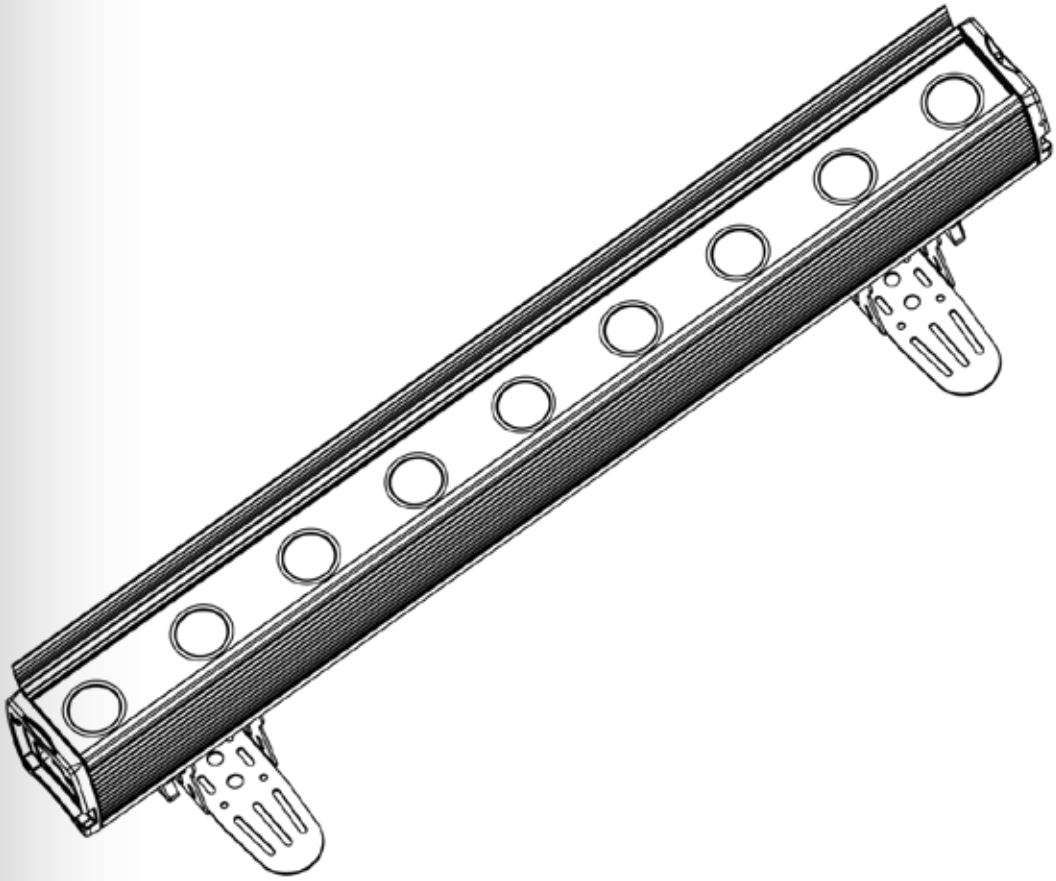
COLORADO™ BATTEN QUAD-9 IP

User Manual



CHAUVET PROFESSIONAL

Edition Notes

This user manual covers the description, safety precautions, installation, programming, operation, and maintenance of the COLORado™ Batten Quad-9 IP. Chauvet released this edition of the COLORado™ Batten Quad-9 IP User Manual in April 2015.

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Document Printing

For better 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 your printer to scale the content accordingly.

Intended Audience

Any person in charge of 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

Chauvet believes that the information contained in this manual is accurate in all respects. However, Chauvet assumes no responsibility for any errors or omissions in this document. Chauvet reserves the right to revise and make changes to the content of this document without obligation that Chauvet notify any person or company of such revision or changes. This does not in any way constitute a commitment by Chauvet to make such changes. Chauvet may issue a revision of this manual or a new edition to incorporate such changes.

Document Revision

The COLORado™ Batten Quad-9 IP User Manual Rev. 4 supersedes all previous versions of this manual. Discard any older versions of this manual and replace with this version. Go to www.chauvetprofessional.com for the latest version.

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Table of Contents

1. Before You Begin 1

What Is Included 1
Claims 1
Manual Conventions 1
Symbols 1
Safety Notes 2
Personal Safety 2
Mounting and Rigging 2
Power and Wiring 2
Operation 2
Expected LED Lifespan 2

2. Introduction 3

Description 3
Features 3
Overview 4
Dimensions 5

3. Setup 6

AC Power 6
AC Plug 6
Power Linking 6
DMX Linking 6
DMX Modes 6
Master/Slave Connectivity 7
Glare Shield 7
Mounting 8
Orientation 8
Rigging 8

4. Operation 9

Control Panel Description 9
Control Options 9
Programming 9
DMX Personality 9
DMX Control 9
Loss of Signal Setting 10
Static Color 10
Auto Programs 10
Edit Custom Programs 10
Strobe Personality 10
Master/Slave 11
Color Settings 11
Dimmer Curves 11
Control Panel Lock 12
Passcode 12
Settings Lock Out 12
Program Upload 12
Resetting Factory Defaults 13
Resetting Calibration Defaults 13
Setting the 13
White Color 13
Calibrating the 13
White Color 13
TOUR Notes 14
Master Dimmer 14

Red, Green, Blue, and White Color Selection 14
Color Macros 14
Strobe 14
Auto/Custom 14
Dimmer Speed 14
Menu Map 15
DMX Values 17

5. Technical Information 25

Product Maintenance 25
Returns 26
Technical Specifications 27
Contact Us ..... **Error! Bookmark not defined.**

1. Before You Begin

What Is Included

- COLORado™ Batten Quad-9 IP
- Edison to proprietary IP66 input power cord
- Male and female 5-pin DMX to proprietary IP66 adapters
- Glare shield
- Warranty card
- Quick Reference Guide

Claims

Carefully unpack the product immediately and check the box 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.

Manual Conventions

Convention	Meaning
1–512	A range of values in the text
50/60	A set of mutually exclusive values in the text
<SET>	A button on the product's control panel
Settings	A product 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 be entered or selected in a menu

Symbols

Symbols	Meaning
	Critical installation, configuration, or operation information. Failure to comply with this information may cause the product not to work, damage third-party equipment, or cause harm to the operator.
	Important installation or configuration information. Failure to comply with this information may keep the product from working.
	Useful information.

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 include 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 Chauvet 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 this product from power 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 hot.

Mounting and Rigging

- The product is not intended for permanent installation.
- DO NOT submerge this product (IP66). Regular outdoor operation is fine.
- Make sure there are no flammable materials close to this product while it is operating.
- When hanging this product, always secure to a fastening device using a safety cable.

Power and Wiring

- Always make sure you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- 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.
- Never connect this 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 you see damage on the housing, lenses, or cables. Have the damaged parts replaced by an authorized technician at once.
- 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.
- Do not cover the ventilation slots when operating to avoid internal overheating.
- The maximum ambient temperature is 113 °F (45 °C). Do not operate this product at a higher temperature.
- In case of a serious operating problem, stop using this product immediately!

In the unlikely event that your Chauvet product may require service, contact Chauvet Technical Support.

Expected LED Lifespan

LEDs gradually decline in brightness over time, mostly because of heat. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal, single-LED conditions. For this reason, using clustered LEDs at their fullest intensity significantly reduces the LEDs' lifespan. Under normal conditions, this lifespan can be 40,000 to 50,000 hours. If extending this lifespan is vital, lower the operating temperature by improving the ventilation around the product and reducing the ambient temperature to an optimal operating range. In addition, limiting the overall projection intensity may also help to extend the LEDs' lifespan.

2. Introduction

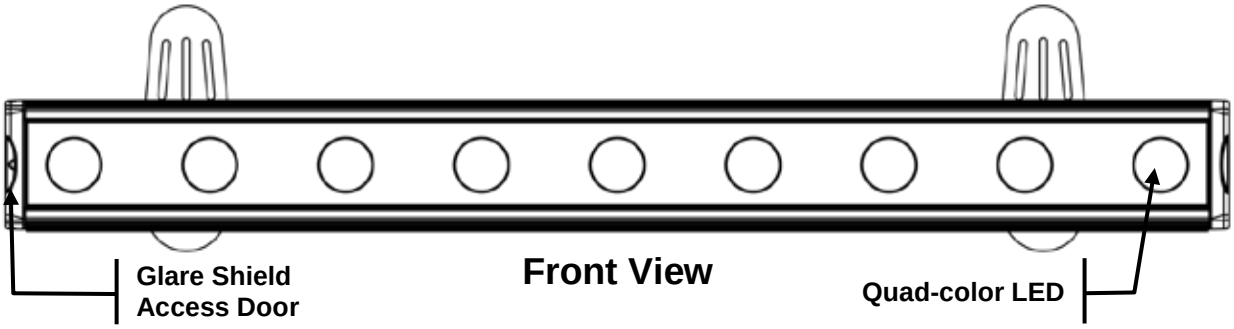
Description

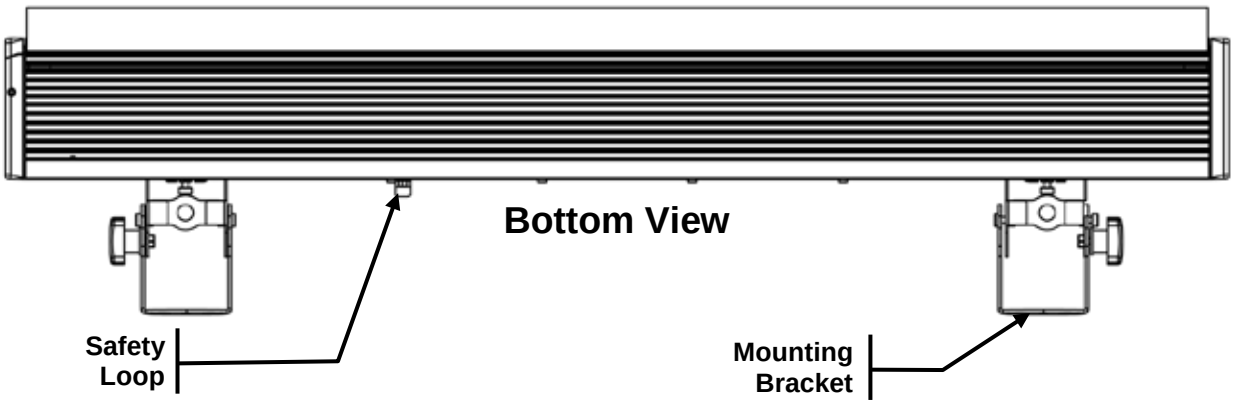
The COLORado™ Batten Quad-9 IP is a bright, IP66-rated, 10-watt quad-color LED linear wash. Versatile by design, this light can go from a wall washer to direct-view effect fixture for pixel mapping—all with superior color and 16-bit dimming.

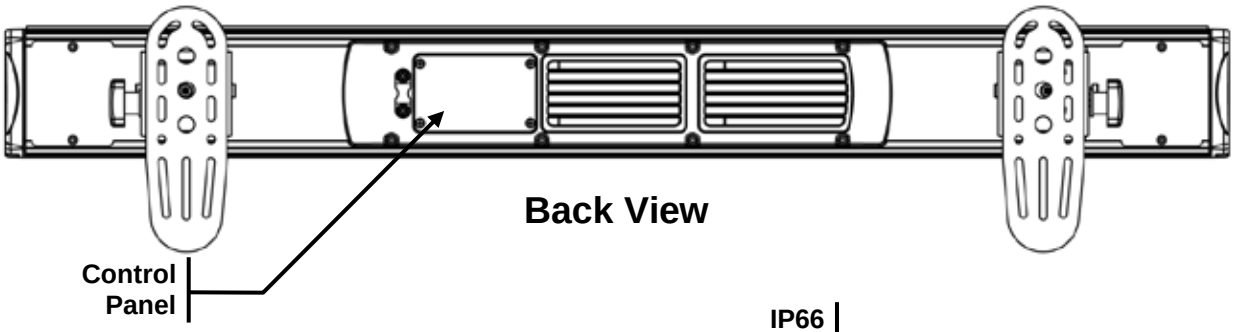
Features

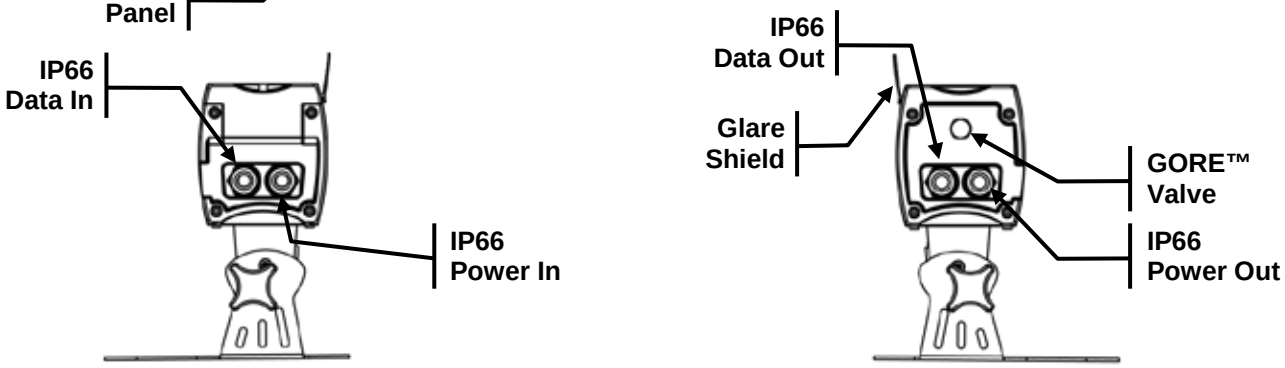
- DMX Channels: 3, 4, 5, 6, 9, 11, 16, 27 or 36
- 16-bit dimming of individual colors as well as master dimmer
- RGBW Quad-color LEDs
- Electronic dimming
- RGBW color mixing without control
- Recall custom programs over DMX
- Five distinct DIM curves
- LED display with passcode protection
- 5-pin XLR DMX to IP connector
- IP66
- Glare shield included

Overview



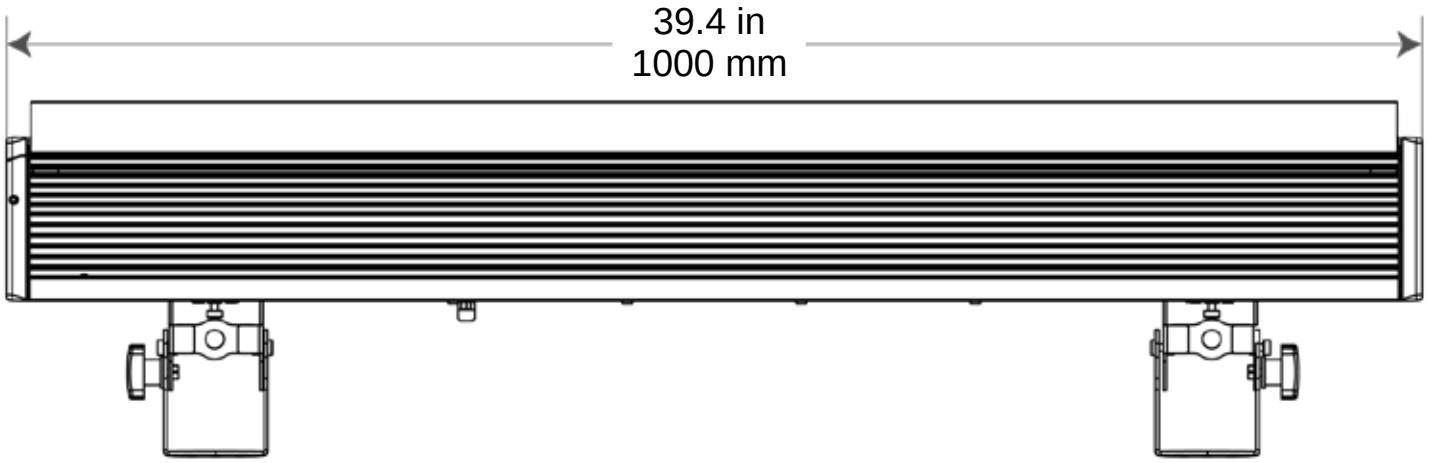


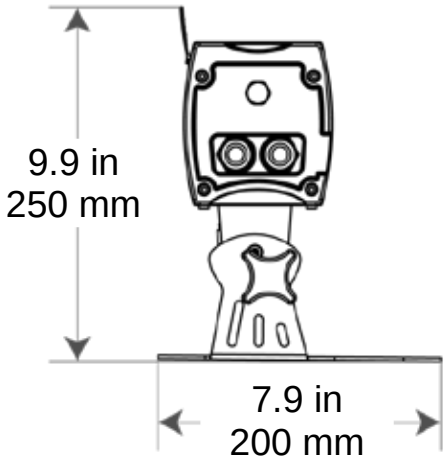




End Cap Views

Dimensions





3. Setup

AC Power

The COLORado™ Batten Quad-9 IP has an auto-ranging power supply that works with an input voltage range of 100–240 VAC, 50/60 Hz. To determine the power requirements for each COLORado™ Batten Quad-9 IP, refer to the label affixed to the product. You can also refer to the Technical Specifications section in this manual.

The listed current rating indicates the maximum current draw during normal operation. For more information, you may download *Sizing Circuit Breakers* from the Chauvet website: www.chauvetprofessional.com.

- **Always connect this product to a protected circuit with 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 this 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™ Batten Quad-9 IP comes with an IP66 power input cord terminated with a proprietary IP66 connector and an IP66 to Edison power cord adapter. If the power cord adapter that came with your product has no plug or you need to change the Edison 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 COLORado™ Batten Quad-9 IP supports power linking. You can power link up to 9 products at 120 VAC, 14 products at 208 VAC, or 15 products at 230 VAC.

This product comes with a power input cord. This product does not come with a power linking cable; however, a power linking cable is available as an option.

DMX Linking

You can link the COLORado™ Batten Quad-9 IP to a DMX controller using a standard DMX serial connection. If using other DMX compatible products with the COLORado™ Batten Quad-9 IP, you can control each individually with a single DMX controller.

DMX Modes

The COLORado™ Batten Quad-9 IP uses the standard DMX data connection for its **TOUR, TR16, ARC.1, AR1.D, ARC.2, AR2.D, AR2.S, HALO, PIX1, PIX2,** and **HSV** DMX modes.

- Refer to the Introduction section for a brief description of these modes.
- Refer to the Operation section to learn how to configure the COLORado™ Batten Quad-9 IP to work in these modes.
- The DMX Values section provides you with detailed information regarding the DMX modes.

Master/Slave Connectivity

The Master/Slave mode allows a COLORado™ Batten Quad-9 IP (the master) to control one or more products (the slaves) without a DMX controller.

One COLORado™ Batten Quad-9 IP becomes the master either when running in static (**STAT**) mode or when using the automatic (**AT**) or customizable (**PR**) programs.

In addition, you must configure each of the slaves (via control panel) to operate in Slave (**SLAV**) mode. During Master/Slave operation, the slaves will operate in unison with the master.

For more information, see the Menu Map section.

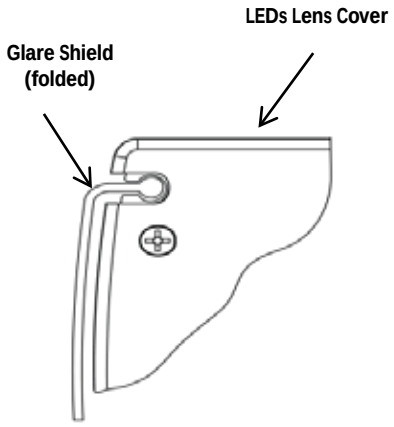
Do not connect a DMX controller to products operating in Master/Slave mode. The DMX controller signals may interfere with the signals from the master.

- The Operation section of this manual provides detailed instructions on how to configure the master and slaves.
- If you need more information about DMX standards, Master/Slave connectivity, or the DMX cables needed in order to link the product to a DMX controller, download the *DMX Primer* from the Chauvet website: www.chauvetprofessional.com.
- Verify the **DIMX** and **CURV** settings are set to **OFF** for optimal control of the **TR16** personality. For more information, see Menu Map.

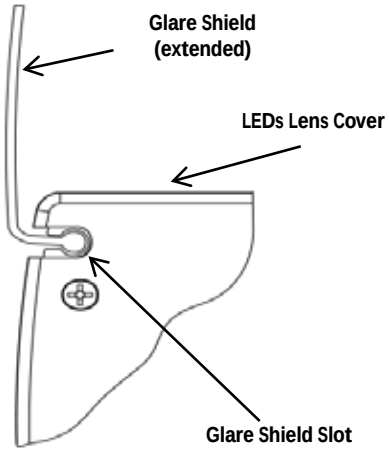
Glare Shield

The COLORado™ Batten Quad-9 IP comes with a glare shield already mounted on the side of the product. To extend the glare shield:

1. Open the glare shield door.
2. Slide the shield out of its slot.
3. Reinsert the glare shield into its slot in the extended position so it projects over the lens cover of the LEDs.
4. Close the glare shield door.



Folded Position



Extended Position

Mounting

Before mounting this product, read and follow 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 and make sure there is adequate room for ventilation, configuration, and maintenance.

Rigging

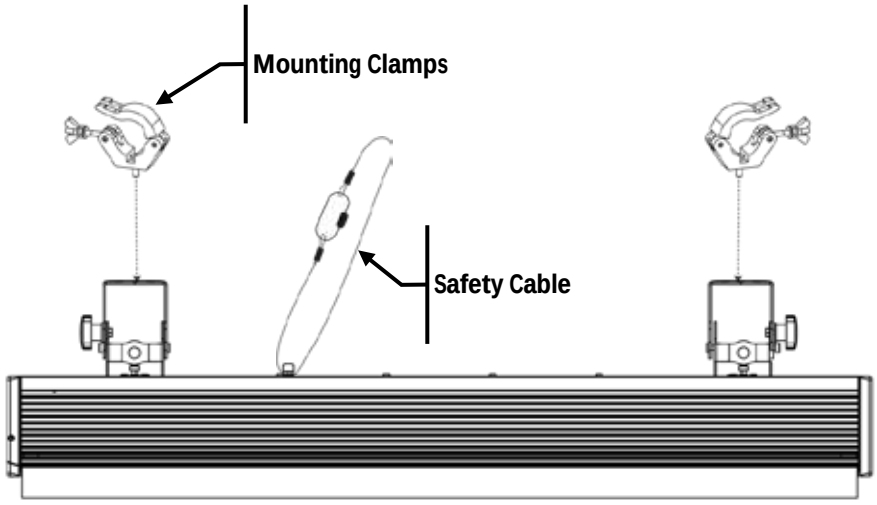
The COLORado™ Batten Quad-9 IP comes with two adjustable feet that double as hanging brackets to which you can attach clamps. Chauvet recommends using the following general guidelines when mounting this product.

- The product is not intended for permanent installation.
- When selecting an installation location, consider easy access to this product for operation, programming adjustments, and routine maintenance.
- Make sure to mount this product away from any flammable material as indicated in the Safety Notes.
- If hanging this product, make sure that the mounting location can support the product's weight. Refer to the Technical Specifications for the weight-bearing requirements of this product.
- When hanging this product, always secure to a fastening device using a safety cable.

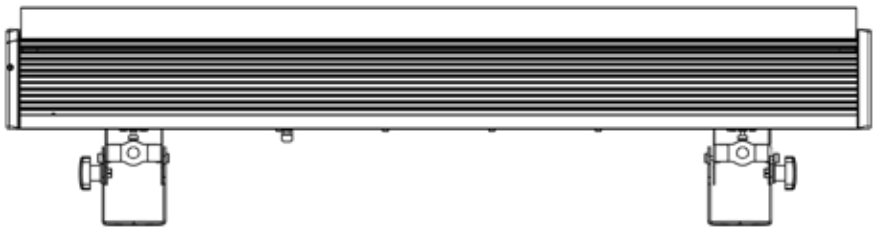
Procedure

The COLORado™ Batten Quad-9 IP comes with two adjustable feet that double as hanging brackets to which you can attach clamps. These brackets also serve as floor stands or wall-mount supports. You must supply your own clamps and make sure the clamps are capable of supporting the weight of this product. You must use two mounting points per product.

Mounting Diagram



Overhead Mounting



Floor Mounting

4. Operation

Control Panel Description

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

Control Options

You can set the COLORado™ Batten Quad-9 IP starting address in the **001** to **512** DMX range. This enables control of up to 14 products in the 36-channel **PIX2** 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.

DMX Personality

This setting allows you to choose a particular DMX personality.

1. Go to the **PERS** main level.
2. Select the desired personality (**TOUR, TR16, ARC.1, AR1.D, ARC.2, AR2.D, AR2.S, PIX1, PIX2, HALO,** or **HSV**).

For the highest starting address you can select for each personality, see the DMX Values section. Verify that the starting addresses on the products do not overlap due to the new personality setting.

DMX Control

In this mode, 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. Select a DMX personality as shown in DMX Personality.
2. Set the running mode:
   a. Go to the **RUN** main level.
   b. Select the **DMX** programming level.
3. Set the starting address:
   a. Go to **ADDR** main level.
   b. Select the starting address (**D.001–512**).

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

DMX Mode	DMX Address	DMX Mode	DMX Address	DMX Mode	DMX Address
TOUR	503	**ARC.2**	509	**HSV**	510
ARC.1	510	**AR2.D**	508	**TR16**	498
AR1.D	509	**AR2.S**	507	**PIX1**	486
PIX2	477	**HALO**	504		

Loss of Signal Setting

This setting controls how the product will respond when the DMX signal is lost.

1. Go to the **SET** main level, and select **DERR**.
    a. Select **SAVE** to make the product use the last command used when the signal is lost.
    b. Select **BLAK** to turn off the all the LEDs when the signal is lost.

Static Color

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

1. Go to the **STAT** main level.
2. Select the desired color (**RED**, **GREN**, **BLUE**, or **WHIT**).
3. Select the desired color value (**000**–**255**).
4. Repeat the steps for additional colors.
5. Select **STRB**.
6. Select the desired frequency (**00**–**20**).

Auto Programs

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

1. Go to **AUTO**.
2. Select the desired auto (**AT. 01–10**) or custom program (**PR. 01–10**).
3. Select the desired speed at which the chosen program will run (**P. 000–255**).

You cannot edit any of the auto programs (**AUTO 01**–**10**).

Edit Custom Programs

This setting allows the programming of up to 30 scenes for each of the 10 customizable programs, including colors and effects.

1. Go to the **EDIT** main level.
2. Select the desired auto program (**PR. 01–10**).
3. Select the desired scene (**SC. 01–30**).
4. Select the desired color or effect (**RED**, **GREN**, **BLUE**, **WHIT**, **STRB**, **TIME**, or **FADE**).
5. Select the color or effect value (**000–255** for colors and timers, or **00–20** for strobe).
6. Repeat the steps for additional colors or effects.
7. Return to the scene level (**SC. 01–30**).
8. Repeat the settings of colors and effects for the other scenes.

Strobe Personality

This setting allows you to select the Classic (01–20 Hz) or Special (Random/Slow/Fast) strobe action displayed in the **TOUR** and **TR16** personalities.

1. Go to the **SET** main level.
2. Select a strobe personality (**SPEC** or **CLAS**).

Master/Slave

The Master/Slave mode allows a group of COLORado™ Batten Quad-9 IPs (slaves) to simultaneously duplicate the output of another COLORado™ Batten Quad-9 IP (master) without a DMX controller.

1. Set each of the slaves:
   a. Go to **RUN**.
   b. Select **SLAVE**.
2. Set the master:
   a. Set the running mode to **DMX** (see DMX Control).
   b. Select an auto or custom program as explained in Auto Programs, or a static mix of colors.

- The master product is the one that runs a program whether in Auto, Custom or Static Color 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 product.
- The master product should be the first product in the daisy chain.

Color Settings

The color setting determines how the product generates the white color based on various RGB settings.

1. Go to the **SET** main level.
2. Select **COLR**.
3. Select **OFF**, **RGBW**, or **UC**.

OFF: When all the RGB faders are set to **255**, the output is maximum, although the resulting white color may not be balanced.

RGBW: When all the RGB faders are set to **255**, the resulting output is defined by the configured White color (see White Calibration).

UC: When all the RGB faders are set to **255**, the output matches that of less efficient products (Universal Color).

Dimmer Curves

This setting provides you with four options to simulate the dimming curve of an incandescent light product.

1. Go to the **SET** main level.
2. Select **DIMX**.
3. Select the desired dimmer curve (**OFF**, **DIM1**, **DIM2**, **DIM3**, or **DIM4**).

OFF The output is proportional (linear) to the dimmer and RGBW channel values.

DIM1–4: The output follows the dimmer and RGBW channel values based on the corresponding dimmer curve, being **DIM1** the fastest and **DIM4** the slowest.

Dimmer Curve Settings

This setting allows you to select the dimmer curve shape using the red, green, blue, white, and dimmer faders.

1. Go to the **SET** main level.
2. Select **CURV**.
3. Select the desired dimmer curve (**OFF**, **CV1**, **CV2**, or **CV3**).

OFF This output is proportional (linear) to the dimmer and **RGBW** channel values.

CV1–3 This output follows the dimmer and **RGBW** channel values based on the corresponding dimmer curve, **CV1** being the fastest and **CV3** the slowest.

For optimum control of the 16-bit dimming channels in the **TR16** personality, be sure that both dimming curves in **SET > DIMX** and **SET > CURV** are set to **OFF**

Control Panel Lock

This setting enables you to activate or disable the control panel lock, which keeps non-authorized personnel from changing the product's settings.

1. Go to the **SET** main level.
2. Select **KEY**.
3. Select **ON** or **OFF**.

When the control panel lock is active, the product will prompt you to enter the passcode after 30 seconds of control panel inactivity or after turning on the product.

Passcode

If you are prompted to enter a passcode on the product, press the buttons in the following order:

- **<UP>**, **<DOWN>**, **<UP>**, **<DOWN>**, **<ENTER>**.

The passcode cannot be changed and must be entered whenever prompted.

Settings Lock Out

This setting enables you to activate or disable the main level **SET** (settings) lock, which keeps unauthorized personnel from changing the product's settings.

1. Go to the **SET** main level.
2. Select **SLCK**.
3. Select **ON** or **OFF**.

Program Upload

This option allows you to duplicate the custom programs of a product onto another product using the Master/Slave mode.

1. Configure and connect the products in a Master/Slave arrangement, where the master has the custom programs you want to transfer to the slaves.
2. From the master, go to the **SET** main level.
3. Select **UPLD**.
4. When ******** shows, enter the master access passcode (see Control Panel Lock).
5. When **SEND** shows, press **<ENTER>** to start the upload.
6. Wait for the upload process to finish (the display will show **OK** before continuing or turning the products off.

The master and slaves will provide the status of the process by lighting up as follows:

- Yellow indicates that the upload process is running.
- Green indicates that the upload process completed successfully.
- Red indicates that the upload process failed due to an error. Recheck all cable connections and restart the process. If the issue persists, contact Chauvet Technical Support.

Do not upload the data from a COLORado™ Batten Quad-9 IP to a different product, as the other product may become inoperative.

Resetting Factory Defaults

This setting allows you to reset the product's default values, including the custom programs.

1. Go to the **SET** main level.
2. Select **REST**.
3. When ******** shows, enter the master access passcode (see Control Panel Lock).
4. Wait for the reset process to finish.

Resetting Calibration Defaults

This setting allows you to reset the product's default values of the color macros in Whites Setting or Whites Calibration.

1. Go to the **CAL** main level.
2. When ******** shows, enter the master access passcode.
3. Go to **CALR**.
4. When ******** shows, enter the master access passcode.
5. Wait for the reset process to finish.

Setting the White Color

This setting allows you to select and edit the temperature of the white colors used in channel 6 when in the **TOUR** mode or channel 11 when in **TR16** mode.

1. Go to the **CAL** main level.
2. When ******** shows, enter the master access passcode (see Control Panel Lock).
3. Go to **CAL1**.
4. Select a white color (**WH.01–11**).
5. Select a color (**RED**, **GREN**, **BLUE**, or **WHIT**).
6. Select a color value (**000–255**).
7. Repeat for the other colors.

Calibrating the White Color

This setting allows you to calibrate the white color when **RGBW** and the DMX controller's red, green, and blue faders are set to **255**.

1. Go to the **CAL** main level.
2. When ******** shows, enter the master access passcode (see Control Panel Lock).
3. Go to **CAL2**.
4. Select the desired color (**RED**, **GREN**, or **BLUE**).
5. Select a desired color value (**000** to **255**).
6. Repeat the steps for additional colors.

When selecting **CAL > CAL2 >**, you will only be able to define the values of red, green, and blue.

The values of RED, GREN (green), and BLUE configured from CAL > CAL2 > will define the color temperature shown when the RGB faders are set to "255" if SET > COLR > RGBW is active.

TOUR Notes

These notes 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 (**100%**), the intensity of the output is at maximum.

Red, Green, Blue, and White Color Selection

- Channels 2 through 5 control the intensity ratio of each of the red, green, blue, and white LEDs.
- When these channels are at the highest position (**100%**), the intensity of each color is at maximum if **SET > COLR** is **OFF**.
- You can combine channels 2 through 5 to create over one trillion colors.

Color Macros

- Channel 6 selects the required Color Macro.
- Channel 6 has priority over channels 2 through 6.
- Channel 1 controls the intensity of the Color Macro.

Strobe

- Channel 7 controls the strobe frequency (not the intensity) of channels 2 through 6.
- Channel 7 can strobe channels 2 through 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 7 can strobe channel 6 when running macros, allowing channel 6 to select the macro and channel 1 to control the output intensity.

Auto/Custom

- Channel 8 selects the preset auto programs **AT.01–10** or the custom programs **PR.01–10**.
- When activating the custom programs **PR.01–10**, you can control the Step Time and Fade Time using channels 2 and 3, respectively.
- Channel 8 has priority over channels 2 through 7.
- Channel 9 controls the speed at which each auto program plays.

Dimmer Speed

- Channel 10 selects the Dimmer mode and speed. The Dimmer mode provides four different options to simulate the dimming curve of an incandescent lighting product.
- When Dimmer is set to **OFF,** the changes in the RGBW and Master Dimmer faders are linear.
- When Dimmer is set to **DIM1–DIM4**, **DIM1** is the fastest dimmer curve and **DIM4** is the slowest.

Menu Map

Main Level	Programming Levels				Description
STAT	RED		000–255		Combine red, green, blue, and white to make a custom color
	GREN				
	BLUE				
	WHIT				
	STRB		00–20		Selects the strobe frequency (0–20 Hz)
AUTO	AT.		01–10	P. 000–255	10 automatic programs
	PR.				10 customizable programs
RUN	DMX				DMX mode
	SLAV				Master/Slave mode
ADDR	D.		001–512		Selects the DMX starting address
PERS	TOUR				11-channel: RGBW, dimmer, strobe, color macro, auto/custom, dimmer speed, auto speed, pixel selection
	TR16				16-channel: 16-bit- RGBW and dimmer; strobe, color macro, auto/custom, dimmer speed, auto speed, pixel selection
	ARC.1				3-channel: RGB control
	AR1.D				4-channel: RGB, dimmer
	ARC.2				4-channel: RGBW control
	AR2.D				5-channel: RGBW, dimmer
	AR2.S				6-channel: RGBW, dimmer, strobe
	PIX1				27 channels: RGB pixel control
	PIX2				36 channels: RGBW pixel control
	HALO				9-channel: 2700 K pixel control
	HSV				3-channel: HSV control
EDIT	PR. 01–10	SC. 01–30	RED	000–255	Combine red, green, blue, and white to generate a custom color (0–100%)
			GREN		
			BLUE		
			WHIT		
			STRB	00–20	Selects the strobe frequency (0–20 Hz)
			TIME	000–255	Defines the step duration (slow to fast)
			FADE		Defines the fade duration (slow to fast)

Menu Map (Cont.)

Main Level	Programming Levels						Description
SET	KEY			ON			Turns the passcode on or off
				OFF			
	UPLD			**** (Enter Passcode)	SEND/ OK		Uploads custom programs to other COLORado™ Batten Quad-9 IPs
	REST			**** (Enter Passcode)	SEND/ OK		Defaults product to factory settings
	COLR			OFF			RGB set to **255** = max. output
				RGBW			RGB set to **255** = balanced white
				UC.			Universal color balance
	DIMX			OFF			No dimmer
				DIM1			Dimmer curve
				DIM2			
				DIM3			
				DIM4			
	CURV			OFF			No dimmer
				CV1			Slow (**CV3**) to fast (**CV1**) dimmer curves
				CV2			
				CV3			
	DERR			SAVE			Continues with last command upon loss of DMX control
				BLAK			Blacks out fixture upon loss of DMX
	SLCK			OFF			**SET** main level access lock
				ON			
	STRB			SPEC			Selects strobe personality used in **TOUR** and **TR16** personalities
				CLAS			
CAL	**** (Enter Passcode)	CAL1	WH. 01–11	RED	000–255		Modifies the color macros used in the **TOUR** and **TR16** personalities
				GREN			
				BLUE			
				WHIT			
		CAL2		RED			Defines the color temperature used when **COLR** is set to **RGBW**
				GREN			
				BLUE			
		CALR			**** (Enter Passcode)		Defaults **CAL** to factory settings

DMX Values

TOUR

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ó 255	0–100%
2	**Red**	000 ó 255	0–100% (Step Time if **Custom 1**–**10** active)
3	**Green**	000 ó 255	0–100% (Fade Time if **Custom 1**–**10** active)
4	**Blue**	000 ó 255	0–100%
5	**White**	000 ó 255	0–100%
6	**Color Macro + White Balance**	000 ó 010	No function
		011 ó 030	R: 100% G: 0–100% B: 0
		031 ó 050	R: 100%–0 G: 100% B: 0
		051 ó 070	R: 0 G: 100% B: 0–100%
		071 ó 090	R: 0 G: 100%–0 B: 100%
		091 ó 110	R: 0–100% G: 0 B: 100%
		111 ó 130	R: 100% G: 0 B: 100%–0
		131 ó 150	R: 100% G: 0–100% B: 0–100%
		151 ó 170	R: 100%–0 G: 100%–0 B: 100%
		171 ó 200	R: 100% G: 100% B: 100% W: 100%
		201 ó 205	White 1
		206 ó 210	White 2
		211 ó 215	White 3
		216 ó 220	White 4
		221 ó 225	White 5
		226 ó 230	White 6
		231 ó 235	White 7
		236 ó 240	White 8
		241 ó 245	White 9
		246 ó 250	White 10
		251 ó 255	White 11
7*	**Special Strobe**	000 ó 009	No function
		010 ó 099	Slow to fast
		100 ó 109	No function
		110 ó 179	Lighting effect slow to fast
		180 ó 189	No function
		190 ó 255	Random
	Classic Strobe	000 ó 009	No function
		010 ó 019	1 Hz
		020 ó 029	2 Hz
		030 ó 039	3 Hz
		040 ó 049	4 Hz
		050 ó 059	5 Hz
		060 ó 069	6 Hz
		070 ó 079	7 Hz
		080 ó 089	8 Hz
		090 ó 099	9 Hz
		100 ó 109	10 Hz
		110 ó 119	11 Hz
		120 ó 129	12 Hz
		130 ó 139	13 Hz
		140 ó 149	14 Hz
		150 ó 159	15 Hz
		160 ó 169	16 Hz
		170 ó 179	17 Hz
		180 ó 189	18 Hz
		190 ó 199	19 Hz
		200 ó 255	20 Hz

*Select strobe function in the main menu under **SET > STRB**, select **SPEC** or **CLAS**

DMX Values (Cont.)

TOUR (Cont.)

Channel	Function	Value	Percent/Setting
8	**Programs**	000 ó 040	No function
		041 ó 050	Auto 1
		051 ó 060	Auto 2
		061 ó 070	Auto 3
		071 ó 080	Auto 4
		081 ó 090	Auto 5
		091 ó 100	Auto 6
		101 ó 110	Auto 7
		111 ó 120	Auto 8
		121 ó 130	Auto 9
		131 ó 140	Auto 10
		141 ó 150	Custom 1
		151 ó 160	Custom 2
		161 ó 170	Custom 3
		171 ó 180	Custom 4
		181 ó 190	Custom 5
		191 ó 200	Custom 6
		201 ó 210	Custom 7
		211 ó 220	Custom 8
		221 ó 230	Custom 9
		231 ó 255	Custom 10
9	**Auto Speed**	000 ó 255	0–100%
10	**Dimmer Speed**	000 ó 009	Preset dimmer speed from display menu
		010 ó 029	Linear dimmer
		030 ó 069	Nonlinear dimming curve 1 (fastest)
		070 ó 129	Nonlinear dimming curve 2
		130 ó 189	Nonlinear dimming curve 3
		190 ó 255	Nonlinear dimming curve 4 (slowest)
11	**Pixel Selection**	000 ó 009	Pix 1,2,3,4,5,6,7,8,9 (static)
		010 ó 019	Pix 1 (static)
		020 ó 029	Pix 2 (static)
		030 ó 039	Pix 3 (static)
		040 ó 049	Pix 4 (static)
		050 ó 059	Pix 5 (static)
		060 ó 069	Pix 6 (static)
		070 ó 079	Pix 7 (static)
		080 ó 089	Pix 8 (static)
		090 ó 099	Pix 9 (static)
		100 ó 109	Pix 1,2,3 (static)
		110 ó 119	Pix 4,5,6 (static)
		120 ó 129	Pix 7,8,9 (static)
		130 ó 139	Pix 1,2,3,7,8,9 (static)
		140 ó 149	Pix 1,2,3,4,5,6 (static)
		150 ó 159	Pix 4,5,6,7,8,9 (static)
		160 ó 169	Pix 1,3,5,7,9 (static)
		170 ó 179	Pix 2,4,6,8 (static)
		180 ó 189	Chase left-to-right
		190 ó 199	Chase right-to-left
		200 ó 219	Chase left-right-left
		220 ó 239	Random
		240 ó 255	Pix 1,2,3,4,5,6,7,8,9 (static)

DMX Values (Cont.)

TR16

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ó 255	0–100%
2	**Fine Dimmer**	000 ó 255	0–100%
3	**Red**	000 ó 255	0–100%
4	**Fine Red**	000 ó 255	0–100%
5	**Green**	000 ó 255	0–100%
6	**Fine Green**	000 ó 255	0–100%
7	**Blue**	000 ó 255	0–100%
8	**Fine Blue**	000 ó 255	0–100%
9	**White**	000 ó 255	0–100%
10	**Fine White**	000 ó 255	0–100%
11	**Color Macro + White Balance**	000 ó 010	No function
		011 ó 030	R: 100% G: 0–100% B: 0
		031 ó 050	R: 100%–0 G: 100% B: 0
		051 ó 070	R: 0 G: 100% B: 0–100%
		071 ó 090	R: 0 G: 100%–0 B: 100%
		091 ó 110	R: 0–100% G: 0 B: 100%
		111 ó 130	R: 100% G: 0 B: 100%–0
		131 ó 150	R: 100% G: 0–100% B: 0–100%
		151 ó 170	R: 100%–0 G: 100%–0 B: 100%
		171 ó 200	R: 100% G: 100% B: 100% A: 100%
		201 ó 205	White 1
		206 ó 210	White 2
		211 ó 215	White 3
		216 ó 220	White 4
		221 ó 225	White 5
		226 ó 230	White 6
		231 ó 235	White 7
		236 ó 240	White 8
		241 ó 245	White 9
		246 ó 250	White 10
		251 ó 255	White 11

DMX Values (Cont.)

TR16 (Cont.)

Channel	Function	Value	Percent/Setting
12*	Special Strobe	000 ó 009	No function
		010 ó 099	Slow to fast
		100 ó 109	No function
		110 ó 179	Lighting effect slow to fast
		180 ó 189	No function
		190 ó 255	Random
	Classic Strobe	000 ó 009	No function
		010 ó 019	1 Hz
		020 ó 029	2 Hz
		030 ó 039	3 Hz
		040 ó 049	4 Hz
		050 ó 059	5 Hz
		060 ó 069	6 Hz
		070 ó 079	7 Hz
		080 ó 089	8 Hz
		090 ó 099	9 Hz
		100 ó 109	10 Hz
		110 ó 119	11 Hz
		120 ó 129	12 Hz
		130 ó 139	13 Hz
		140 ó 149	14 Hz
		150 ó 159	15 Hz
		160 ó 169	16 Hz
		170 ó 179	17 Hz
		180 ó 189	18 Hz
		190 ó 199	19 Hz
		200 ó 255	20 Hz
13	Programs	000 ó 040	No Function
		041 ó 050	Auto 1
		051 ó 060	Auto 2
		061 ó 070	Auto 3
		071 ó 080	Auto 4
		081 ó 090	Auto 5
		091 ó 100	Auto 6
		101 ó 110	Auto 7
		111 ó 120	Auto 8
		121 ó 130	Auto 9
		131 ó 140	Auto 10
		141 ó 150	Custom 1
		151 ó 160	Custom 2
		161 ó 170	Custom 3
		171 ó 180	Custom 4
		181 ó 190	Custom 5
		191 ó 200	Custom 6
		201 ó 210	Custom 7
		211 ó 220	Custom 8
		221 ó 230	Custom 9
		231 ó 255	Custom 10

*Select strobe function in the main menu under **SET > STRB**, select **SPEC** or **CLAS**

DMX Values (Cont.)

TR16 (Cont.)

Channel	Function	Value	Percent/Setting
14	**Auto Speed**	000 ó 255	0–100%
15	**Dimmer Speed**	000 ó 009	Preset dimmer speed from display menu
		010 ó 029	Linear dimmer
		030 ó 069	Nonlinear dimming curve 1 (fastest)
		070 ó 129	Nonlinear dimming curve 2
		130 ó 189	Nonlinear dimming curve 3
		190 ó 255	Nonlinear dimming curve 4 (slowest)
16	**Pixel Selection**	000 ó 009	Pix 1,2,3,4,5,6,7,8,9 (static)
		010 ó 019	Pix 1 (static)
		020 ó 029	Pix 2 (static)
		030 ó 039	Pix 3 (static)
		040 ó 049	Pix 4 (static)
		050 ó 059	Pix 5 (static)
		060 ó 069	Pix 6 (static)
		070 ó 079	Pix 7 (static)
		080 ó 089	Pix 8 (static)
		090 ó 099	Pix 9 (static)
		100 ó 109	Pix 1,2,3 (static)
		110 ó 119	Pix 4,5,6 (static)
		120 ó 129	Pix 7,8,9 (static)
		130 ó 139	Pix 1,2,3,7,8,9 (static)
		140 ó 149	Pix 1,2,3,4,5,6 (static)
		150 ó 159	Pix 4,5,6,7,8,9 (static)
		160 ó 169	Pix 1,3,5,7,9 (static)
		170 ó 179	Pix 2,4,6,8 (static)
		180 ó 189	Chase left-to-right
		190 ó 199	Chase right-to-left
		200 ó 219	Chase left-right-left
		220 ó 239	Random
		240 ó 255	Pix 1,2,3,4,5,6,7,8,9 (static)

ARC.1

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

AR1.D

Channel	Function	Value	Percent/Setting
1	**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%

ARC.2

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%

DMX Values (Cont.)

AR2.D

Channel	Function	Value	Percent/Setting
1	**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%

AR2.S

Channel	Function	Value	Percent/Setting
1	**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	**Classic Strobe**	000 ó 009 010 ó 019 020 ó 029 030 ó 039 040 ó 049 050 ó 059 060 ó 069 070 ó 079 080 ó 089 090 ó 099 100 ó 109 110 ó 119 120 ó 129 130 ó 139 140 ó 149 150 ó 159 160 ó 169 170 ó 179 180 ó 189 190 ó 199 200 ó 255	No Function 1 Hz 2 Hz 3 Hz 4 Hz 5 Hz 6 Hz 7 Hz 8 Hz 9 Hz 10 Hz 11 Hz 12 Hz 13 Hz 14 Hz 15 Hz 16 Hz 17 Hz 18 Hz 19 Hz 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%

DMX Values (Cont.)

PIX1

Channel	Function	Value	Percent/Setting
1	Pixel 1 Red	000 ó 255	0–100%
2	Pixel 1 Green	000 ó 255	0–100%
3	Pixel 1 Blue	000 ó 255	0–100%
4	Pixel 2 Red	000 ó 255	0–100%
5	Pixel 2 Green	000 ó 255	0–100%
6	Pixel 2 Blue	000 ó 255	0–100%
7	Pixel 3 Red	000 ó 255	0–100%
8	Pixel 3 Green	000 ó 255	0–100%
9	Pixel 3 Blue	000 ó 255	0–100%
10	Pixel 4 Red	000 ó 255	0–100%
11	Pixel 4 Green	000 ó 255	0–100%
12	Pixel 4 Blue	000 ó 255	0–100%
13	Pixel 5 Red	000 ó 255	0–100%
14	Pixel 5 Green	000 ó 255	0–100%
15	Pixel 5 Blue	000 ó 255	0–100%
16	Pixel 6 Red	000 ó 255	0–100%
17	Pixel 6 Green	000 ó 255	0–100%
18	Pixel 6 Blue	000 ó 255	0–100%
19	Pixel 7 Red	000 ó 255	0–100%
20	Pixel 7 Green	000 ó 255	0–100%
21	Pixel 7 Blue	000 ó 255	0–100%
22	Pixel 8 Red	000 ó 255	0–100%
23	Pixel 8 Green	000 ó 255	0–100%
24	Pixel 8 Blue	000 ó 255	0–100%
25	Pixel 9 Red	000 ó 255	0–100%
26	Pixel 9 Green	000 ó 255	0–100%
27	Pixel 9 Blue	000 ó 255	0–100%

HALO

Channel	Function	Value	Percent/Setting
1	Pixel 1 Dimmer 2700K	000 ó 255	0–100%
2	Pixel 2 Dimmer 2700K	000 ó 255	0–100%
3	Pixel 3 Dimmer 2700K	000 ó 255	0–100%
4	Pixel 4 Dimmer 2700K	000 ó 255	0–100%
5	Pixel 5 Dimmer 2700K	000 ó 255	0–100%
6	Pixel 6 Dimmer 2700K	000 ó 255	0–100%
7	Pixel 7 Dimmer 2700K	000 ó 255	0–100%
8	Pixel 8 Dimmer 2700K	000 ó 255	0–100%
9	Pixel 9 Dimmer 2700K	000 ó 255	0–100%

DMX Values (Cont.)

PIX2

Channel	Function	Value	Percent/Setting
1	**Pixel 1 Red**	000 ó 255	0–100%
2	**Pixel 1 Green**	000 ó 255	0–100%
3	**Pixel 1 Blue**	000 ó 255	0–100%
4	**Pixel 1 White**	000 ó 255	0–100%
5	**Pixel 2 Red**	000 ó 255	0–100%
6	**Pixel 2 Green**	000 ó 255	0–100%
7	**Pixel 2 Blue**	000 ó 255	0–100%
8	**Pixel 2 White**	000 ó 255	0–100%
9	**Pixel 3 Red**	000 ó 255	0–100%
10	**Pixel 3 Green**	000 ó 255	0–100%
11	**Pixel 3 Blue**	000 ó 255	0–100%
12	**Pixel 3 White**	000 ó 255	0–100%
13	**Pixel 4 Red**	000 ó 255	0–100%
14	**Pixel 4 Green**	000 ó 255	0–100%
15	**Pixel 4 Blue**	000 ó 255	0–100%
16	**Pixel 4 White**	000 ó 255	0–100%
17	**Pixel 5 Red**	000 ó 255	0–100%
18	**Pixel 5 Green**	000 ó 255	0–100%
19	**Pixel 5 Blue**	000 ó 255	0–100%
20	**Pixel 5 White**	000 ó 255	0–100%
21	**Pixel 6 Red**	000 ó 255	0–100%
22	**Pixel 6 Green**	000 ó 255	0–100%
23	**Pixel 6 Blue**	000 ó 255	0–100%
24	**Pixel 6 White**	000 ó 255	0–100%
25	**Pixel 7 Red**	000 ó 255	0–100%
26	**Pixel 7 Green**	000 ó 255	0–100%
27	**Pixel 7 Blue**	000 ó 255	0–100%
28	**Pixel 7 White**	000 ó 255	0–100%
29	**Pixel 8 Red**	000 ó 255	0–100%
30	**Pixel 8 Green**	000 ó 255	0–100%
31	**Pixel 8 Blue**	000 ó 255	0–100%
32	**Pixel 8 White**	000 ó 255	0–100%
33	**Pixel 9 Red**	000 ó 255	0–100%
34	**Pixel 9 Green**	000 ó 255	0–100%
35	**Pixel 9 Blue**	000 ó 255	0–100%
36	**Pixel 9 White**	000 ó 255	0–100%

5. Technical Information

Product Maintenance

To maintain optimum performance and minimize wear, you should clean this product frequently. Usage and environment are contributing factors in determining the cleaning frequency.

As a rule, clean this product 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.

To clean your product:

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 vents.
4. Clean all external surfaces with a mild solution of non-ammonia glass cleaner or isopropyl alcohol.
5. Apply the solution directly to a soft, lint-free cotton cloth or a lens cleaning tissue.
6. Wipe any dirt or grime to the outside edges of the lens surface.
7. Gently polish the lens surfaces until they are free of haze and lint.

Always dry the external surfaces thoroughly and carefully after cleaning them.

Returns

You must 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.

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

Do not write the RMA number directly on the box. Instead, write it on a properly affixed label.

Once you have received the RMA number, include the following information on a piece of paper inside the box:

- Your name
- Your address
- Your phone number
- The RMA number
- A brief description of the problem(s)

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

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

Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
39.4 in (1000 mm)	7.9 in (200 mm)	9.9 in (250 mm)	25.2 lb (11.4 kg)

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

Power

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

Parameter	120 V, 60 Hz	230 V, 50 Hz
Consumption	181 W	206 W
Operating	1.51 A	0.90 A
Power Linking	9	15

Power I/O	U.S./Worldwide	Europe
Power input connector	Hardwired	Hardwired
Power cord plug	IP66	Local plug

Light Source

Type	Power	Lifespan
LED	10 W	50,000 hours

Color	Quantity	Current
quad-color RGBW	9	800 mA

Photometrics

Parameter	Standard Optics
Illuminance @ 5 m	1,026 lx
Beam angle	17° x 15°
Field angle	31° x 30°
Strobe rate	0–20 Hz

Thermal

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

DMX

I/O Connectors	Connector Type	Channel Range
5-pin XLR	Sockets	3, 4, 5, 6, 9, 11, 16, 27 or 36

Ordering

Product Name	Item Code	UPC Number
COLORado™ Batten Quad-9 IP	01030720	781462210687

Contact Us

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Outside the U.S., United Kingdom, Ireland, Mexico, or Benelux contact the dealer of record. Follow their instructions to request support or to return a product. Visit our website for contact details.

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