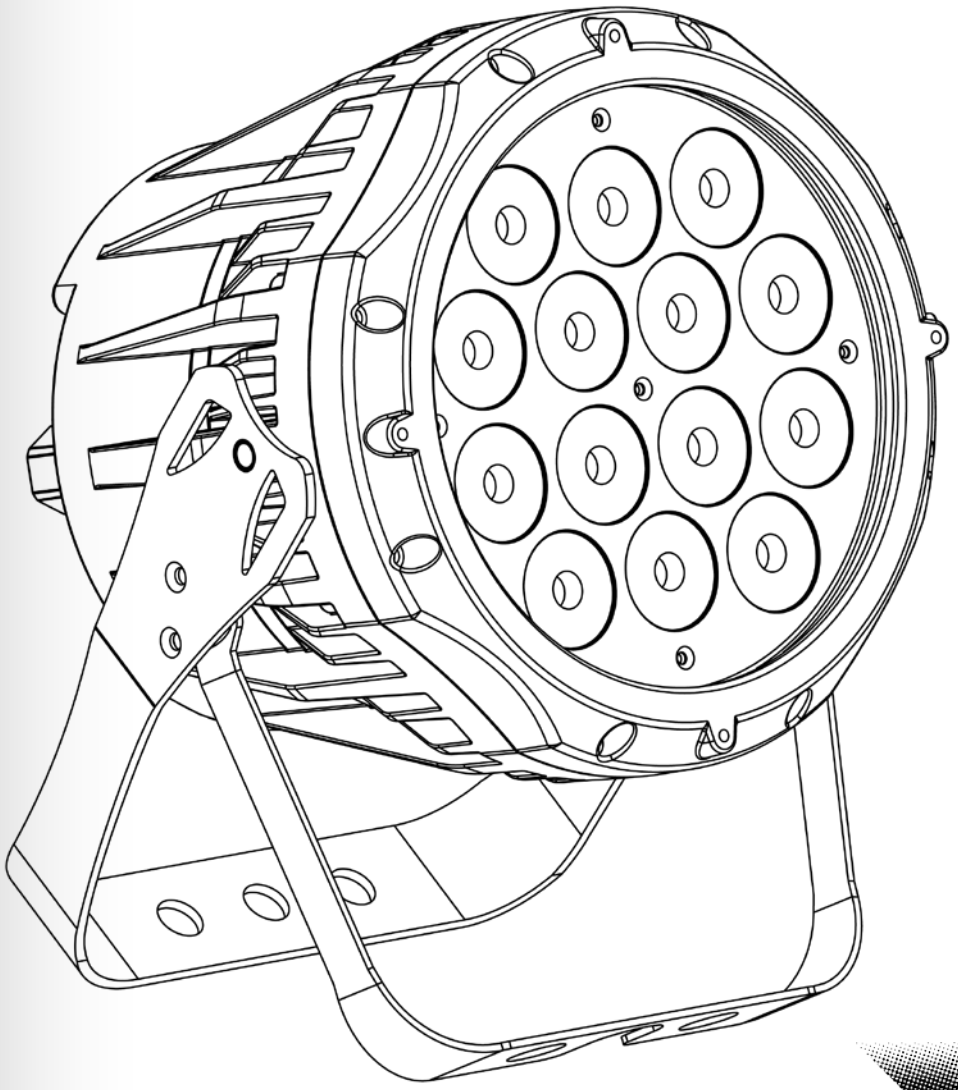
COLORADO™ 1 TRI IP

User Manual



CHAUVET® PROFESSIONAL

Edition Notes

The COLORado™ 1-TRI IP User Manual Rev. 7 covers the description, safety precautions, installation, programming, operation, and maintenance of the COLORado™ 1-TRI IP. Chauvet released this edition of the COLORado™ 1-TRI IP User Manual Rev. 7 in April 2015.

Trademarks

CHAUVET® is a registered trademark of CHAUVET & Sons Inc. (d/b/a CHAUVET® or Chauvet). The CHAUVET® logo in its entirety, including the CHAUVET® name and the dotted triangle, and all other trademarks in this manual pertaining to services, products, or marketing statements are owned or licensed by CHAUVET®. Any other product names, logos, brands, company names, and other trademarks featured or referred to within this document are the property of their respective trademark holders.

Copyright Notice

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

© Copyright 2015 Chauvet. All rights reserved.

Electronically published by Chauvet in the United States of America.

Manual Use

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

Document Printing

For better results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure your printer to scale the content accordingly.

Intended Audience

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

Disclaimer

Chauvet believes that the information contained in this manual is accurate in all respects. However, Chauvet assumes no responsibility for any errors or omissions in this document. Chauvet reserves the right to revise and make changes to the content of this document without obligation that Chauvet notify any person or company of such revision or changes. This does not in any way constitute a commitment by Chauvet to make such changes. Chauvet may issue a revision of this manual or a new edition to incorporate such changes.

Document Revision

The COLORado™ 1-TRI IP User Manual Rev. 7 supersedes all previous versions of this manual. Discard any older versions of this manual and replace with this version.

Author	Date	Editor	Date
D. Couppe	3/27/15	M. Trouard	4/08/15

Table of Contents

1. Before You Begin 1

What Is Included 1
Claims 1
Manual Conventions 1
Symbols 1
Product at a Glance 2
Safety Notes 2
Personal Safety 2
Mounting and Rigging 2
Power and Wiring 2
Operation 2
Expected LED Lifespan 2

2. Introduction 3

Product Description 3
Features 3
Overview 4
Dimensions 5

3. Setup 6

AC Power 6
AC Plug 6
Power Linking 7
DMX Linking 7
DMX Modes 7
Master/Slave Connectivity 7
Mounting 8
Orientation 8
Rigging 8

4. Operation 9

Control Panel Description 9
Control Options 9
Programming 9
DMX Personality 10
DMX Control 10
Loss of Signal Setting 10
Static Mode 10
Auto Programs 11
Edit Customs 11
Master/Slave Mode 11
Color Settings 11
Dimmer Curves 12
Curve Settings 12
Control Panel Lock 12
Password 12
Settings Lock Out 12
Program Upload 13
Reset 13
Calibration Settings Reset 13
Whites Setting 14
White Calibration 14
Strobe Personality 14
Menu Map 15
Menu Map (Continued) 16
DMX Values 17

DMX Values (Continued) 18
DMX Values (Continued) 19
DMX Values (Continued) 20
DMX Values (Continued) 21

5. Technical Information 22

Product Maintenance 22
Returns 22
Technical Specifications 23

Contact Us 24

1. Before You Begin

What Is Included

- COLORado™ 1-TRI IP
- IP66 Input Power Cord
- Male/Female 5-pin IP66 Adaptor
- Gel Frame Holder (7.5 in/191 mm accessories)
- 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	P	Auto-Ranging Power Supply	P
Sound-Activated	X	Replaceable Fuse	X
DMX	P	User-Serviceable	X
Master/Slave	P		

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 applies to properly trained Chauvet certified technicians. Do not open the housing or attempt any repairs.

All applicable local codes and regulations apply to 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 during operation because it may be very hot.

Mounting and Rigging

- DO NOT submerge this product (IP66). Regular outdoor operation is fine.
- The product is not intended for permanent installation.
- Do not allow the product to remain pointed straight down.
- 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.
- 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.

Power and Wiring

- Always make sure you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- 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.

Operation

- Do not operate this product if you see damage on the housing, lenses, or cables. Have the damaged parts replaced by an authorized technician at once.
- Do not cover the ventilation slots when operating to avoid internal overheating.
- The maximum ambient temperature is 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

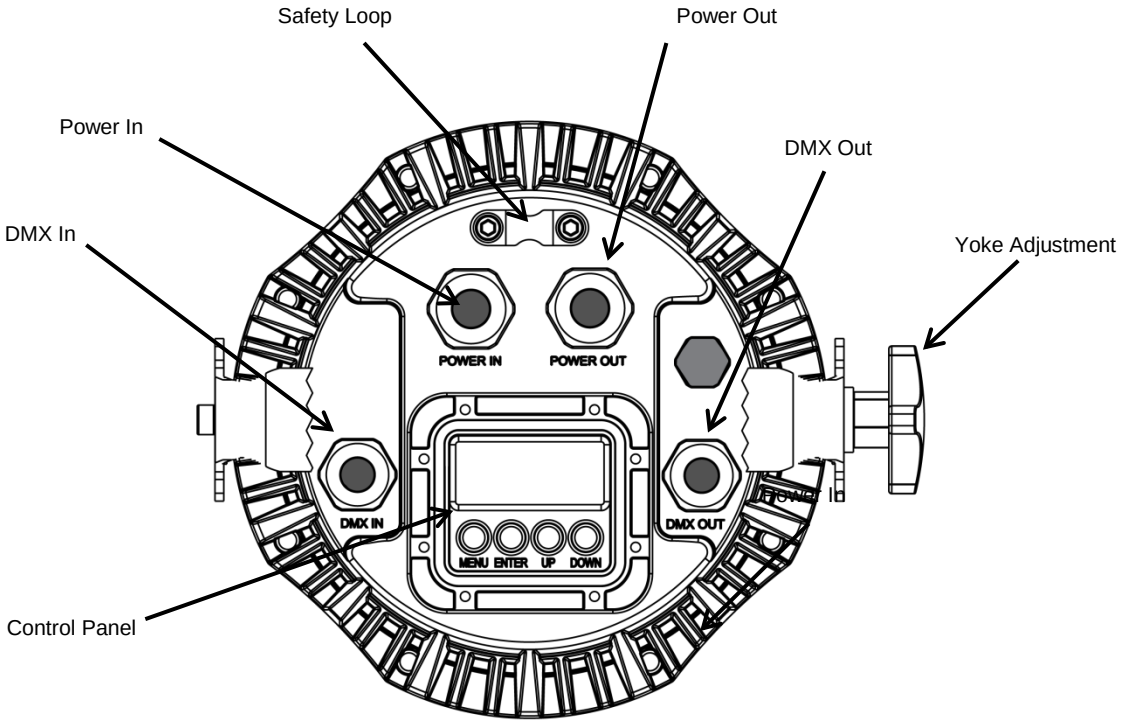
Product Description

The COLORado™ 1-TRI IP is an IP66-rated LED wash with 14 intense, calibrated tri-color LEDs. This outdoor-rated workhorse is an ideal front light as high efficiency optics and tri-color LEDs eliminate multicolored shadows while five dimming curves ensure compatibility with older non-LED rig.

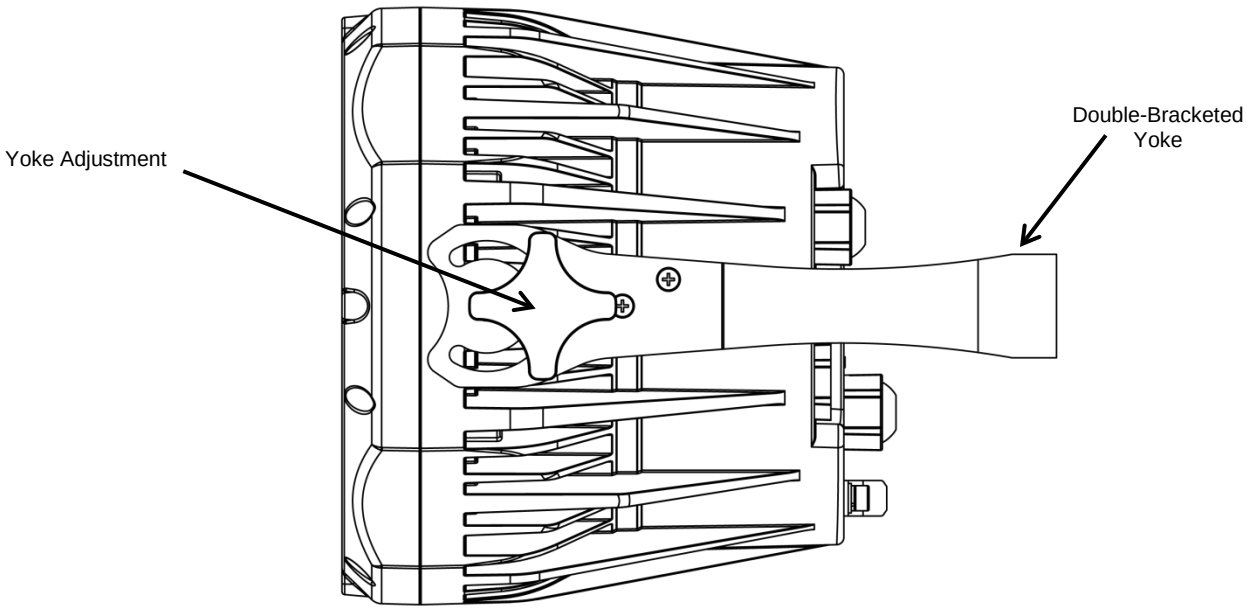
Features

- 3, 4, 5, 9, or 13 tri-color LED wash product
- Operating modes:
  - 3-channel: RGB control
  - 3-channel: HSV control
  - 4-channel: RGB, dimmer
  - 5-channel: RGB, dimmer, strobe
  - 9-channel: RGB, dimmer, macro, strobe, auto/custom, auto speed, dimmer speed,
  - 13-channel: 16-bit RGB, 16-bit dimmer, macro, strobe, auto/custom, auto speed, dimmer speed
- Color mixing with or without DMX control
- IP66-rated, suitable for outdoor operation

Overview

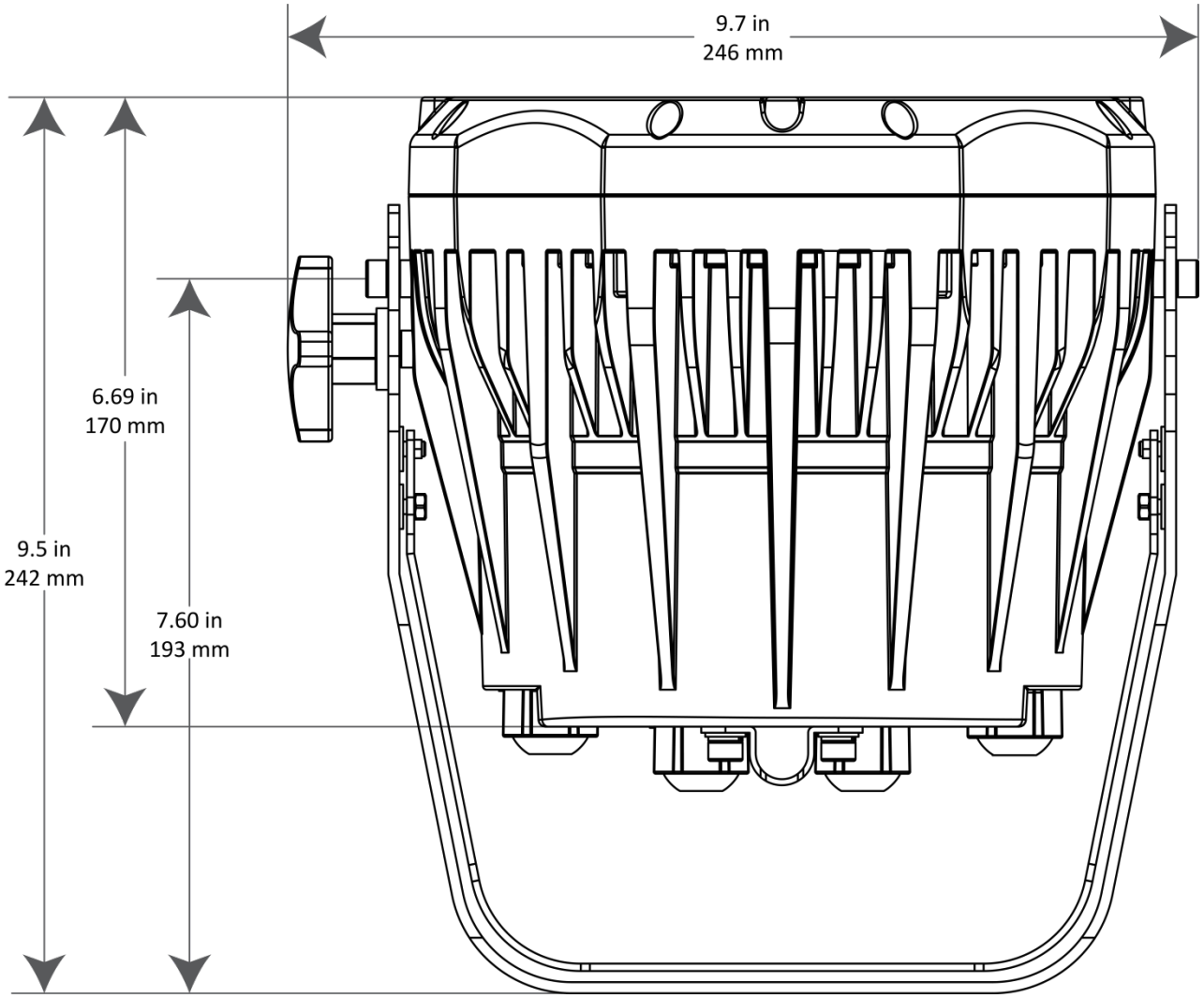


Rear View



Side View

Dimensions



Side View

3. Setup

AC Power

Each COLORado™ 1-TRI IP has an auto-ranging power supply that works with an input voltage range of 100~240 VAC, 50/60 Hz. To determine the power requirements for each COLORado™ 1-TRI IP, refer to the label affixed to the product. You can also refer to the Technical Specifications 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-TRI IP comes with an IP66 input power cord terminated with a proprietary IP66 connector and an IP66-to-Edison power cord adapter. If the power cord adapter that came with your product has no plug or you need to change the Edison plug, use the table below to wire the new plug.

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

Power Linking

The COLORado™ 1-TRI IP supports power linking. You can power link up to 14 products at 120 VAC, 24 products at 208 VAC, or 26 products at 230 VAC.

This product comes with a power input cord. This product does not come with a power linking cable; however, a power linking cable is available as an option.

DMX Linking

You can link the COLORado™ 1-TRI IP to a DMX controller using a standard DMX serial connection. If using other DMX-compatible products with the COLORado™ 1-TRI IP, you can control each individually with a single DMX controller.

DMX Modes

The COLORado™ 1-TRI IP uses the standard DMX data connection for the **TOUR**, **TR16.**, **ARC.1**, **AR1.d**, **AR1.S**, and **HSV** channel DMX modes.

- Refer to the Introduction for a brief description of these modes.
- Refer to Operation to learn how to configure the COLORado™ 1-TRI IP to work in these modes.
- The DMX Values section will provide you with detailed information regarding the DMX modes.

Master/Slave Connectivity

The Master/Slave mode allows a COLORado™ 1-TRI IP (the "master product") to control one or more COLORado™ 1-TRI IPs (the "slave products") without a DMX controller. One COLORado™ 1-TRI IP becomes the master product when running an Auto or Custom program, or by being in Static mode.

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

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

The Operation section of this manual provides detailed instructions on how to configure Master and Slave products.

Note: For optimum control of the 16-bit dimming channels in the TR16. personality, be sure that both dimming curves in SET > DIMX. and SET > CURV. are set to OFF..

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.

Mounting

Before mounting this product, read and follow the Safety Notes. For our CHAUVET® Professional line of mounting clamps, go to http://trusst.com/products/.

Orientation

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

Rigging

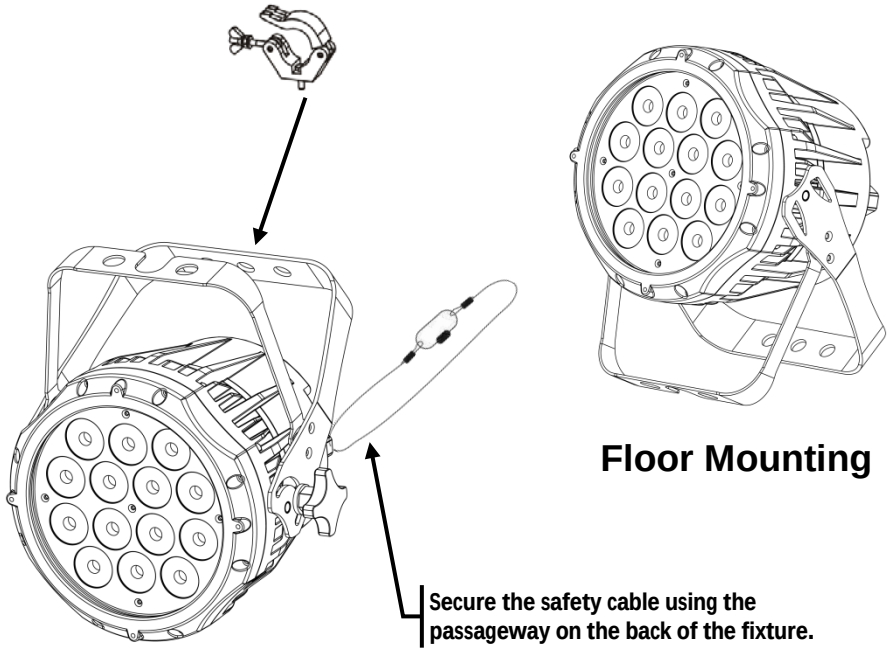
The COLORado™ 1-TRI IP consists of a double-bracketed yoke and the body of the product. Chauvet recommends using the following general guidelines when mounting this product.

- The product is not intended for permanent installation.
- 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.
- Do not allow the product to remain pointed straight down.
- If hanging this product, make sure that the mounting location can support the product's weight. Refer to the Technical Specifications for the weight-bearing requirements of this product.
- When hanging this product, always secure to a fastening device using a safety cable.

Procedure

The COLORado™ 1-TRI IP comes with a multi–purpose yoke to which you can either attach mounting clamps for hanging, or attach to the floor for 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.

Diagram



Floor Mounting

Overhead Mounting

4. Operation

Control Panel Description

Button	Function
<MENU>	Exits from the current menu or function
<ENTER>	Enables the currently displayed menu or sets the currently selected value in to the current function
<UP>	Navigates upward through the menu 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™ 1-TRI IP start address in the 001~512 DMX range. This enables control of up to 32 products in the 13-channel **TR16.** 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.

DMX Personality

This setting allows you to choose a particular DMX personality.

1. Go to the **PERS** main level.
2. Select the desired personality (**TOUR**, **TR16.**, **ARC.1**, **AR1.d**, **AR1.S**, **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 Personality.
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 **dMX** main level.
   b. Select the starting address **d.**(**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
TOUR	504	**ARC.1**	510	**AR1.S**	508
TR16.	500	**AR1.d**	509	**HSV**	510

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 LEDs when the signal is lost.

Static Mode

The Static mode allows for RGB color mixing and the setting of the strobe frequency without a DMX controller.

1. Go to the **STAT** main level.
2. Select the desired color: **R.** (red), **G.** (green), **b.** (blue).
3. Select the desired color value (**000**~**255**).
4. Repeat for the other colors.
5. Select **ST.** (strobe frequency).
6. Select the desired frequency **00**~**20** (0~20 Hz).

Auto Programs

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

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

You cannot edit any of the auto programs (AT.1~10); however, you can edit the custom programs (PR.01~10). See Edit Customs below 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 the **EdIT** main level.
2. Select the desired auto program (**PR.01~10**).
3. Select the desired scene (**SC.01~30**).
4. Select the desired color or effect: **R.** (red), **G.** (green), **b.** (blue), **Sb.** (strobe frequency), **T.** (step duration), **F.** (fade duration.
5. Select the color or effect value (**000~255** for colors and timers, or **00~20** for strobe).
6. Repeat for the other colors or effects.
7. Return to the scene (**SC. 01~30)** level.
8. Repeat the settings of colors and effects for the other scenes.

Master/Slave Mode

The Master/Slave mode allows a group of COLORado™ 1-TRI IPs (the slave products) to simultaneously duplicate the output of another COLORado™ 1-TRI IP (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 above, or a static mix of colors.

- **The master product is the one that runs a program whether in Auto, Custom or Static mode.**
- **Do not connect a DMX controller to the products configured for Master/Slave operation. The DMX controller may interfere with signals from the master product.**
- **The master product should be the first product in the daisy chain.**

Color Settings

The Color setting determines how the COLORado™ 1-TRI IP generates the white color based on various RGB settings.

1. Go to the **SET** main level.
2. Select **COLO.**.
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 (balanced white). See White Calibration.

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

Dimmer Curves

This setting determines how fast the output of the COLORado™ 1-TRI IP changes when you modify the values of the red, green, blue, and dimmer faders. This setting provides four different options to simulate the dimming speed of an incandescent lighting product.

1. Go to the **SET** main level.
2. Select **dIM.**.
3. Select a dimmer curve (**OFF.**, **dIM1.**, **dIM2.**, **dIM3.**, **dIM4.**).

OFF.: The output is proportional (linear) to the Dimmer and RGBW channel values.

dIM1.~dIM4.: The output follows the dimmer and RGB channel values based on the corresponding dimmer speed, **dIM1** being the fastest and **dIM4** being the slowest.

Curve Settings

This setting determines the shape of the output curve of the COLORado™ 1-TRI IP when you modify the values of the red, green, blue, and dimmer faders. This setting provides three different options to simulate the dimming curve of an incandescent lighting product.

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

OFF.: This output is proportional (linear) to the Dimmer and RGBW channel values.

CV1.~CV3.: This output follows the dimmer and RGB channel values based on the corresponding dimmer curve, **CV1.** being the fastest and **CV3.** being the slowest.

Control Panel Lock

This setting enables you to activate or disable the control panel lock, which keeps unauthorized personnel from changing the product's settings.

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

Password

After being prompted to enter the passcode:

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

Settings Lock Out

This setting enables you to activate or disable the main level **SET** (settings) lock, which keeps unauthorized personnel from changing the product's settings.

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

Program Upload

This option allows you to copy the custom programs of one COLORado™ 1-TRI IP onto other COLORado™ 1-TRI IPs 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. From the master product, go to the **SET** main level.
3. Select **UPLd.**.
4. When **PASS** shows, press **<ENTER>**.
5. Enter the master access passcode 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** before continuing or turning the products off.

The Master/Slave products 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-TRI IP to a different product. The other product may become inoperable.

Reset

This setting allows you to reset the COLORado™ 1-TRI IP 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 Control Panel Lock.
5. Wait for the reset process to finish.

Calibration Settings Reset

This setting allows you to reset the COLORado™ 1-TRI IP to the default values of the color macros in Whites Setting or Whites Calibration.

1. Go to the **CAL** main level.
2. When **PASS** shows, press **<ENTER>**.
3. Enter the master access passcode as described in Control Panel Lock.
4. Go to **CALR**.
5. When **PASS** shows, press **<ENTER>**.
6. Enter the master access passcode as described in Control Panel Lock.
7. Go to **CALR**.
8. Go to **OK**.

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** mode or channel 10 in **TR16.** mode.

1. Go to the **CAL** main level.
2. Enter the master access passcode as described in Control Panel Lock
3. Go to **CAL1**.
4. Select a white color (**wT.01~11**).
5. Select a color: **R.** (red), **G.** (green), **b.** (blue).
6. Select a color value (**000~255**).
7. Repeat for the other colors.

White Calibration

This setting allows you to select the white color shown by the COLORado™ 1-TRI IP 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 Control Panel Lock
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 > RGBw., 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 > RGBw. will define the color temperature shown when the RGB faders are set to "255" if SET > COLO. > RGBw. is active.

Strobe Personality

This setting allows you to select the classic (01~20 Hz) strobe or special (random/slow/fast) strobe personalities.

1. Go to the **SET** main level.
2. Go to **STRB.**.
3. Select a strobe personality (**CLAS.** or **SPEC.**).

Menu Map

Main Level	Programming Levels							Description
STAT	R.				000~255			Combines red, green, and blue to make a custom color
	G.							
	b.							
	ST.				00~20			Selects the strobe frequency (0~20 Hz)
AUTO	AT.				01~10			10 automatic programs
	PR.							10 customizable programs
RUN	dMX.							DMX mode
	SLAV							Master/Slave mode
dMX	d.				001~512			Selects the DMX starting address
PERS	TOUR							9-channel: R/G/B, dimmer, strobe, color macro, auto/custom, dimmer speed, auto speed
	TR16.							13-channel: 16-bit- R/G/B, dimmer, strobe, color macro, auto/custom, dimmer speed, auto speed
	ARC.1							3-channel: R/G/B control
	AR1.d							4-channel: R/G/B, dimmer
	AR1.S							5-channel: R/G/B, dimmer, strobe
	HSV							3-channel: HSV control
EdIT	PR.	01~10	SC.	01~30	R.	000~255		Combines red, green, and blue to generate a custom color (0~100%)
					G.			
					b.			
					Sb.	00~20		Selects the strobe frequency (0~20 Hz)
					T.	000~255		Defines the step duration (0~100%)
					F.			Defines the fade duration (0~100%)

Menu Map (Continued)

Main Level	Programming Levels						Description
SET	**UPLd.**			**....** (Enter Passcode)			Uploads custom programs to other COLORado™ 1-TRI IP
	REST.			**....** (Enter Passcode)			Defaults product to factory settings
	COLO.			**OFF**			RGB set to “255” = max. output
				RGBw.			RGB set to “255” = balanced white
				UC.			Universal color balance
	dIM.			**OFF.**			No dimmer
				dIM1.			Slow (**dIM4.**) to fast (**dIM1.**) dimmer speeds
				dIM2.			
				dIM3.			
				dIM4.			
	CURV.			**OFF.**			No dimmer
				CV1.			Large (**CV3.**) to small (**CV1.**) dimmer curves
				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.			
	STRB.			**SPEC.**			Selects strobe personality used in **TOUR** and **TR16.** personalities
				CLAS.			
CAL	**....** (Enter Passcode)	**CAL1**	**wT.**	**01~11**	**R.**	**000~255**	Modifies the color macros used in the **TOUR** and **TR16** personalities
					G.		
					b.		
		CAL2	**RGBw.**		**R.**		Defines the color temperature used when **COLO.** is set to **RGBw.**
					G.		
					b.		
		CALR	**....** (Enter Passcode)		**CALR**		Defaults **CAL** to factory settings
KEY	**ON**						Turns the passcode on or off
	OFF						

DMX Values

TOUR

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ó 255	0~100%
2	**Red**	000 ó 255	000~255 (**Step Time** if Auto 1~10 active)
3	**Green**	000 ó 255	000~255 (**Fade Time** if Auto 1~10 active)
4	**Blue**	000 ó 255	0~100%
5	**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%
		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
6*	**Special Strobe**	000 ó 010	No Function
		011 ó 099	Slow to Fast
		100 ó 109	No Function
		110 ó 179	Lighting Effect Slow to Fast
		180 ó 189	No Function
		190 ó 255	Random
	Classic Strobe	000 ó 010	No Function
		011 ó 019	1 Hz
		020 ó 029	2 Hz
		030 ó 039	3 Hz
		040 ó 049	4 Hz
		050 ó 059	5 Hz
		060 ó 069	6 Hz
		070 ó 079	7 Hz
		080 ó 089	8 Hz
		090 ó 099	9 Hz
		100 ó 109	10 Hz
		110 ó 119	11 Hz
		120 ó 129	12 Hz
		130 ó 139	13 Hz
		140 ó 149	14 Hz
		150 ó 159	15 Hz
		160 ó 169	16 Hz
		170 ó 179	17 Hz
		180 ó 189	18 Hz
		190 ó 199	19 Hz
		200 ó 255	20 Hz

*Select strobe function in the main menu under **SET > STRB. > CLAS.** or **SPEC.**

DMX Values (Continued)

TOUR (Cont.)

Channel	Function	Value	Percent/Setting
7	**Programs**	000 ó 020	No Function
		021 ó 030	Auto 1
		031 ó 040	Auto 2
		041 ó 050	Auto 3
		051 ó 060	Auto 4
		061 ó 070	Auto 5
		071 ó 080	Auto 6
		081 ó 090	Auto 7
		091 ó 100	Auto 8
		101 ó 110	Auto 9
		111 ó 120	Auto 10
		121 ó 130	Custom 1
		131 ó 140	Custom 2
		141 ó 150	Custom 3
		151 ó 160	Custom 4
		161 ó 170	Custom 5
		171 ó 180	Custom 6
		181 ó 190	Custom 7
		191 ó 200	Custom 8
		201 ó 210	Custom 9
		211 ó 220	Custom 10
		221 ó 255	No Function
8	**Auto Speed**	000 ó 255	0~100% (Only when using **AT.1~10**)
9	**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)

DMX Values (Continued)

TR16.

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ó 255	0~100%
2	**Fine Dimmer**	000 ó 255	0~100%
3	**Red**	000 ó 255	000~255 (**Step Time** if Auto 1~10 active)
4	**Fine Red**	000 ó 255	000~255 (**Fade Time** if Auto 1~10 active)
5	**Green**	000 ó 255	0~100%
6	**Fine Green**	000 ó 255	0~100%
7	**Blue**	000 ó 255	0~100%
8	**Fine Blue**	000 ó 255	0~100%
9	**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

DMX Values (Continued)

TR16. (Cont.)

Channel	Function	Value	Percent/Setting
10	**Special Strobe**	000 ó 010	No Function
		011 ó 099	Slow to Fast
		100 ó 109	No Function
		110 ó 179	Lighting Effect Slow to Fast
		180 ó 189	No Function
		190 ó 255	Random
	Classic Strobe	000 ó 010	No Function
		011 ó 019	1 Hz
		020 ó 029	2 Hz
		030 ó 039	3 Hz
		040 ó 049	4 Hz
		050 ó 059	5 Hz
		060 ó 069	6 Hz
		070 ó 079	7 Hz
		080 ó 089	8 Hz
		090 ó 099	9 Hz
		100 ó 109	10 Hz
		110 ó 119	11 Hz
		120 ó 129	12 Hz
		130 ó 139	13 Hz
		140 ó 149	14 Hz
		150 ó 159	15 Hz
		160 ó 169	16 Hz
		170 ó 179	17 Hz
		180 ó 189	18 Hz
		190 ó 199	19 Hz
		200 ó 255	20 Hz
11	**Programs**	000 ó 020	No Function
		021 ó 030	Auto 1
		031 ó 040	Auto 2
		041 ó 050	Auto 3
		051 ó 060	Auto 4
		061 ó 070	Auto 5
		071 ó 080	Auto 6
		081 ó 090	Auto 7
		091 ó 100	Auto 8
		101 ó 110	Auto 9
		111 ó 120	Auto 10
		121 ó 130	Custom 1
		131 ó 140	Custom 2
		141 ó 150	Custom 3
		151 ó 160	Custom 4
		161 ó 170	Custom 5
		171 ó 180	Custom 6
		181 ó 190	Custom 7
		191 ó 200	Custom 8
		201 ó 210	Custom 9
		211 ó 220	Custom 10
		221 ó 255	No Function

*Select strobe function in the main menu under **SET > STRB. > CLAS.** or **SPEC.**

DMX Values (Continued)

TR16 (Cont.)

Channel	Function	Value	Percent/Setting
12	Auto Speed	000 ó 255	0~100% (Only when using **AT.1~10**)
13	Dimmer Speed	000 ó 009 010 ó 029 030 ó 069 070 ó 129 130 ó 189 190 ó 255	Preset dimmer speed from display menu Linear dimmer Nonlinear dimming curve 1 (fastest) Nonlinear dimming curve 2 Nonlinear dimming curve 3 Nonlinear dimming curve 4 (slowest)

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%

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%

AR1.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	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%

5. Technical Information

Product Maintenance

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

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

To clean your product:

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

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

Returns

You must send the product prepaid, in the original box, and with the original packing and accessories. Chauvet will not issue call tags.

Call Chauvet and request a Return Merchandise Authorization (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause(s) for the return.

Clearly label the package with an RMA number. Chauvet will refuse any product returned without an RMA number.

DO NOT write the RMA number directly on the box. Instead, write it on a properly affixed label.

Once you have received the RMA number, include the following information on a piece of paper inside the box:

- Your name
- Your address
- Your phone number
- RMA number
- A brief description of the problem(s)

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be the customer's responsibility. FedEx packing or double-boxing are recommended.

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

Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
8 in (202 mm)	9.7 in (246 mm)	9.5 in (242 mm)	9.6 lb (4.4 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	87 W	93 W
Operating current	0.73 A	0.4 A
Power linking	14 products	26 products

Power I/O	U.S./Worldwide	Europe
Power input connector	Hardwired	Hardwired
Power output connector	IP66	IP66
Power cord plug	Edison (U.S.)	Local plug

Light Source

Type	Power	Lifespan
LED	3 W	50,000 hours

Color	Quantity	Current
Tri-color	14	350 mA x 3

Photometrics

Parameter	
Illuminance @ 5 m	806 lx
Beam angle	15º
Field angle	28º
Strobe rate	0~20 Hz

Thermal

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

DMX

I/O Connectors	Connector Type	Channel Range
5-pin XLR	Sockets	3, 4, 5, 9, 13

Ordering

Product	Item Code	Item Number
COLORado™ 1-TRI IP	01030103	781462205874

Contact Us

WORLD HEADQUARTERS - Chauvet

General Information

Address: 5200 NW 108th Avenue
Sunrise, FL 33351
Voice: (954) 577-4455
Fax: (954) 929-5560
Toll free: (800) 762-1084

Technical Support

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

World Wide Web www.chauvetlighting.com

UNITED KINGDOM AND IRELAND - Chauvet Europe Ltd.

General Information

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

Technical Support

Email: uktech@chauvetlighting.com

World Wide Web www.chauvetlighting.co.uk

MEXICO - Chauvet Mexico

General Information

Address: Av. Santa Ana 30
Parque Industrial Lerma
Lerma, Mexico C.P. 52000
Voice: +52 (728) 285-5000

Technical Support

Email: servicio@chauvet.com.mx

World Wide Web www.chauvet.com.mx

CHAUVET EUROPE - Chauvet Europe BVBA

General Information

Address: Stokstraat 18
9770 Kruishoutem
Belgium
Voice: +32 9 388 93 97

Technical Support

Email: Eutech@chauvetlighting.eu

World Wide Web www.chauvetlighting.eu

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

RoHS

UL 1573
CSA C22.2 No. 166
E113093