COLORADO™ 1 TRI IP
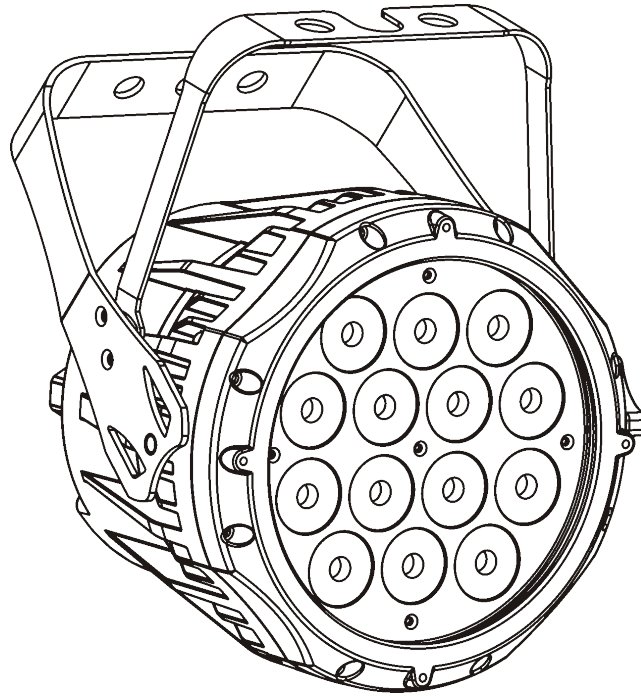
User Manual

Edition Notes

The COLORado™ 1-Tri IP User Manual Rev. 01c 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. 01c in December 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 IP 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 IP User Manual Rev. 01c 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	Editor	Manager	PD Manager
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Product at a Glance

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

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COLORado™ 1-Tri IP User Manual Rev. 01c   -a-

1. Before You Begin

What is Included

- · One COLORado™ 1-Tri IP
- · One proprietary IP66 to Edison power input cable (US market)
- · One proprietary IP66 power extension cable
- · One proprietary IP66 signal extension cable
- · One DMX input cable (proprietary IP66 to 3-pin XLR male)
- · One DMX output cable (proprietary IP66 to 3-pin XLR female)
- · 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 in the text
50/60	A set of mutually exclusive values in the text
[10]	A DIP switch to be configured
Claims	A new term, or a section or chapter in this document
"COLORado™ UM"	The name of another publication or manual
<SET>	A button on the fixture's control panel
Settings	A fixture 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 entered or select in a menu

Icon Meaning

Icon	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 this product. Any reference to servicing it 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 the proper installation of this product.

Keep this manual for future consultation. If you sell this product 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 and outdoor use (IP66). Do not submerge it.
- 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.
- 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 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 CHAUVET® product 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 IP is an RGB wash light based on 14 tri-color 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 proprietary IP66 rated power input cord. The power linking uses a proprietary IP66 rated power link cord. The DMX input and output signals use proprietary IP66 DMX in and DMX out cords. The fixture comes with all the necessary adapters to connect to the proprietary IP66 cords as well a power and signal link cables. The COLORado™ 1-Tri IP uses a display-based control panel for programming functions.

Features

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

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
- Color calibration
- Durable and weather resistant IP66 rated housing
- IP66 power and DMX connectors

Options

- 16.4 ft (5 m) power extension cable (IP5POWER)
- 16.4 ft (5 m) signal extension cable (IP5SIG)

DMX Channel Summary

<table>
<tr><td rowspan="11">TOUR</td><td>DMX Channel</td><td>Function</td></tr>
<tr><td>1</td><td>Master Dimmer</td></tr>
<tr><td>2</td><td>Red</td></tr>
<tr><td>3</td><td>Green</td></tr>
<tr><td>4</td><td>Blue</td></tr>
<tr><td>5</td><td>Color Macro</td></tr>
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<tr><td>8</td><td>Auto Speed Adjust</td></tr>
<tr><td>9</td><td>Dimmer Speed</td></tr>
<tr><td>10</td><td>ID Address</td></tr>
</table>

<table>
<tr><td rowspan="4">ARC1</td><td>DMX Channel</td><td>Function</td></tr>
<tr><td>1</td><td>Red</td></tr>
<tr><td>2</td><td>Green</td></tr>
<tr><td>3</td><td>Blue</td></tr>
</table>

<table>
<tr><td rowspan="5">AR1 + D</td><td>DMX Channel</td><td>Function</td></tr>
<tr><td>1</td><td>Master Dimmer</td></tr>
<tr><td>2</td><td>Red</td></tr>
<tr><td>3</td><td>Green</td></tr>
<tr><td>4</td><td>Blue</td></tr>
</table>

<table>
<tr><td rowspan="6">AR1 + S</td><td>DMX Channel</td><td>Function</td></tr>
<tr><td>1</td><td>Master Dimmer</td></tr>
<tr><td>2</td><td>Red</td></tr>
<tr><td>3</td><td>Green</td></tr>
<tr><td>4</td><td>Blue</td></tr>
<tr><td>5</td><td>Strobe</td></tr>
</table>

<table>
<tr><td rowspan="4">HSV</td><td>DMX Channel</td><td>Function</td></tr>
<tr><td>1</td><td>Hue</td></tr>
<tr><td>2</td><td>Saturation</td></tr>
<tr><td>3</td><td>Value</td></tr>
</table>

Product Overview

9.6 in
245 mm

9.6 in
245 mm

8.0 in
205 mm

Safety cable passageway

Power In

Power Out

POWER IN   POWER OUT

A = 30 mm
B = 13 mm

B   A — A   B

DMX IN   DMX OUT

MENU ENTER UP DOWN

DMX In

DMX Out

**Control Panel
(Plate removed)**
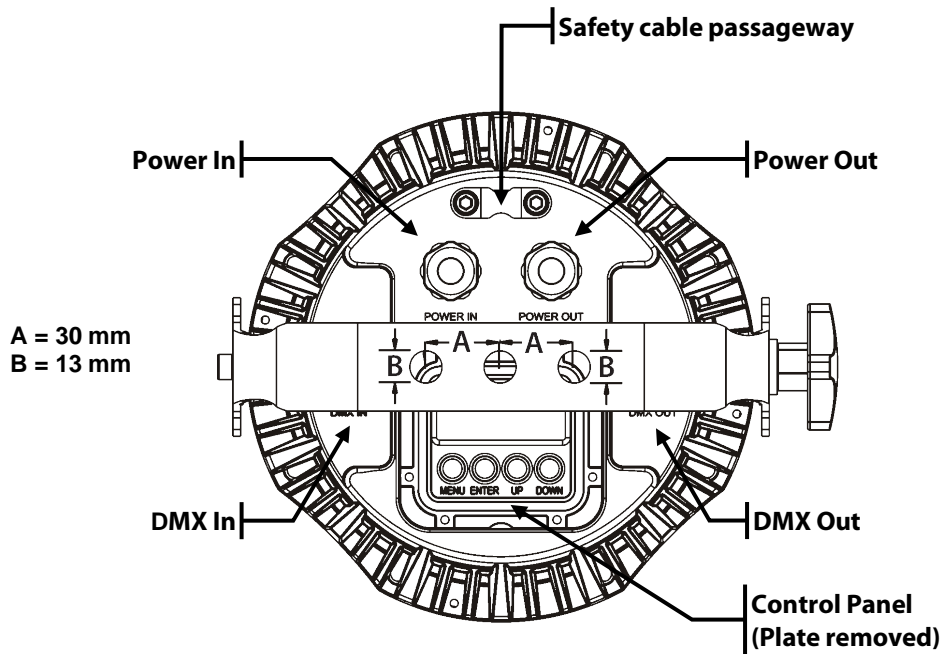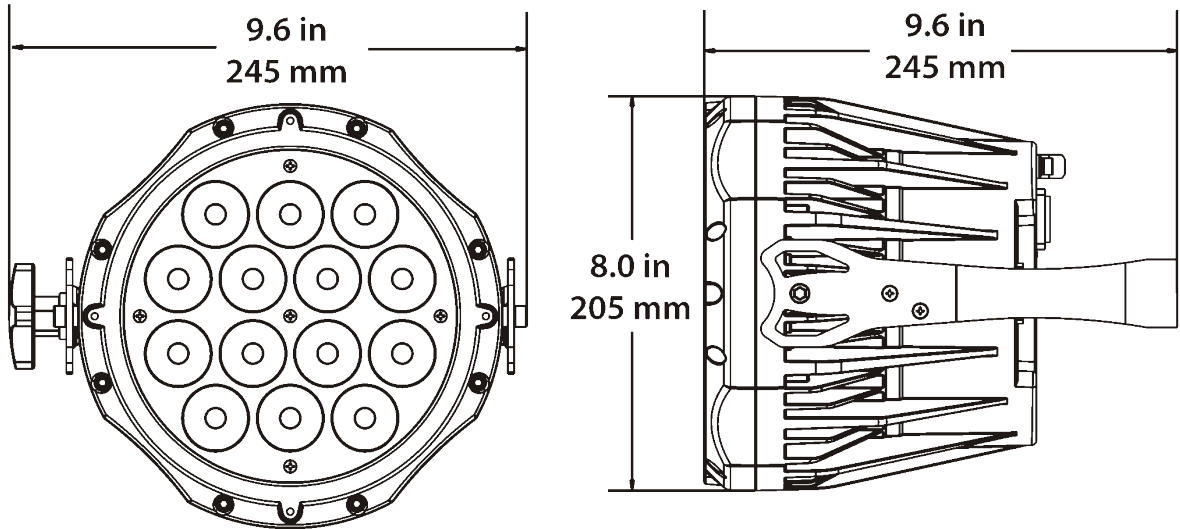
3. Setup

AC Power

The COLORado™ 1-Tri IP 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 IP 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 IP 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. For more information, you may download the "Sizing the Circuit Breakers" document from the CHAUVET® Web site.

Never connect the COLORado™ 1-Tri IP 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

Each COLORado™ 1-Tri IP has IP66 rated cords for Power In and Power Out with proprietary IP66 connectors. These power cords access the sealed body of the fixture through IP66 cable glands. To allow connection to power outlets, the fixture comes with a power input cord with a proprietary IP66 connector on one end and an Edison plug on the other end (US market). In case you need to replace the Edison plug on the power input cord, follow the table below.

Connection	Wire (US)	Wire (Europe)	IP66 Pin	Screw Color
AC Live	Black	Brown	1	Yellow or Brass
AC Neutral	White	Blue	2	Silver
AC Ground	Green/Yellow	Green/Yellow	3	Green

Power Linking

The COLORado™ 1-Tri IP supports power linking for up to 12 other COLORado™ 1-Tri IP fixtures at 120 VAC. The fixture also comes with an IP66 power linking cord to allow direct connection between fixtures.

Fuse Replacement

The COLORado™ 1-Tri IP 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 IP fixture to a DMX controller using a standard DMX serial connection. If using other DMX compatible fixtures with a COLORado™ 1-Tri IP 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 IP fixture to a DMX controller, you may download the "DMX Primer" document from the CHAUVET® Web site.

The COLORado™ 1-Tri IP comes with two adapter cables, one from proprietary IP66 to 3-pin DMX In and the other from proprietary IP66 to 3-pin DMX Out. In addition, it comes with a signal linking cable with proprietary IP66 connectors on both ends.

DMX Modes

The COLORado™ 1-Tri IP uses the standard 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 IP fixture to control one or more COLORado™ 1-Tri IP 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.

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.

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

ID Addressing

The COLORado™ 1-Tri IP 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 IP fixtures when using ID Addressing. If you are not familiar with the various connection methods when using ID Addressing, you may download the "DMX Primer" document from the CHAUVET® Web site.

Mounting

Before mounting this fixture, read and follow the safety recommendations indicated in the *Safety Notes* section (page 2 of this manual).

Orientation

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

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

Rigging

The COLORado™ 1-Tri IP consists of a sealed (IP66) housing with a double bracket mounting yoke. It has two DMX signal cables (DMX In/DMX Out), and two power cables (Power In/Power Out), all of them fitted with proprietary IP66 connectors.

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

· When selecting an installation location, consider ease of access to the fixture for operation, programming adjustments, and routine maintenance.

· If hanging this fixture, 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

The COLORado™ 1-Tri IP includes a safety cable and 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. Although it is possible to use a single clamp per fixture, CHAUVET® recommends using two clamps per fixture. Secure the fixture with the safety cable after mounting it to the truss.

C clamp (not included).

Floor Mounting

Product Mounting Diagram

Secure the safety cable using the passageway on the back of the fixture.

Overhead Mounting
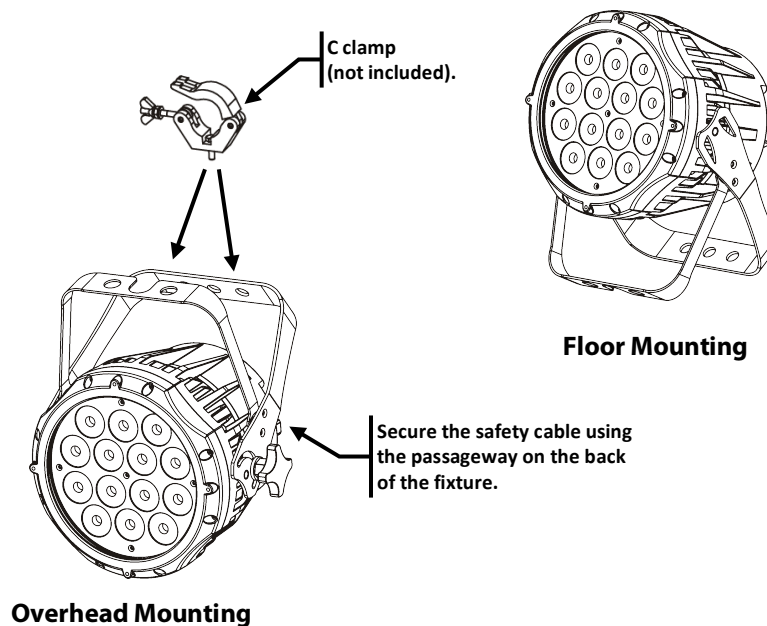
4. Operation

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 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

MENU   ENTER   UP   DOWN
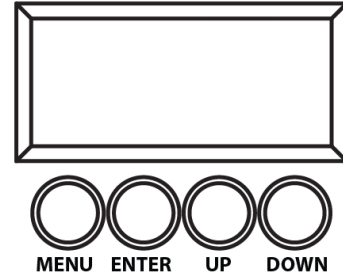
Control Options

You can set the COLORado™ 1-Tri IP 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 personality.

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* on page 14 to learn how the menu options relate to each other.

To go to an option, press **<MENU>** repeatedly until the option shows on the display.

To select an option value, press **<UP>** or **<DOWN>** until you see the desired value and press **<ENTER>** to accept it.

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**, **ARC1**, **AR1 + D**, **AR1 + S**, or **HSV**).
3) Make sure that the starting addresses on the various fixtures do not overlap due to the new personality setting. See the *DMX Values* section.

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".

Continues on the next page

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 IP fixtures (the slaves) to execute simultaneously the same program, whether auto or custom, that another COLORado™ 1-Tri IP 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.**

Continued from previous page

Color Adjustment

The *COLOR* setting determines how the COLORado™ 1-Tri IP 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*.

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 IP follows the position of the Dimmer fader, as well as the Red, Green, and Blue faders.

1) Go to *SET > Dim*.
2) 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 IP fixture onto other COLORado™ 1-Tri IP 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

Continues on the next page

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Reset
This setting allows the user to reset the COLORado™ 1-Tri IP 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 IP when the color setting is **RGBW** and the DMX controller's 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 each of the Red, Green, and Blue LEDs.
· When the slider is at the highest position (**255**), the intensity of each 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 strobes channel 6 when running macros, allowing channel 6 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 programs **CUS. 01~10**.
· When activating the custom 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, and 6.

Dimmer Speed

· Channel 9 is for selecting the dimmer mode and speed. When *Dimmer* is set to **Off,** the Red, Green, Blue, 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
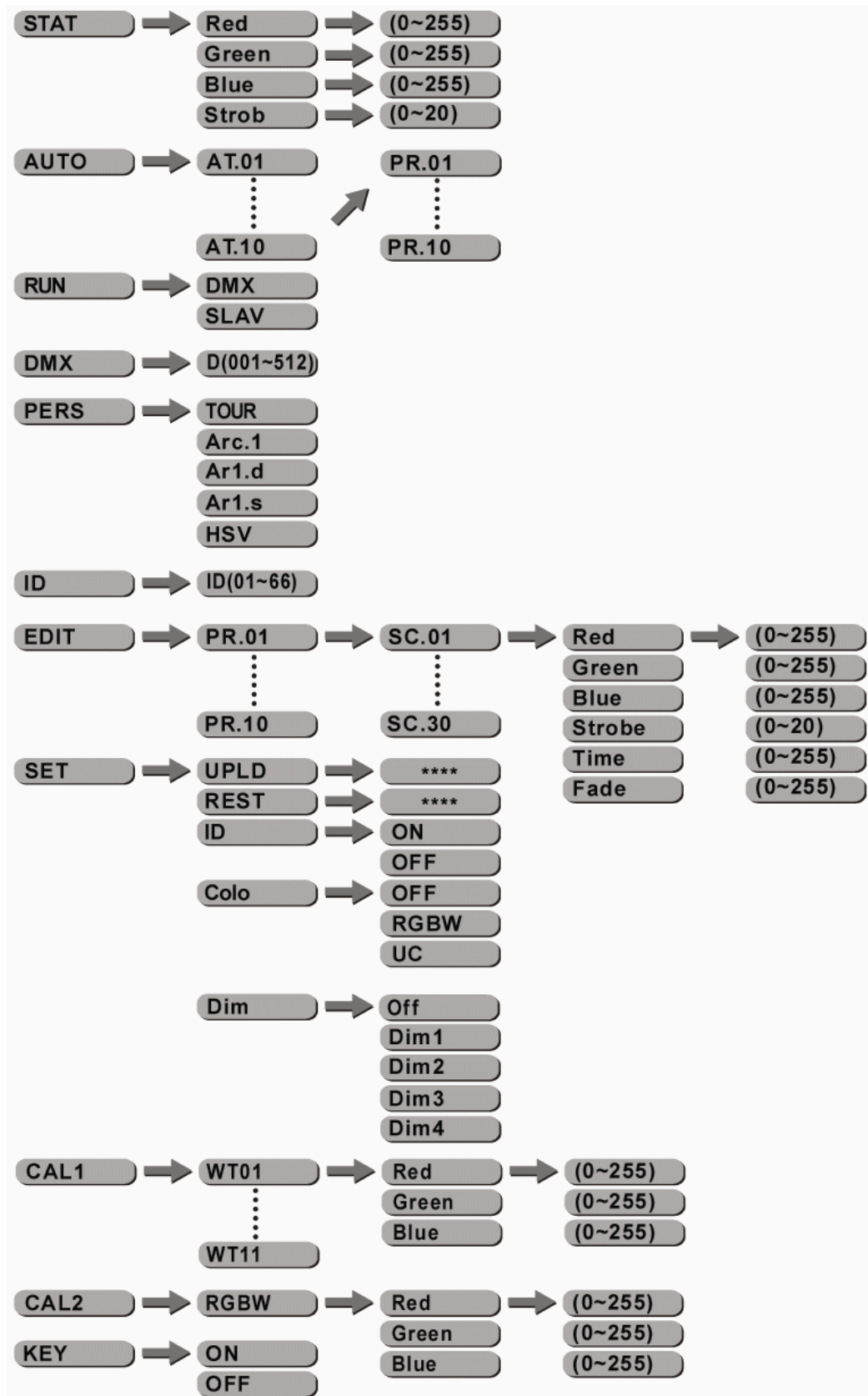
```
STAT  →  Red    →  (0~255)
         Green  →  (0~255)
         Blue   →  (0~255)
         Strob  →  (0~20)

AUTO  →  AT.01     PR.01
            ⋮   ↗     ⋮
         AT.10     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  →  SC.01  →  Red     →  (0~255)
            ⋮        ⋮        Green   →  (0~255)
         PR.10     SC.30      Blue    →  (0~255)
                              Strobe  →  (0~20)
                              Time    →  (0~255)
                              Fade    →  (0~255)

SET   →  UPLD   →  ****
         REST   →  ****
         ID     →  ON
                   OFF
         Colo   →  OFF
                   RGBW
                   UC

         Dim    →  Off
                   Dim1
                   Dim2
                   Dim3
                   Dim4

CAL1  →  WT01   →  Red     →  (0~255)
            ⋮        Green   →  (0~255)
         WT11        Blue    →  (0~255)

CAL2  →  RGBW   →  Red     →  (0~255)
                   Green   →  (0~255)
KEY   →  ON        Blue    →  (0~255)
         OFF
```

DMX Values

	Channel	Function	Value	Percent/Setting
TOUR	1	Master Dimmer	000 → 255	0~100%
	2	Red	000 → 255	0~100% (or)
		Step Time		When playing a custom program
	3	Green	000 → 255	0~100% (or)
		Fade Time		When playing a custom program
	4	Blue	000 → 255	0~100%
	5	Color Macro	000 → 010	No function
			011 → 030	R: 100% G: Up B: 0%
			031 → 050	R: Down G: 100% B: 0%
			051 → 070	R: 0% G: 100% B: Up
			071 → 090	R: 0% G: Down B: 100%
			091 → 110	R: Up G: 0% B: 100%
			111 → 130	R: 100% G: 0% B: Down
			131 → 150	R: 100% G: Up B: Up
			151 → 170	R: Down G: Down B: 100%
			171 → 200	R: 100% G: 100% B: 100% W: 100%
			201 → 205	White 1: 3,200 K
			206 → 210	White 2: 3,400 K
			211 → 215	White 3: 4,200 K
			216 → 220	White 4: 4,900 K
			221 → 225	White 5: 5,600 K
			226 → 230	White 6: 5,900 K
			231 → 235	White 7: 6,500 K
			236 → 240	White 8: 7,200 K
			241 → 245	White 9: 8,000 K
			246 → 250	White 10: 8,500 K
			251 → 255	White 11: 10,000 K
	6	Strobe	000 → 010	No function
			011 → 255	0~20 Hz
	7	Auto	000 → 020	No function
			021 → 030	Auto 1
			031 → 040	Auto 2
			041 → 050	Auto 3
			051 → 060	Auto 4
			061 → 070	Auto 5
			071 → 080	Auto 6
			081 → 090	Auto 7
			091 → 100	Auto 8
			101 → 110	Auto 9
			111 → 120	Auto 10
			121 → 130	Custom 1
			131 → 140	Custom 2
			141 → 150	Custom 3
			151 → 160	Custom 4
			161 → 170	Custom 5
			171 → 180	Custom 6
			181 → 190	Custom 7
			191 → 200	Custom 8
			201 → 210	Custom 9
			211 → 220	Custom 10
			221 → 255	No function
	8	Auto Speed	000 → 255	0~100% (Only when playing an automatic program)
	9	Dimmer Speed	000 → 009	Use dimmer speed from 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)

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TOUR (Cont.)

Channel	Function	Value	Setting	Value	Setting	Value	Setting
		000 ⬌ 009	All IDs	212	ID 23	235	ID 46
		010 ⬌ 019	ID 1	213	ID 24	236	ID 47
		020 ⬌ 029	ID 2	214	ID 25	237	ID 48
		030 ⬌ 039	ID 3	215	ID 26	238	ID 49
		040 ⬌ 049	ID 4	216	ID 27	239	ID 50
		050 ⬌ 059	ID 5	217	ID 28	240	ID 51
		060 ⬌ 069	ID 6	218	ID 29	241	ID 52
		070 ⬌ 079	ID 7	219	ID 30	242	ID 53
		080 ⬌ 089	ID 8	220	ID 31	243	ID 54
		090 ⬌ 099	ID 9	221	ID 32	244	ID 55
		100 ⬌ 109	ID 10	222	ID 33	245	ID 56
10	ID Address	110 ⬌ 119	ID 11	223	ID 34	246	ID 57
		120 ⬌ 129	ID 12	224	ID 35	247	ID 58
		130 ⬌ 139	ID 13	225	ID 36	248	ID 59
		140 ⬌ 149	ID 14	226	ID 37	249	ID 60
		150 ⬌ 159	ID 15	227	ID 38	250	ID 61
		160 ⬌ 169	ID 16	228	ID 39	251	ID 62
		170 ⬌ 179	ID 17	229	ID 40	252	ID 63
		180 ⬌ 189	ID 18	230	ID 41	253	ID 64
		190 ⬌ 199	ID 19	231	ID 42	254	ID 65
		200 ⬌ 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 ⬌ 255	0~100%
2	Green	000 ⬌ 255	0~100%
3	Blue	000 ⬌ 255	0~100%

ARC1 + D

Channel	Function	Value	Percent/Setting
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%

AR1 + S

Channel	Function	Value	Percent/Setting
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	Strobe	000 ⬌ 010 011 ⬌ 255	No function 0~20 Hz

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HSV

Channel	Function	Value	Percent/Setting
1	Hue	000 ⚊ 255	0~100%
2	Saturation	000 ⚊ 255	0~100%
3	Value	000 ⚊ 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.
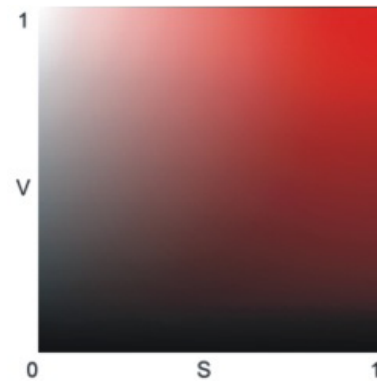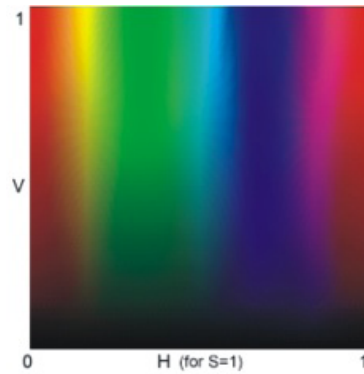
5. Technical Information

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 recommendations below:

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

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Exploded View
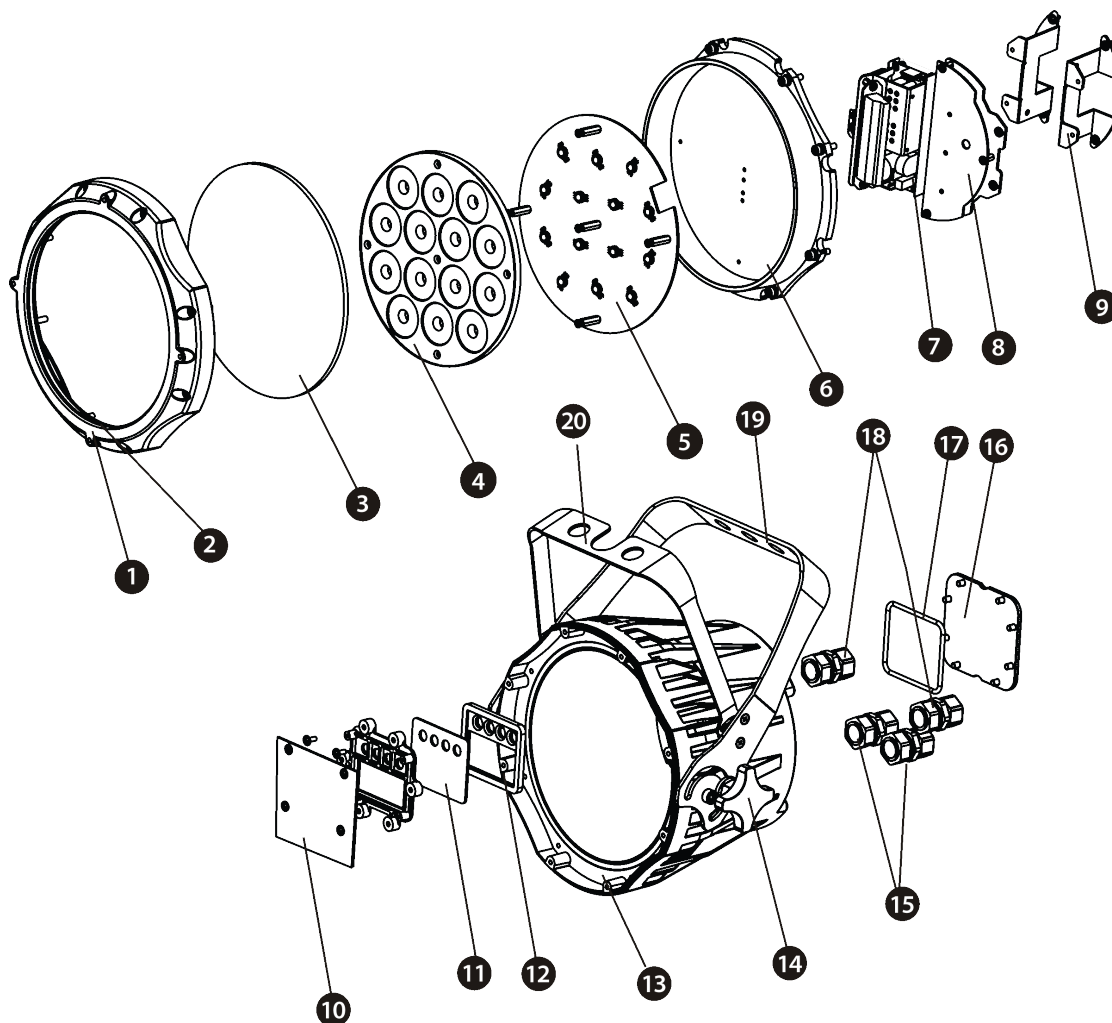
| Item	Description	Item	Description
1	Front cover	**11**	Display clear plate
2	Rubber seal **(*)**	**12**	Button seal
3	Clear glass	**13**	Casing
4	Lens complete set	**14**	Stainless steel knob
5	LED board	**15**	Power cord gland
6	Heat sink	**16**	Display protection plate
7	Power supply	**17**	Display plate seal
8	Driver board	**18**	DMX cable gland
9	Power connection board	**19**	Main bracket
10	Display board	**20**	Secondary bracket

(*): The rubber seal can be a separate ring or it may come mounted around the glass cover
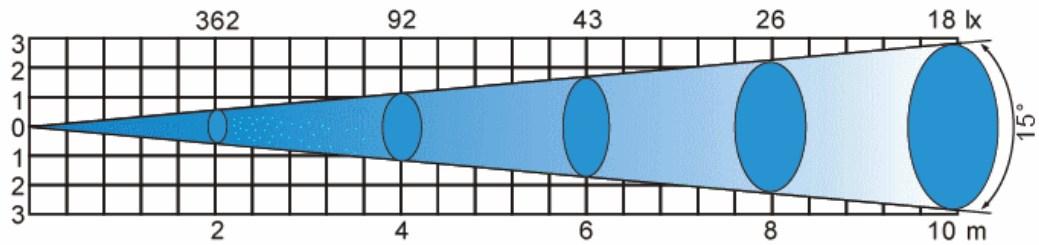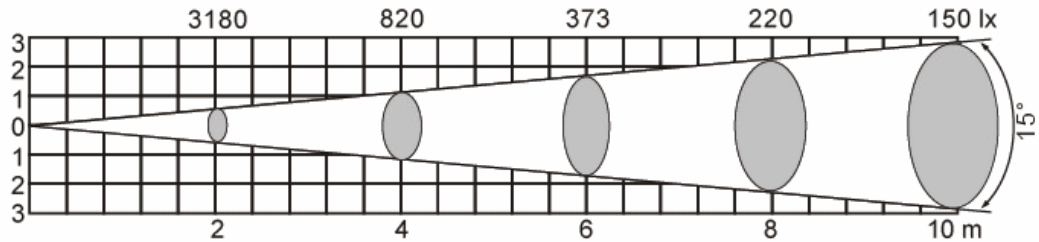
Photometrics

Red
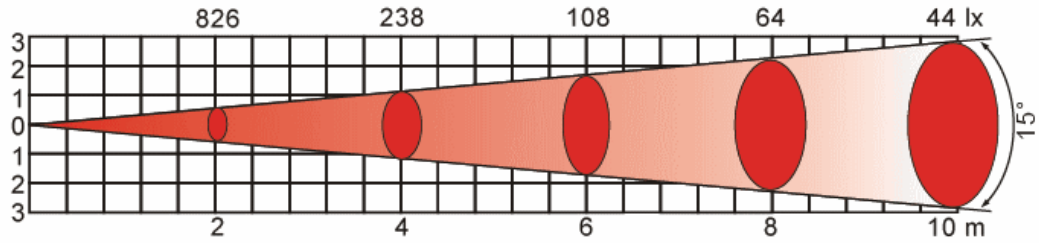
Green
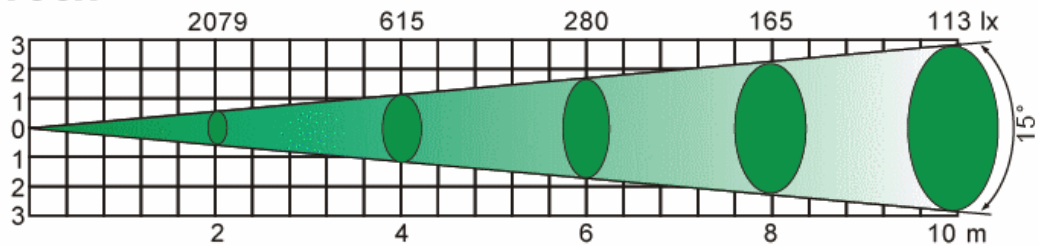
Blue

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 receive the 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 problem

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
9.6 in (245 mm)	8.0 in (205 mm)	9.6 in (245 mm)	10.6 lbs (4.8 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	88 W (0.7 A)	88 W (0.4 A)
Inrush current	0.4 A	0.4 A
Power Linking	12 units	24 units

Power I/O	Input	Output
Connectors	In-line proprietary IP66	In-line proprietary IP66
Cord plug (US)	Proprietary IP66 to Edison	Proprietary IP66

Light Source

Type	Power	Lifespan
LED	3 W	50,000 hours

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

Photo Optic

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

Thermal

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

DMX

I/O Connectors	Connector Type	Channel Range
3-pin XLR (IP66 adapter)	In-line	3, 4, 5, and 10

Ordering

COLORado™ 1-Tri IP	Power extension cable	Signal extension cable
COLORADO1TRIIP	IP5POWER	IP5SIG

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December 2010

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