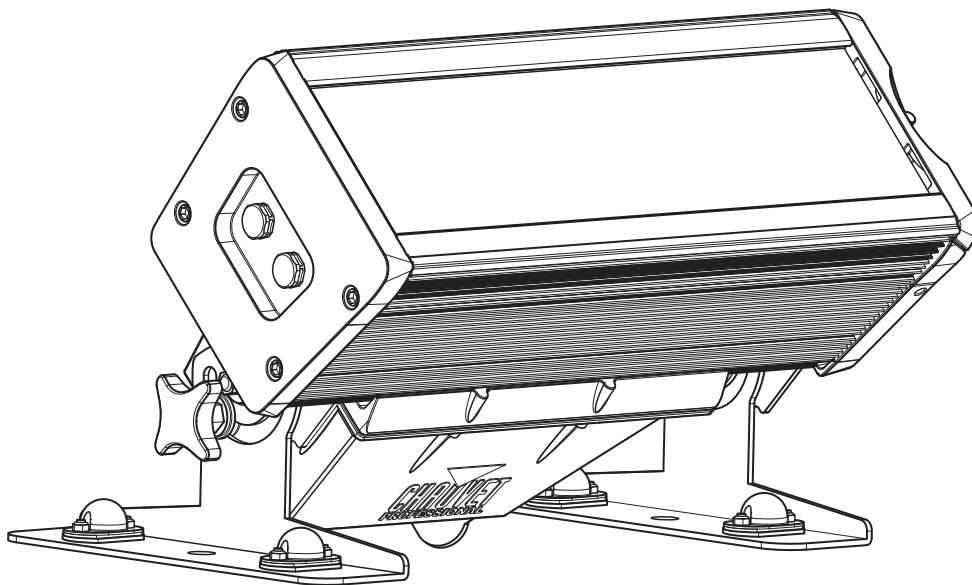


COLORADO *SOLO BATTEN*⁴

User Manual



Edition Notes

The COLORado Solo Batten 4 User Manual includes a description, safety precautions, installation, programming, operation and maintenance instructions for the COLORado Solo Batten 4 as of the release date of this edition.

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Document Printing

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

Intended Audience

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

Disclaimer

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FCC Compliance

This device complies with Part 15 Part B of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Document Revision

This COLORado Solo Batten 4 User Manual is the 2nd edition of this document. Go to www.chauvetprofessional.com for the latest version.

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Before You Begin

1. Before You Begin

What Is Included

- COLORado Solo Batten 4
- Seetronic Powerkon IP65 power cord
- Wall wash filter
- Omega brackets
- Quick Reference Guide

Claims

Carefully unpack the product immediately and check the container to make sure all the parts are in the package and are in good condition.




If the box or the contents (the product and included accessories) appear damaged from shipping, or show signs of mishandling, notify the carrier immediately, not Chauvet. Failure to report damage to the carrier immediately may invalidate your claim. In addition, keep the box and contents for inspection.

For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with Chauvet within 7 days of delivery.

Text Conventions

Convention	Meaning
1–512	A range of values
50/60	A set of values of which only one can be chosen
Settings	A menu option not to be modified
<ENTER>	A key to be pressed on the product's control panel

Symbols

Symbol	Meaning
	Critical installation, configuration, or operation information. Not following these instructions may make the product not work, cause damage to the product, or cause harm to the operator.
	Important installation or configuration information. The product may not function correctly if this information is not used.
	Useful information.



Any reference to data or power connections in this manual assumes the use of Seetronic IP rated cables.



The term “DMX” used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.

Safety Notes

Read all the following safety notes before working with this product. These notes contain important information about the installation, usage, and maintenance of this product.



This product contains no user-serviceable parts. Any reference to servicing in this User Manual will only apply to properly trained, certified technicians. Do not open the housing or attempt any repairs.



All applicable local codes and regulations apply to proper installation of this product.

Personal Safety

- Avoid direct eye exposure to the light source while the product is on.
- Always disconnect the product from the power source before cleaning or replacing the fuse.
- Always connect the product to a grounded circuit to avoid the risk of electrocution.
- Do not touch the product's housing when operating because it may be very hot.

Mounting and Rigging

- Do not submerge this product (IP65). Temporary outdoor operation is fine.
- When using this product in an outdoor environment, use IP65 (or higher) rated power and data cables. Secure unused power and data ports with attached IP65 covers.
- CAUTION: When transferring product from extreme temperature environments, (e.g., cold truck to warm, humid ballroom) condensation may form on the internal electronics of the product. To avoid causing a failure, allow product to fully acclimate to the surrounding environment before connecting it to power.
- Not for permanent outdoor installation in locations with extreme environmental conditions. This includes, but is not limited to:
 - Exposure to a marine/saline environment (within 3 miles of a saltwater body of water).
 - Locations where the normal high or low temperatures exceed the temperature ranges in this manual.
 - Locations that are prone to flooding or being buried in snow.
 - Areas where the product will be subjected to extreme radiation or caustic substances.
- Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- Make sure there are no flammable materials close to the product when operating.
- When hanging this product, always secure to a fastening device using a safety cable.

Power and Wiring

- Always make sure you are connecting the product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- Never connect the product to a dimmer pack or rheostat.
- Never disconnect this product by pulling or tugging on the power cable.

Operation

- Do not operate this product if there is damage on the housing, lenses, or cables. Have the damaged parts replaced by an authorized technician at once.
- Do not cover the ventilation slots when operating to avoid internal overheating.
- The maximum ambient temperature is 113 °F (45 °C). Do not operate the product at higher temperatures.
- The minimum startup temperature is -4°F (-20°C). Do not start the product at lower temperatures.
- The minimum ambient temperature is -22°F (-30°C). Do not operate the product at lower temperatures.
- In the event of a serious operation problem, stop using this product immediately!



If your Chauvet product requires service, contact Chauvet Technical Support.

Expected LED Lifespan

Use and heat will gradually reduce LED brightness over time. Clustered LEDs produce more heat than single LEDs, contributing to shorter lifespans if always used at full intensity. The average LED lifespan is 40,000 to 50,000 hours. To extend LED lifespan, maintain proper ventilation around the product, and limit the overall intensity.

2. Introduction

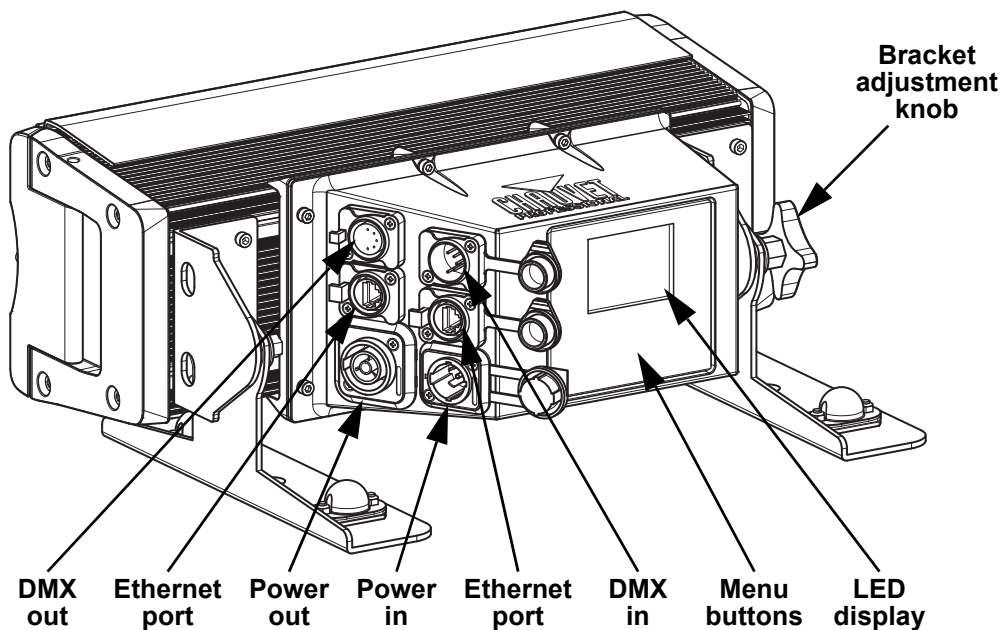
Description

The COLORado Solo Batten 4 is a unique RGBAW 4-cell LED batten with seamless end-to-end color mixing. This compact, multi-purpose fixture has four completely homogenized, individually-controlled square sections that project smooth color-mixing without separation or dimmed lens corners. This versatile batten is IP65-rated and can be used as a wash or for pixel-mappable eye-candy effects. It also compliments our COLORado Solo Batten perfectly.

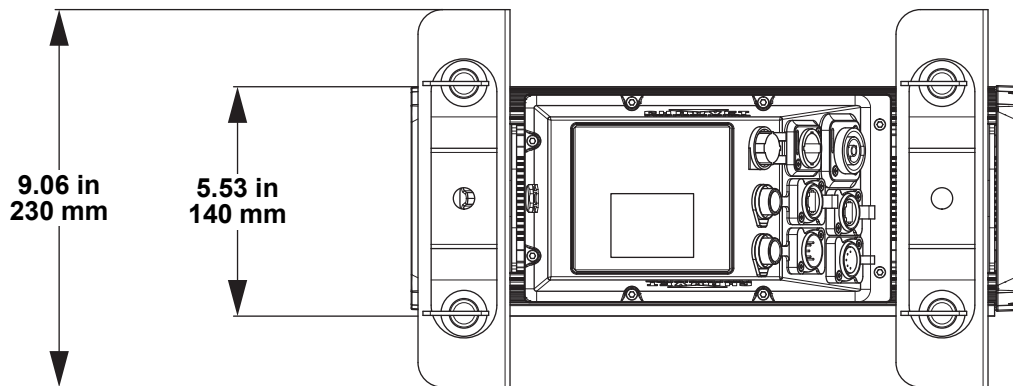
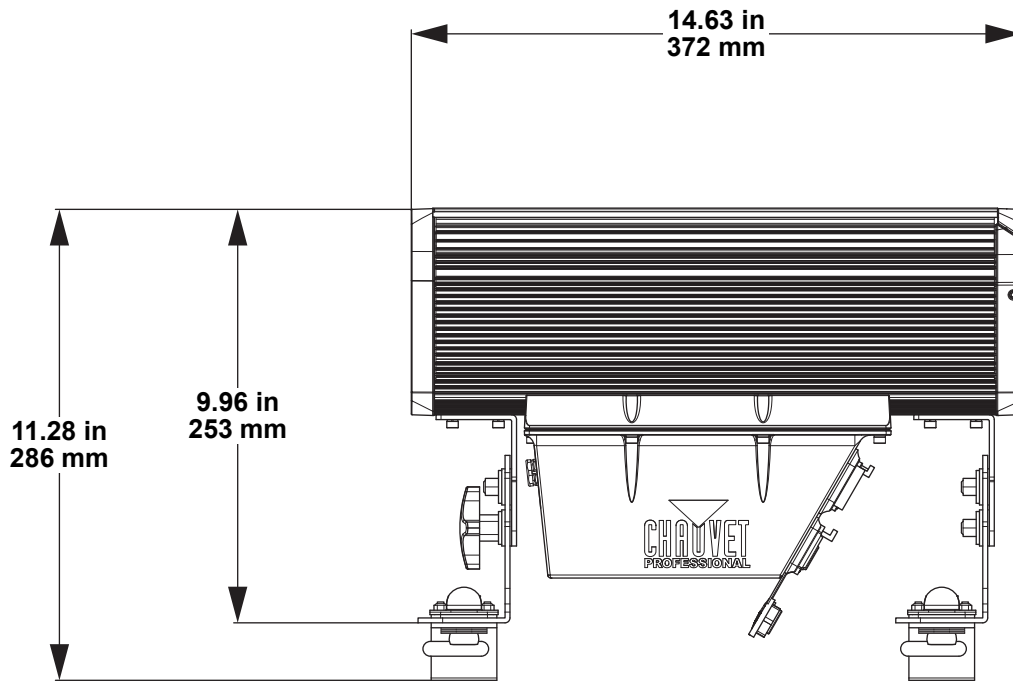
Features

- RGBAW 4-cell LED Batten with seamless end-to-end color for wash or pixel mapping
- Completely homogenized color with no separation or dimmed lens corners
- All environment operation with IP rated power, DMX, and Ethernet connections
- Color temperature presets, from 3200 K to 10000 K
- Selectable, smooth dimming curves for programming versatility
- Built for touring, live event, television, and theatrical productions
- Large, easy to navigate display with password protection

Product Overview



Product Dimensions



3. Setup

AC Power

The COLORado Solo Batten 4 has an auto-ranging power supply and it can work with an input voltage range of 100 to 240 VAC, 50/60 Hz.

To determine the product's power requirements (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or refer to the product's specifications chart.

The listed current rating indicates the product's average current draw under normal conditions.



- **Always connect the product to a protected circuit (a circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.**
- **To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.**



Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

AC Plug

The COLORado Solo Batten 4 comes with a power input cord terminated with a Seetronic Powerkon A connector on one end and an Edison plug on the other end (U.S. market). If the power input cord that came with your product has no plug, or if you need to change the plug, use the table below to wire the new plug.

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

Power Linking

The product supports power linking. You can power link up to 14 products at 120 V; up to 24 at 208 V; or up to 26 at 230 V.

This product comes with a power input cord. Power linking cables are available from Chauvet for purchase.



- **To preserve the IP65 rating and the warranty of this product Seetronic Powerkon cables must be used.**
- **Insert the attached IP65 rated plugs into the corresponding power/data connections when not in use.**

DMX Linking

You can link the COLORado Solo Batten 4 to a DMX controller using a 5-pin DMX connection. If using other DMX-compatible products with this product, you can control each individually with a single DMX controller.

DMX Personalities

The COLORado Solo Batten 4 uses a 5-pin DMX data connection for its 18 control personalities, ranging from 3-channel to 56-channel in 1-cell modes and 4-cell modes:

	RGB	RGB EXT	RGBA	RGBA EXT	RGBAW	RGBAW EXT	RGBAW FINE	RGBAW FULL	HSIC
1-Cell	3	8	4	9	5	10	10	16	9
4-Cells	12	27	16	31	20	35	40	56	29

- Refer to the [Operation](#) chapter to learn how to configure the COLORado Solo Batten 4 to work in these personalities.
- The [DMX Channel Assignments and Values](#) section provides detailed information regarding the control personalities.



If you are not familiar with or need more information about DMX standards, Master/Slave connectivity, or the DMX cables needed to link this product to a DMX controller, download the DMX Primer from the Chauvet website: www.chauvetprofessional.com.

Remote Device Management (RDM)

Remote Device Management, or RDM, is a standard for allowing DMX-enabled devices to communicate bi-directionally along existing DMX cabling. Check the DMX controller's User Manual or with the manufacturer as not all DMX controllers have this capability. The COLORado Solo Batten 4 supports RDM protocol that allows feedback to make changes to menu map options.

Master/Slave Connectivity

The Master/Slave mode allows an COLORado Solo Batten 4 (the master) to control one or more COLORado Solo Batten 4 products (the slaves) without a DMX controller. One COLORado Solo Batten 4 becomes the master when running an auto program, or by being in Static mode.

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



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



- The [Operation](#) section of this manual provides detailed instructions on how to configure the master and slaves.
- If you are not familiar with or need more information about DMX standards, or the DMX cables needed to link this product to a DMX controller, download the DMX Primer from the Chauvet website: www.chauvetprofessional.com.

Mounting

Before mounting the product, read and follow the safety recommendations indicated in the [Safety Notes](#). For our CHAUVET Professional line of mounting clamps, go to <http://trusst.com/products/>.

Orientation

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

Rigging

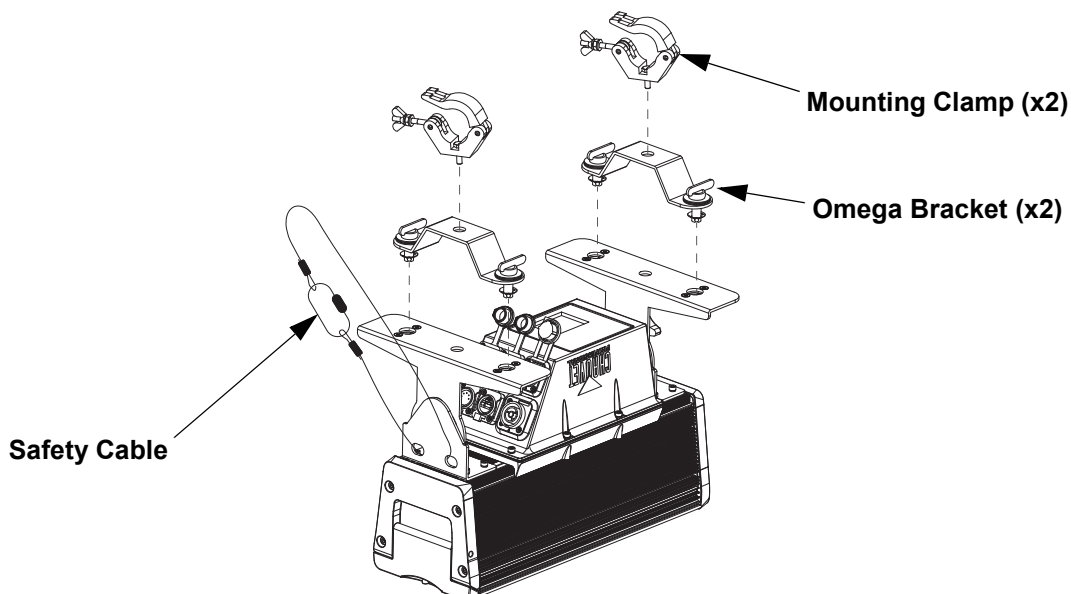
Chauvet recommends using the following general guidelines when mounting this product.

- Before deciding on a location for the product, make sure there is easy access to the product for maintenance and programming purposes.
- Make sure that the structure onto which you are mounting the product can support the product's weight. See the [Technical Specifications](#) for weight information.
- When mounting the product overhead, always use a safety cable. Mount the product securely to a rigging point, whether an elevated platform or a truss.
- When rigging the product onto a truss, use a mounting clamp of appropriate weight capacity.
- When power linking multiple products, mount the products close enough for power linking cables to reach.
- The bracket adjustment knobs allow for directional adjustment when aiming the product to the desired angle. Only loosen or tighten the bracket knobs manually. Using tools could damage the knobs.

Procedure

The COLORado Solo Batten 4 comes with a bracket to which you can attach a mounting clamp directly. Mounting clamps are sold separately. Make sure the clamps are capable of supporting the weight of this product. Use at least two mounting points per product. For the CHAUVET Professional line of mounting clamps, go to <http://www.trusst.com/products>.

Mounting Diagram



Signal Connections

The COLORado Solo Batten 4 can receive DMX, Art-Net™, or sACN signals. The COLORado Solo Batten 4 has 2 ethernet ports, and 5-pin DMX in and out ports. For more information about DMX, read the DMX primer at: https://www.chauvetprofessional.com/wp-content/uploads/2016/06/DMX_Primer.pdf.

Art-Net™ Connection

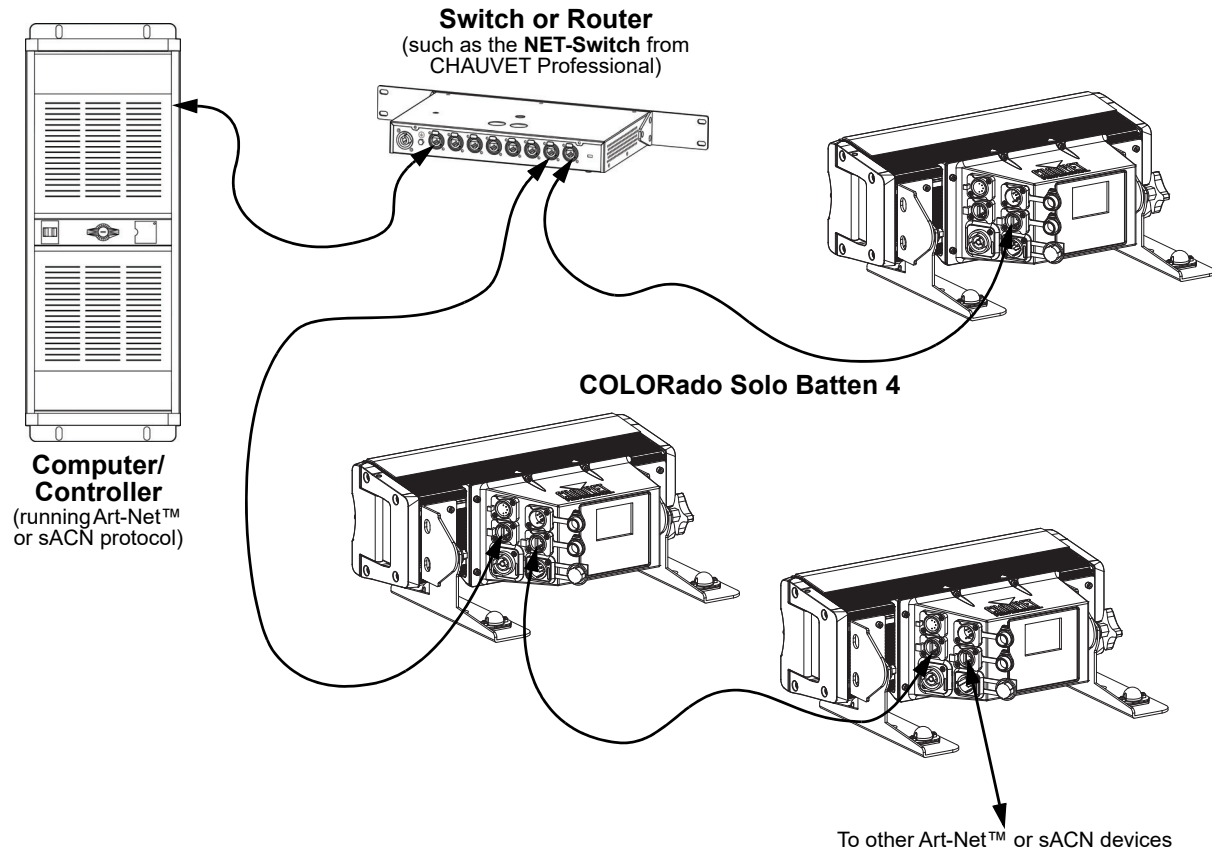
Art-Net™ is an Ethernet protocol that uses TCP/IP which transfers a large amount of DMX512 data using an ethernet connection over a large network. An Art-Net™ protocol document is available from www.chauvetprofessional.com.

Art-Net™ designed by and copyright Artistic Licence Holdings Ltd.

sACN Connection

Also known as ANSI E1.31, streaming ACN is an ethernet protocol that uses the layering and formatting of Architecture for Control Networks to transport DMX512 data over IP or any other ACN compatible network.

Connection Diagram



4. Operation

Control Panel Operation

Button	Function
<MENU>	Exits from the current menu or function
<UP>	Enables the currently displayed menu or sets the currently selected value in to the current function
<DOWN>	Navigates upward through the menu list or increases the numeric value when in a function
<ENTER>	Navigates downward through the menu list or decreases the numeric value when in a function

Control Options

Set the COLORado Solo Batten 4 starting address in the 001–512 DMX range. This enables control of up to 9 products in the 56-channel **4 Cell RGBAW FUL** personality.

Programming

Refer to the Menu Map to understand the menu options. The menu map shows the main level and a variable number of programming levels for each option.

- To go to the desired main level, press <MENU> repeatedly until the option shows on the display. Press <ENTER> to select. This will take you to the first programming level for that option.
- To select an option or value within the current programming level, press <UP> or <DOWN> until the option shows on the display. Press <ENTER> to select. In this case, if there is another programming level, you will see that first option, or you will see the selected value.
- Press <MENU> repeatedly to exit to the previous main level.

Control Panel Lock

The setting locks or unlocks the control panel.

1. Go to the **Settings** main level.
2. After being prompted to enter the passcode, press <UP>, <DOWN>, <UP>, <DOWN>, <ENTER>.
3. Go to the **Display Passcode** menu level.
4. Select **On** (locks control panel) or **Off** (control panel stays unlocked).



When the control panel lock is activated, the product will prompt for the passcode in order to access the menu. Enter the passcode as described below.

Passcode

After being prompted to enter the passcode, press <UP>, <DOWN>, <UP>, <DOWN>, <ENTER>.

Menu Map

Main Level	Programming Levels		Description
Protocol	DMX-512		Selects the control protocol
	Art-Net		
	Art-Net to DMX		
	sACN		
Start Address	1-510*		Selects DMX address (*highest channel restricted to personality chosen)
Personality	1 Cell	1 Cell - RGB	3-channel: RGB
		1 Cell - RGB EXT	8-channel: 16-bit dimmer, RGB, color macros, color temperature, strobe
		1 Cell - RGBA	4-channel: RGBA
		1 Cell - RGBA EXT	9-channel: 16-bit dimmer, RGBA, color macros, color temperature, strobe
		1 Cell - RGBAW	5-channel: RGBAW
		1 Cell - RGBAW EXT	10-channel: 16-bit dimmer, RGBAW, color macros, color temperature, strobe
		1 Cell - RGBAW FINE	10-channel: 16-bit RGBAW
		1 Cell - RGBAW FULL	16-channel: 16-bit dimmer, 16-bit RGBAW, color macros, color temperature, strobe, dimmer mode
		1 Cell - HSIC	9-channel: dimmer, 16-bit hue, saturation, color macros, color temperature, strobe, dimmer mode, GN saturation
	1 Cell - RGBAW Basic	13-channel: 16-bit dimmer, RGBAW, color macros, color temperature, strobe, auto programs, auto speed, auto delay	
	4 Cells	4 Cells - RGB	12-channel (4-cell): RGB
		4 Cells - RGB EXT	27-channel (4-cell): 16-bit dimmer, RGB, color macros, color temperature, strobe
		4 Cells - RGBA	16-channel (4-cell): RGBA
		4 Cells - RGBA EXT	31-channel (4-cell): 16-bit dimmer, RGBA, color macros, color temperature, strobe
		4 Cells - RGBAW	20-channel (4-cell): RGBAW
		4 Cells - RGBAW EXT	35-channel (4-cell): 16-bit dimmer, RGBAW, color macros, color temperature, strobe
		4 Cells - RGBAW FINE	40-channel (4-cell): 16-bit RGBAW
		4 Cells - RGBAW FULL	56-channel (4-cell): 16-bit dimmer, 16-bit RGBAW, color macros, color temperature, strobe, dimmer mode
		4 Cells - HSIC	29-channel (4-cell): dimmer, 16-bit hue, saturation, color macros, color temperature, strobe, dimmer mode

Main Level	Programming Levels			Description	
Network	Net Switch	2.x.x.x		Sets network to a preset 2.x.x.x IP address	
		10.x.x.x		Sets network to a preset 10.x.x.x IP address	
	IP Mode	Default IP		Default IP address	
		Custom IP	-----	Set manual IP address	
Universe	000–255 (Art-Net™/DMX) or 001–256 (sACN)			Sets universe for Art-Net™ or sACN	
Output Setting	Power Mode			Avoids going over the maximum temperature by adjusting output intensity	
	Steady Mode			Uses lower output intensity at a constant rate to avoid going over the maximum temperature	
Static Colors	Preset Colors	Color 1–14	0–100%	Preset static colors	
	Color Temperature Presets	White 1–14		Preset color temperatures	
	Manual Color Mixer	Red	0–255	Combine red, green, blue, amber, and white to make a custom color	
		Green			
		Blue			
Amber					
White					
Auto Programs	Run	Auto 1–10	0–100%	Selects automatic programs and program speed	
		User Program 1–10			
	Edit	User Program 1–10	Scene 01–30	Red 0–255	Selects and edits a custom program
				Green 0–255	
				Blue 0–255	
				Amber 0–255	
White 0–255					
Strobe 0–255					
Master/Slave	Master			DMX mode (Master)	
	Slave			Slave mode	
Dimmer Mode	Off			Linear dimmer	
	Dimmer 1–4			Dimming curves Dimmer 1 (fast) to Dimmer 4 (slow)	
LED Frequency	600Hz			Sets the PWM frequency	
	1200Hz				
	2000Hz				
	4000Hz				
	6000Hz				
	25000Hz				
Cell Order	1 - 4(Left to Right)			Sets order of cells	
	4 - 1(Right to Left)				

Main Level	Programming Levels		Description	
Settings	**** (Enter Passcode)	DMX Error/ Loss	Hold Last	Continues last command upon loss of DMX
			Blackout	Blacks out product upon loss of DMX
		Display Backlight Timeout	On	Display backlight always on
			10s	Turns off display backlight after 10 seconds of inactivity
			20s	Turns off display backlight after 20 seconds of inactivity
			30s	Turns off display backlight after 30 seconds of inactivity
		Display Passcode	On	Locks display (passcode is <UP>, <DOWN>, <UP>, <DOWN>, <ENTER>)
			Off	
Information	Fixture Hours		----- --:--	Shows total hours, minutes, and seconds the product has been powered on
	Firmware Version		V._._	Shows current firmware version
	Device Label		Colorado Solo Batten 4	Shows RDM label
	Device UID		-----	Shows product UID
	MAC Address		-----	Shows MAC address
Factory Reset	**** (Enter Passcode)	No	Resets the product to factory default settings	
		Yes		

Configuration (DMX/Art-Net™/sACN)

Use control configurations to operate the product with a controller.

Control Protocol

This setting allows you to choose the protocol with which to control the COLORado Solo Batten 4.

1. Go to the **Protocol** main level.
2. Select the desired control protocol (**DMX-512**, **Art-Net**, **Art-Net to DMX** (converts Art-Net™ input to DMX output), or **sACN**).

Network Settings

Ethernet protocols (Art-Net™ and sACN) require the Universe and IP address to be set, as well as the [Starting Address](#).

Net Switch

To select whether the first digit of the IP address will be **2** or **10**:

1. Go to the **Network** main level.
2. Select **Net Switch**.
3. Select from **2.x.x.x** or **10.x.x.x**.

IP Mode

To set the IP address:

1. Go to the **Network** main level.
2. Select **IP Mode**.
3. Select from **Default IP** (uses a preset IP address) or **Custom IP** (prompts the setting of a custom IP address).
4. If **Custom IP**, use the menu buttons to set the IP address.

Universe

To set the universe:

1. Go to the **Network** main level.
2. Select **Universe**.
3. Select from **000–255** (Art-Net™) or **001–256** (sACN).

Control Personalities

This setting allows you to choose a particular control personality.

1. Go to the **Personality** main level.
2. Select the desired personality (see table below).

	RGB	RGB EXT	RGBA	RGBA EXT	RGBAW	RGBAW EXT	RGBAW FINE	RGBAW FULL	HSIC
1-Cell	3	8	4	9	5	10	10	16	8
4-Cells	12	27	16	31	20	35	40	56	29



- See the [Starting Address](#) section for the highest starting address you can select for each personality.
- Make sure that the starting addresses on the various products do not overlap due to the new personality setting.

Starting Address

Each product will respond to a unique starting address from the DMX controller. All products with the same starting address will respond in unison.

1. Go to the **Start Address** main level.
2. Select the starting address (**001–510**).

The highest recommended starting address for each DMX mode is as follows:

	RGB	RGB EXT	RGBA	RGBA EXT	RGBAW	RGBAW EXT	RGBAW FINE	RGBAW FULL	HSIC
1-Cell	510	505	509	504	508	503	503	497	505
4-Cells	501	486	497	482	493	476	473	457	484

Operation

DMX Channel Assignments and Values

Color Macro Chart

DMX Channel Value	Red Value	Green Value	Blue Value	Amber Value	White Value
000 ⇔ 010	No function	No function	No function	No function	No function
011 ⇔ 034	100%	0–100%	0%	0%	0%
035 ⇔ 059	100–0%	100%	0%	0%	0%
060 ⇔ 084	0%	100%	0–100%	0%	0%
085 ⇔ 109	0%	100–0%	100%	0%	0%
110 ⇔ 134	0–100%	0%	100%	0%	0%
135 ⇔ 159	100%	0%	100–0%	0%	0%
160 ⇔ 184	100%	0–100%	0–100%	0%	0%
185 ⇔ 209	100–0%	100–0%	100%	0%	0%
210 ⇔ 255	100%	100%	100%	100%	100%

Color Temperature Chart

DMX Channel Value	Color Temperature
000 ⇔ 010	No function
011 ⇔ 028	1800K
029 ⇔ 046	2200K
047 ⇔ 064	2700K
065 ⇔ 082	3000K
083 ⇔ 100	3200K
101 ⇔ 118	3500K
119 ⇔ 136	4000K
137 ⇔ 154	4200K
155 ⇔ 172	4500K
173 ⇔ 190	5600K
191 ⇔ 208	6000K
209 ⇔ 226	6500K
227 ⇔ 244	7200K
245 ⇔ 255	8000K



The color temperatures above are simulated renditions of the color output produced as compared to a tungsten lamp at the specified color temperature. Chauvet makes no guarantee of the color output accuracy.

4-Cell DMX Values

4 Cells HSIC (29 Channels)

Channel	Function	Value	Percent/Setting
1	Dimmer 1	000 ⇔ 255	0–100%
2	Hue 1	000 ⇔ 255	0–100%
3	Fine hue 1	000 ⇔ 255	0–100%
4	Saturation 1	000 ⇔ 255	0–100%
5	Strobe 1	000 ⇔ 009	No function
		010 ⇔ 099	Strobe, slow to fast
		100 ⇔ 109	No function
		110 ⇔ 179	Lightning effect, slow to fast
		180 ⇔ 189	No function
190 ⇔ 255	Random strobe, slow to fast		
6	Color macros 1	000 ⇔ 255	See Color Macro Chart
7	Color temperatures 1	000 ⇔ 255	See Color Temperature Chart
8	Dimmer 2	000 ⇔ 255	0–100%
9	Hue 2	000 ⇔ 255	0–100%
10	Fine hue 2	000 ⇔ 255	0–100%
11	Saturation 2	000 ⇔ 255	0–100%
12	Strobe 2	000 ⇔ 009	No function
		010 ⇔ 099	Strobe, slow to fast
		100 ⇔ 109	No function
		110 ⇔ 179	Lightning effect, slow to fast
		180 ⇔ 189	No function
190 ⇔ 255	Random strobe, slow to fast		
13	Color macros 2	000 ⇔ 255	See Color Macro Chart
14	Color temperatures 2	000 ⇔ 255	See Color Temperature Chart
15	Dimmer 3	000 ⇔ 255	0–100%
16	Hue 3	000 ⇔ 255	0–100%
17	Fine hue 3	000 ⇔ 255	0–100%
18	Saturation 3	000 ⇔ 255	0–100%
19	Strobe 3	000 ⇔ 009	No function
		010 ⇔ 099	Strobe, slow to fast
		100 ⇔ 109	No function
		110 ⇔ 179	Lightning effect, slow to fast
		180 ⇔ 189	No function
190 ⇔ 255	Random strobe, slow to fast		
20	Color macros 3	000 ⇔ 255	See Color Macro Chart
21	Color temperatures 3	000 ⇔ 255	See Color Temperature Chart
22	Dimmer 4	000 ⇔ 255	0–100%
23	Hue 4	000 ⇔ 255	0–100%
24	Fine hue 4	000 ⇔ 255	0–100%
25	Saturation 4	000 ⇔ 255	0–100%
26	Strobe 4	000 ⇔ 009	No function
		010 ⇔ 099	Strobe, slow to fast
		100 ⇔ 109	No function
		110 ⇔ 179	Lightning effect, slow to fast
		180 ⇔ 189	No function
190 ⇔ 255	Random strobe, slow to fast		
27	Color macros 4	000 ⇔ 255	See Color Macro Chart
28	Color temperatures 4	000 ⇔ 255	See Color Temperature Chart

Operation

Channel	Function	Value	Percent/Setting
29	Dimmer speed	000 ⇄ 009	Preset dimmer speed from display menu
		010 ⇄ 029	Dimmer speed mode off
		030 ⇄ 069	Dimmer speed mode 1 (fastest)
		070 ⇄ 129	Dimmer speed mode 2
		130 ⇄ 189	Dimmer speed mode 3
		190 ⇄ 255	Dimmer speed mode 4 (slowest)

4 Cells RGBAW FULL (56 Channels)

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇄ 255	0–100%
2	Fine dimmer	000 ⇄ 255	0–100%
3	Red 1	000 ⇄ 255	0–100%
4	Fine red 1	000 ⇄ 255	0–100%
5	Green 1	000 ⇄ 255	0–100%
6	Fine green 1	000 ⇄ 255	0–100%
7	Blue 1	000 ⇄ 255	0–100%
8	Fine blue 1	000 ⇄ 255	0–100%
9	Amber 1	000 ⇄ 255	0–100%
10	Fine amber 1	000 ⇄ 255	0–100%
11	White 1	000 ⇄ 255	0–100%
12	Fine white 1	000 ⇄ 255	0–100%
13	Color macros 1	000 ⇄ 255	See Color Macro Chart
14	Color temperatures 1	000 ⇄ 255	See Color Temperature Chart
15	Strobe 1	000 ⇄ 009	No function
		010 ⇄ 099	Strobe, slow to fast
		100 ⇄ 109	No function
		110 ⇄ 179	Lightning effect, slow to fast
		180 ⇄ 189	No function
		190 ⇄ 255	Random strobe, slow to fast
16	Red 2	000 ⇄ 255	0–100%
17	Fine red 2	000 ⇄ 255	0–100%
18	Green 2	000 ⇄ 255	0–100%
19	Fine green 2	000 ⇄ 255	0–100%
20	Blue 2	000 ⇄ 255	0–100%
21	Fine blue 2	000 ⇄ 255	0–100%
22	Amber 2	000 ⇄ 255	0–100%
23	Fine amber 2	000 ⇄ 255	0–100%
24	White 2	000 ⇄ 255	0–100%
25	Fine white 2	000 ⇄ 255	0–100%
26	Color macros 2	000 ⇄ 255	See Color Macro Chart
27	Color temperatures 2	000 ⇄ 255	See Color Temperature Chart
28	Strobe 2	000 ⇄ 009	No function
		010 ⇄ 099	Strobe, slow to fast
		100 ⇄ 109	No function
		110 ⇄ 179	Lightning effect, slow to fast
		180 ⇄ 189	No function
		190 ⇄ 255	Random strobe, slow to fast
29	Red 3	000 ⇄ 255	0–100%
30	Fine red 3	000 ⇄ 255	0–100%
31	Green 3	000 ⇄ 255	0–100%
32	Fine green 3	000 ⇄ 255	0–100%
33	Blue 3	000 ⇄ 255	0–100%
34	Fine blue 3	000 ⇄ 255	0–100%
35	Amber 3	000 ⇄ 255	0–100%

Channel	Function	Value	Percent/Setting
36	Fine amber 3	000 ⇄ 255	0–100%
37	White 3	000 ⇄ 255	0–100%
38	Fine white 3	000 ⇄ 255	0–100%
39	Color macros 3	000 ⇄ 255	See Color Macro Chart
40	Color temperatures 3	000 ⇄ 255	See Color Temperature Chart
41	Strobe 3	000 ⇄ 009	No function
		010 ⇄ 099	Strobe, slow to fast
		100 ⇄ 109	No function
		110 ⇄ 179	Lightning effect, slow to fast
		180 ⇄ 189	No function
		190 ⇄ 255	Random strobe, slow to fast
42	Red 4	000 ⇄ 255	0–100%
43	Fine red 4	000 ⇄ 255	0–100%
44	Green 4	000 ⇄ 255	0–100%
45	Fine green 4	000 ⇄ 255	0–100%
46	Blue 4	000 ⇄ 255	0–100%
47	Fine blue 4	000 ⇄ 255	0–100%
48	Amber 4	000 ⇄ 255	0–100%
49	Fine amber 4	000 ⇄ 255	0–100%
50	White 4	000 ⇄ 255	0–100%
51	Fine white 4	000 ⇄ 255	0–100%
52	Color macros 4	000 ⇄ 255	See Color Macro Chart
53	Color temperatures 4	000 ⇄ 255	See Color Temperature Chart
54	Strobe 4	000 ⇄ 009	No function
		010 ⇄ 099	Strobe, slow to fast
		100 ⇄ 109	No function
		110 ⇄ 179	Lightning effect, slow to fast
		180 ⇄ 189	No function
		190 ⇄ 255	Random strobe, slow to fast
55	Strobe all	000 ⇄ 009	No function
		010 ⇄ 099	Strobe, slow to fast
		100 ⇄ 109	No function
		110 ⇄ 179	Lightning effect, slow to fast
		180 ⇄ 189	No function
		190 ⇄ 255	Random strobe, slow to fast
56	Dimmer speed	000 ⇄ 009	Preset dimmer speed from display menu
		010 ⇄ 029	Dimmer speed mode off
		030 ⇄ 069	Dimmer speed mode 1 (fastest)
		070 ⇄ 129	Dimmer speed mode 2
		130 ⇄ 189	Dimmer speed mode 3
		190 ⇄ 255	Dimmer speed mode 4 (slowest)

Operation

4 Cells RGBAW FINE (40 Channels)

Channel	Function	Value	Percent/Setting
1	Red 1	000 ⇔ 255	0–100%
2	Fine red 1	000 ⇔ 255	0–100%
3	Green 1	000 ⇔ 255	0–100%
4	Fine green 1	000 ⇔ 255	0–100%
5	Blue 1	000 ⇔ 255	0–100%
6	Fine blue 1	000 ⇔ 255	0–100%
7	Amber 1	000 ⇔ 255	0–100%
8	Fine amber 1	000 ⇔ 255	0–100%
9	White 1	000 ⇔ 255	0–100%
10	Fine white 1	000 ⇔ 255	0–100%
11	Red 2	000 ⇔ 255	0–100%
12	Fine red 2	000 ⇔ 255	0–100%
13	Green 2	000 ⇔ 255	0–100%
14	Fine green 2	000 ⇔ 255	0–100%
15	Blue 2	000 ⇔ 255	0–100%
16	Fine blue 2	000 ⇔ 255	0–100%
17	Amber 2	000 ⇔ 255	0–100%
18	Fine amber 2	000 ⇔ 255	0–100%
19	White 2	000 ⇔ 255	0–100%
20	Fine white 2	000 ⇔ 255	0–100%
21	Red 3	000 ⇔ 255	0–100%
22	Fine red 3	000 ⇔ 255	0–100%
23	Green 3	000 ⇔ 255	0–100%
24	Fine green 3	000 ⇔ 255	0–100%
25	Blue 3	000 ⇔ 255	0–100%
26	Fine blue 3	000 ⇔ 255	0–100%
27	Amber 3	000 ⇔ 255	0–100%
28	Fine amber 3	000 ⇔ 255	0–100%
29	White 3	000 ⇔ 255	0–100%
30	Fine white 3	000 ⇔ 255	0–100%
31	Red 4	000 ⇔ 255	0–100%
32	Fine red 4	000 ⇔ 255	0–100%
33	Green 4	000 ⇔ 255	0–100%
34	Fine green 4	000 ⇔ 255	0–100%
35	Blue 4	000 ⇔ 255	0–100%
36	Fine blue 4	000 ⇔ 255	0–100%
37	Amber 4	000 ⇔ 255	0–100%
38	Fine amber 4	000 ⇔ 255	0–100%
39	White 4	000 ⇔ 255	0–100%
40	Fine white 4	000 ⇔ 255	0–100%

4 Cells RGBAW EXT (35 Channels)

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100%
2	Fine dimmer	000 ⇔ 255	0–100%
3	Red 1	000 ⇔ 255	0–100%
4	Green 1	000 ⇔ 255	0–100%
5	Blue 1	000 ⇔ 255	0–100%
6	Amber 1	000 ⇔ 255	0–100%
7	White 1	000 ⇔ 255	0–100%
8	Color macros 1	000 ⇔ 255	See Color Macro Chart
9	Color temperatures 1	000 ⇔ 255	See Color Temperature Chart
10	Strobe 1	000 ⇔ 009	No function
		010 ⇔ 099	Strobe, slow to fast
		100 ⇔ 109	No function
		110 ⇔ 179	Lightning effect, slow to fast
		180 ⇔ 189	No function
		190 ⇔ 255	Random strobe, slow to fast
11	Red 2	000 ⇔ 255	0–100%
12	Green 2	000 ⇔ 255	0–100%
13	Blue 2	000 ⇔ 255	0–100%
14	Amber 2	000 ⇔ 255	0–100%
15	White 2	000 ⇔ 255	0–100%
16	Color macros 2	000 ⇔ 255	See Color Macro Chart
17	Color temperatures 2	000 ⇔ 255	See Color Temperature Chart
18	Strobe 2	000 ⇔ 009	No function
		010 ⇔ 099	Strobe, slow to fast
		100 ⇔ 109	No function
		110 ⇔ 179	Lightning effect, slow to fast
		180 ⇔ 189	No function
		190 ⇔ 255	Random strobe, slow to fast
19	Red 3	000 ⇔ 255	0–100%
20	Green 3	000 ⇔ 255	0–100%
21	Blue 3	000 ⇔ 255	0–100%
22	Amber 3	000 ⇔ 255	0–100%
23	White 3	000 ⇔ 255	0–100%
24	Color macros 3	000 ⇔ 255	See Color Macro Chart
25	Color temperatures 3	000 ⇔ 255	See Color Temperature Chart
26	Strobe 3	000 ⇔ 009	No function
		010 ⇔ 099	Strobe, slow to fast
		100 ⇔ 109	No function
		110 ⇔ 179	Lightning effect, slow to fast
		180 ⇔ 189	No function
		190 ⇔ 255	Random strobe, slow to fast
27	Red 4	000 ⇔ 255	0–100%
28	Green 4	000 ⇔ 255	0–100%
29	Blue 4	000 ⇔ 255	0–100%
30	Amber 4	000 ⇔ 255	0–100%
31	White 4	000 ⇔ 255	0–100%
32	Color macros 4	000 ⇔ 255	See Color Macro Chart
33	Color temperatures 4	000 ⇔ 255	See Color Temperature Chart

Operation

Channel	Function	Value	Percent/Setting
34	Strobe 4	000 ⇄ 009	No function
		010 ⇄ 099	Strobe, slow to fast
		100 ⇄ 109	No function
		110 ⇄ 179	Lightning effect, slow to fast
		180 ⇄ 189	No function
		190 ⇄ 255	Random strobe, slow to fast
35	Strobe all	000 ⇄ 009	No function
		010 ⇄ 099	Strobe, slow to fast
		100 ⇄ 109	No function
		110 ⇄ 179	Lightning effect, slow to fast
		180 ⇄ 189	No function
		190 ⇄ 255	Random strobe, slow to fast

4 Cells RGBAW (20 Channels)

Channel	Function	Value	Percent/Setting
1	Red 1	000 ⇄ 255	0–100%
2	Green 1	000 ⇄ 255	0–100%
3	Blue 1	000 ⇄ 255	0–100%
4	Amber 1	000 ⇄ 255	0–100%
5	White 1	000 ⇄ 255	0–100%
6	Red 2	000 ⇄ 255	0–100%
7	Green 2	000 ⇄ 255	0–100%
8	Blue 2	000 ⇄ 255	0–100%
9	Amber 2	000 ⇄ 255	0–100%
10	White 2	000 ⇄ 255	0–100%
11	Red 3	000 ⇄ 255	0–100%
12	Green 3	000 ⇄ 255	0–100%
13	Blue 3	000 ⇄ 255	0–100%
14	Amber 3	000 ⇄ 255	0–100%
15	White 3	000 ⇄ 255	0–100%
16	Red 4	000 ⇄ 255	0–100%
17	Green 4	000 ⇄ 255	0–100%
18	Blue 4	000 ⇄ 255	0–100%
19	Amber 4	000 ⇄ 255	0–100%
20	White 4	000 ⇄ 255	0–100%

4 Cells RGBA EXT (31 Channels)

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇄ 255	0–100%
2	Fine dimmer	000 ⇄ 255	0–100%
3	Red 1	000 ⇄ 255	0–100%
4	Green 1	000 ⇄ 255	0–100%
5	Blue 1	000 ⇄ 255	0–100%
6	Amber 1	000 ⇄ 255	0–100%
7	Color macros 1	000 ⇄ 255	See Color Macro Chart
8	Color temperatures 1	000 ⇄ 255	See Color Temperature Chart
9	Strobe 1	000 ⇄ 009	No function
		010 ⇄ 099	Strobe, slow to fast
		100 ⇄ 109	No function
		110 ⇄ 179	Lightning effect, slow to fast
		180 ⇄ 189	No function
		190 ⇄ 255	Random strobe, slow to fast

Channel	Function	Value	Percent/Setting
10	Red 2	000 ⇄ 255	0–100%
11	Green 2	000 ⇄ 255	0–100%
12	Blue 2	000 ⇄ 255	0–100%
13	Amber 2	000 ⇄ 255	0–100%
14	Color macros 2	000 ⇄ 255	See Color Macro Chart
15	Color temperatures 2	000 ⇄ 255	See Color Temperature Chart
16	Strobe 2	000 ⇄ 009	No function
		010 ⇄ 099	Strobe, slow to fast
		100 ⇄ 109	No function
		110 ⇄ 179	Lightning effect, slow to fast
		180 ⇄ 189	No function
		190 ⇄ 255	Random strobe, slow to fast
17	Red 3	000 ⇄ 255	0–100%
18	Green 3	000 ⇄ 255	0–100%
19	Blue 3	000 ⇄ 255	0–100%
20	Amber 3	000 ⇄ 255	0–100%
21	Color macros 3	000 ⇄ 255	See Color Macro Chart
22	Color temperatures 3	000 ⇄ 255	See Color Temperature Chart
23	Strobe 3	000 ⇄ 009	No function
		010 ⇄ 099	Strobe, slow to fast
		100 ⇄ 109	No function
		110 ⇄ 179	Lightning effect, slow to fast
		180 ⇄ 189	No function
		190 ⇄ 255	Random strobe, slow to fast
24	Red 4	000 ⇄ 255	0–100%
25	Green 4	000 ⇄ 255	0–100%
26	Blue 4	000 ⇄ 255	0–100%
27	Amber 4	000 ⇄ 255	0–100%
28	Color macros 4	000 ⇄ 255	See Color Macro Chart
29	Color temperatures 4	000 ⇄ 255	See Color Temperature Chart
30	Strobe 4	000 ⇄ 009	No function
		010 ⇄ 099	Strobe, slow to fast
		100 ⇄ 109	No function
		110 ⇄ 179	Lightning effect, slow to fast
		180 ⇄ 189	No function
		190 ⇄ 255	Random strobe, slow to fast
31	Strobe all	000 ⇄ 009	No function
		010 ⇄ 099	Strobe, slow to fast
		100 ⇄ 109	No function
		110 ⇄ 179	Lightning effect, slow to fast
		180 ⇄ 189	No function
		190 ⇄ 255	Random strobe, slow to fast

Operation

4 Cells RGBA (16 Channels)

Channel	Function	Value	Percent/Setting
1	Red 1	000 ⇔ 255	0–100%
2	Green 1	000 ⇔ 255	0–100%
3	Blue 1	000 ⇔ 255	0–100%
4	Amber 1	000 ⇔ 255	0–100%
5	Red 2	000 ⇔ 255	0–100%
6	Green 2	000 ⇔ 255	0–100%
7	Blue 2	000 ⇔ 255	0–100%
8	Amber 2	000 ⇔ 255	0–100%
9	Red 3	000 ⇔ 255	0–100%
10	Green 3	000 ⇔ 255	0–100%
11	Blue 3	000 ⇔ 255	0–100%
12	Amber 3	000 ⇔ 255	0–100%
13	Red 4	000 ⇔ 255	0–100%
14	Green 4	000 ⇔ 255	0–100%
15	Blue 4	000 ⇔ 255	0–100%
16	Amber 4	000 ⇔ 255	0–100%

4 Cells RGB EXT (27 Channels)

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100%
2	Fine dimmer	000 ⇔ 255	0–100%
3	Red 1	000 ⇔ 255	0–100%
4	Green 1	000 ⇔ 255	0–100%
5	Blue 1	000 ⇔ 255	0–100%
6	Color macros 1	000 ⇔ 255	See Color Macro Chart
7	Color temperatures 1	000 ⇔ 255	See Color Temperature Chart
8	Strobe 1	000 ⇔ 009	No function
		010 ⇔ 099	Strobe, slow to fast
		100 ⇔ 109	No function
		110 ⇔ 179	Lightning effect, slow to fast
		180 ⇔ 189	No function
		190 ⇔ 255	Random strobe, slow to fast
9	Red 2	000 ⇔ 255	0–100%
10	Green 2	000 ⇔ 255	0–100%
11	Blue 2	000 ⇔ 255	0–100%
12	Color macros 2	000 ⇔ 255	See Color Macro Chart
13	Color temperatures 2	000 ⇔ 255	See Color Temperature Chart
14	Strobe 2	000 ⇔ 009	No function
		010 ⇔ 099	Strobe, slow to fast
		100 ⇔ 109	No function
		110 ⇔ 179	Lightning effect, slow to fast
		180 ⇔ 189	No function
		190 ⇔ 255	Random strobe, slow to fast
15	Red 3	000 ⇔ 255	0–100%
16	Green 3	000 ⇔ 255	0–100%
17	Blue 3	000 ⇔ 255	0–100%
18	Color macros 3	000 ⇔ 255	See Color Macro Chart
19	Color temperatures 3	000 ⇔ 255	See Color Temperature Chart

Channel	Function	Value	Percent/Setting
20	Strobe 3	000 ⇄ 009	No function
		010 ⇄ 099	Strobe, slow to fast
		100 ⇄ 109	No function
		110 ⇄ 179	Lightning effect, slow to fast
		180 ⇄ 189	No function
		190 ⇄ 255	Random strobe, slow to fast
21	Red 4	000 ⇄ 255	0–100%
22	Green 4	000 ⇄ 255	0–100%
23	Blue 4	000 ⇄ 255	0–100%
24	Color macros 4	000 ⇄ 255	See Color Macro Chart
25	Color temperatures 4	000 ⇄ 255	See Color Temperature Chart
26	Strobe 4	000 ⇄ 009	No function
		010 ⇄ 099	Strobe, slow to fast
		100 ⇄ 109	No function
		110 ⇄ 179	Lightning effect, slow to fast
		180 ⇄ 189	No function
		190 ⇄ 255	Random strobe, slow to fast
27	Strobe all	000 ⇄ 009	No function
		010 ⇄ 099	Strobe, slow to fast
		100 ⇄ 109	No function
		110 ⇄ 179	Lightning effect, slow to fast
		180 ⇄ 189	No function
		190 ⇄ 255	Random strobe, slow to fast

4 Cells RGB (12 Channels)

Channel	Function	Value	Percent/Setting
1	Red 1	000 ⇄ 255	0–100%
2	Green 1	000 ⇄ 255	0–100%
3	Blue 1	000 ⇄ 255	0–100%
4	Red 2	000 ⇄ 255	0–100%
5	Green 2	000 ⇄ 255	0–100%
6	Blue 2	000 ⇄ 255	0–100%
7	Red 3	000 ⇄ 255	0–100%
8	Green 3	000 ⇄ 255	0–100%
9	Blue 3	000 ⇄ 255	0–100%
10	Red 4	000 ⇄ 255	0–100%
11	Green 4	000 ⇄ 255	0–100%
12	Blue 4	000 ⇄ 255	0–100%

Operation

1-Cell DMX Values

1 Cell RGBAW Basic (13 channels)

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100%
2	Dimmer fine	000 ⇔ 255	0–100%
3	Red	000 ⇔ 255	0–100%
4	Green	000 ⇔ 255	0–100%
5	Blue	000 ⇔ 255	0–100%
6	Amber	000 ⇔ 255	0–100%
7	White	000 ⇔ 255	0–100%
8	Color macros	000 ⇔ 255	See Color Macro Chart
9	Color temperatures	000 ⇔ 255	See Color Temperature Chart
10	Strobe	000 ⇔ 009	No function
		010 ⇔ 099	Strobe, slow to fast
		100 ⇔ 109	No function
		110 ⇔ 179	Lightning effect, slow to fast
		180 ⇔ 189	No function
		190 ⇔ 255	Random strobe, slow to fast
11	Auto programs	000 ⇔ 040	No function
		041 ⇔ 050	Auto1
		051 ⇔ 060	Auto2
		061 ⇔ 070	Auto3
		071 ⇔ 080	Auto4
		081 ⇔ 090	Auto5
		091 ⇔ 100	Auto6
		101 ⇔ 110	Auto7
		111 ⇔ 120	Auto8
		121 ⇔ 130	Auto9
		131 ⇔ 140	Auto10
		141 ⇔ 150	Program1
		151 ⇔ 160	Program2
		161 ⇔ 170	Program3
		171 ⇔ 180	Program4
		181 ⇔ 190	Program5
191 ⇔ 200	Program6		
201 ⇔ 210	Program7		
211 ⇔ 220	Program8		
221 ⇔ 230	Program9		
231 ⇔ 240	Program10		
12	Auto speed	000 ⇔ 255	Auto program speed adjust
13	Auto delay	000 ⇔ 255	Auto program delay adjust

1 Cell HSIC (9 Channels)

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100%
2	Hue	000 ⇔ 255	0–100%
3	Fine hue	000 ⇔ 255	0–100%
4	Saturation	000 ⇔ 255	0–100%
5	Strobe	000 ⇔ 009	No function
		010 ⇔ 099	Strobe, slow to fast
		100 ⇔ 109	No function
		110 ⇔ 179	Lightning effect, slow to fast
		180 ⇔ 189	No function
190 ⇔ 255	Random strobe, slow to fast		
6	Color macros	000 ⇔ 255	See Color Macro Chart
7	Color temperatures	000 ⇔ 255	See Color Temperature Chart
8	Dimmer speed	000 ⇔ 009	Preset dimmer speed from display menu
		010 ⇔ 029	Dimmer speed mode off
		030 ⇔ 069	Dimmer speed mode 1 (fastest)
		070 ⇔ 129	Dimmer speed mode 2
		130 ⇔ 189	Dimmer speed mode 3
190 ⇔ 255	Dimmer speed mode 4 (slowest)		
9	GN saturation	000 ⇔ 010	No function
		011 ⇔ 029	Full minus green
		030 ⇔ 069	-99% to -1%
		070 ⇔ 129	No function
		130 ⇔ 189	1% to 99%
190 ⇔ 255	Full plus green		

1 Cell RGBAW FULL (16 Channels)

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100%
2	Fine fimmer	000 ⇔ 255	0–100%
3	Red	000 ⇔ 255	0–100%
4	Fine red	000 ⇔ 255	0–100%
5	Green	000 ⇔ 255	0–100%
6	Fine green	000 ⇔ 255	0–100%
7	Blue	000 ⇔ 255	0–100%
8	Fine blue	000 ⇔ 255	0–100%
9	Amber	000 ⇔ 255	0–100%
10	Fine amber	000 ⇔ 255	0–100%
11	White	000 ⇔ 255	0–100%
12	Fine white	000 ⇔ 255	0–100%
13	Color macros	000 ⇔ 255	See Color Macro Chart
14	Color temperatures	000 ⇔ 255	See Color Temperature Chart
15	Strobe	000 ⇔ 009	No function
		010 ⇔ 099	Strobe, slow to fast
		100 ⇔ 109	No function
		110 ⇔ 179	Lightning effect, slow to fast
		180 ⇔ 189	No function
190 ⇔ 255	Random strobe, slow to fast		

Operation

Channel	Function	Value	Percent/Setting
16	Dimmer speed	000 ⇔ 009	Preset dimmer speed from display menu
		010 ⇔ 029	Dimmer speed mode off
		030 ⇔ 069	Dimmer speed mode 1 (fastest)
		070 ⇔ 129	Dimmer speed mode 2
		130 ⇔ 189	Dimmer speed mode 3
		190 ⇔ 255	Dimmer speed mode 4 (slowest)

1 Cell RGBAW FINE (10 Channels)

Channel	Function	Value	Percent/Setting
1	Red	000 ⇔ 255	0–100%
2	Fine red	000 ⇔ 255	0–100%
3	Green	000 ⇔ 255	0–100%
4	Fine green	000 ⇔ 255	0–100%
5	Blue	000 ⇔ 255	0–100%
6	Fine blue	000 ⇔ 255	0–100%
7	Amber	000 ⇔ 255	0–100%
8	Fine amber	000 ⇔ 255	0–100%
9	White	000 ⇔ 255	0–100%
10	Fine white	000 ⇔ 255	0–100%

1 Cell RGBAW EXT (10 Channels)

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100%
2	Fine dimmer	000 ⇔ 255	0–100%
3	Red	000 ⇔ 255	0–100%
4	Green	000 ⇔ 255	0–100%
5	Blue	000 ⇔ 255	0–100%
6	Amber	000 ⇔ 255	0–100%
7	White	000 ⇔ 255	0–100%
8	Color macros	000 ⇔ 255	See Color Macro Chart
9	Color temperatures	000 ⇔ 255	See Color Temperature Chart
10	Strobe	000 ⇔ 009	No function
		010 ⇔ 099	Strobe, slow to fast
		100 ⇔ 109	No function
		110 ⇔ 179	Lightning effect, slow to fast
		180 ⇔ 189	No function
		190 ⇔ 255	Random strobe, slow to fast

1 Cell RGBAW (5 Channels)

Channel	Function	Value	Percent/Setting
1	Red	000 ⇔ 255	0–100%
2	Green	000 ⇔ 255	0–100%
3	Blue	000 ⇔ 255	0–100%
4	Amber	000 ⇔ 255	0–100%
5	White	000 ⇔ 255	0–100%

1 Cell RGBA EXT (9 Channels)

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100%
2	Fine dimmer	000 ⇔ 255	0–100%
3	Red	000 ⇔ 255	0–100%
4	Green	000 ⇔ 255	0–100%
5	Blue	000 ⇔ 255	0–100%
6	Amber	000 ⇔ 255	0–100%
7	Color macros	000 ⇔ 255	See Color Macro Chart
8	Color temperatures	000 ⇔ 255	See Color Temperature Chart
9	Strobe	000 ⇔ 009	No function
		010 ⇔ 099	Strobe, slow to fast
		100 ⇔ 109	No function
		110 ⇔ 179	Lightning effect, slow to fast
		180 ⇔ 189	No function
		190 ⇔ 255	Random strobe, slow to fast

1 Cell RGBA (4 Channels)

Channel	Function	Value	Percent/Setting
1	Red	000 ⇔ 255	0–100%
2	Green	000 ⇔ 255	0–100%
3	Blue	000 ⇔ 255	0–100%
4	Amber	000 ⇔ 255	0–100%

1 Cell RGB EXT (8 Channels)

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100%
2	Fine Dimmer	000 ⇔ 255	0–100%
3	Red	000 ⇔ 255	0–100%
4	Green	000 ⇔ 255	0–100%
5	Blue	000 ⇔ 255	0–100%
6	Color macros	000 ⇔ 255	See Color Macro Chart
7	Color temperatures	000 ⇔ 255	See Color Temperature Chart
8	Strobe	000 ⇔ 009	No function
		010 ⇔ 099	Strobe, slow to fast
		100 ⇔ 109	No function
		110 ⇔ 179	Lightning effect, slow to fast
		180 ⇔ 189	No function
		190 ⇔ 255	Random strobe, slow to fast

1 Cell RGB (3 Channels)

Channel	Function	Value	Percent/Setting
1	Red	000 ⇔ 255	0–100%
2	Green	000 ⇔ 255	0–100%
3	Blue	000 ⇔ 255	0–100%

Operation

Configuration (Standalone)

Use standalone configuration to operate the product without a DMX controller.



Never connect a product that is operating in any standalone mode to a DMX string connected to a DMX controller. Products in standalone mode may transmit DMX signals that could interfere with the DMX signals from the controller.

Static Colors

The Static Colors mode allows for permanent color presets without a DMX controller.

1. Go to the **Static Colors** main level.
2. Select **Preset Colors**, **Color Temperature Presets**, or **Manual Color Mixer**.
3. For **Preset Colors**:
 - a. Select the desired preset color (**Color 1–14**).
 - b. Set the desired brightness (**0–100%**).
 For **Color Temperature Presets**:
 - a. Select the desired preset color temperature (**White 1–14**).
 - b. Set the desired brightness (**0–100%**).
 For **Manual Color Mixer**:
 - a. Select the desired color (**Red**, **Green**, **Blue**, **Amber**, or **White**).
 - b. Set the desired value for the selected color (**0–255**).
 - c. Repeat steps a-b until the static color is set as desired.

Automatic Programs

The Auto Programs mode allows for playing back preset or customizable programs.

Edit

To edit a customizable auto program:

1. Go to the **Auto Programs** main level.
2. Select **Edit**.
3. Select the desired program (**User Program 1–10**).
4. Select the desired scene (**Scene 01–30**).
5. Select the desired color or setting (**Red**, **Green**, **Blue**, **Amber**, **White**, or **Strobe**).
6. Set the desired value for the selected option (**0–255**).
7. Repeat steps 4-6 until the scene is set as desired.

Run

To run a preset or customized automatic program:

1. Go to the **Auto Programs** main level.
2. Select **Run**.
3. Select the desired program (**Auto 1–10** or **User Program 1–10**).
4. Set the desired run speed (**0–100**).

Configuration (Settings)

Output Setting

The Output Setting determines the balance between output power and product temperature.

1. Go to the **Output Setting** main level.
2. Select from **Power Mode** (adjusts output intensity in response to temperature) or **Steady Mode** (maintains lower output intensity to prevent high temperature).

Master/Slave

The Master/Slave mode allows a group of COLORado Solo Batten 4 products (the slaves) to simultaneously duplicate the output of another COLORado Solo Batten 4 (the master) without a DMX controller. To set each of the slaves:

1. Go to the **Master/Slave** main level.
2. Select **Slave**.

To set the master:

1. Go to the **Master/Slave** main level.
2. Select **Master**.
3. Select a static setting.



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

Dimmer Profiles

This setting determines how fast the output of the COLORado Solo Batten 4 changes when you modify the output value. This setting provides four different options to simulate the dimming curve of an incandescent lighting product.

1. Go to the **Dimmer Mode** main level.
2. Select a dimmer curve (**Off**, **DIM1**, **DIM2**, **DIM3**, or **DIM4**).



Off: The output is proportional (linear) to the dimmer channel value.

DIM1–4: The output follows the dimmer value based on the corresponding dimmer curve, **DIM1** being the fastest.

LED Frequency

This option changes the Pulse Width Modulation (PWM) frequency of the LEDs on the COLORado Solo Batten 4.

1. Go to the **LED Frequency** main level.
2. Select PWM Frequency (**600Hz**, **1200Hz**, **2000Hz**, **4000Hz**, **6000Hz**, or **25000Hz**).

Cell Order

This option sets the direction in which the cells of LEDs run.

1. Go to the **Cell Order** main level.
2. Select **1– 4(Left to Right)** or **4 – 1(Right to Left)**.

DMX Error/Loss

This option determines what happens if a DMX signal is lost or an error occurs.

1. Go to the **Setting** main level.
2. After being prompted to enter the passcode, press **<UP>**, **<DOWN>**, **<UP>**, **<DOWN>**, **<ENTER>**.
3. Select **DMX Error/Loss**.
4. Select **Hold Last** (continues the last received command) or **Blackout** (blacks out the product).

Display Timeout

This setting allows for selection of the amount of time the display backlight on the COLORado Solo Batten 4 stays on after the last button is pressed on the control panel.

1. Go to the **Setting** main level.
2. After being prompted to enter the passcode, press **<UP>**, **<DOWN>**, **<UP>**, **<DOWN>**, **<ENTER>**.
3. Select **Display Backlight TimeOut**.
4. Select **On** (remains on), **10s** (10 seconds), **20s** (20 seconds), or **30s** (seconds).

System Information

This option displays the total number of hours the product has run, the installed software version, and the product's UID.

1. Go to the **Information** main level.
2. Select **Fixture Hours**, **Firmware Version**, **Device Label**, **Device UID**, or **MAC Address**).

Factory Reset

This option restores the COLORado Solo Batten 4 to factory default settings.

1. Go to the **Factory Reset** main level.
2. After being prompted to enter the passcode, press **<UP>**, **<DOWN>**, **<UP>**, **<DOWN>**, **<ENTER>**.
3. Select **No** or **Yes**.

5. Maintenance

Product Maintenance

Dust build-up reduces light output performance and can cause overheating. This can lead to reduction of the light source's life and/or mechanical wear. To maintain optimum performance and minimize wear, clean your lighting products at least twice a month. However, be aware that usage and environmental conditions could be contributing factors to increase the cleaning frequency.

To clean the product, follow the instructions below:

1. Unplug the product from power.
2. Wait until the product is at room temperature.
3. Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external surface/vents.
4. Clean all transparent surfaces with a mild soap solution, ammonia-free glass cleaner, or isopropyl alcohol.
5. Apply the solution directly to a soft, lint-free cotton cloth or a lens-cleaning tissue.
6. Softly drag any dirt or grime to the outside of the transparent surface.
7. Gently polish the transparent surfaces until they are free of haze and lint.



Always dry the transparent surfaces carefully after cleaning them.

6. Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
14.65 in (372 mm)	9.06 in (230 mm)	9.96 in (253 mm)	17.2 lb (7.8 kg)

Note: Dimensions in inches are rounded.

Power

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

Parameter	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz
Consumption	113 W	110W	111 W
Operating Current	0.960 A	0.566 A	0.516 A
Power linking current (products)	13.6 A (14 products)	13.6 A (24 products)	13.6 A (26 products)

Power I/O	U.S./Worldwide	UK/Europe
Power Input Connector	Seetronic Powerkon A	Seetronic Powerkon A
Power Output Connector	Seetronic Powerkon B	Seetronic Powerkon B
Power Cord plug	Edison (U.S.)	Local Plug

Light Source

Type	Color	Quantity	Power	Current	Lifespan
LED	Red	8	3 W	612 mA	50,000 hours
LED	Green	8	3 W	612 mA	50,000 hours
LED	Blue	8	3 W	612 mA	50,000 hours
LED	White	8	3 W	612 mA	50,000 hours
LED	Amber	16	3 W	612 mA	50,000 hours

Photometrics (without Filter)

Installed Optics	Beam Angle (Horizontal)	Beam Angle (Vertical)	Field Angle (Horizontal)	Field Angle (Vertical)	Illuminance @ 5 m (Total)
18°	18°	17°	34°	30°	1,270 lux

Photometrics (with Filter)

Beam Angle (Horizontal)	Beam Angle (Vertical)	Field Angle (Horizontal)	Field Angle (Vertical)	Illuminance @ 5 m (Total)
35°	16°	66°	32°	432 lux

Thermal

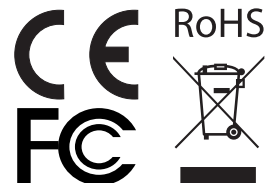
Maximum External Temperature	Cooling System
113 °F (45 °C)	Convection

Control

I/O Connector	Channel Range
5-pin IP65 XLR Seetronic Etherkon IP65	1 Cell: 3, 4, 5, 8, 8, 9, 10, 10, 16 4 Cell: 12, 16, 20, 27, 29, 31, 35, 40, 56

Ordering

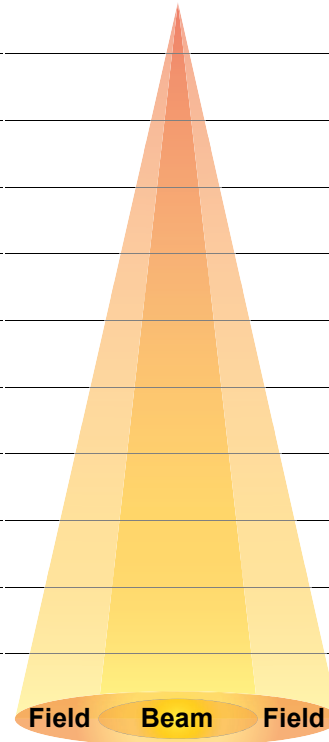
Product Name	Item Name	Item Code	UPC Number
COLORado Solo Batten 4	COLORADOSOLOBATTEN4	01031569	781462219185



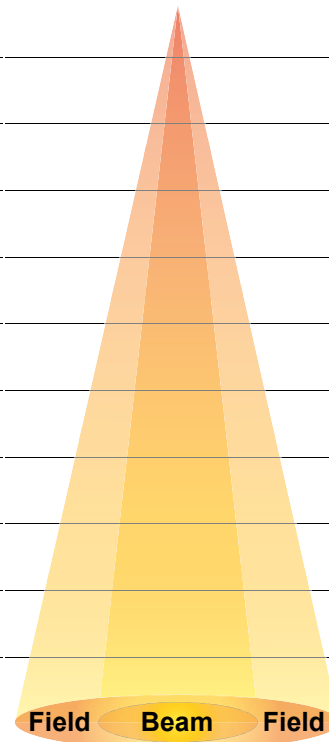
Technical Specifications

Photometrics Charts (without Filter)

			COLORado Solo Batten 4 (Imperial)
Distance	Beam Diameter	Field Diameter	Footcandle
15 ft	4.75 x 4.48 ft	9.17 x 8.04 ft	141
20 ft	6.34 x 5.98 ft	12.23 x 10.72 ft	79
30 ft	9.50 x 8.97 ft	18.34 x 16.08 ft	35
40 ft	12.67 x 11.96 ft	24.46 x 21.44 ft	20
50 ft	15.84 x 14.95 ft	30.57 x 26.79 ft	13
75 ft	23.76 x 22.42 ft	45.86 x 40.19 ft	6
100 ft	31.68 x 29.89 ft	61.15 x 53.59 ft	3
125 ft	39.60 x 37.36 ft	76.43 x 66.99 ft	2
150 ft	47.52 x 44.84 ft	91.72 x 80.38 ft	1

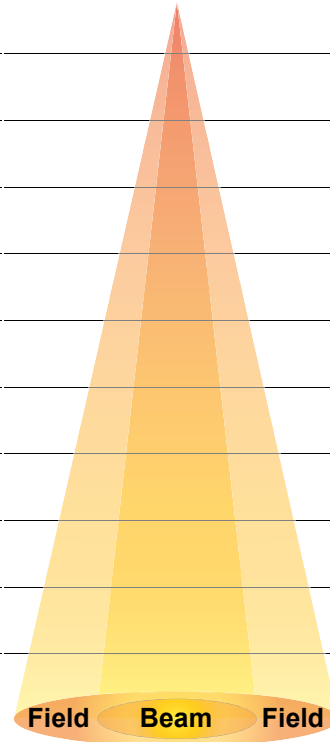


			COLORado Solo Batten 4 (Metric)
Distance	Beam Diameter	Field Diameter	Lux
1 m	0.32 x 0.32 m	0.61 x 0.54 m	31,750
2 m	0.63 x 0.60 m	1.22 x 1.07 m	7,938
5 m	1.58 x 1.49 m	3.06 x 2.69 m	1,270
8 m	2.53 x 2.39 m	4.89 x 4.29 m	496
10 m	3.17 x 2.99 m	6.11 x 5.36 m	318
15 m	4.75 x 4.48 m	9.17 x 8.04 m	141
20 m	6.34 x 5.98 m	12.23 x 10.72 m	79
25 m	7.92 x 7.47 m	15.29 x 13.40 m	51
30 m	9.50 x 8.97 m	18.34 x 16.08 m	35

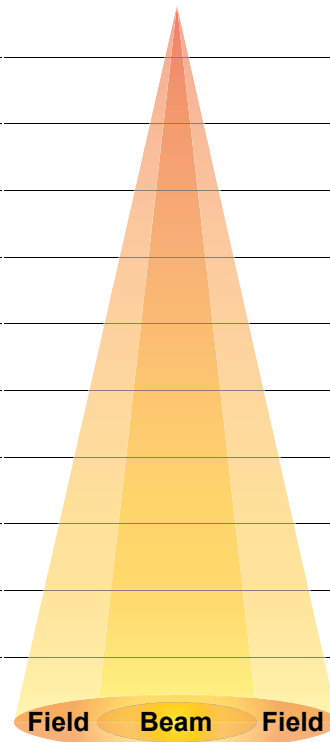


Photometrics Charts (with Filter)

			COLORado Solo Batten 4 (Imperial)
Distance	Beam Diameter	Field Diameter	Footcandle
15 ft	9.46 x 4.22 ft	19.84 x 8.60 ft	48
20 ft	12.61 x 5.62 ft	25.98 x 11.47 ft	27
30 ft	18.92 x 8.43 ft	38.96 x 17.20 ft	12
40 ft	25.22 x 11.24 ft	51.95 x 22.94 ft	7
50 ft	31.53 x 14.05 ft	64.94 x 28.67 ft	4
75 ft	47.29 x 21.08 ft	97.41 x 43.01 ft	2
100 ft	63.06 x 28.11 ft	129.88 x 57.35 ft	1
125 ft	78.82 x 35.14 ft	162.35 x 71.69 ft	1
150 ft	94.59 x 42.16 ft	194.82 x 86.02 ft	0



			COLORado Solo Batten 4 (Metric)
Distance	Beam Diameter	Field Diameter	Lux
1 m	0.63 x 0.28 m	1.30 x 0.57 m	10,800
2 m	1.26 x 0.56 m	2.60 x 1.15 m	2,700
5 m	3.15 x 1.41 x	6.49 x 2.87 m	432
8 m	5.04 x 2.25 m	10.39 x 4.59 m	169
10 m	6.31 x 2.81 m	12.99 x 5.73 m	108
15 m	9.46 x 4.22 m	19.48 x 8.60 m	48
20 m	12.61 x 5.62 m	25.98 x 11.47 m	27
25 m	15.76 x 7.03 m	32.47 x 14.34 m	17
30 m	18.92 x 8.43 m	38.96 x 17.20 m	12



Returns

Returns

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

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

To submit a service request online, go to www.chauvetprofessional.com/service-request.

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



Write the RMA number on a properly affixed label. DO NOT write the RMA number directly on the box.

Before sending the product, clearly write the following information on a piece of paper and place it inside the box:

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

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



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

Contact Us

General Information	Technical Support
Chauvet World Headquarters	
Address: 5200 NW 108th Ave. Sunrise, FL 33351 Voice: (954) 577-4455 Fax: (954) 929-5560 Toll Free: (800) 762-1084	Voice: (844) 393-7575 Fax: (954) 756-8015 Email: chauvetcs@chauvetlighting.com Website: www.chauvetprofessional.com
Chauvet Europe Ltd	
Address: Unit 1C Brookhill Road Industrial Estate Pinxton, Nottingham, UK NG16 6NT Voice: +44 (0) 1773 511115 Fax: +44 (0) 1773 511110	Email: UKtech@chauvetlighting.eu Website: www.chauvetprofessional.eu
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Address: Bruno-Bürgerl-Str. 11 28759 Bremen Germany Voice: +49 421 62 60 20	Email: DEtech@chauvetlighting.de Website: www.chauvetprofessional.eu
Chauvet Mexico	
Address: Av. de las Partidas 34 - 3B (Entrance by Calle 2) Zona Industrial Lerma Lerma, Edo. de México, CP 52000 Voice: +52 (728) 690-2010	Email: servicio@chauvet.com.mx Website: www.chauvetprofessional.mx

Visit the applicable website above to verify our contact information and instructions to request support. Outside the US, UK, Ireland, Benelux, France, Germany, or Mexico, contact the dealer of record.