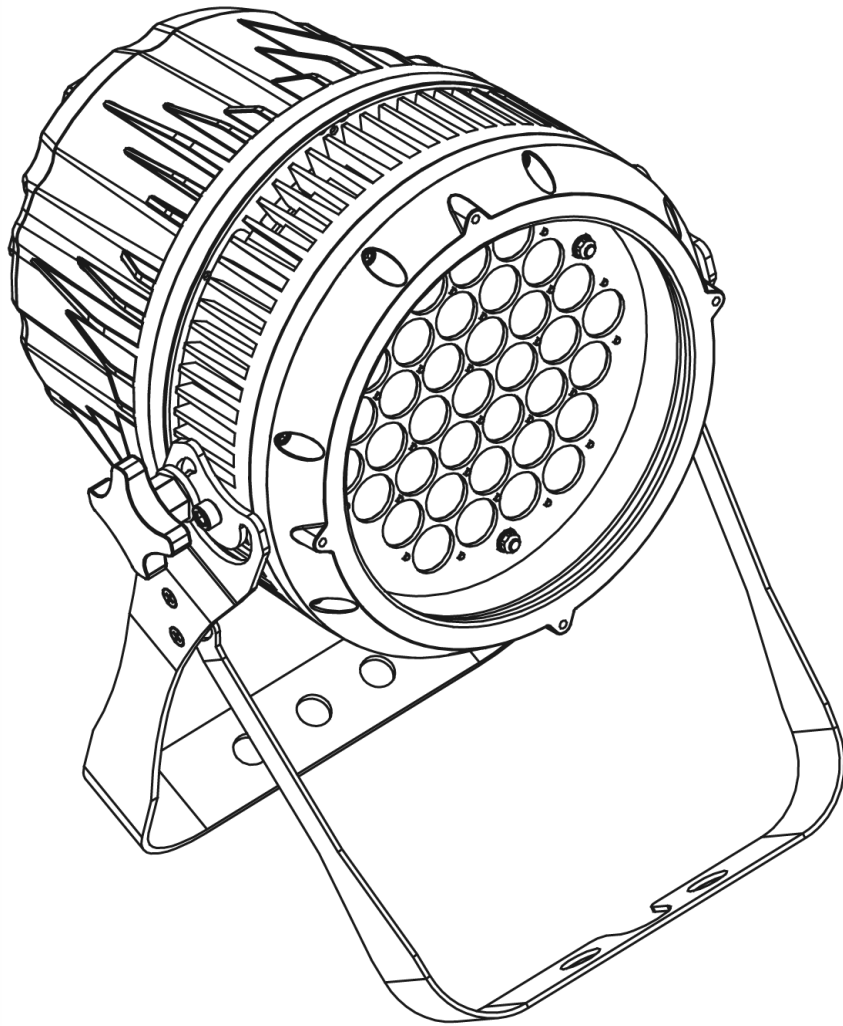


COLORADO™ ZOOM  
TOUR

User Manual



**CHAUVET®**  
*It's Green Thinking®*

## Edition Notes

The COLORado™ Zoom Tour User Manual Rev. 11 covers the description, safety precautions, installation, programming, operation, and maintenance of the COLORado™ Zoom Tour. CHAUVET® released this edition of the COLORado™ Zoom Tour User Manual in February 2012.

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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 read the guide that shipped with it and this manual before installing, operating, or maintaining this product.

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## Document Revision

The COLORado™ Zoom Tour User Manual Rev. 11 supersedes all previous versions of this manual. Please discard any older versions of this manual you may have, whether in printed or electronic format, and replace them with this version.

Author	Date	Editor	Date
D. Coupe	2/17/12	S. Graham	2/23/12

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# 1. Before You Begin

## What Is Included

- One COLORado™ Zoom Tour
- One Gel Frame
- One Neutrik® powerCON® to Edison Plug Input Power Cord
- One Safety Cable
- One Warranty Card
- One Quick Reference Guide

## Unpacking Instructions

Immediately upon receiving this product, carefully unpack it and check the container in which you received it. Make sure that you have received all the parts indicated above and that they are all in good condition. If the material inside the container (this product and any other accessory included with it) appears damaged from shipping, or if the container shows signs of mishandling, notify the shipper immediately. In addition, retain the container and all the packing material for inspection.

See the [Claims](#) section in the *Technical Information* chapter for more information.

## Typographic Conventions

Convention	Meaning
1~512	A range of values in the text
50/60	A set of mutually exclusive values in the text
COLORado™ 1	The name of another publication, manual, or section
<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

## Icon Meaning

Icon	Meaning
	Critical installation, configuration, or operation information. Failure to comply with this information may render the product partially or completely inoperative, damage third-party equipment, or cause harm to the user.
	Important installation or configuration information. Failure to comply with this information may prevent the product from functioning correctly.
	Useful non-critical information.



The term “DMX” used throughout this document refers to the USITT DMX512-A transmission protocol.

## Product at a Glance

Use on Dimmer		Auto Programs	
Outdoor Use		Auto-ranging Power Supply	
Sound Activated		Replaceable Fuse	
DMX		User Serviceable	
Master/Slave		Duty Cycle	

## Safety Notes

It is important to read all these notes before starting to work with this product. The Safety Notes include important safety information about the installation, usage, and maintenance of this product.



**There are no user-serviceable parts inside this product. Any reference to servicing in this User Manual applies only to properly CHAUVET® certified technicians. Do not open the housing or attempt any repairs unless you are certified to do so.**



**Please refer to all applicable local codes and regulations for the 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 when operating because it may be very hot.

### Mounting and Rigging

- This product is for indoor use only! To prevent risk of fire or shock, do not expose this product to rain or moisture.
- Make sure there are no flammable materials close to this product while operating.
- When hanging this product, always secure it to a fastening device using a safety cable (included).

### Power and Wiring

- Always make sure that you are connecting this product to the proper voltage, as per the specifications in this manual or on the product's sticker.
- 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.
- Do not cover the ventilation slots when this 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 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

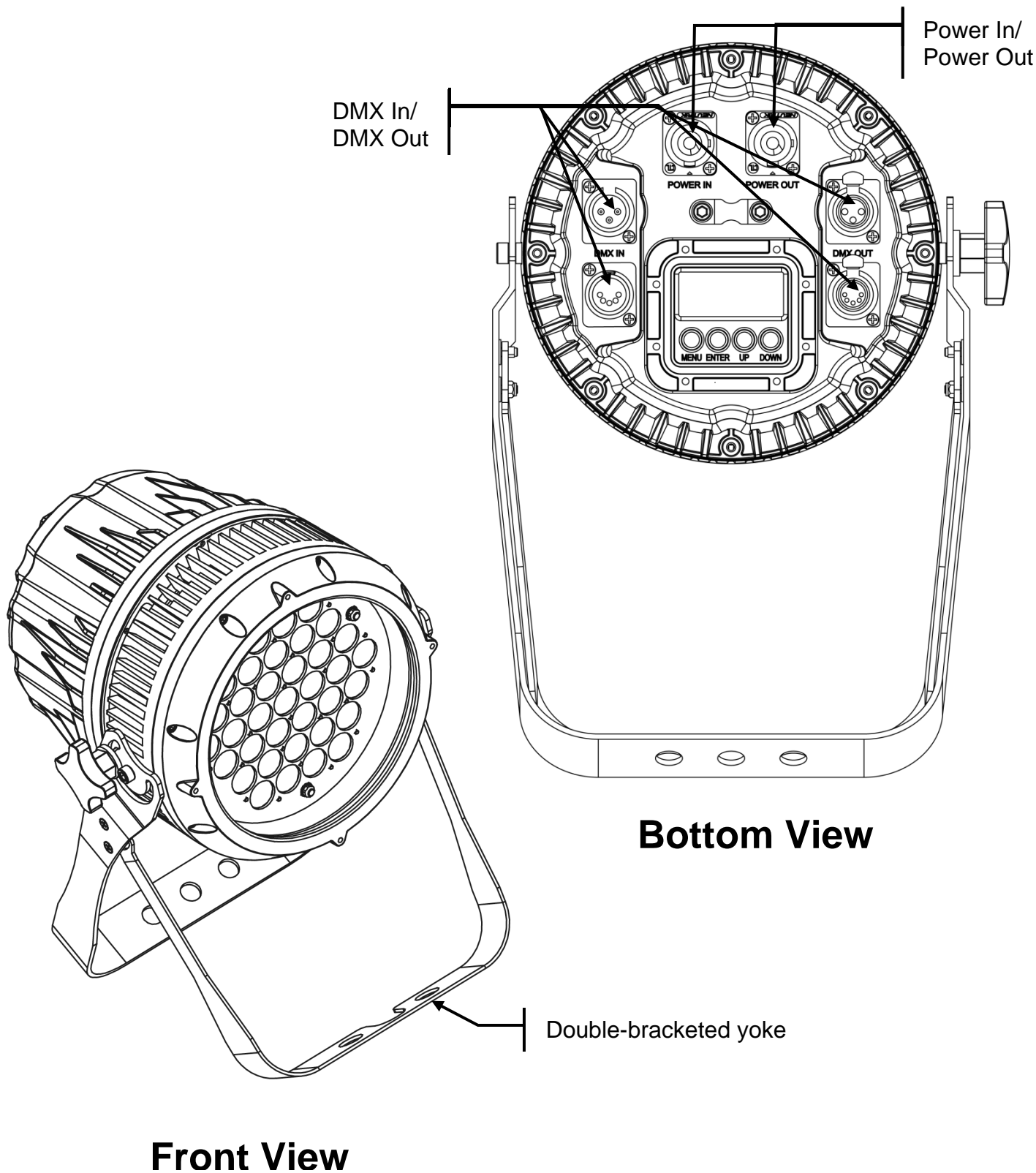
### Product Description

The COLORado™ Zoom Tour is an RGBW LED wash product. 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™ Zoom Tour features a variable zoom, which enables the user to change the beam angle of the product via DMX or control panel, and one mounting bracket that doubles as a floor mount and hanging support bracket.

### Features

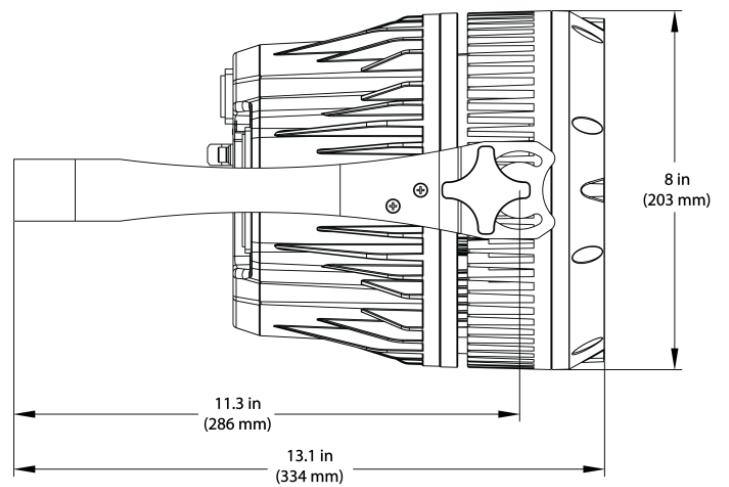
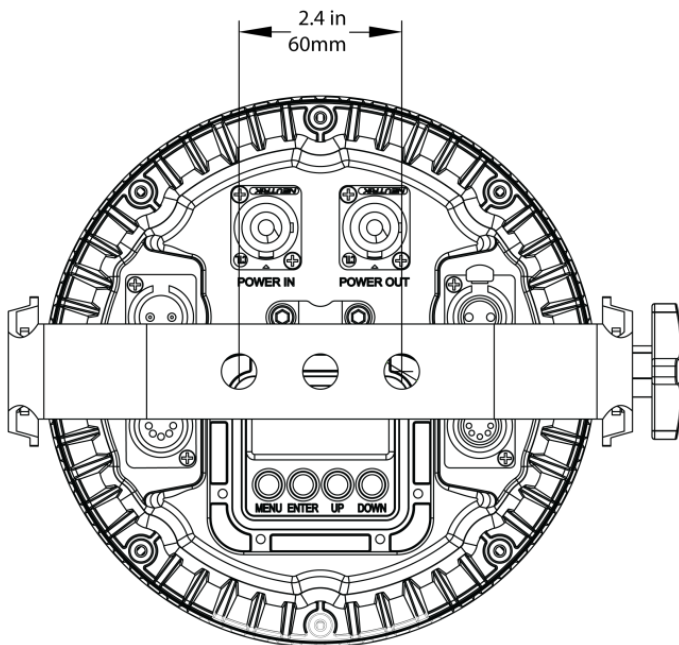
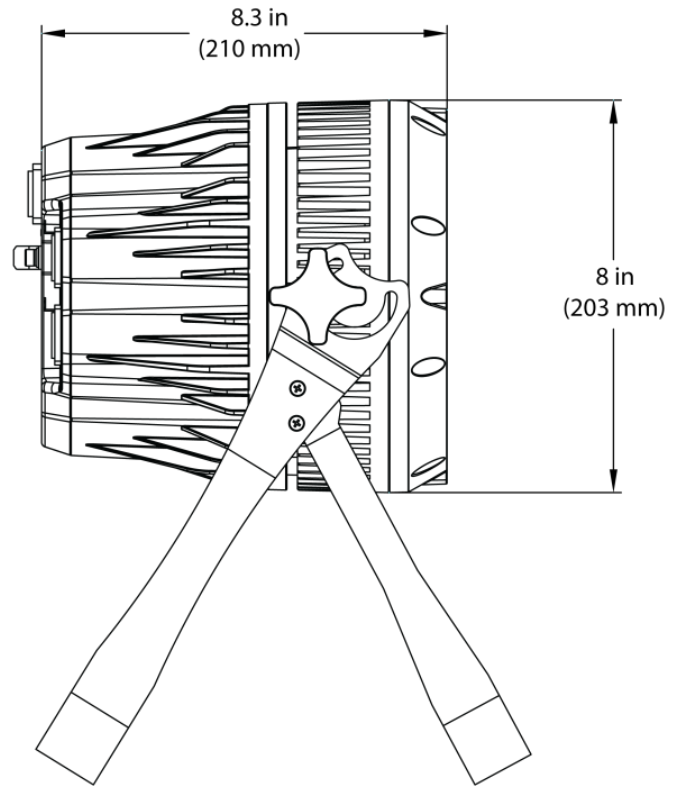
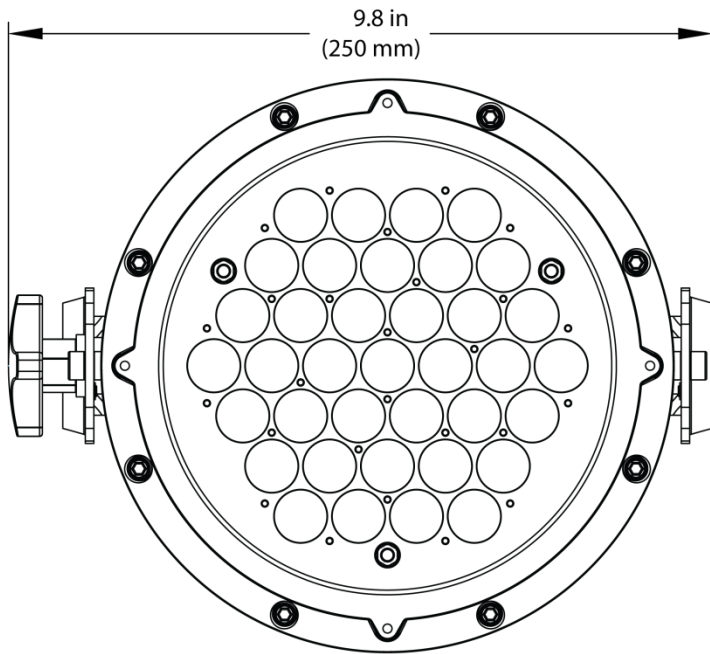
- DMX channels: 3, 4, 5, 6, or 12
- Operating modes:
  - 3-channel: Red, Green, Blue
  - 3-channel: Hue, Saturation, Value
  - 4-channel: Dimmer, Red, Green, Blue
  - 4-channel: Red, Green, Blue, White
  - 5-channel: Dimmer, Red, Green, Blue, White
  - 6-channel: Dimmer, Red, Green, Blue, White, Strobe
  - 12-channel: Dimmer, Red, Green, Blue, White, Color Macro, Strobe, Auto programs, Auto Speed Adjust, Dimmer Speed, Zoom, Zoom Reset
- RGBW color mixing and zoom with or without DMX control
- 8°~27.5° zoom control with or without DMX control
- 11 color temperature presets
- Built-in automated programs via master/slave or DMX
- Recall custom programs via master/slave or DMX
- Five distinct dimming curves
- RGBW LEDs
- Electronic dimmer
- Color macros with speed adjustment included
- Electronic power supply
- Neutrik® powerCon® connectors
- 3-pin and 5-pin DMX input and output connectors
- Additional power output: max 7 products @ 120 V
- LED display with password protection
- Gel frame holder (4 mm max thickness)
- Double-bracketed yoke doubles as floor stand
- Color calibration
- Flicker-free operation for HD Video

### Product Overview





### Product Dimensions



### 3. Setup

#### AC Power

The COLORado™ Zoom Tour has an auto-ranging power supply that can work with an input voltage range of 100~240 VAC, 50/60 Hz.

Make sure that you are connecting this product to the proper voltage, as per the [Technical Specifications](#) in this manual or on the product's sticker.



**Always connect this product to a protected circuit with an appropriate electrical ground to avoid the risk of electrocution or fire.**

To determine the power requirements for the COLORado™ Zoom Tour, refer to the label affixed to the side of the product. Alternatively, you may refer to the [Technical Specifications](#) chart.

The listed current rating indicates the maximum current draw during normal operation. For more information, download Sizing the Circuit Breakers from: [www.chauvetpro.com](http://www.chauvetpro.com).



**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™ 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 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™ Zoom Tour supports power linking for up to 7 other COLORado™ Zoom Tour products at 120 VAC, 12 at 208 VAC, or 14 products at 230 VAC. This product comes with a power input cord, but no power linking cord. However, a power linking cable is available as an option.

## DMX Linking

You may link the COLORado™ Zoom Tour to a DMX controller using a standard DMX serial connection. If using other DMX compatible products with this product, you can control them individually with a single DMX controller.

If you are not familiar with the DMX standard, or if you need information about the DMX cables needed to link this product to a DMX controller, download the DMX Primer from [www.chauvetpro.com](http://www.chauvetpro.com).

## DMX Modes

The COLORado™ Zoom Tour uses the standard DMX data connection for its **TOUR**, **ARC.1**, **AR1.D**, **ARC.2**, **AR2.D**, **AR2.S**, and **HSV** DMX modes. You will find information about these DMX mode(s) in the *Introduction* chapter (brief description), the [Operation](#) chapter (configuration details), and the [DMX Values](#) section (individual channel values).

## Master/Slave Connectivity

The Master/Slave mode allows a COLORado™ Zoom Tour (the “master product”) to control one or more COLORado™ Zoom Tours (the “slave products”) without a DMX controller. A COLORado™ Zoom Tour becomes the master product when running an Auto or Custom program, or by being in **STAT** mode. You must configure the slave products to operate in “SLAVE” mode from their respective control panels. During the Master/Slave operation, the slave products will operate in unison with the master product.



**DO NOT connect a DMX controller to the product’s operating in Master/Slave mode. Otherwise, the signals from the DMX controller may interfere with the signals from the master product.**



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

## Mounting

Before mounting this product, read and follow the safety recommendations indicated in the [Safety Notes](#) section.

## Orientation

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

## Rigging

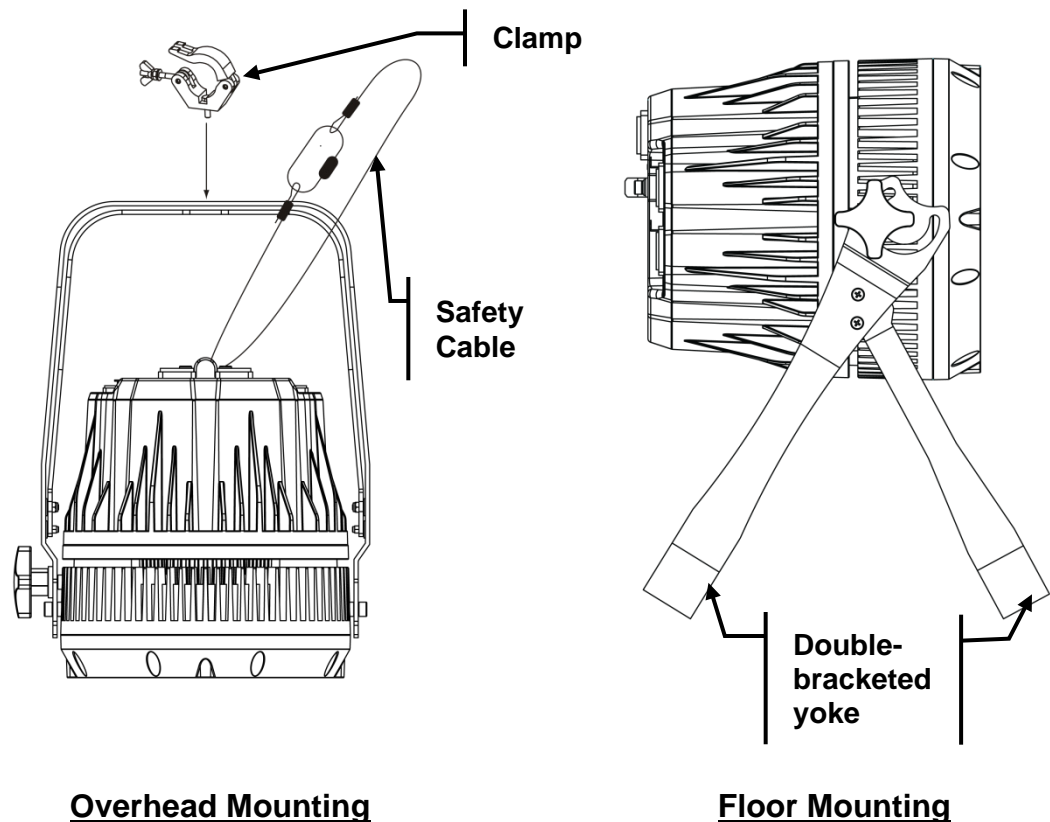
The COLORado™ Zoom Tour consists of the double-bracketed yoke and the body of the product. CHAUVET® recommends following the general guidelines below when mounting this product.

- When selecting an installation location, consider ease of access to this product for operation, programming adjustments, and routine maintenance.
- Make sure to mount this product away from any flammable material as indicated in the [Safety Notes](#) section.
- Never mount the product in places where rain, high humidity, extreme temperature changes, or restricted ventilation may affect it.
- If hanging this product, make sure that the location where you are mounting it can support its weight and always secure it to a fastening device using a safety cable (included). Please refer to the [Technical Specifications](#) for the weight requirements of this product.

## Procedure

The COLORado™ Zoom Tour comes with a double-bracketed yoke to which you can attach mounting clamps or the yolk can serve as floor stand. You must supply your own mounting clamps. Make sure the clamps are capable of supporting the weight of this product. You will have to use at least one mounting point per product.

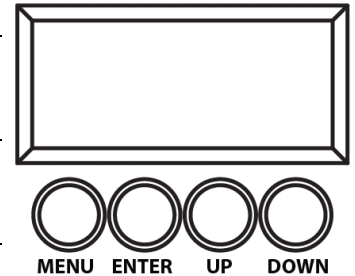
Product Mounting  
Diagram



## 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 into the current function
<UP>	Navigates upward through the menu list and increases the numeric value when in a function
<DOWN>	Navigates downward through the menu list and decreases the numeric value when in a function



### Control Options

You can set the COLORado™ Zoom Tour start address in the 001~512 DMX range. This allows for the control of up to 42 products in the 12-channel TOUR personality.

### Programming

Refer to the [Menu Map](#) to learn how the menu options relate to each other. The Menu Map has a Main Level and a variable number of programming levels for each option.

- To go to an option in the Main Level, press <MENU> repeatedly until the option appears on the display. Press <ENTER> to select. You will go to the first programming level for that option.
- To select an option or value within the current programming level, press <UP> or <DOWN> until shown on the display. Press <ENTER> to select. If there is another programming level, you will see the level's first option. If not, you will see the selected value.
- To exit to the previous menu level, press <MENU>.

### DMX Personality

This setting allows the user to choose a particular DMX personality.

1. Go to **PERS**.
2. Select the desired personality (**TOUR**, **ARC.1**, **AR1.D**, **ARC.2**, **AR2.D**, **AR2.S**, 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. See the [DMX Values](#) section.

### 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 **RUN**.
  - b. Select **DMX**.
3. Set the starting address:
  - a. Go to **DMX**.
  - b. Select the starting address (**001~512**).

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



DMX Mode	DMX Address	DMX Mode	DMX Address	DMX Mode	DMX Address
<b>TOUR</b>	501	<b>ARC.2</b>	509	<b>HSV</b>	510
<b>ARC.1</b>	510	<b>AR2.D</b>	508		
<b>AR1.D</b>	509	<b>AR2.S</b>	507		

### 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, then 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 LED's when the signal is lost.
2. Set the master product:
  - 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.

### Zoom Limit Setting

This setting allows you to limit the zoom range using 3 different modes.

Basic mode is the default setting and allows the zoom to be moved full range (**0~255**) and has no adjustable limit.

Position 1 and Position 2 modes allow you to set limits on how far the zoom moves.

1. Set the mode to be used:
  - a. Go to the **SET** main level.
  - b. Select **ZOOM**
  - c. Select a mode (**BASE, POS.1, or POS.2**).
2. Set the limit for each mode:
  - a. Go to the **CAL** main level.
  - b. Enter the master access password as described in [Control Panel Lock](#)
  - c. When **CAL** shows, press **<UP>**.
  - d. Go to the **ZOOM**.
  - e. Select a mode (**POS.1 or POS.2**).
  - f. Select a zoom limit value (**P.000~255**).

### Static Color

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

1. Go to **STAT**.
2. Select the desired color (**R., G., B., W., or Z.**).
3. Select the desired color and zoom value (**000~255**).
4. Select (**S.**)
5. Select the desired frequency (**00~20**).

### Auto Programs

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

1. Go to **AUTO**.
2. Select the desired auto (**AT 01~10**) or custom program (**PR. C1~10**).



**You cannot edit any of the auto programs (AT. 01~10). However, you can edit the custom programs (PR. C1~10). See [Edit Customs](#) for details.**

### Edit Customs

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

1. Go to **EDIT**.
2. Select the desired custom program (**PR. C1~10**).
3. Select the desired scene (**SC. 01~30**).
4. Select the desired color or effect (**R, G, B, W, Z, S, T, or F**).
5. Select the color or effect value (**000~255**) for colors, zoom, and timers, or (**00~20**) for strobe).
6. Repeat for the other colors or effects.
7. Return to the scene level (step 3).
8. Repeat the settings of colors and effects for the other scenes.

## Master/Slave

The Master/Slave mode allows a group of COLORado™ Zoom Tours (the slave products) to simultaneously duplicate the output of another COLORado™ Zoom Tour (the master product) without a DMX controller.

1. Set each of the slave products:
  - a. Go to **RUN**.
  - b. Select **SLAV**.
2. Set the master product:
  - 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 product is the one that runs a program, whether Auto, Custom, or Static mode.**
- **Do not connect a DMX controller to the products configured for Master/Slave operation.**
- **The master product should be the first in the DMX string.**



## Color Settings

The **COLOR** setting determines how the COLORado™ Zoom Tour generates the white color based on various RGB settings.

1. Go to **SET**.
2. Select **COLO**.
3. Select **OFF**, **RGBW**, or **UC**.

**OFF:** When the RGB faders are all set to 255, the output is maximum, although the resulting white color may not be balanced.

**RGBW:** When the RGB faders are all set to 255, the resulting output is defined by the configured white color (see White s Settings).

**UC:** When the RGB faders are all set to 255, the output matches that of less efficient products (Universal Color).



## Dimmer Curves

This setting determines how fast the output of the COLORado™ Zoom Tour changes when the operator modifies the values of the Red, Green, Blue, White, and Dimmer faders. This setting gives the user four different options to simulate the dimming curve of an incandescent lighting product.

1. Go to **SET**.
2. Select **DIM**.
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** is the fastest and **DIM4** is the slowest.





## Control Panel Lock

This setting allows the user to activate or disable the control panel lock, which keeps non-authorized personnel from changing the product's settings.

1. Go to **KEY**.
2. Select **ON** or **OFF**.



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

After being prompted to enter the password:

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

## Program Upload

This option allows the user to copy the custom programs of one COLORado™ Zoom Tour product onto other COLORado™ Zoom Tour products by using the Master/Slave mode.

1. Configure and connect the products in a Master/Slave arrangement, where the master product has the custom programs you want to transfer to the slave products.
2. At the master product, go to **SET**.
3. Select **UPLD**.
4. When **PASS** shows, press **<ENTER>**.
5. Enter the master access password as shown in Control Panel Lock.
6. When **SEND** shows, press **<ENTER>** to start the upload.
7. Wait for the upload process to finish (the display will show **END/MAIN**) before continuing or turning the products off.

The master and slave products will light up to provide the status of the process, 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 program from a COLORado™ Zoom Tour to a different product. You could render the other product inoperative.

**Reset** This setting allows the user to reset the COLORado™ Zoom Tour to its default values, including the custom programs.

1. Go to **SET**.
2. Select **REST**.
3. When **PASS** shows, press **<ENTER>**.
4. Enter the master access password as shown in [Control Panel Lock](#).
5. Wait for the reset process to finish.

**Whites Setting** This setting allows the user to select and edit the temperature of the white colors used in channel 6 (Macros) when in the **TOUR** mode. It also allows the user to define the maximum RGB values when RGB to White (**RGB.W**) is active.

1. Go to **CAL** main level.
2. Enter the master access password as described in [Control Panel Lock](#).
3. When **CAL** shows, press **<UP>**.
4. Go to **WT**.
5. Select a white color (**WH. 1~11**).
6. Select a color (**R., G., B., or W.**).
7. Select a color value (**000~255**).
8. Repeat for the other colors.

**White Calibration** This setting allows the user to select the white color shown by the COLORado™ 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 **CAL** main level.
2. Enter the master access password as described in [Control Panel Lock](#).
3. When **CAL** shows, press **<UP>**.
4. Go to **RGBW**.
5. Select **RGB.W** level.
6. Select a value for each color (**R.000~255**), (**G.000~255**), and (**B.000~255**).



When selecting **CAL > RGBW > RGB.W** you will only be able to define the values of **R. (red)**, **G. (green)**, and **B. (blue)**.



The values of **R. (red)**, **G. (green)**, and **B. (blue)** configured from **CAL > RGBW > RGB.W** will define the color temperature shown when the RGB faders are set to 255 if **SET > COLO > RGBW** is active.

## TOUR Notes

These notes intend to clarify the way the **TOUR** DMX personality works.

### Master Dimmer

- Channel 1 controls the intensity of the currently projected color.
- When the slider is at the highest position (**100%**), the intensity of the output is at its maximum.

### Red, Green, Blue, and White Color Selection

- Channels 2 through 5 control the intensity ratio of each of the Red, Green, Blue, and White LEDs.
- When the slider is at the highest position (**100%**), the intensity of each color is at its maximum if **SET > COLO** is **OFF**.
- You can combine channels 2 through 5 to create over one trillion colors.

### Color Macros

- Channel 6 selects the required Color Macro.
- Channel 6 has priority over channels 2 through 5.
- Channel 1 controls the intensity of the Color Macro.

### Strobe

- Channel 7 controls the strobe frequency (not the intensity) of channels 2 through 6.
- Channel 7 can strobe channels 2 through 7 when not running macros, allowing the individual faders (RGB and W) as well as channel 1 (D) to control the output intensity.
- Channel 7 can strobe channel 6 when running macros, allowing channel 6 to select the macro and channel 1 to control the output intensity.

### Auto/Custom

- Channel 8 selects the preset auto programs **AT. 01~10** or the custom programs **PR. C1~10**.
- When activating the custom Auto programs **PR. C1~10**, it is possible to control the Step Time and Fade Time using channels 2 and 3 respectively.
- Channel 9 has priority over channels 2 through 7.
- Channel 9 controls the speed at which each auto programs plays.

### Dimmer Speed

- Channel 10 selects the dimmer mode and speed. When **DIMMER** is set to **OFF**, the changes in the RGBW and Master Dimmer faders are linear. Otherwise, **DIM1** is the fastest dimmer curve, while **DIM4** is the slowest.

### Zoom Selection

- Channel 11 controls the zoom function.

### Zoom Reset

- Channel 12 resets the zoom function to the starting position.

## Menu Map

Main Level	Programming Levels		Description		
STAT	R.	000~255	Combines Red, Green, Blue, and White to generate a custom color (0~100%)		
	G.				
	B.				
	W.				
	Z.				
	S.	00~20	Strobe frequency (0~20 Hz)		
AUTO	AT.	C1~10	Choose from 10 automatic programs		
	PR.		Choose from 10 customizable programs		
RUN	DMX		Receives signals from DMX controller		
	SLAV		Receives signals from Master product		
DMX	001~512		Sets the DMX starting address		
PERS	TOUR		12-channel: RGBW, D, A/C, AS, DS, Macro, S, Z, ZR		
	ARC.1		3 channel: RGB		
	AR1.D		4-channel: RGB, D		
	ARC.2		4-channel: RGBW		
	AR2.D		5-channel: RGBW, D		
	AR2.S		6-channel: RGBW, D, S		
	HSV		3 channel: HSV		
EDIT	PR. (C1~10)	SC. (01~30)	R.	000~255	Combines Red, Green, Blue, White, and Zoom, as well as strobe and timers to create the scenes of a custom program
			G.		
			B.		
			W.		
			Z.		
			S.	00~20	
			T.	000~255	
F.					

Continues on the next page

Main Level	Programming Levels				Description		
SET	<b>UPLOAD</b>		Enter password		Transfers custom programs		
	<b>REST</b>		Enter password		Defaults product		
	<b>DIM</b>	<b>OFF</b>		No dimmer			
		<b>DIM1~4</b>		Dimmer curve			
	<b>DERR</b>	<b>BLAK</b>		All LED's turn off when DMX signal is lost			
		<b>SAVE</b>		All LED's stay on the last command used when the DMX signal is lost.			
	<b>COLR</b>	<b>OFF</b>		RGB set to "255" = max. output			
		<b>RGBW</b>		RGB set to "255" = balanced white			
		<b>UC</b>		Universal color balance			
	<b>ZOOM</b>	<b>BASE</b>		Sets default zoom position (full movement)			
		<b>POS.1</b>		Sets position 1 setting for zoom limit			
		<b>POS.2</b>		Sets position 2 setting for zoom limit			
	<b>KEY</b>	<b>ON/OFF</b>				Turns the password on or off	
CAL	<b>PASS</b> (Enter)	<b>CAL</b>	<b>WH</b>	<b>WH.</b>	<b>000~255</b>	Modifies the color macros used in the TOUR personality	
				<b>01~11</b>			
			<b>RGBW</b>	<b>RGB.W</b>			<b>000~255</b>
				<b>RGB</b>			
			<b>Zoom</b>	<b>POS. 1</b>	<b>P.000~255</b>		
				<b>POS. 2</b>			

**DMX Values**

TOUR	Channel	Function	Value	Percent/Setting
	1	Dimmer	000 ⇄ 255	0~100%
	2	Red	000 ⇄ 255	0~100%
		Step Time		When CUS. 01-10 in CH. 8 is activated
	3	Green	000 ⇄ 255	0~100%
		Step Time		When CUS. 01-10 in CH. 8 is activated
	4	Blue	000 ⇄ 255	0~100%
	5	White	000 ⇄ 255	0~100%
	6	Color Macro + White Balance	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		
	7	Strobe	000 ⇄ 009	No Function
			010 ⇄ 255	0~20 Hz
	8	Auto + Custom Programs	000 ⇄ 040	No function
			041 ⇄ 049	Auto 1
			050 ⇄ 059	Auto 2
			060 ⇄ 069	Auto 3
			070 ⇄ 079	Auto 4
			080 ⇄ 089	Auto 5
			090 ⇄ 099	Auto 6
			100 ⇄ 109	Auto 7
			110 ⇄ 119	Auto 8
			120 ⇄ 129	Auto 9
			130 ⇄ 139	Auto 10
			140 ⇄ 149	Custom 1
			150 ⇄ 159	Custom 2
			160 ⇄ 169	Custom 3
			170 ⇄ 179	Custom 4
			180 ⇄ 189	Custom 5
			190 ⇄ 199	Custom 6
	200 ⇄ 209	Custom 7		

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<b>TOUR (Cont.)</b>	<b>Channel</b>	<b>Function</b>	<b>Value</b>	<b>Percent/Setting</b>
	<b>8 (Cont.)</b>	<b>Auto + Custom Programs</b>	210 ⇄ 219 220 ⇄ 229 230 ⇄ 255	Custom 8 Custom 9 Custom 10
	<b>9</b>	<b>Auto Speed</b>	000 ⇄ 255	Only when CH. 8 is 041~139
	<b>10</b>	<b>Dimmer Speed</b>	000 ⇄ 009	Dimmer speed as per Control Panel
			010 ⇄ 029	Linear dimmer
			030 ⇄ 069	Non-linear dimmer 1 (fastest)
070 ⇄ 129			Non-linear dimmer 2	
130 ⇄ 189			Non-linear dimmer 3	
190 ⇄ 255	Non-linear dimmer 4 (slowest)			
<b>11</b>	<b>Zoom</b>	000 ⇄ 255	0~100%	
<b>12</b>	<b>Zoom Reset</b>	000 ⇄ 200	No function	
		201 ⇄ 220	Zoom reset	
		221 ⇄ 255	No function	

<b>ARC.1</b>	<b>Channel</b>	<b>Function</b>	<b>Value</b>	<b>Percent/Setting</b>
	<b>1</b>	<b>Red</b>	000 ⇄ 255	0~100%
	<b>2</b>	<b>Green</b>	000 ⇄ 255	0~100%
	<b>3</b>	<b>Blue</b>	000 ⇄ 255	0~100%

<b>AR1.D</b>	<b>Channel</b>	<b>Function</b>	<b>Value</b>	<b>Percent/Setting</b>
	<b>1</b>	<b>Master Dimmer</b>	000 ⇄ 255	0~100%
	<b>2</b>	<b>Red</b>	000 ⇄ 255	0~100%
	<b>3</b>	<b>Green</b>	000 ⇄ 255	0~100%
	<b>4</b>	<b>Blue</b>	000 ⇄ 255	0~100%

<b>ARC.2</b>	<b>Channel</b>	<b>Function</b>	<b>Value</b>	<b>Percent/Setting</b>
	<b>1</b>	<b>Red</b>	000 ⇄ 255	0~100%
	<b>2</b>	<b>Green</b>	000 ⇄ 255	0~100%
	<b>3</b>	<b>Blue</b>	000 ⇄ 255	0~100%
	<b>4</b>	<b>White</b>	000 ⇄ 255	0~100%

<b>AR2.D</b>	<b>Channel</b>	<b>Function</b>	<b>Value</b>	<b>Percent/Setting</b>
	<b>1</b>	<b>Master Dimmer</b>	000 ⇄ 255	0~100%
	<b>2</b>	<b>Red</b>	000 ⇄ 255	0~100%
	<b>3</b>	<b>Green</b>	000 ⇄ 255	0~100%
	<b>4</b>	<b>Blue</b>	000 ⇄ 255	0~100%
	<b>5</b>	<b>White</b>	000 ⇄ 255	0~100%

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<b>AR2.S</b>	<b>Channel</b>	<b>Function</b>	<b>Value</b>	<b>Percent/Setting</b>
	1	Master Dimmer	000 ⇔ 255	0~100%
	2	Red	000 ⇔ 255	0~100%
	3	Green	000 ⇔ 255	0~100%
	4	Blue	000 ⇔ 255	0~100%
	5	White	000 ⇔ 255	0~100%
	6	Strobe	000 ⇔ 009 010 ⇔ 255	No Function 0~20 Hz

<b>HSV</b>	<b>Channel</b>	<b>Function</b>	<b>Value</b>	<b>Percent/Setting</b>
	1	Hue	000 ⇔ 255	0~100%
	2	Saturation	000 ⇔ 255	0~100%
	3	Value	000 ⇔ 255	0~100%



## 5. Technical Information

### Product Maintenance

To maintain optimum performance and minimize wear, the user should clean this product frequently. Use 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 a COLORado™ Zoom Tour, follow the recommendations below:

- Unplug the product from power.
- Wait until the product is cool.
- 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 glass 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 glass surface.
- Gently polish the glass surfaces until they are free of haze and lint.



**Always dry the external glass surfaces carefully after cleaning them.**

## Troubleshooting Guide

Symptom	Cause(s)	Action(s)
Zoom does not move	Position settings are incorrect	Check settings as explained in <a href="#">Zoom Limit Setting</a>
	Faulty zoom motor/motors	Send product for repair
	Wrong personality	Change the personality
Product does not light up	Dimmer fader set to "0" All color faders set to "0" All colors in <b>STAT</b> are set to "0" No power Faulty internal power supply Faulty main control board	Increase the value of the dimmer channel Increase the value of the color channels Increase the values of the colors Verify external power circuit and wiring Send product for repair
The wrong LEDs light up when using DMX	Wrong personality Wrong DMX address	Change the personality Change the DMX address
The wrong LEDs light up when using DMX	Wrong personality Wrong DMX address	Change the personality Change the DMX address
Circuit breaker/fuse keeps tripping/blowing	Excessive circuit load Short circuit along the power wires	Reduce total load placed on the electrical circuit Check electrical wiring
Product does not power up	No power Loose or damaged power cord Faulty internal power supply	Check for voltage on outlet Check power cord Send product for repair
Product does not respond to wired DMX or responds erratically	Wrong DMX addressing Damaged DMX cables Wrong polarity on the controller Loose DMX cables Non DMX cables Bouncing signals Long cable / low level signal  Too many products  Interference from AC wires  Faulty Display/Main/DMX interface board	Check product addressing Check DMX cables Check polarity switch settings on the controller Check cable connections Use only DMX compatible cables Install terminator as suggested Install an optically coupled DMX splitter before a long section of cable or right after the product with the strong signal  Install an optically coupled DMX splitter after product #32  Keep DMX cables separated from power cables or fluorescent/black lights Send product for repair



If you still experience technical problems after trying these solutions, or to send the product for repair, contact [CHAUVET® Technical Support](#).

## Return Procedure

Send the merchandise prepaid, in the original box, and with its original packing and accessories. CHAUVET® does 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 for the return.

The user must 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

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).**

## Claims

The carrier is responsible for any damage incurred during shipping to this product or any part that shipped with it. Therefore, if the received merchandise appears to have damages caused during shipping, the customer must submit the damage report and any related claims with the carrier, not CHAUVET®. The customer must submit the report upon reception of the damaged merchandise. Failure to do so in a timely manner may invalidate the customer's claim with the carrier.

For other issues such as missing components or parts, damage not related to shipping, or concealed damage, the customer must make claims to CHAUVET® within 7 days of receiving the merchandise.

## Contact Us

### World Headquarters

CHAUVET®

#### General Information

Address: 5200 NW 108th Avenue  
Sunrise, FL 33351  
Voice: (954) 929-1115  
Fax: (954) 929-5560  
Toll free: (800) 762-1084

#### Technical Support

Voice: (954) 929-1115 (Press 4)  
Fax: (954) 756-8015  
Email: [tech@chauvetlighting.com](mailto:tech@chauvetlighting.com)

#### World Wide Web

[www.chauvetpro.com](http://www.chauvetpro.com)

### United Kingdom & Ireland

CHAUVET® Europe Ltd.

#### General Information

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

#### Technical Support

Email: [uktech@chauvetlighting.com](mailto:uktech@chauvetlighting.com)

#### World Wide Web

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

## Technical Specifications

Dimensions and Weight	Length	Width	Height	Weight
	8.0 in (203 mm)	9.8 in (250 mm)	13.1 in (334 mm)	14.5 lbs (6.6 kg)

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

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

Parameter	120 V, 60 Hz	230 V, 50 Hz
Consumption	132 W	122 W
Operating current	1.026 A	.566 A
Power linking products	7	14

Power I/O	US/Worldwide	Europe
Power input connector	Neutrik® powerCON® A	Neutrik® powerCON® A
Power output connector	Neutrik® powerCON® B	Neutrik® powerCON® B
Power cord plug	Edison (US)	Local plug

Light Source	Type	Power	Lifespan
	LED	2 & 3 W	50,000 hours

Color	Quantity	Current
Red	10	664 mA
Green	10	952 mA
Blue	10	944 mA
White	7	964 mA

Photo Optic	Parameter	
	Illuminance @ 5 m	3171 lx
	Beam angle	8~27.5°
	Field angle	15~42°

Thermal	Max. External Temperature	Cooling System
	104° F (40° C)	Convection

DMX	I/O Connectors	Connector Type	Channel Range
	3- and 5-pin XLR	Sockets	3, 4, 5, 6, 12

Ordering	Product Name	Item Code	Item Number
	COLORado™ Zoom Tour	01030306	COLORADOZOOMTOUR



UL 1573  
 CSA C22.2 No. 166  
 E113093



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**CHAUVET®**  
5200 NW 108th Avenue  
Sunrise, FL 33351 (USA)  
(800) 762-1084 – (954) 929-1115  
FAX (954) 929-5560  
[www.chauvetpro.com](http://www.chauvetpro.com)

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*It's Green Thinking*