process to finish (the display will show **END** before continuing or turning the products off).

The master and slaves will provide the status of the process by lighting up as follows:



- **Yellow indicates that the upload process is running.**
- **Green indicates that the upload process completed successfully.**
- **Red indicates that the upload process failed due to an error. Recheck all cable connections and restart the process. If the issue persists, contact Chauvet Technical Support.**



DO NOT upload the data from a Colorado™ 1-Quad Zoom Tour to a different product. The other product may become inoperative.

Reset This setting allows you to reset the Colorado™ 1-Quad Zoom Tour to the default values, including the custom programs.

1. Go to the **SET** main level.
2. Select **REST**.
3. When **PASS** shows, press **<ENTER>**.
4. Enter the master access passcode as described in [Passcode](#).
5. Wait for the reset process to finish.

Whites Setting This setting allows you to select and edit the temperature of the white colors used in channel 6 (Macros) when in the **TOUR** and **C1Q** mode, channel 11 when in the **TR16** and **STD.Y** mode, or channel 19 when in the **FULL** mode.

1. Go to the **CAL** main level.
2. Enter the master access passcode as described in [Passcode](#).
3. Go to **CAL1**.
4. Select a white color (**WH.01–11**).
5. Select a color (**RED, GREN, BLUE, or WHIT**).
6. Select a color value (**000–255**).
7. Repeat for the other colors.

Whites Setting Factory Reset This setting allows you to reset to factory default the white colors used in channel 6 (Macros) when in the **TOUR** and **C1Q** modes, channel 11 when in the **TR16** and **STD.Y** modes, or channel 19 when in the **FULL** mode.

1. Go to the **CAL** main level.
2. Enter the master access passcode as described in [Passcode](#).
3. Go to **CALR**.
4. Enter the master access passcode as described in [Passcode](#) again.

White Calibration This setting allows you to select the white color shown by the Colorado™ 1-Quad Zoom Tour when the color setting is **RGBW** and the DMX controller's red, green, and blue faders are set to **255**.

1. Go to the **CAL** main level.
2. Enter the master access passcode as described in [Passcode](#).
3. Go to **CAL2**.
4. Select a color (**RED, GREN, or BLUE**).
5. Select a color value (**000–255**).
6. Repeat for the other colors.



When selecting CAL > CAL2, you will only be able to define the values of RED, GREN (green), and BLUE.



The values of RED, GREN (green), and BLUE configured from CAL > CAL2 will define the color temperature shown when the RGB faders are set to 255 if SET > COLR > RGBW is active.

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

1. Go to the **STAT** main level.
2. Select the desired color or effect (**RED, GREN, BLUE, WHIT, STRB, or ZOOM**).
3. Select the color or effect value (**000–255** for colors and effect, or **00–20** for strobe).
4. Repeat for the other colors or effects.

Configuration (DMX)

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

DMX Personalities

This setting allows you to choose a particular DMX personality.

1. Go to the **PERS** main level.
2. Select the desired personality (**TOUR**, **TR16**, **STD.Y**, **FULL**, **C1Q**, **ARC.1**, **AR1.D**, **ARC.2**, **AR2.D**, **AR2.S**, **AR2.Z**, or **HSV**).



- See the **DMX Values** section for the highest starting address you can select for each personality.
- Make sure that the starting addresses on the various 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 Personalities](#).
2. Set the running mode:
 - a. Go to the **RUN** main level.
 - b. Select the **DMX** programming level.
3. Set the starting address:
 - a. Go to **ADDR** main level.
 - b. Select the starting address (**001–512**).

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



DMX Personality	DMX Address	DMX Personality	DMX Address	DMX Personality	DMX Address
TOUR	501	ARC.2	509	HSV	510
ARC.1	510	AR2.D	508	TR16	496
AR1.D	509	AR2.S	507	STD.Y	496
FULL	488	C1Q	503	AR2.Z	506

Loss Of Signal Setting

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

1. Go to the **SET** main level.
2. Select **DERR**.
 - a. Select **SAVE** to make the product use the last command used when the signal is lost.
 - b. Select **BLAK** to turn off the all the LEDs when the signal is lost.

Zoom Limit Settings

These settings allow you to select the zoom range. Basic zoom (**BASE**) is the default setting which allows the zoom to move at full range (**000–255**) and has no adjustable limit. Position 1 (**POS.1**) and Position 2 (**POS.2**) allow you to set limits on how far the zoom moves.

1. Set the zoom range to be used:
 - a. Go to the **SET** main level.
 - b. Select **ZOOM**.
 - c. Select **BASE**, **POS.1**, or **POS.2**.
2. Set the limit for zoom range **POS.1** or **POS.2**:
 - a. Go to the **ZOOM** main level.
 - b. Select **POS.1** or **POS.2**.
 - c. Select a zoom limit value (**P.000–255**).

DMX Values

TOUR

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ó 255	0–100%
2	Red	000 ó 255	0–100% (Step Duration if Custom 1–10 in CH. 8 is active)
3	Green	000 ó 255	0–100% (Fade Duration if Custom 1–10 in CH. 8 is active)
4	Blue	000 ó 255	0–100%
5	White	000 ó 255	0–100%
6	Color Macro + White Balance	000 ó 010	No function
		011 ó 030	R: 100% G: 0–100% B: 0
		031 ó 050	R: 100%–0 G: 100% B: 0
		051 ó 070	R: 0 G: 100% B: 0–100%
		071 ó 090	R: 0 G: 100%–0 B: 100%
		091 ó 110	R: 0–100% G: 0 B: 100%
		111 ó 130	R: 100% G: 0 B: 100%–0
		131 ó 150	R: 100% G: 0–100% B: 0–100%
		151 ó 170	R: 100%–0 G: 100%–0 B: 100%
		171 ó 200	R: 100% G: 100% B: 100% W: 100%
		201 ó 205	White 1
		206 ó 210	White 2
		211 ó 215	White 3
		216 ó 220	White 4
		221 ó 225	White 5
		226 ó 230	White 6
231 ó 235	White 7		
236 ó 240	White 8		
241 ó 245	White 9		
246 ó 250	White 10		
251 ó 255	White 11		
7	Strobe	000 ó 009	No function
		010 ó 255	0–20 Hz

DMX Values (Cont.)
**TOUR
(Cont.)**

Channel	Function	Value	Percent/Setting
8	Programs	000 ó 040	No function
		041 ó 050	Auto 1
		051 ó 060	Auto 2
		061 ó 070	Auto 3
		071 ó 080	Auto 4
		081 ó 090	Auto 5
		091 ó 100	Auto 6
		101 ó 110	Auto 7
		111 ó 120	Auto 8
		121 ó 130	Auto 9
		131 ó 140	Auto 10
		141 ó 150	Custom 1
		151 ó 160	Custom 2
		161 ó 170	Custom 3
		171 ó 180	Custom 4
		181 ó 190	Custom 5
		191 ó 200	Custom 6
201 ó 210	Custom 7		
211 ó 220	Custom 8		
221 ó 230	Custom 9		
231 ó 255	Custom 10		
9	Auto Speed	000 ó 255	0–100% (only when using Auto 1–10 in CH. 8)
10	Dimmer Speed	000 ó 009	Preset dimmer speed from display menu
		010 ó 029	Linear dimmer
		030 ó 069	Nonlinear dimming curve 1 (fastest)
		070 ó 129	Nonlinear dimming curve 2
		130 ó 189	Nonlinear dimming curve 3
190 ó 255	Nonlinear dimming curve 4 (slowest)		
11	Zoom	000 ó 255	0–100%
12	Zoom Reset	000 ó 200	No function
		201 ó 220	Zoom reset
		221 ó 255	No function

ARC.1

Channel	Function	Value	Percent/Setting
1	Red	000 ó 255	0–100%
2	Green	000 ó 255	0–100%
3	Blue	000 ó 255	0–100%

DMX Values (Cont.)

AR1.D	Channel	Function	Value	Percent/Setting
	1	Dimmer	000 ó 255	0–100%
	2	Red	000 ó 255	0–100%
	3	Green	000 ó 255	0–100%
	4	Blue	000 ó 255	0–100%

ARC.2	Channel	Function	Value	Percent/Setting
	1	Red	000 ó 255	0–100%
	2	Green	000 ó 255	0–100%
	3	Blue	000 ó 255	0–100%
	4	White	000 ó 255	0–100%

AR2.D	Channel	Function	Value	Percent/Setting
	1	Dimmer	000 ó 255	0–100%
	2	Red	000 ó 255	0–100%
	3	Green	000 ó 255	0–100%
	4	Blue	000 ó 255	0–100%
	5	White	000 ó 255	0–100%

AR2.S	Channel	Function	Value	Percent/Setting
	1	Dimmer	000 ó 255	0–100%
	2	Red	000 ó 255	0–100%
	3	Green	000 ó 255	0–100%
	4	Blue	000 ó 255	0–100%
	5	White	000 ó 255	0–100%
	6	Strobe	000 ó 255	0–20 Hz

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

DMX Values (Cont.)

TR16

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ó 255	0–100%
2	Fine Dimmer	000 ó 255	Fine control (16-bit) (Step Duration if Custom 1–10 in CH. 13 is active)
3	Red	000 ó 255	0–100% (Fade Duration if Custom 1–10 in CH. 13 is active)
4	Fine Red	000 ó 255	Fine control (16-bit)
5	Green	000 ó 255	0–100%
6	Fine Green	000 ó 255	Fine control (16-bit)
7	Blue	000 ó 255	0–100%
8	Fine Blue	000 ó 255	Fine control (16-bit)
9	White	000 ó 255	0–100%
10	Fine White	000 ó 255	Fine control (16-bit)
11	Color Macro + White Balance	000 ó 010	No function
		011 ó 030	R: 100% G: 0–100% B: 0
		031 ó 050	R: 100%–0 G: 100% B: 0
		051 ó 070	R: 0 G: 100% B: 0–100%
		071 ó 090	R: 0 G: 100%–0 B: 100%
		091 ó 110	R: 0–100% G: 0 B: 100%
		111 ó 130	R: 100% G: 0 B: 100%–0
		131 ó 150	R: 100% G: 0–100% B: 0–100%
		151 ó 170	R: 100%–0 G: 100%–0 B: 100%
		171 ó 200	R: 100% G: 100% B: 100% W: 100%
		201 ó 205	White 1
		206 ó 210	White 2
		211 ó 215	White 3
		216 ó 220	White 4
		221 ó 225	White 5
		226 ó 230	White 6
231 ó 235	White 7		
236 ó 240	White 8		
241 ó 245	White 9		
246 ó 250	White 10		
251 ó 255	White 11		
12	Strobe	000 ó 009	No function
		010 ó 255	0–20 Hz

DMX Values (Cont.)

TR16
(Cont.)

Channel	Function	Value	Percent/Setting
13	Programs	000 ó 040	No function
		041 ó 050	Auto 1
		051 ó 060	Auto 2
		061 ó 070	Auto 3
		071 ó 080	Auto 4
		081 ó 090	Auto 5
		091 ó 100	Auto 6
		101 ó 110	Auto 7
		111 ó 120	Auto 8
		121 ó 130	Auto 9
		131 ó 140	Auto 10
		141 ó 150	Custom 1
		151 ó 160	Custom 2
		161 ó 170	Custom 3
		171 ó 180	Custom 4
		181 ó 190	Custom 5
191 ó 200	Custom 6		
201 ó 210	Custom 7		
211 ó 220	Custom 8		
221 ó 230	Custom 9		
231 ó 255	Custom 10		
14	Auto Speed	000 ó 255	0–100% (only when using Auto 1–10 in CH. 13)
15	Dimmer Speed	000 ó 009	Preset dimmer speed from display menu
		010 ó 029	Linear dimmer
		030 ó 069	Nonlinear dimming curve 1 (fastest)
		070 ó 129	Nonlinear dimming curve 2
		130 ó 189	Nonlinear dimming curve 3
190 ó 255	Nonlinear dimming curve 4 (slowest)		
16	Zoom	000 ó 255	0–100%
17	Zoom Reset	000 ó 200	No function
		201 ó 220	Zoom reset
		221 ó 255	No function

AR2.Z

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ó 255	0–100%
2	Red	000 ó 255	0–100%
3	Green	000 ó 255	0–100%
4	Blue	000 ó 255	0–100%
5	White	000 ó 255	0–100%
6	Zoom	000 ó 255	0–100%
7	Zoom Reset	000 ó 200	No function
		201 ó 220	Zoom reset
		221 ó 255	No function

DMX Values (Cont.)

STD.Y

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ó 255	0–100%
2	Fine Dimmer	000 ó 255	Fine control (16-bit) (Step Duration if Custom 1–10 in CH. 13 is active)
3	Red	000 ó 255	0–100% (Fade Duration if Custom 1–10 in CH. 13 is active)
4	Fine Red	000 ó 255	Fine control (16-bit)
5	Green	000 ó 255	0–100%
6	Fine Green	000 ó 255	Fine control (16-bit)
7	Blue	000 ó 255	0–100%
8	Fine Blue	000 ó 255	Fine control (16-bit)
9	White	000 ó 255	0–100%
10	Fine White	000 ó 255	Fine control (16-bit)
11	Color Macro + White Balance	000 ó 010	No function
		011 ó 030	R: 100% G: 0–100% B: 0
		031 ó 050	R: 100%–0 G: 100% B: 0
		051 ó 070	R: 0 G: 100% B: 0–100%
		071 ó 090	R: 0 G: 100%–0 B: 100%
		091 ó 110	R: 0–100% G: 0 B: 100%
		111 ó 130	R: 100% G: 0 B: 100%–0
		131 ó 150	R: 100% G: 0–100% B: 0–100%
		151 ó 170	R: 100%–0 G: 100%–0 B: 100%
		171 ó 200	R: 100% G: 100% B: 100% W: 100%
		201 ó 205	White 1
		206 ó 210	White 2
		211 ó 215	White 3
		216 ó 220	White 4
		221 ó 225	White 5
		226 ó 230	White 6
231 ó 235	White 7		
236 ó 240	White 8		
241 ó 245	White 9		
246 ó 250	White 10		
251 ó 255	White 11		
12	Strobe	000 ó 009	No function
		010 ó 255	0–20 Hz

DMX Values (Cont.)

STD.Y
(Cont.)

Channel	Function	Value	Percent/Setting
13	Programs	000 ó 040	No function
		041 ó 050	Auto 1
		051 ó 060	Auto 2
		061 ó 070	Auto 3
		071 ó 080	Auto 4
		081 ó 090	Auto 5
		091 ó 100	Auto 6
		101 ó 110	Auto 7
		111 ó 120	Auto 8
		121 ó 130	Auto 9
		131 ó 140	Auto 10
		141 ó 150	Custom 1
		151 ó 160	Custom 2
		161 ó 170	Custom 3
		171 ó 180	Custom 4
		181 ó 190	Custom 5
191 ó 200	Custom 6		
201 ó 210	Custom 7		
211 ó 220	Custom 8		
221 ó 230	Custom 9		
231 ó 255	Custom 10		
14	Auto Speed	000 ó 255	0–100% (only when using Auto 1–10 in CH. 13)
15	Dimmer Speed	000 ó 009	Preset dimmer speed from display menu
		010 ó 029	Linear dimmer
		030 ó 069	Nonlinear dimming curve 1 (fastest)
		070 ó 129	Nonlinear dimming curve 2
		130 ó 189	Nonlinear dimming curve 3
190 ó 255	Nonlinear dimming curve 4 (slowest)		
16	Zoom	000 ó 255	0–100%
17	Zoom Reset	000 ó 200	No function
		201 ó 220	Zoom reset
		221 ó 255	No function

DMX Values (Cont.)

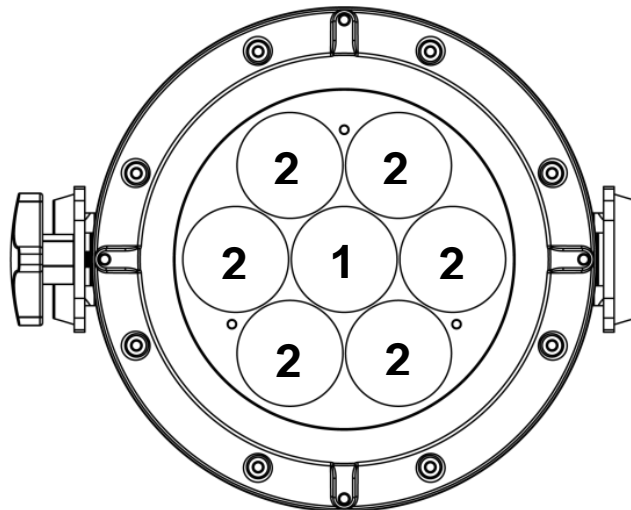
FULL	Channel	Function	Value	Percent/Setting
	1	Dimmer	000 ó 255	0–100%
	2	Fine Dimmer	000 ó 255	Fine control (16-bit) (Step Duration if Custom 1–10 in CH. 21 is active)
	3	Red 1	000 ó 255	0–100% (Fade Duration if Custom 1–10 in CH. 21 is active)
	4	Fine Red 1	000 ó 255	Fine control (16-bit)
	5	Green 1	000 ó 255	0–100%
	6	Fine Green 1	000 ó 255	Fine control (16-bit)
	7	Blue 1	000 ó 255	0–100%
	8	Fine Blue 1	000 ó 255	Fine control (16-bit)
	9	White 1	000 ó 255	0–100%
	10	Fine White 1	000 ó 255	Fine control (16-bit)
	11	Red 2	000 ó 255	0–100%
	12	Fine Red 2	000 ó 255	Fine control (16-bit)
	13	Green 2	000 ó 255	0–100%
	14	Fine Green 2	000 ó 255	Fine control (16-bit)
	15	Blue 2	000 ó 255	0–100%
	16	Fine Blue 2	000 ó 255	Fine control (16-bit)
	17	White 2	000 ó 255	0–100%
	18	Fine White 2	000 ó 255	Fine control (16-bit)
	19	Color Macro + White Balance	000 ó 010	No function
			011 ó 030	R: 100% G: 0–100% B: 0
			031 ó 050	R: 100%–0 G: 100% B: 0
			051 ó 070	R: 0 G: 100% B: 0–100%
			071 ó 090	R: 0 G: 100%–0 B: 100%
			091 ó 110	R: 0–100% G: 0 B: 100%
			111 ó 130	R: 100% G: 0 B: 100%–0
			131 ó 150	R: 100% G: 0–100% B: 0–100%
			151 ó 170	R: 100%–0 G: 100%–0 B: 100%
			171 ó 200	R: 100% G: 100% B: 100% W: 100%
			201 ó 205	White 1
			206 ó 210	White 2
			211 ó 215	White 3
			216 ó 220	White 4
	221 ó 225	White 5		
	226 ó 230	White 6		
	231 ó 235	White 7		
	236 ó 240	White 8		
	241 ó 245	White 9		
	246 ó 250	White 10		
	251 ó 255	White 11		
	20	Strobe	000 ó 009 010 ó 255	No function 0–20 Hz

DMX Values (Cont.)

FULL
(Cont.)

Channel	Function	Value	Percent/Setting
21	Programs	000 ó 040	No function
		041 ó 050	Auto 1
		051 ó 060	Auto 2
		061 ó 070	Auto 3
		071 ó 080	Auto 4
		081 ó 090	Auto 5
		091 ó 100	Auto 6
		101 ó 110	Auto 7
		111 ó 120	Auto 8
		121 ó 130	Auto 9
		131 ó 140	Auto 10
		141 ó 150	Custom 1
		151 ó 160	Custom 2
		161 ó 170	Custom 3
		171 ó 180	Custom 4
		181 ó 190	Custom 5
191 ó 200	Custom 6		
201 ó 210	Custom 7		
211 ó 220	Custom 8		
221 ó 230	Custom 9		
231 ó 255	Custom 10		
22	Auto Speed	000 ó 255	0–100% (only when using Auto 1–10 in CH. 21)
23	Dimmer Speed	000 ó 009	Preset dimmer speed from display menu
		010 ó 029	Linear dimmer
		030 ó 069	Nonlinear dimming curve 1 (fastest)
		070 ó 129	Nonlinear dimming curve 2
		130 ó 189	Nonlinear dimming curve 3
190 ó 255	Nonlinear dimming curve 4 (slowest)		
24	Zoom	000 ó 255	0–100%
25	Zoom Reset	000 ó 200	No function
		201 ó 220	Zoom reset
		221 ó 255	No function

COLORado™ 1-Quad Zoom Tour Pixel Selection for DMX Control



DMX Values (Cont.)

C1Q	Channel	Function	Value	Percent/Setting
	1	Dimmer	000 ó 255	0–100%
	2	Red	000 ó 255	0–100% (Step Duration if Custom 1–10 in CH. 8 is active)
	3	Green	000 ó 255	0–100% (Fade Duration if Custom 1–10 in CH. 8 is active)
	4	Blue	000 ó 255	0–100%
	5	White	000 ó 255	0–100%
	6	Color Macro + White Balance	000 ó 010	No function
			011 ó 030	R: 100% G: 0–100% B: 0
			031 ó 050	R: 100%–0 G: 100% B: 0
			051 ó 070	R: 0 G: 100% B: 0–100%
			071 ó 090	R: 0 G: 100%–0 B: 100%
			091 ó 110	R: 0–100% G: 0 B: 100%
			111 ó 130	R: 100% G: 0 B: 100%–0
			131 ó 150	R: 100% G: 0–100% B: 0–100%
			151 ó 170	R: 100%–0 G: 100%–0 B: 100%
			171 ó 200	R: 100% G: 100% B: 100% W: 100%
			201 ó 205	White 1
			206 ó 210	White 2
			211 ó 215	White 3
			216 ó 220	White 4
	221 ó 225	White 5		
	226 ó 230	White 6		
	231 ó 235	White 7		
	236 ó 240	White 8		
	241 ó 245	White 9		
	246 ó 250	White 10		
	251 ó 255	White 11		
	7	Strobe	000 ó 009	No function
			010 ó 255	0–20 Hz

DMX Values (Cont.)

C1Q (Cont.)	Channel	Function	Value	Percent/Setting
	8	Programs	000 ó 040	No function
			041 ó 050	Auto 1
			051 ó 060	Auto 2
			061 ó 070	Auto 3
			071 ó 080	Auto 4
			081 ó 090	Auto 5
			091 ó 100	Auto 6
			101 ó 110	Auto 7
			111 ó 120	Auto 8
			121 ó 130	Auto 9
			131 ó 140	Auto 10
			141 ó 150	Custom 1
			151 ó 160	Custom 2
			161 ó 170	Custom 3
			171 ó 180	Custom 4
			181 ó 190	Custom 5
			191 ó 200	Custom 6
			201 ó 210	Custom 7
			211 ó 220	Custom 8
			221 ó 230	Custom 9
231 ó 255	Custom 10			
	9	Auto Speed	000 ó 255	0–100% (only when using Auto 1–10 in CH. 8)
	10	Dimmer Speed	000 ó 009	Preset dimmer speed from display menu
			010 ó 029	Linear dimmer
			030 ó 069	Nonlinear dimming curve 1 (fastest)
			070 ó 129	Nonlinear dimming curve 2
			130 ó 189	Nonlinear dimming curve 3
			190 ó 255	Nonlinear dimming curve 4 (slowest)

5. TECHNICAL INFORMATION

Product Maintenance

To maintain optimum performance and minimize wear, you should clean this product frequently. Usage and environment are contributing factors in determining the cleaning frequency.

As a rule, clean this product at least twice a month. Dust build-up reduces light output performance and can cause overheating. This can lead to reduced light source life and increased mechanical wear.

To clean your product:

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



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

6. TECHNICAL SPECIFICATIONS

Dimensions and Weight	Length	Width	Height	Weight
	13.14 in (334 mm)	9.25 in (235 mm)	7.48 in (190 mm)	14.8 lb (6.7 kg)
Note: Dimensions in inches rounded to the nearest decimal digit.				
Power	Power Supply Type	Range	Voltage Selection	
	Switching (internal)	100–240 VAC, 50/60 Hz	Auto-ranging	
	Parameter	120 VAC, 60 Hz	230 VAC, 50 Hz	
	Consumption	129 W	124 W	
	Current	1.08 A	0.57 A	
	Power linking current (products)	13.6 A (12 products)	13.6 A (23 products)	
	Power I/O	U.S./Canada	Worldwide	
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	7	1,000 mA	
Photometrics	Parameter	Standard Optics		
	Illuminance @ 5 m (16°)	3,950 lux		
	Illuminance @ 5 m (48°)	330 lux		
	Beam angle	7° to 29°		
	Field/Zoom angle	16° to 48°		
Thermal	Max. External Temperature	Cooling System		
	113 °F (45 °C)	Convection		
DMX	I/O Connectors	Connector Type	Channel Range	
	3- and 5-pin XLR	Sockets	3, 4, 5, 6, 7, 10, 12, 17 or 25	
Ordering	Product Name	Item Code	UPC Number	
	Colorado™ 1-Quad Zoom Tour	01030456	781462208080	



UL 1573
CSA C22.2 No. 166
E113093



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 is recommended.



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

CONTACT Us

WORLD HEADQUARTERS - Chauvet

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