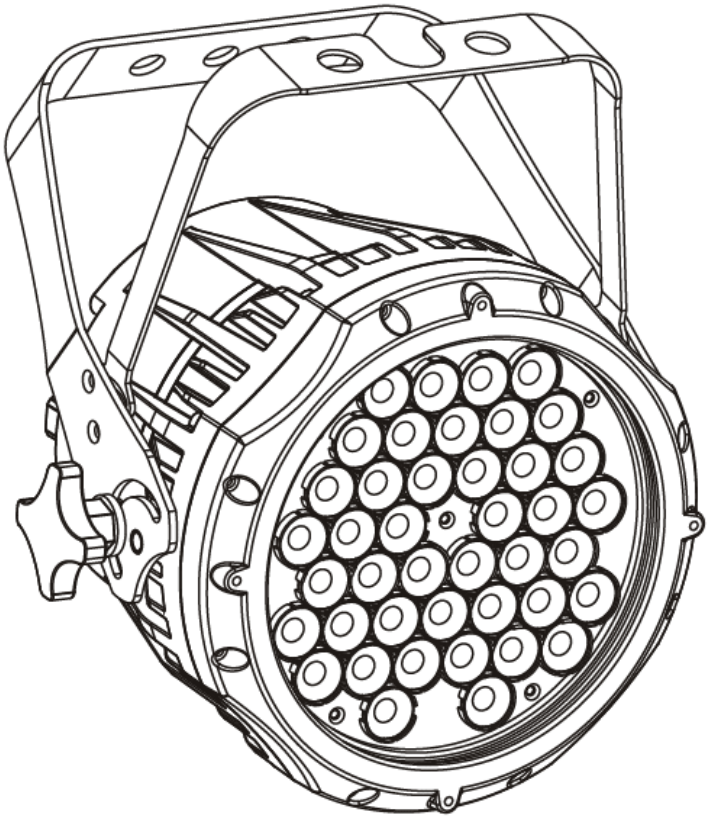
COLORADO™ 1 TOUR

User Manual



CHAUVET® PROFESSIONAL

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, and White Color Selection

- Channels 2, 3, 4, and 5 control the intensity ratio of each of the Red, Green, Blue, and White 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, 4, and 5 to create over four billion colors

Color Macros

- Channel 6 selects the required Color Macro
- Channel 6 has priority over channels 2, 3, 4, and 5
- Channel 1 controls the intensity of the Color Macro

Strobe

- Channel 7 controls the strobe frequency (not the intensity) of channels 2~6
- Strobe 1 is with RGB in-step
- Strobe 2 is with RGB out-step
- Strobe 3 is a pulse strobe(fast on/slow off)
- Strobe 4 is a pulse strobe (slow on/fast off)
- Channel 7 strobes channels 2, 3, 4, and 5 when not running macros, allowing the individual faders (R, G. B, and W) 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 controls the output intensity

ID Address Selection

- Channel 11 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

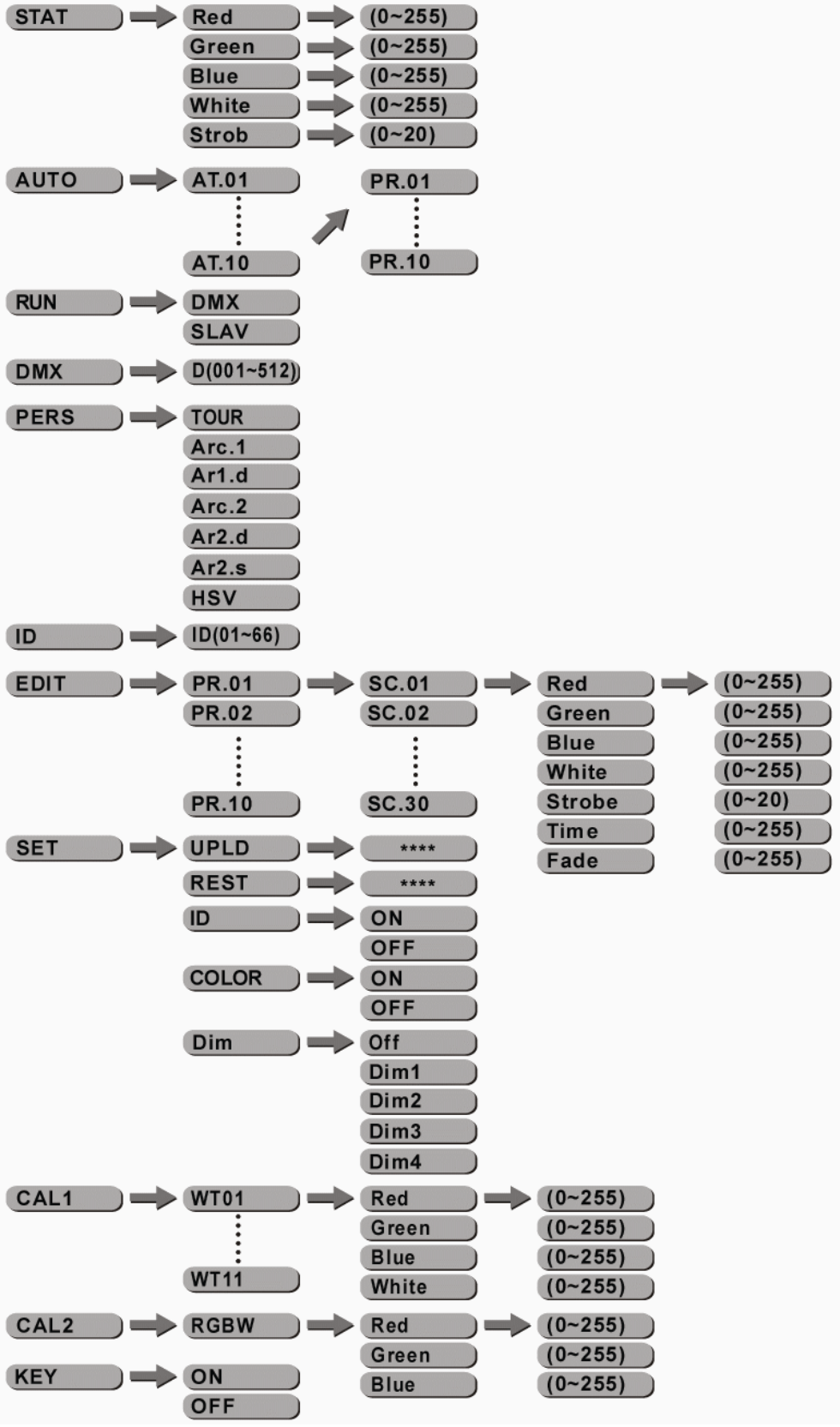
Auto

- Channel 8 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 8 has priority over channels 2, 3, 4, 5, 6, and 7

Dimmer Speed

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

Menu Map


STAT
Red
Green
Blue
White
Strob
(0~255)
(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
Arc.2
Ar2.d
Ar2.s
HSV
ID
ID(01~66)
EDIT
PR.01
PR.02
PR.10
SC.01
SC.02
SC.30
Red
Green
Blue
White
Strobe
Time
Fade
(0~255)
(0~255)
(0~255)
(0~255)
(0~20)
(0~255)
(0~255)
SET
UPLD
REST
ID
COLOR
Dim
****
****
ON
OFF
ON
OFF
Off
Dim1
Dim2
Dim3
Dim4
CAL1
WT01
WT11
Red
Green
Blue
White
(0~255)
(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	**White**	000 ó 255	0~100%
6	**Color Macro**	000 ó 010	No function
		011 ó 030	R: 100% G: Up B: 0%
		031 ó 050	R: Down G: 100% B: 0%
		051 ó 070	R: 0% G: 100% B: Up
		071 ó 090	R: 0% G: Down B: 100%
		091 ó 110	R: Up G: 0% B: 100%
		111 ó 130	R: 100% G: 0% B: Down
		131 ó 150	R: 100% G: Up B: Up
		151 ó 170	R: Down G: Down B: 100%
		171 ó 200	R: 100% G: 100% B: 100% W: 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
7	**Strobe**	000 ó 010	No function
		011 ó 255	0~20 Hz
8	**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
9	**Auto Speed**	000 ó 255	0~100% (Only works if AUTO 01~10 is playing)
10	**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
11	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%

ARC1 + 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%

ARC2

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%
4	White	000 ó 255	0~100%

ARC2 + 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%
5	White	000 ó 255	0~100%

ARC2 + 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	**White**	000 ó 255	0~100%
6	**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%

In HSV mode, *Hue* refers to the visible light, such as red, yellow, and cyan, etc. *Saturation* is 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.

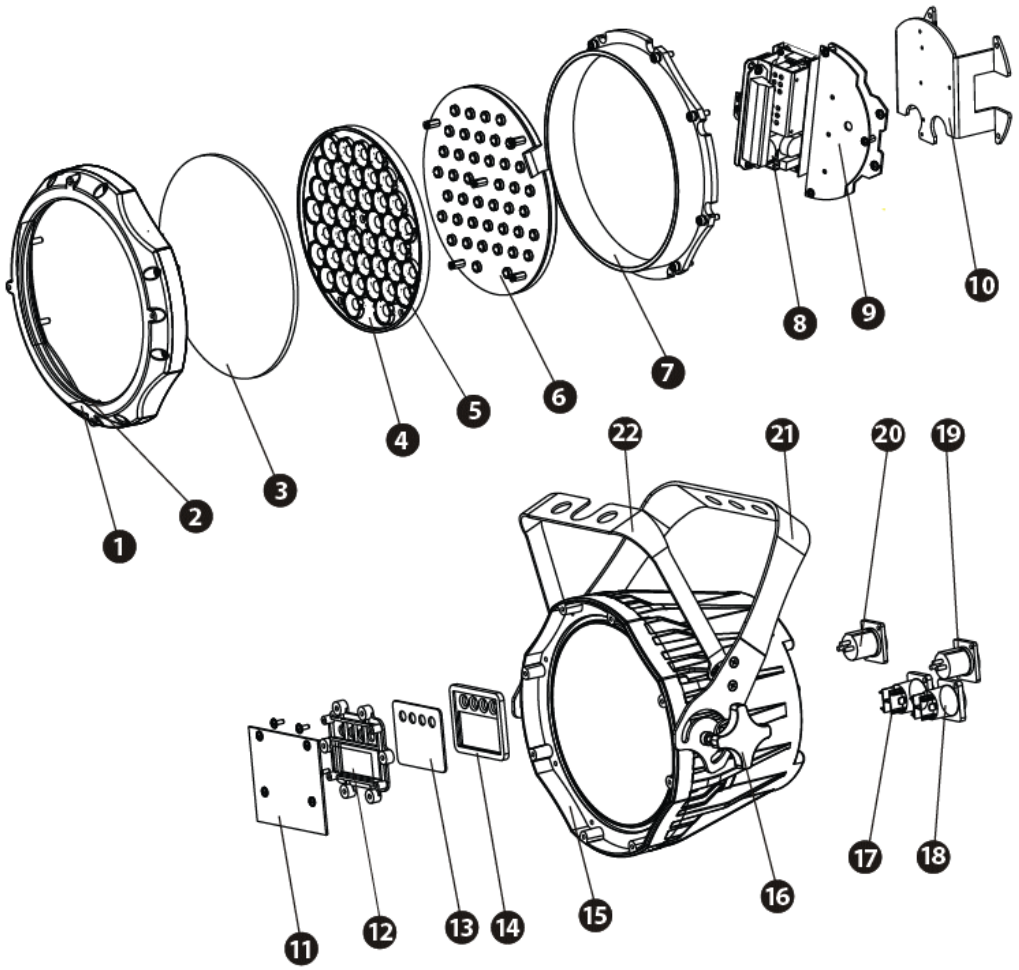
If the fixture has one or more cooling fans, refrain from spinning them using compressed air.

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 LED (Red, Green, Blue or White), does not illuminate	· Faulty LED · Faulty LED board	· Replace the LED board · Replace the LED board
A group LEDs (Red, Green, Blue or White), 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.

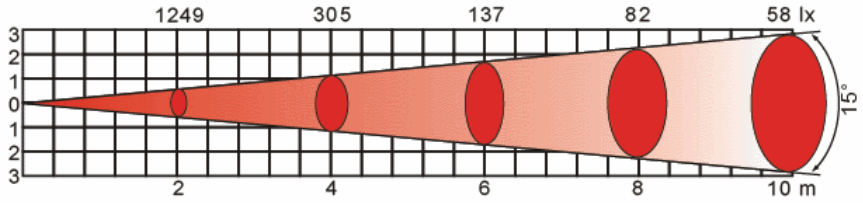
Exploded View



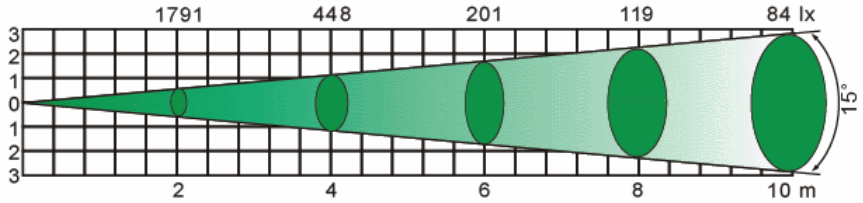
Item	Description
1	Front cover
2	Rubber seal
3	Front tempered glass
4	Lens holder
5	15º lens
6	LED board
7	Heat sink
8	Power supply
9	Driver board
10	Power connection board
11	Display / Main board
12	Button Module
13	Display protection plate
14	Button seal
15	Casing
16	Adjusting stainless steel knob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

Photometrics

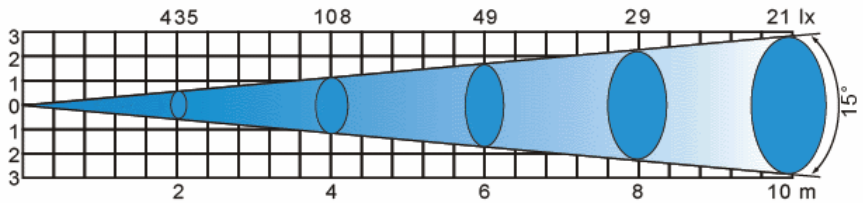
Red



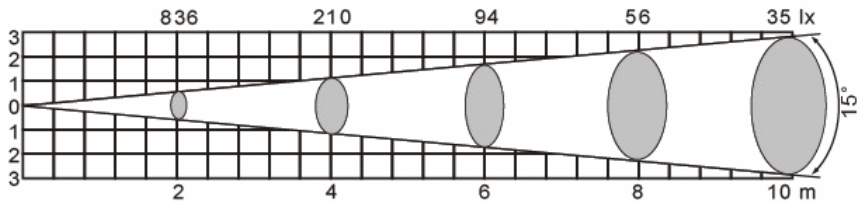
Green



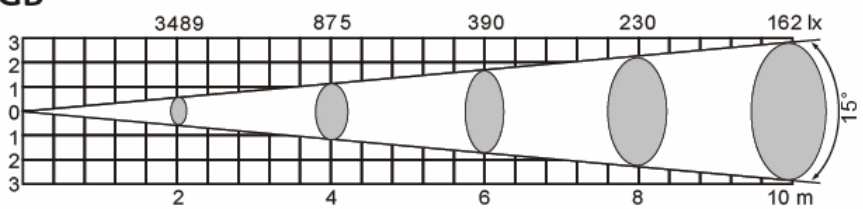
Blue



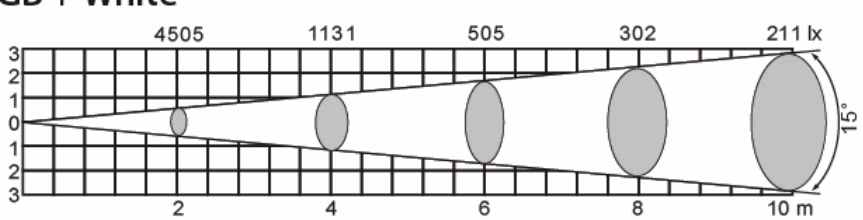
White



RGB



RGB + White



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

Weight & Dimensions

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

Power

Auto-ranging	100~240 V, 50/60 Hz
Power (@ 120 V, 60 Hz)	
Consumption	49.0 W (0.73 A) max.
Inrush Current	0.2 A
Linking	12 units max.
Power (@ 230 V, 50 Hz)	
Consumption	46.0 W (0.38 A) max.
Inrush Current	0.4 A
Linking	24 units max.
Power connectors	NEUTRIK® powerCON (A and B)

Light Source

Type	1 W, 50,000 hrs LEDs
Configuration	42 units
Red	12 units (350 mA)
Green	12 units (350 mA)
Blue	12 units (350 mA)
White	6 units (350 mA)

Photo Optic

Luminance @ 5 m (with included 15° degree lenses)	1,226 lux
Beam Angle (with included 15° degree lenses)	13°
Field Angle (with included 15° degree lenses)	27°

Thermal

Cooling	Natural convection
Maximum ambient temperature	104° F (40° C)

Control & Programming

Data input	Locking 3-pin XLR male socket
Data output	Locking 3-pin XLR female socket
Data pin configuration	Pin 1 shield, pin 2 (-), pin 3 (+)
Protocols	USITT DMX512-A
DMX Channels	3, 4, 5, 6, 11

Ordering Information

COLORado™ 1 Tour	COLORADO1TOUR

Warranty Information

Warranty	2-year limited warranty

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It's Green Thinking