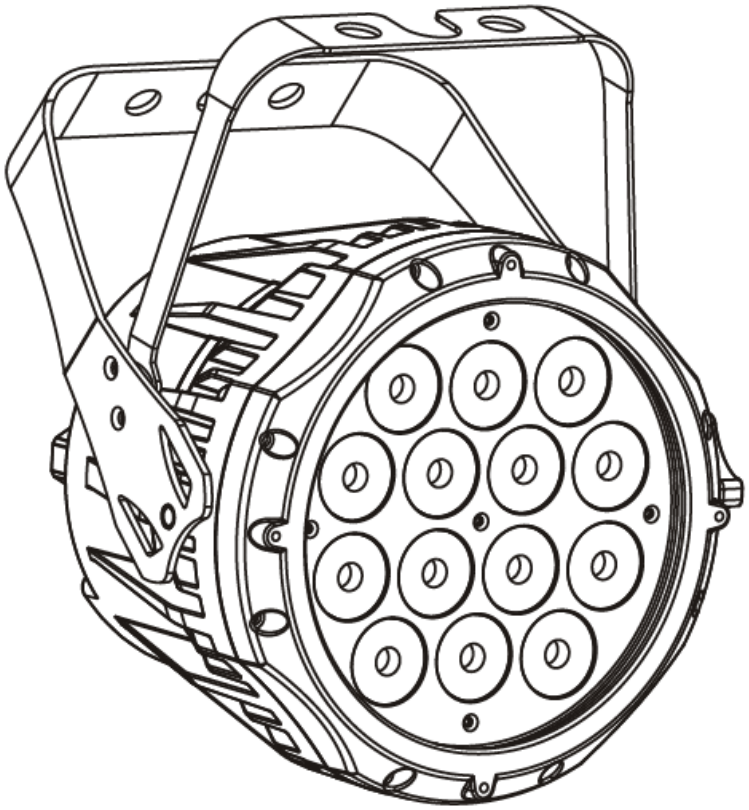
COLORADO™ 1-TRI TOUR

User Manual



CHAUVET®

Edition Notes

The COLORado™ 1-Tri Tour User Manual Rev. 01j covers the description, safety precautions, installation, programming, operation, and maintenance of the COLORado™ 1-Tri Tour fixture. CHAUVET® released this edition of the COLORado™ 1-Tri Tour User Manual Rev. 01j in October 2010.

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Document Printing

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

Intended Audience

Any person in charge of installing, operating and/or maintaining the COLORado™ 1-Tri Tour should read the guide that shipped with it as well as this manual in their entirety before installing, operating, or maintaining this product.

Disclaimer

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Document Revision

The COLORado™ 1-Tri Tour User Manual Rev. 01j 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.

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Fixture at a Glance

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

Table of Contents

1. Before you Begin

What is Included

- One COLORado™ 1-Tri Tour
- One power input cable with Edison plug (US)
- One gel frame holder
- One safety cable
- Warranty Card
- 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.

Typographic Conventions

Convention	Meaning
1~512	A range of values
50/60	A set of mutually exclusive values in the text
[10]	A DIP switch to be configured
Claims	A fixture function, a new term, a section, or a chapter
"COLORado™ UM"	The name of another publication or manual
<SET>	A button to be pressed on the fixture's control panel
Settings	A menu option that can be selected but not modified
MENU > Settings	A sequence of menu options to be followed
[1~10]	A range of menu values of which one can be selected
Yes/No	A set of mutually exclusive menu options to choose
ON	A value to be entered or selected

Icons Meaning

Icons	Meaning
	This icon indicates critical installation, configuration, or operation information. Failure to comply with this information may render the fixture partially or completely inoperative, damage third-party equipment, or cause harm to the user.
	This icon indicates important installation or configuration information. Failure to comply with this information may prevent the fixture from functioning correctly.
	This icon indicates useful, although non-critical information.

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

Safety Notes

Please read the following notes carefully because they include important safety information about the installation, usage, and maintenance of this product.

It is important to read all these notes before starting to work with this product.

There are no user serviceable parts inside the COLORado™ 1-Tri Tour. Any reference to servicing this unit you may find from now on in this User Manual will only apply to properly CHAUVET® certified technicians. Do not open the housing or attempt any repairs unless you are one of them.

Please refer to all applicable local codes and regulations for proper installation of the COLORado™ 1-Tri Tour.

Keep this manual for future consultation. If you sell the COLORado™ 1-Tri Tour to another user, make sure that they also receive this manual.

Personal Safety

- Avoid direct eye exposure to the light source while the fixture 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 the fixture(s) 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.
- Make sure the product's housing or power cable are not cracked, crimped, or damaged.
- Never disconnect this product by pulling or tugging on the power cable.

Operation

- Do not operate this fixture if you see damage on the housing, lenses, ultraviolet filter, or cables; have the damaged parts replaced by an authorized technician at once.
- 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 COLORado™ 1-Tri Tour may require service, please 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 of 40,000 to 50,000 hours. If extending this lifespan is vital, lower the operational temperature by improving the fixture's ventilation and reducing the external temperature. In addition, limiting the overall projection intensity may also help to extend the LEDs' lifespan.

2. Introduction

Product Description

The COLORado™ 1-Tri Tour is an RGB wash light based on 14 tri-color (RGB) LEDs. It consists of a single pod with a double bracket mounting yoke. The AC power comes directly into the fixture's housing through a NEUTRIK® powerCON A socket. The power linking uses a NEUTRIK® powerCON B socket. The DMX input and output sockets are of the 3-pin XLR type. The COLORado™ 1-Tri Tour uses a display-based control panel for programming functions.

Features

- 3, 4, 5, or 10-channel tri-color RGB LED wash light (with ID addressing)
- Operating modes (personalities)
  - 3-channel: RGB control
  - 3-channel: HSV control (hue, saturation, and value)
  - 4-channel: RGB, dimmer
  - 5-channel: RGB, dimmer, strobe
  - 10-channel: RGB, ID, dimmer, strobe, macro, auto/custom, dimmer speed, auto speed
- RGB color mixing with or without DMX controller
- Color temperature presets (3,200~10,000 K)
- Built-in automated programs via master/slave, DMX
- Recall custom programs via DMX

Additional Features

- Five distinct dimming curves
- 3-pin DMX input and output connectors
- Power linking: max 12 units @ 120 V
- LED display with password protection
- Gel frame holder (4 mm max thickness)
- Double-bracket yoke that doubles as floor stand
- NEUTRIK® powerCON connector

DMX Channel Summary

TOUR

DMX Channel	Function
1	Master Dimmer
2	Red
3	Green
4	Blue
5	Color Macro
6	Strobe
7	Auto Programs
8	Auto Speed Adjust
9	Dimmer Speed
10	ID Address

ARC1

DMX Channel	Function
1	Red
2	Green
3	Blue

AR1 + D

DMX Channel	Function
1	Master Dimmer
2	Red
3	Green
4	Blue

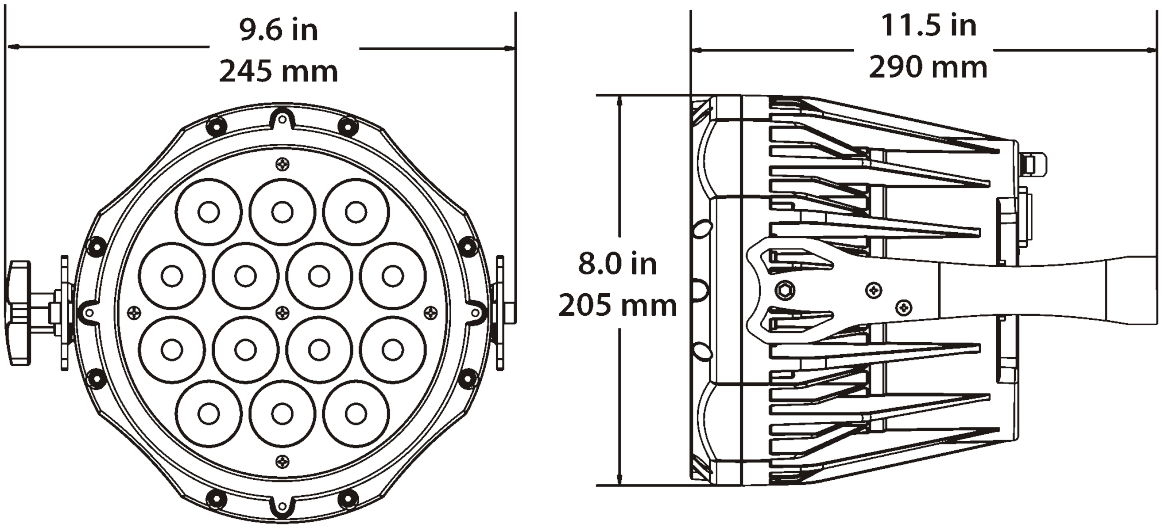
AR1 + S

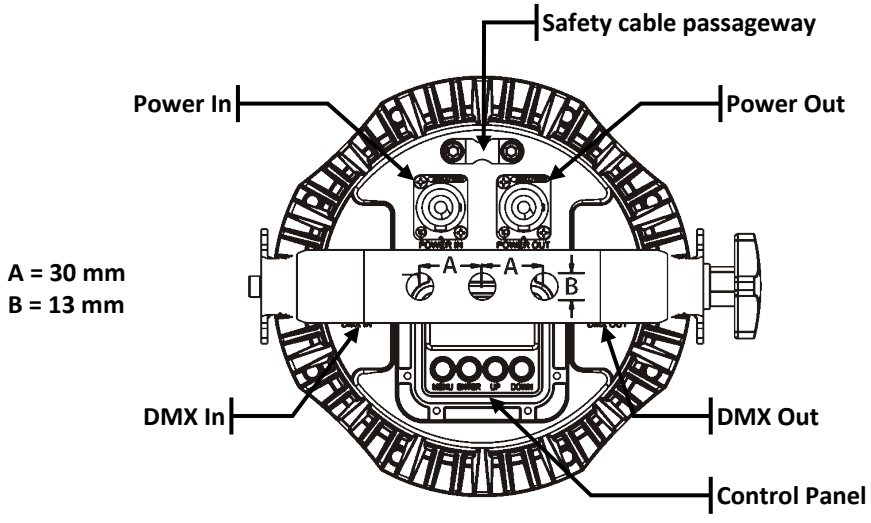
DMX Channel	Function
1	Master Dimmer
2	Red
3	Green
4	Blue
5	Strobe

HSV

DMX Channel	Function
1	Hue
2	Saturation
3	Value

Product Overview





3. Setup

AC Power

The COLORado™ 1-Tri 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 specifications in this guide, the product's user manual, or on the product's sticker.

Always connect the COLORado™ 1-Tri Tour 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™ 1-Tri Tour see the label affixed to the side of the fixture. Alternatively, you may refer to the corresponding specifications chart in the *Technical Information* chapter of this manual.

The listed current rating indicates the maximum current draw during normal operation. Please refer to the *Sizing the Circuit Breakers* section in the *Appendix* chapter of this manual.

Never connect the COLORado™ 1-Tri Tour 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 Tour comes with a power input cord terminated with a NEUTRIK® powerCON A connector on one end an Edison plug on the other end (US market). If the power cord that came with your fixture has no plug or you need to change the Edison plug, use the table below to wire the new plug.

Connection	Wire (US)	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 Tour supports power linking for up to 12 other COLORado™ 1-Tri Tour fixtures at 120 VAC. Each COLORado™ 1-Tri Tour has NEUTRIK® powerCON sockets for Power In and Power Out. Although the fixture comes with a power input cord, it comes with no power linking cord.

Fuse Replacement

The COLORado™ 1-Tri Tour fixture has no external fuse that the user can change. However, it does have an internal fuse that only an authorized CHAUVET® technician should change.

DMX Linking

You may link any COLORado™ 1-Tri Tour fixture to a DMX controller using a standard DMX serial connection. If using other DMX compatible fixtures with a COLORado™ 1-Tri Tour fixture, it is possible to 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 the COLORado™ 1-Tri Tour fixture to a DMX controller, you may download the "DMX Primer" document from the CHAUVET® Web site.

DMX Modes

The COLORado™ 1-Tri Tour uses the DMX data connection for its DMX modes, ***TOUR***, ***ARC1***, ***AR1 + D***, ***AR1 + S,*** and ***HSV***.

You will find information about these DMX modes in the *Introduction* chapter (brief description), the *Operation Instructions* chapter (configuration details), and the *DMX Values* section (individual channel values).

Master/Slave Connectivity

The Master/Slave mode allows a COLORado™ 1-Tri Tour fixture to control one or more COLORado™ 1-Tri Tour fixtures without a DMX controller. The controlling fixture becomes the "master" when running an Auto or Custom program as well as when in STATIC mode. The controlled fixtures are the "slaves" and you must set them to "SLAVE" mode from their respective control panels. During the Master/Slave operation, the slave fixtures will operate in unison with the master fixture.

The master and slave fixtures link to each other using the standard DMX serial connection. If you are not familiar with the Master/Slave connectivity, you may download the "DMX Primer" document from the CHAUVET® Web site.

The *Operation* chapter of this manual provides detailed instructions on how to configure the Master and Slave units.

DO NOT connect a DMX controller to the fixtures operating in Master/Slave mode. Otherwise, the signals from the DMX controller may interfere with the signals from the master unit.

ID Addressing

The COLORado™ 1-Tri Tour uses the ID Addressing feature to increase the number of addressable fixtures in the same DMX universe when in the TOUR personality. Refer to the *Operation* chapter in this manual to learn in detail how to configure the COLORado™ 1-Tri Tour fixtures when using ID Addressing.

Mounting

Read the safety notes at the beginning of this guide and follow their recommendations before mounting this product.

Orientation

Always mount this fixture in any safe position while making sure that there is adequate room around it for ventilation.

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

Rigging

The COLORado™ 1-Tri Tour consists of a sealed housing with a double bracket mounting yoke. It has two DMX signal sockets (DMX In/out), and two NEUTRIK® powerCON connectors (Power In/Out).

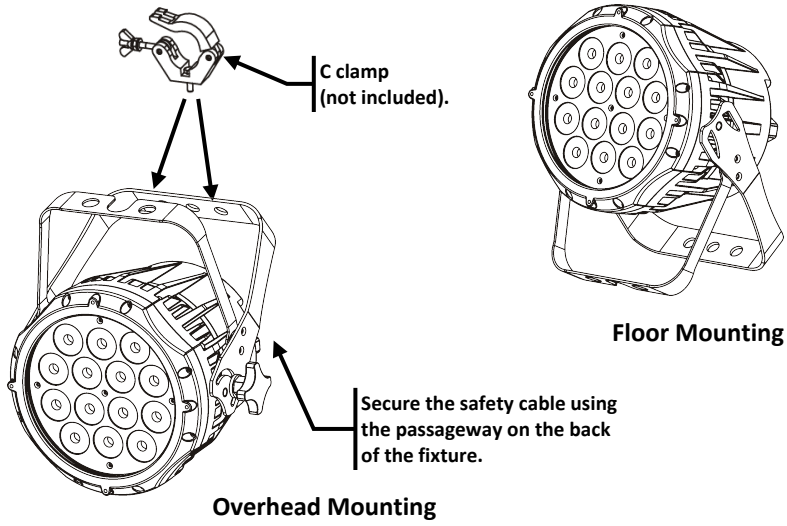
CHAUVET® recommends following the general guidelines below when mounting the COLORado™ 1-Tri Tour.

- When selecting an installation location, consider ease of access to the fixture for operation, programming adjustments, and routine maintenance.
- Never mount the fixture in places where rain, high humidity, extreme temperature changes, or restricted ventilation may affect it.
- Make sure that the location where you are mounting the fixture can support its weight. Please see the *Technical Specifications* section of this manual for the weight requirement of this fixture.

Procedure

This fixture includes a mounting yoke to which you can attach one or two rigging clamps. You must supply your own “C” or “O” clamps and make sure that they are capable of supporting the weight of this fixture. CHAUVET® recommends using at least two mounting points per fixture.

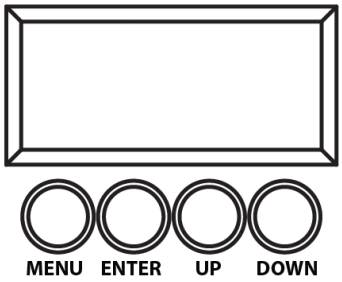
Product Mounting Diagram



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 in to the current function
<UP>	Navigates upwards through the menu list and increases the numeric value when in a function
<DOWN>	Navigates downwards through the menu list and decreases the numeric value when in a function



Control Options

You can set the COLORado™ 1-Tri Tour start address in the 001~512 DMX range. This allows for the control of up to 51 fixtures in the 10-channel TOUR personality. In addition, the ID address system allows you to assign up to 66 fixtures within the same DMX address, thus multiplying the number of fixtures you can control within a single universe. You can access the fixture's ID address system from channel 10 when in the TOUR mode.

When programming live performances as well as cues that need to trigger on demand or on a time line, program no more than 10 fixtures on ID addressing per DMX channel. This is to remain within a one-second execution time.

Programming

Carry out all the programming procedures indicated below from the control panel. Refer to the *Menu Map* to learn how the menu options relate to each other.

When navigating the menu map, remember that **<MENU>** will take you to the left of the menu map, while **<ENTER>** will take you to the right. Similarly, **<UP>** and **<DOWN>** will displace the menu options up or down, similar to **<Page UP>** and **<Page Down>** in a computer keyboard. Do not forget to press **<ENTER>** to validate a selection.

DMX Personality

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

1) Go to ***PERS***.
2) Select the desired personality (***TOUR***, ***ARC1***, ***AR1 + D***, ***AR1 + S***, or **HSV**).

DMX Control Without ID Addressing

In this mode, each unit will respond to a unique starting address from the DMX controller. All units with the same starting address will respond in unison.

1) Select the ***TOUR*** 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**).
4) Deactivate ID Addressing on each fixture:
   a) Go to ***SET > ID***.
   b) Select ***OFF***.

Make sure to deactivate ID Addressing in each fixture when using the TOUR personality. Otherwise, unintended results may occur if channel 10 is not set to "0".

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DMX Control With ID Addressing

In this mode, the fixtures with the same DMX starting address will respond to the DMX controller based on the fixture's individual ID address setting. If the user selects ID address "0", all the fixtures with the same DMX address will respond in unison. Otherwise, each fixture will follow the control for its particular ID address.

1) Repeat steps **1**, **2**, and **3** from *DMX Control Without ID Addressing*.
2) Activate ID Addressing in each fixture:
   a) Go to ***SET > ID***.
   b) Select ***ON***.
3) Select an ID address for each fixture:
   a) Go to ***ID***.
   b) Select an ID (**01~66**)

Static Color

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

1) Go to ***STAT***.
2) Select the desired color (**Red**, **Green,** or **Blue**).
3) Select the desired color value (**0**~**255**).
4) Repeat for the other colors.
5) Select ***Strob***.
6) Select the desired frequency (**0**~**20**).

Auto Programs

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

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

You cannot edit auto programs AT. 01~10. However you can edit PR. 01~10 (see *Edit Customs*).

Edit Customs

This setting allows for 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 auto program (**PR. 01**~**10**).
3) Select the desired scene (**SC. 01**~**30**).
4) Select the desired color or effect (***Red***, ***Green***, ***Blue***, ***Strobe***, ***Time*****,** or ***Fade***).
5) Select the desired value for the color or effect (**000~255** for colors and timers, or **00~20** for Strobe).
6) Repeat for the other colors or effects.
7) Repeat for the other scenes.

Master/Slave

The Master/Slave mode allows a group of COLORado™ 1-Tri Tour fixtures (the slaves) to execute simultaneously the same program, whether auto or custom, that another COLORado™ 1-Tri Tour fixture (the master) is executing, without a DMX controller.

1) Set the Master Unit:
   a) Set the running mode to **DMX** as explained in "*DMX Control Without ID Addressing".*
   b) Select an Auto program as explained in "*Auto Programs*".
2) Set the slave units:
   a) Go to ***RUN***.
   b) Select ***SLAV***.

- **The fixture that runs an auto program automatically becomes the Master.**
- **Do not connect a DMX controller to the master or slave fixtures.**

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Color Adjustment

The ***Color*** setting determines how the COLORado™ 1-Tri Tour displays the white color when the Red, Green, and Blue faders are all at the "255" value.

1) Go to ***SET > Color***.
2) Select **OFF**, ***RGBW,*** or ***UC***.

Color Adjustment Table

Setting	Description
OFF	When R, G, and B are "255," the output will be at its maximum.
RGBW	When R, G, and B are "255," **CAL2** will determine the output.
UC	When R, G, and B are "255," the output will match that of fixtures from previous generations.

Dimmer Curves

This setting determines how the output of the COLORado™ 1-Tri Tour follows the position of the Dimmer fader, as well as the Red, Green, and Blue faders.

1) Go to ***SET***.
2) Select ***Dim***.
3) Select a dimmer curve (**Off**, **Dim1**, **Dim2**, **Dim3,** or **Dim4**).

Setting	Description
OFF	The output is proportional to the faders' position (linear)
Dim1	The output is not proportional (fastest)
Dim2	The output is not proportional (fast)
Dim3	The output is not proportional (slow)
Dim4	The output is not proportional (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 fixture's settings.

1) Go to ***KEY***.
2) Select **On/ Off**.

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

After being prompted to enter the password:

1) Press **<UP>**, **<DOWN>**, **<UP>**, **<DOWN>** and **<ENTER>**

Program Upload

This option allows the user to copy the custom programs of one COLORado™ 1-Tri Tour fixture onto other COLORado™ 1-Tri Tour fixtures by using the Master/Slave method.

1) Configure and connect the fixtures in a Master/Slave arrangement, where the master unit has the custom programs you want to transfer onto the slave units.
2) At the master unit, go to ***SET*** > **UPLD**.
3) When prompted, enter the master access password as shown in *Control Panel Lock*.
4) Wait for the upload process to finish before disconnecting the fixtures.

During and after the upload, the master and slave units will visually indicate the status of the process, as follows:

Color	Meaning
Yellow	The upload process is running
Red	The upload failed due to an error
Green	The upload finished successfully

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Reset

This setting allows the user to reset the COLORado™ 1-Tri Tour fixture to its default values, including the custom programs.

1) Go to ***SET> REST***.
2) When prompted, enter the master access password as shown in *Control Panel Lock*.
3) Wait for the reset process to finish.

Whites Setting

This setting allows the user to edit the temperature of the 11 white colors used in the Macros channel. The 11 pre-set whites are configurable.

1) Go to ***CAL1***.
2) Select a white color (***WT. 1~11***).
3) Select a color (***Red***, ***Green,*** or ***Blue***).
4) Select a color value (**0~255**).
5) Repeat for the other colors (***Red***, ***Green,*** or ***Blue***).
6) Repeat for the other white colors (***WT. 1~11***).

White Calibration

This setting allows the user to select the white color shown by the COLORado™ 1-Tri Tour when the color setting is ***RGBW*** and the Red, Green, and Blue faders are set to "255".

1) Go to ***CAL2 >*** **RGBW**.
2) Select a color (***Red***, ***Green,*** or ***Blue***).
3) Select a color value (**0~255**).
4) Repeat for the other colors (***Red***, ***Green,*** or ***Blue***).

TOUR Notes

These notes intent 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 (**255**) the intensity of the output is at its maximum.

Red, Green, & Blue Color Selection

- Channels 2, 3, and 4 control the intensity ratio of the Red, Green, and Blue LEDs respectively.
- When each of these sliders is at the highest position (**255**), the intensity of the corresponding color is at its maximum.
- You can combine channels 2, 3, and 4 to create over 16 million colors.

Color Macros

- Channel 5 selects the required Color Macro.
- Channel 5 has priority over channels 2, 3, and 4.
- Channel 1 controls the intensity of the Color Macro.

Strobe

- Channel 6 controls the strobe frequency (not the intensity) of channels 2~5.
- Channel 6 strobes channels 2, 3, and 4 when not running macros, allowing the individual faders (R, G, and B) as well as channel 1 (D) to control the output intensity.
- Channel 6 strobes channel 5 when running macros, allowing channel 5 to select the macro and channel 1 to control the output intensity.

Auto

- Channel 7 selects the preset Auto programs **AT. 01~10** or the custom Auto programs **CUS. 01~10**.
- When activating the custom Auto programs **CUS. 01~10**, it is possible to control the Step Time and Fade Time using channels 2 and 3 respectively.
- Channel 7 has priority over channels 2, 3, 4, 5, & 6.

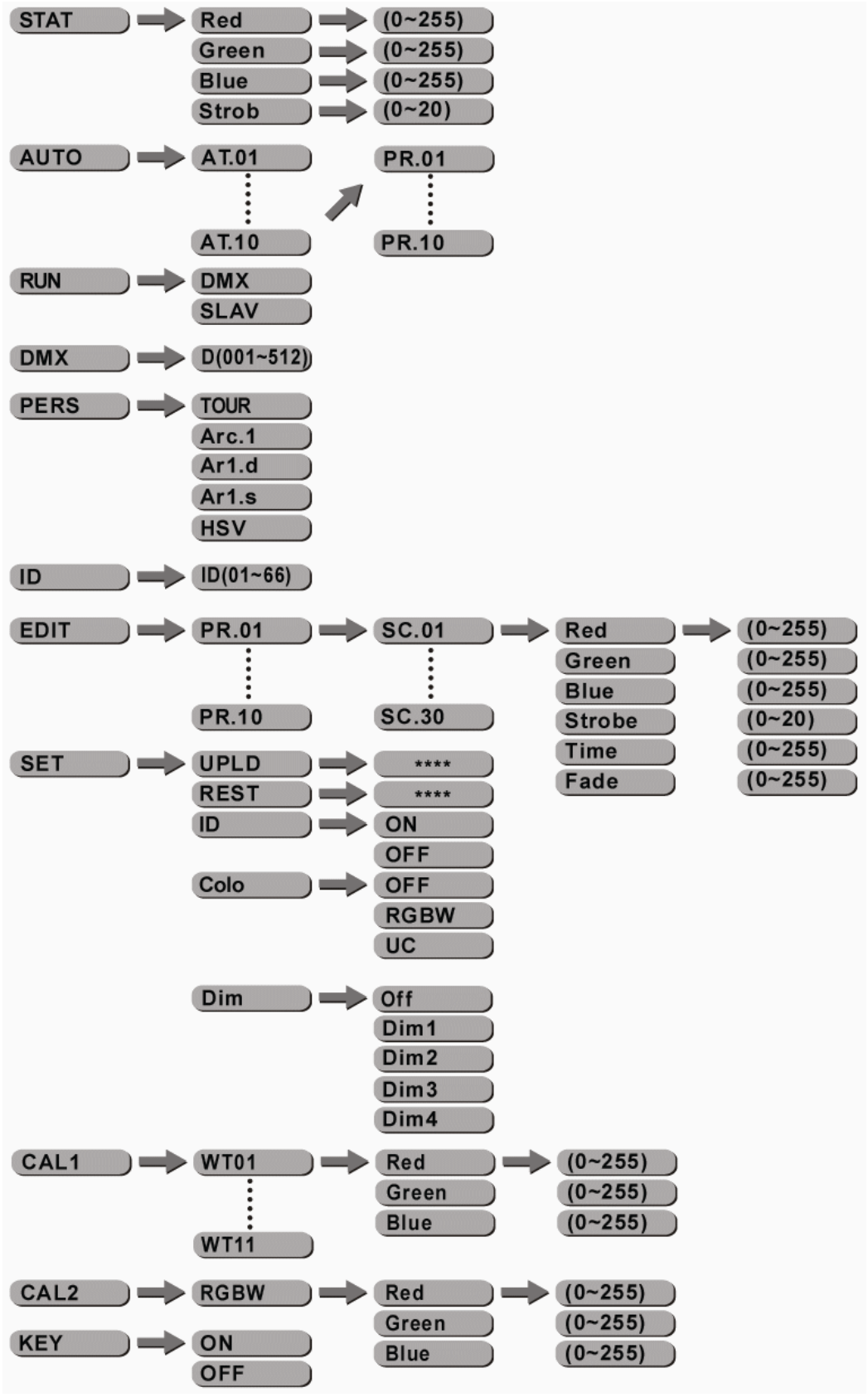
Dimmer Speed

- Channel 9 is for selecting the dimmer mode and speed. When ***Dimmer*** is set to **Off,** the R, G, B, and Dimmer outputs are linear with the faders. Otherwise, **Dim1** is the fastest dimmer curve, while **Dim4** is the slowest.

ID Address Selection

- Channel 10 selects the target ID address.
- Each independent DMX address may have up to 66 independent ID addresses.
- An ID address of **0** will activate all ID address locations.

Menu Map


STAT
Red
Green
Blue
Strob
(0~255)
(0~255)
(0~255)
(0~20)
AUTO
AT.01
AT.10
PR.01
PR.10
RUN
DMX
SLAV
DMX
D(001~512)
PERS
TOUR
Arc.1
Ar1.d
Ar1.s
HSV
ID
ID(01~66)
EDIT
PR.01
PR.10
SC.01
SC.30
Red
Green
Blue
Strobe
Time
Fade
(0~255)
(0~255)
(0~255)
(0~20)
(0~255)
(0~255)
SET
UPLD
REST
ID
Colo
Dim
****
****
ON
OFF
OFF
RGBW
UC
Off
Dim1
Dim2
Dim3
Dim4
CAL1
WT01
WT11
Red
Green
Blue
(0~255)
(0~255)
(0~255)
CAL2
RGBW
Red
Green
Blue
(0~255)
(0~255)
(0~255)
KEY
ON
OFF

DMX Values

TOUR

Channel	Function	Value	Percent/Setting
1	**Master Dimmer**	000 ó 255	0~100%
2	**Red**	000 ó 255	0~100% (or Step Time when playing CUS. 01~10)
3	**Green**	000 ó 255	0~100% (or Fade Time when playing CUS. 01~10)
4	**Blue**	000 ó 255	0~100%
5	**Color Macro**	000 ó 010	No function
		011 ó 030	Red 100% / Green Up / Blue 0%
		031 ó 050	Red Down / Green 100% / Blue 0%
		051 ó 070	Red 0% / Green 100% / Blue Up
		071 ó 090	Red 0% / Green Down ‘ Blue 100%
		091 ó 110	Red Up / Green 0% / Blue 100%
		111 ó 130	Red 100% / Green 0% / Blue Down
		131 ó 150	Red 100% / Green Up / Blue Up
		151 ó 170	Red Down / Green Down / Blue 100%
		171 ó 200	Red 100% / Green 100% / Blue 100%
		201 ó 205	White 1: 3,200 K
		206 ó 210	White 2: 3,400 K
		211 ó 215	White 3: 4,200 K
		216 ó 220	White 4: 4,900 K
		221 ó 225	White 5: 5,600 K
		226 ó 230	White 6: 5,900 K
		231 ó 235	White 7: 6,500 K
		236 ó 240	White 8: 7,200 K
		241 ó 245	White 9: 8,000 K
		246 ó 250	White 10: 8,500 K
		251 ó 255	White 11: 10,000 K
6	**Strobe**	000 ó 010	No function
		011 ó 255	0~20 Hz
7	**Auto**	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 works if AUTO 01~10 is playing)
9	**Dimmer Speed**	000 ó 009	Use dimmer speed from control panel
		010 ó 029	Linear dimmer
		030 ó 069	Non-linear dimmer 1 (fastest)
		070 ó 129	Non-linear dimmer 2
		130 ó 189	Non-linear dimmer 3
		190 ó 255	Non-linear dimmer 4 (slowest)

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TOUR (Cont.)

Channel	Function	Value	Setting	Value	Setting	Value	Setting
10	**ID Address**	000 ó 009	All IDs	212	ID 23	235	ID 46
		010 ó 019	ID 1	213	ID 24	236	ID 47
		020 ó 029	ID 2	214	ID 25	237	ID 48
		030 ó 039	ID 3	215	ID 26	238	ID 49
		040 ó 049	ID 4	216	ID 27	239	ID 50
		050 ó 059	ID 5	217	ID 28	240	ID 51
		060 ó 069	ID 6	218	ID 29	241	ID 52
		070 ó 079	ID 7	219	ID 30	242	ID 53
		080 ó 089	ID 8	220	ID 31	243	ID 54
		090 ó 099	ID 9	221	ID 32	244	ID 55
		100 ó 109	ID 10	222	ID 33	245	ID 56
		110 ó 119	ID 11	223	ID 34	246	ID 57
		120 ó 129	ID 12	224	ID 35	247	ID 58
		130 ó 139	ID 13	225	ID 36	248	ID 59
		140 ó 149	ID 14	226	ID 37	249	ID 60
		150 ó 159	ID 15	227	ID 38	250	ID 61
		160 ó 169	ID 16	228	ID 39	251	ID 62
		170 ó 179	ID 17	229	ID 40	252	ID 63
		180 ó 189	ID 18	230	ID 41	253	ID 64
		190 ó 199	ID 19	231	ID 42	254	ID 65
		200 ó 209	ID 20	232	ID 43	255	ID 66
		210	ID 21	233	ID 44		
		211	ID 22	234	ID 45		

ARC1

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	**Master 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	**Master 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 010 011 ó 255	No function 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%

- **“Hue” refers to the visible light, such as red, yellow, and cyan, etc.**
- **“Saturation” indicates the dominance of hue in the color; when saturation is at 100%, the color is at its purest.**
- **“Value” is the color’s brightness; when value is at 100%, the color is at its brightest.**

5. Technical Information

General Maintenance

To maintain optimum performance and minimize wear, the user should clean the light fixtures frequently. Usage and environment are contributing factors in determining the cleaning frequency. As a rule, the user should clean the fixtures 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.

CHAUVET® recommends cleaning the fixture's external optics with a soft cloth using normal glass cleaning fluid.

To clean a fixture, follow the below recommendations:

- Unplug the fixture from power.
- Wait until the fixture is cold.
- Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external vents and reachable internal components.
- Clean all external optics and glass surfaces with a mild solution of glass cleaner or isopropyl alcohol, and a soft, lint free cotton cloth or a lens cleaning tissue.
- Apply the solution directly to the cloth or tissue and drag any dirt and grime to the outside of the lens.
- Gently polish the external glass surfaces until they are free of haze and lint.
- When cleaning units with a movable mirror, you should keep the contact with the mirror surface to a minimum to avoid scratching or damaging it.

Always dry the external optics and glass surfaces carefully after cleaning them.

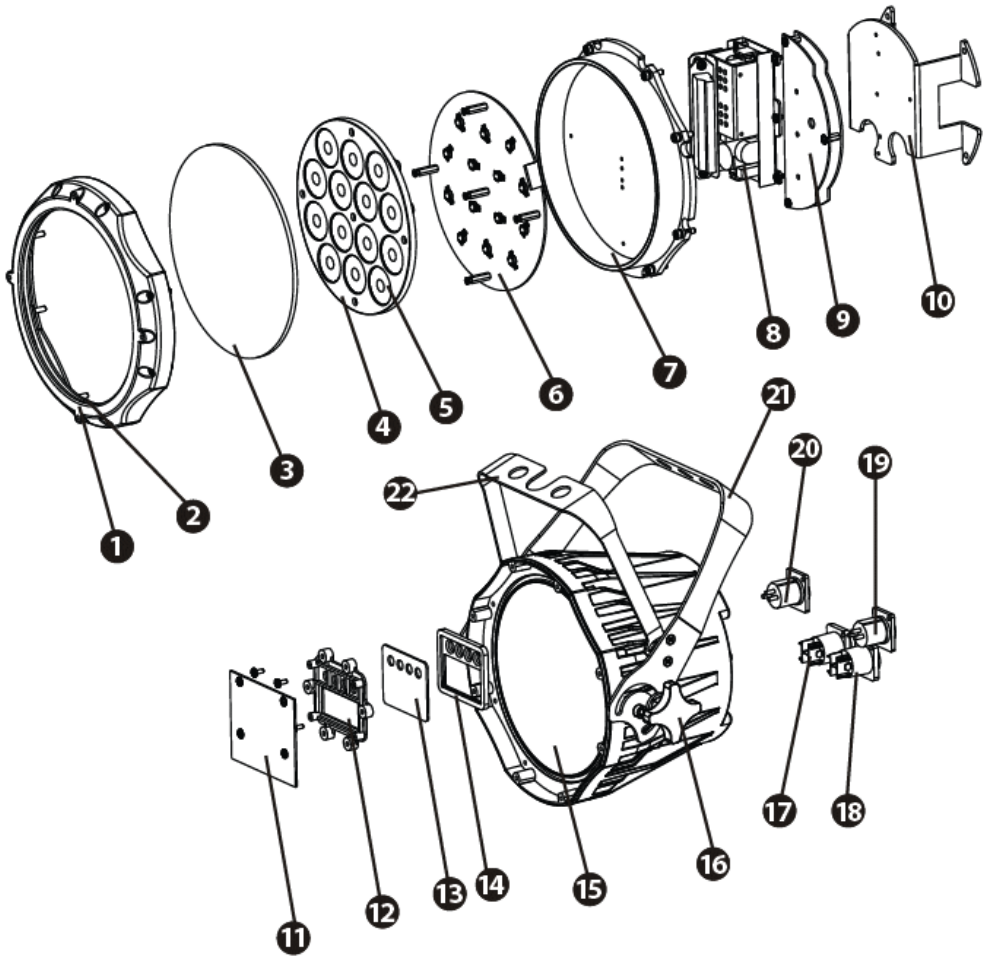
If the fixture has one or more cooling fans, refrain from spinning them using compressed air.

Troubleshooting Guide

Symptom	Cause(s)	Action(s)
General low light intensity	· Dirty lens assembly	· Clean the fixture regularly
	· Misaligned lens assembly	· Install lens assembly properly
A single tri color LED does not illuminate	· Faulty LED	· Replace the LED board
	· Faulty LED board	· Replace the LED board
A group of tri-color LEDs does not illuminate	· Faulty LED	· Replace the LED board
	· Faulty LED board	· Replace the LED board
	· Faulty LED driver	· Replace the LED driver board
None of the LEDs are illuminating	· Faulty LED PCB	· Replace the LED board
	· Faulty LED Driver PCB	· Replace the LED driver board
	· Faulty main PCB	· Replace the Display / Main board
Breaker/Fuse keeps blowing	· Excessive circuit load	· Check total load placed on the electrical circuit
	· Short circuit along the power wires	· Check for a short in the electrical wiring
Fixture does not power up	· No power	· Check for power on power outlet
	· Loose or damaged power cord	· Check power cord
	· Blown internal fuse	· Replace internal fuse
	· Faulty internal power supply	· Replace internal power supply
Fixture does not respond to DMX	· Wrong DMX addressing	· Check Control Panel and unit addressing
	· Damaged DMX cables	· Check DMX cables
	· Wrong polarity on the controller	· Check polarity switch settings on the controller
	· Loose DMX cables	· Check cable connections
	· Faulty DMX interface	· Replace Main PCB
	· Faulty Main PCB	· Replace Main PCB
DMX signal problems	· Non DMX cables	· Use only DMX compatible cables
	· Bouncing signals	· Install terminator as suggested
	· Long cable / low level signal	· Install an optically coupled DMX splitter right after fixture with strong signal
	· Too many fixtures	· Install an optically coupled DMX splitter after unit #32
	· Interference from AC wires	· Keep DMX cables separated from power cables or black lights

If you still experience technical problems after trying the above solutions, contact CHAUVET® Technical Support.

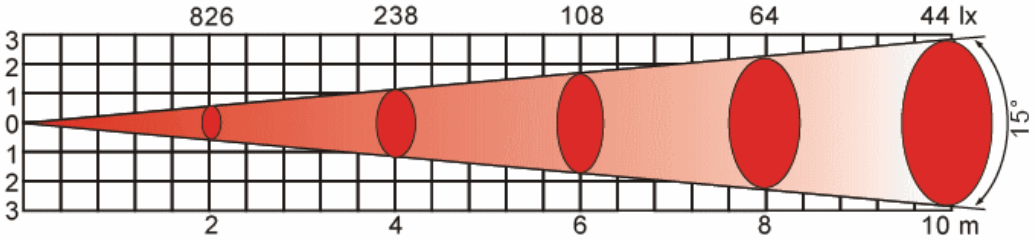
Exploded View



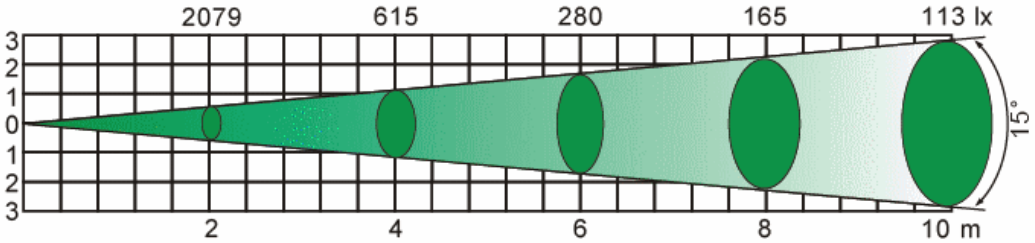
Item	Description	Item	Description
1	Front cover	12	Button Module
2	Rubber seal	13	Display protection plate
3	Front tempered glass	14	Button seal
4	Lens holder	15	Casing
5	15º lens	16	Adjusting stainless steel knob
6	LED board	17	NEUTRIK® PowerCON B connector
7	Heat sink	18	NEUTRIK® PowerCON A connector
8	Power supply	19	3-pin DMX In socket
9	Driver board	20	3-pin DMX Out socket
10	Power connection board	21	Main bracket
11	Display / Main board	22	Secondary bracket

Photometrics

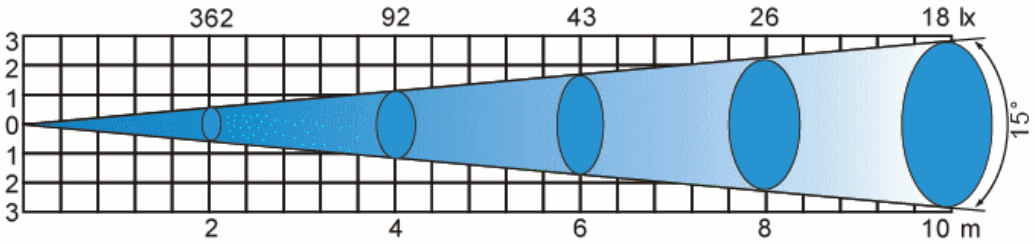
Red



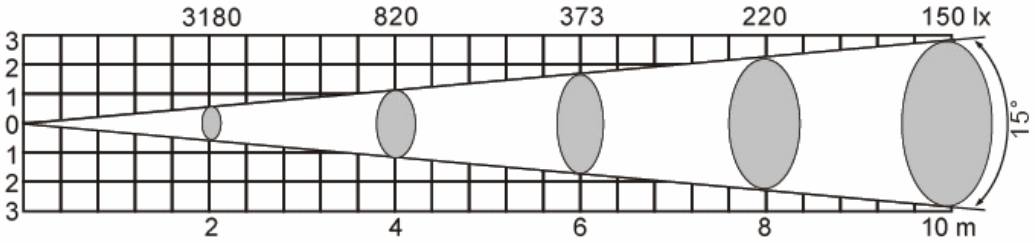
Green



Blue



RGB



Returns Procedure

The user must send the merchandise prepaid, in the original box, and with its original packing and accessories. CHAUVET® will not issue call tags.

Call CHAUVET® and request a Return Merchandise Authorization Number (RMA #) before shipping the fixture. 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 a Return Merchandise Authorization Number (RMA #). CHAUVET® will refuse any product returned without an RMA #.

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

Once you are given an RMA #, please include the following information on a piece of paper inside the box:

- Your name
- Your address
- Your phone number
- The RMA #
- A brief description of the symptoms

Be sure to pack the fixture properly. Any shipping damage resulting from inadequate packaging will be the customer's responsibility. As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

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 seven (7) days of receiving the merchandise.

Contact Us

World Headquarters

General Information

CHAUVET®
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

World Wide Web

www.chauvetlighting.com

Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
11.4 in (290 mm)	9.6 in (245 mm)	8.0 in (205 mm)	9 lbs (4.5 kg)

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

Power

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

Parameter	120 V, 60 Hz	230 V, 50 Hz
Consumption	52 W (0.77 A)	50 W (0.4 A)
Inrush current	0.2 A	0.4 A
Power Linking	12 units	24 units

Power I/O	Input	Output
Connectors	NEUTRIK® powerCON A	NEUTRIK® powerCON B
Cord plug	Edison	N/A

Light Source

Type	Power	Lifespan
LED	3 W	50,000 hours

Color	Quantity	Current
Tri-color	14	1,050 mA (per die)

Photo Optic

Parameter	Standard 16º Optics
Illuminance @ 5 m	306 lx
Beam angle	17º
Field angle	32

Thermal

Maximum External Temp.	Cooling System
104° F (40° C)	Convection

DMX

I/O Connectors	Connector Type	Channel Range
3-pin XLR	Sockets	3, 4, 5, and 10

Ordering

COLORado™ 1-Tri Tour
COLORADO1TRITOUR

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