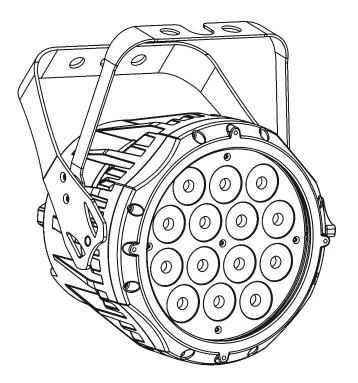


User Manual







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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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.				
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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.				
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	Outdoor Use	P	Auto-ranging Power S	Supply	P
			Replaceable Fuse		
	Sound Activated				X
	Sound Activated	P	User Serviceable		X X



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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

Convention Meaning

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

Typographic	Convention	Meaning	
Conventions	1~512	A range of values in the text	
Conventions	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></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	
-	Â	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.	
	Í	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.		
	······································		
\triangle	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.		
Í	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 $\ensuremath{\mathbb{B}}$ product may require service, please contact CHAUVET $\ensuremath{\mathbb{B}}$ 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.

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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 signa 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)

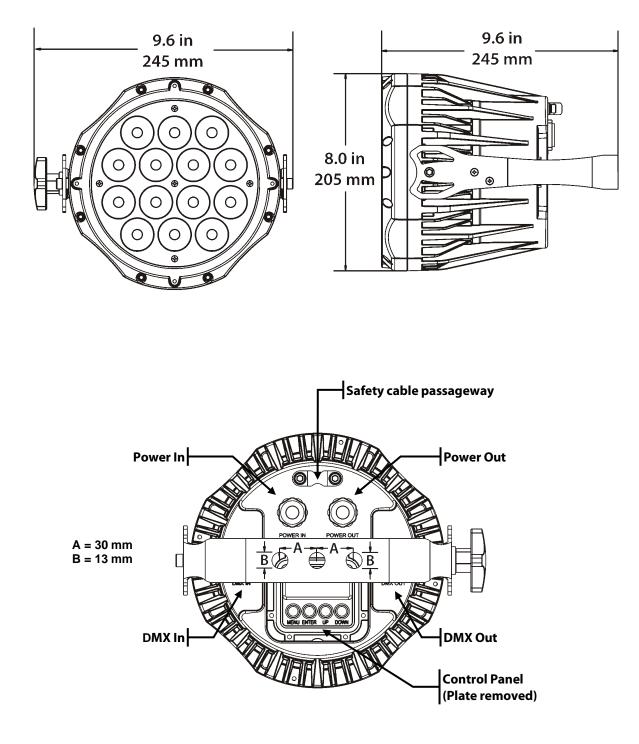


DMX Channel Summary

	DMX Channel	Function
TOUR	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
4.54 . 5	DMX Channel	Function
AR1 + D	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
1101/	DMX Channel	Function
HSV	1	Hue
	2	Saturation
	3	Value
		•



Product Overview





3. Setup

AC Power

The COLORadoTM 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. The COLORado[™] 1-Tri IP fixture has no external fuse that the user can change.

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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 <i>Introduction</i> chapter (brief description), the <i>Operation Instructions</i> chapter (configuration details), and the <i>DMX Values</i> 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.
Í	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.

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.

The Operation chapter of this manual provides detailed instructions on how to



Mounting	Before mounting this fixture, read and follow the safety recommendations indicated in the <i>Safety Notes</i> 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 <i>Safety Notes</i> 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 <i>Technical Specifications</i> 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).
Product Mounting Diagram	Floor Mounting
	Secure the safety cable using the passageway on the back of the fixture.

Overhead Mounting



4. Operation

Control Panel	Button	Function	
Description	<menu></menu>	Exits from the current menu or function	
2000.19.1011	<enter></enter>	Enables the currently displayed menu or sets the currently selected value in to the current function	
	<up></up>	Navigates upwards through the menu list and increases the numeric value when in a function	
	<down></down>	Navigates downwards through the menu list and decreases the numeric value when in a function	MENU ENTER UP DOWN
Control Options	allows for the addition, the DMX address	e control of up to 51 fixtures in the ID address system allows you to ass s, thus multiplying the number of fix a can access the fixture's ID address	ess in the 001~512 DMX range. This ne 10-channel TOUR personality. In sign up to 66 fixtures within the same tures you can control within a single system from channel 10 when in the
	demand or o		II as cues that need to trigger on an 10 fixtures on ID addressing per cond execution time.
Programming		the programming procedures indicate Map on page 14 to learn how the men	ed below from the control panel. Refer au options relate to each other.
	To go to an o	ption, press <menu></menu> repeatedly unti	I the option shows on the display.
		option value, press < UP> or < DOWN R> to accept it.	I> until you see the desired value and
	•	previous menu level, press <menu></menu>	
DMX Personality	This setting a	llows the user to choose a particular	DMX personality.
Dinki electranty	1) Go to PE		
	2) Select the	e desired personality (TOUR, ARC1, A	AR1 + D, AR1 + S, or HSV).
		e that the starting addresses on the v personality setting. See the <i>DMX Valu</i>	
DMX Control Without ID		e, each unit will respond to a unio units with the same starting address	que starting address from the DMX will respond in unison.
Addressing	1) Select the	e TOUR personality as shown in <i>DM</i>	K Personality.
/ luci cooning	,	Inning mode:	
	a) Go to		
	b) Selec		
	a) Go to	arting address:	
	,	t the starting address (001~512).	
	,	e ID Addressing on each fixture:	
	, ,	SET > ID.	
	b) Selec	t OFF .	
(\mathbf{i})		· · · · · · · · · · · · · · · · · · ·	ach fixture when using the TOUR y occur if channel 10 is not set to

Continues on the next page



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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 <i>DMX Control Without ID Addressing</i>. 2) Activate ID Addressing in each fixture: a) Go to <i>SET > ID</i>. b) Select <i>ON</i>. 3) Select an ID address for each fixture: a) Go to <i>ID</i>. 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 (<i>Red</i>, <i>Green</i>, or <i>Blue</i>). 3) Select the desired color value (0~255). 4) Repeat for the other colors. 5) Select <i>Strob</i>. 6) Select the desired frequency (0~20).
Auto Programs	 Auto programs allow for dynamic RGB color mixing without a DMX controller. 1) Go to <i>AUTO</i>. 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 <i>Edit Customs</i>).
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 <i>EDIT</i>. 2) Select the desired auto program (PR. 01~10). 3) Select the desired scene (SC. 01~30). 4) Select the desired color or effect (<i>Red, Green, Blue, Strobe, Time</i>, or <i>Fade</i>). 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 , <i>RGBW</i> , or <i>UC</i> .

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.

- 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



	Continued from previous page			
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 .			
	 When prompted, enter the master access password as shown in <i>Control Panel Lock</i>. 			
	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 (<i>Red</i> , <i>Green</i> , or <i>Blue</i>).			
	4) Select a color value (0~255).			
	5) Repeat for the other colors (<i>Red</i> , <i>Green</i> , or <i>Blue</i>).			
	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 (<i>Red</i> , <i>Green,</i> or <i>Blue</i>).			
	3) Select a color value (0~255).			

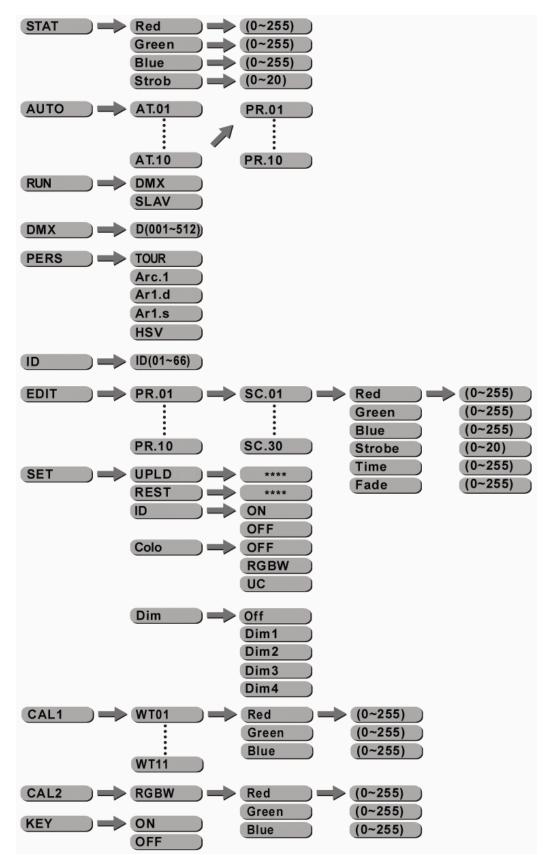
4) Repeat for the other colors (*Red*, *Green,* or *Blue*).



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 <i>Dimmer</i> 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



CHAUVET.

DMX Values

TOUR	Channel	Function	Value	Percent/Setting			
	1	Master Dimmer	000 ó 255	0~100%			
	•	Red	000 - 055	0~100% (or)			
	2	Step Time	000 ó 255	When playing a custom program			
	2	Green	000 ó 255	0~100% (or)			
	3	Fade Time	000 0 255	When playing a custom program			
	4	Blue	000 ó 255	0~100%			
			000 ó 010	No function			
			011 ó 030	R: 100% G: Up B: 0%			
			031 ó 050 051 ó 070	R: Down G: 100% B: 0% R: 0% G: 100% B: Up			
			071 Ó 090	R: 0% G: Down B: 100%			
			091 ó 110	R: Up G: 0% B: 100%			
				R: 100% G: 0% B: Down			
				R: 100% G: Up B: Up			
			151 ó 170 171 ó 200	R: Down G: Down B: 100% R: 100% G: 100% B: 100% W: 100%			
	5	Color Macro	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 225 226 ó 230	White 5: 5,600 K 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 250 251 ó 255	White 10: 8,500 K White 11: 10,000 K			
			000 ó 010	No function			
	6	Strobe	011 ó 255	0~20 Hz			
			000 ó 020	No function			
			021 ó 030	Auto 1 Auto 2 Auto 3 Auto 3 Auto 5 Auto 5 Auto 6 Auto 7 Auto 8 Auto 9 Auto 10 Custom 1 Custom 2			
			031 ó 040 041 ó 050				
			051 Ó 060				
			061 ó 070				
			071 ó 080				
			081 ó 090 091 ó 100				
		Auto	101 ó 110				
	7		111 ó 120				
	'		121 ó 130				
			131 ó 140 141 ó 150				
			151 ó 160	Custom 3 Custom 4			
			161 ó 170	Custom 5			
			171 ó 180	Custom 6			
			181 ó 190 191 ó 200	Custom 7			
			201 ó 210	Custom 8 Custom 9			
			211 ó 220	Custom 10			
			221 ó 255	No function			
	8	Auto Speed	000 ó 255	0~100% (Only when playing an automatic program)			
			000 ó 009	Use dimmer speed from control panel			
			010	Linear dimmer			
	9	Dimmer Speed	030 ó 069 070 ó 129				
			130 Ó 189				
			190 Ó 255	Non-linear dimmer 4 (slowest)			

Continues on the next page



TOUR (Cont.)	Channel	Function	Value	Setting	Value	Setting	Value	Setting
TOUR (Cont.)	10	ID Address	Value 000 \bigstar 009 010 \bigstar 019 020 \bigstar 029 030 \bigstar 039 040 \bigstar 049 050 \bigstar 059 060 \bigstar 069 070 \bigstar 079 080 \bigstar 089 090 \bigstar 099 100 \bigstar 109 120 \bigstar 129 130 \bigstar 139 140 \bigstar 149 150 \bigstar 159 160 \bigstar 169 170 \bigstar 179 180 \bigstar 189 190 \bigstar 209 210 211	All IDs ID 1 ID 2 ID 3 ID 4 ID 5 ID 6 ID 7 ID 8 ID 9 ID 10 ID 10 ID 10 ID 11 ID 12 ID 13 ID 14 ID 15 ID 16 ID 17 ID 18 ID 17 ID 18 ID 19 ID 20 ID 22	212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234	ID 23 ID 24 ID 25 ID 26 ID 27 ID 28 ID 29 ID 30 ID 31 ID 32 ID 33 ID 34 ID 35 ID 36 ID 37 ID 38 ID 39 ID 40 ID 41 ID 42 ID 43 ID 45	235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255	Setting ID 46 ID 47 ID 48 ID 50 ID 51 ID 52 ID 53 ID 54 ID 55 ID 56 ID 57 ID 58 ID 59 ID 60 ID 61 ID 62 ID 63 ID 64 ID 65 ID 66
ARC1	Channel	Function	Value	Percent/Se	tting			
	1	Red	000 ó 255	0~100%				
	2	Green	000 ó 255	0~100%				
	3	Blue	000 ó 255	0~100%				
ARC1 + D	Channel	Function	Value	Percent/Se	tting			
	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/Se	tting			
	1	Master Dimmer	000 ó 255	0~100%				
	2	Red	000 ó 255	0~100%				
	3	Green	000 6 255 0~100%					
	4	Blue	000 ó 255 0~100%					
	5	Strobe	000 Ó 010 011 Ó 255	No function 0~20 Hz				

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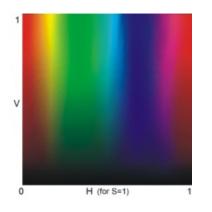
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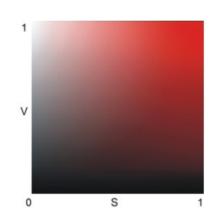
HSV	Channel	Function	Value	Percent/Setting
	1	Hue	000 ó 255	0~100%
	2	Saturation	000 ó 255	0~100%
	3	Value	000 ó 255	0~100%



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- "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.

 $\mathsf{CHAUVET}\ensuremath{\textcircled{B}}$ 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

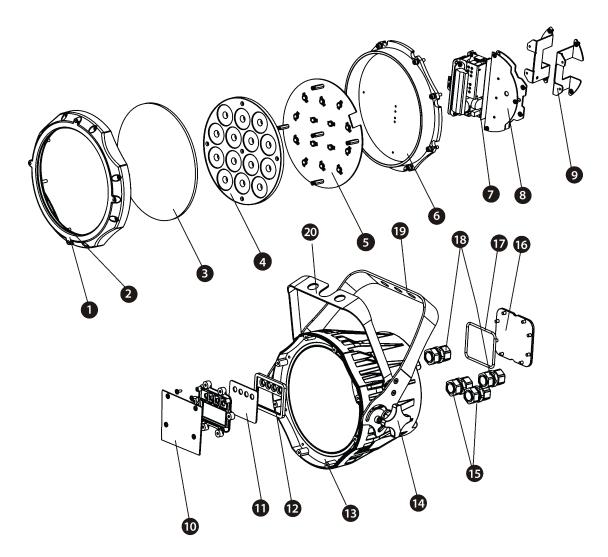
Symptom	Cause(s)	Action(s)		
Canaral law light intensity	Dirty lens assembly	Clean the fixture regularly		
General low light intensity	Misaligned lens assembly	Install lens assembly properly		
A single tri color LED	Faulty LED	Replace the LED board		
does not illuminate	Faulty LED board	Replace the LED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

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



Exploded View

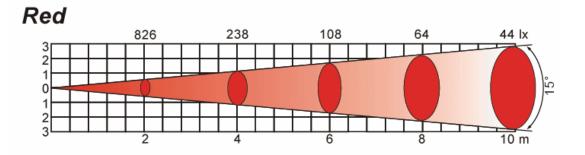


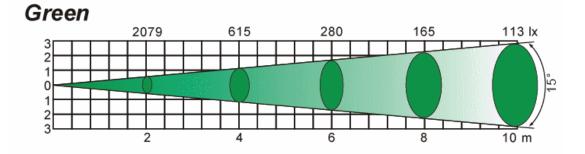
ltem	Description	Item	Description
1	Front cover	11	Display clear plate
2	Rubber seal (*)	12	Button seal
3	Clear glass	13	Casing
4	Lens complete set	14	Stainless steel knob
5	LED board 15		Power cord gland
6	Heat sink	16	Display protection plate
7	Power supply	17	Display plate seal
8	Driver board	18	DMX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

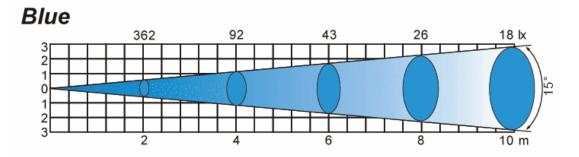
(*): The rubber seal can be a separate ring or it may come mounted around the glass cover

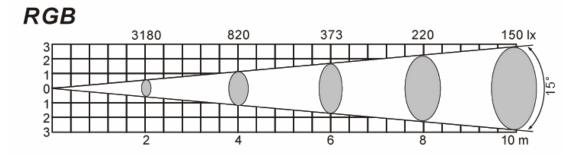


Photometrics











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 $\mbox{\sc will}$ 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.



$\ensuremath{\mathsf{CHAUVET}}\xspace^{\ensuremath{\mathsf{B}}\xspace}$ 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

	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	
Ŭ	9.6 in (245 mm)	8.0 in (205 mm)	9.6 in (245 mr		
	Note: Dimensions in inch	es rounded to the	nearest decimal di	iait.	
Power	Power Supply Type	Ra	nge	Voltage Selection	
	Switching (internal)	100~240 \	/, 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	1 A	0.4 A	
	Power Linking	12 units		24 units	
	Power I/O	Input		Output	
	Connectors	In-line prop	rietary IP66	In-line proprietary IP66	
	Cord plug (US)	Proprietary I	P66 to Edison	Proprietary IP66	
Light Source	Туре	Po	wer	Lifespan	
	LED	3	W	50,000 hours	
	Color	Qua	ntity	Current	
	Tri-color (RGB)	1	4	1,050 mA per die	
Photo Optic	Parameter	Standard	16º Optics		
	Illuminance @ 5 m	30	6 lx		
	Beam angle	1	7°		
	Field angle	3	2 ⁰		
Thermal	Thermal Maximum External Temp.		System		
	104° F (40° C)	Conv	ection		
DMX	I/O Connectors	Connec	tor Type	Channel Range	
2007	3-pin XLR (IP66 adapter		line	3, 4, 5, and 10	
		·, ·		2, ., 0, 00	
Ordering	COLORado™ 1-Tri IP	Power exte	nsion cable	Signal extension cable	
	COLORADO1TRIIP	IP5P0	DWER	IP5SIG	



CHAUVET®

5200 NW 108th Avenue Sunrise, FL 33351 (USA) (800) 762-1084 – (954) 929-1115 FAX (954) 929-5560 www.chauvetlighting.com

COLORado™ 1-Tri IP User Manual Rev. 01c December 2010

