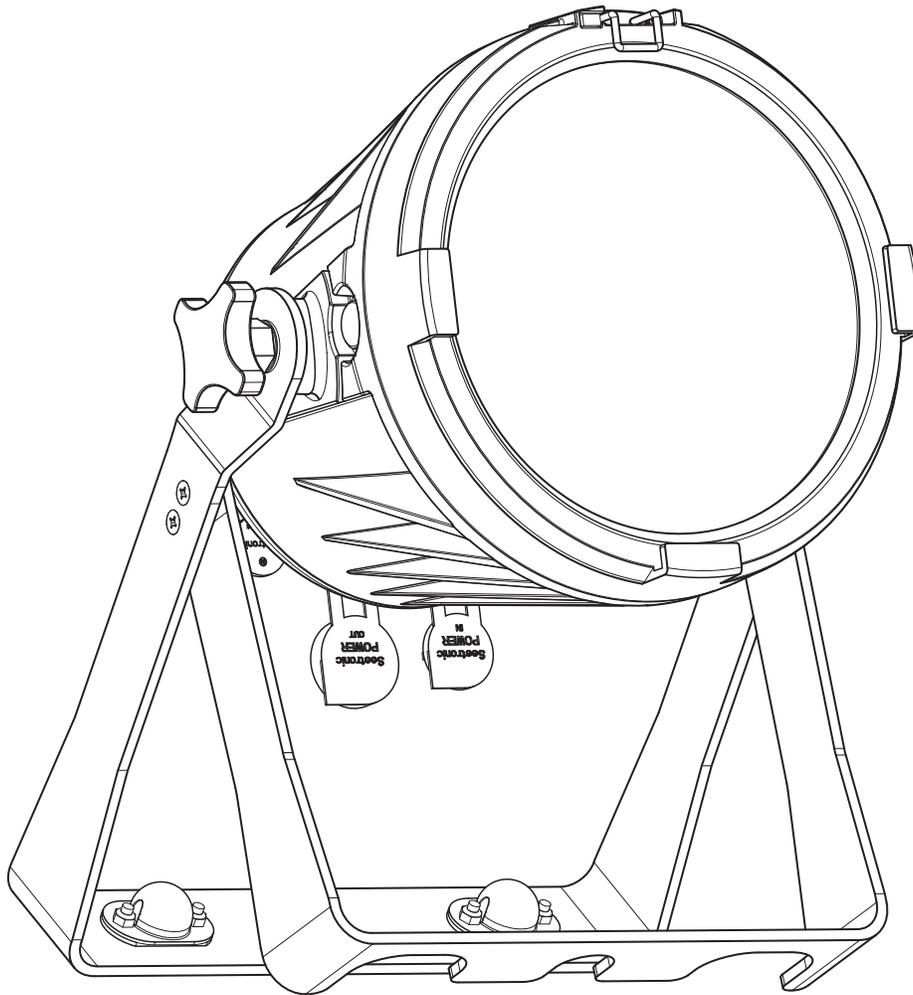# COLORADO 1QS

User Manual

Model ID: COLORADO1QS

CHAUVET
PROFESSIONAL

Edition Notes

The COLORado 1QS User Manual includes a description, safety precautions, installation, programming, operation and maintenance instructions for the COLORado 1QS 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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Document Revision

This COLORado 1QS User Manual is the 1st edition of this document. Go to www.chauvetprofessional.com for the latest version.

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1. Before You Begin

What Is Included

- COLORado 1QS
- Seetronic Powerkon IP65 power cord
- Gel frame
- Omega bracket
- 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
- Make sure the power cord is not crimped or damaged.
- 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.
- 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 dimmer pack or rheostat.
- Make sure to replace the fuse with another of the same type and rating.
- 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

Over time, use and heat will gradually reduce LED brightness. 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 1QS is an indoor/outdoor wash light with a homogenized output from a single, high-power RGBW LED source. A 17° beam angle offers versatile control and 16 bit-dimming facilitates smooth fades. An IP65 housing makes it ideal for touring, rental, and production markets. Outdoor-rated power and data connectors allow for easy connections without propriety cabling. It also includes an omega bracket with ¼ turn adapters for fast and easy rigging and is compatible with all 7.5" accessories.

Features

- Operating modes:
  - HSIC (7-channel): dimmer, 16-bit hue, saturation, color temperature, strobe, dimmer speed
  - SSP (7-channel): dimmer, RGBW, strobe, dimmer speed
  - TOUR (10-channel): dimmer, RGBW, color macros, strobe, auto programs and speed, dimmer speed
  - TR16 (15-channel): 16-bit dimmer, 16-bit RGBW, color macros, strobe, auto programs and speed, dimmer speed
  - STD.Y (15-channel): 16-bit dimmer, 16-bit RGBW, color macros, strobe, auto programs and speed, dimmer speed
- RGBW LED wash for touring, rental, and production, indoors or out
- All environment operation with IP rated power and DMX connections
- Flat, even field of light from a single source
- RDM and variable PWM (Pulse Width Modulation) for setup ease
- Accepts standard 7.5" beam shaping accessories
- 16-bit dimming resolution for smooth fades
- Double-bracket yoke doubles as floor stand

Product Overview

Product Dimensions

8.27 in
210 mm

8.03 in
204 mm

13.6 in
345 mm

13.19 in
335 mm

10.75 in
273 mm
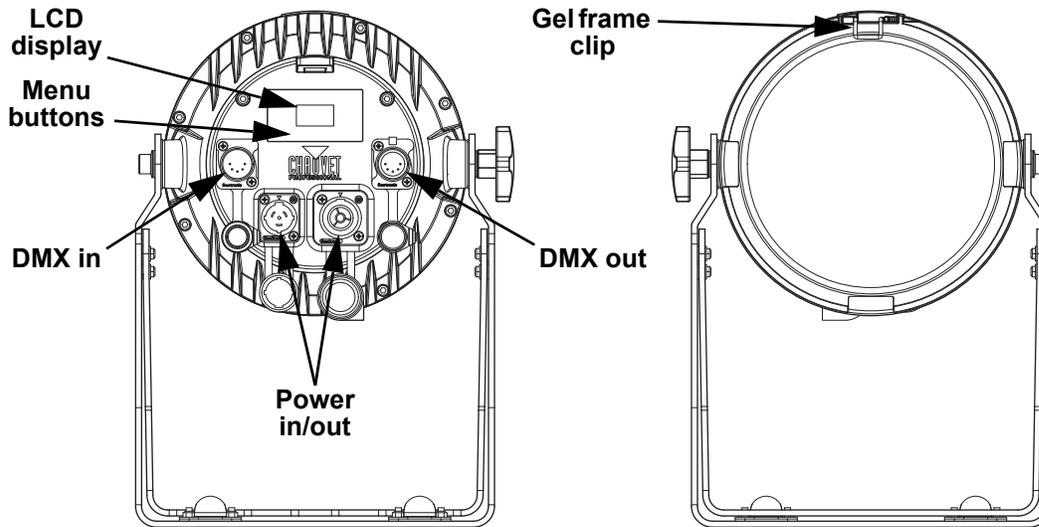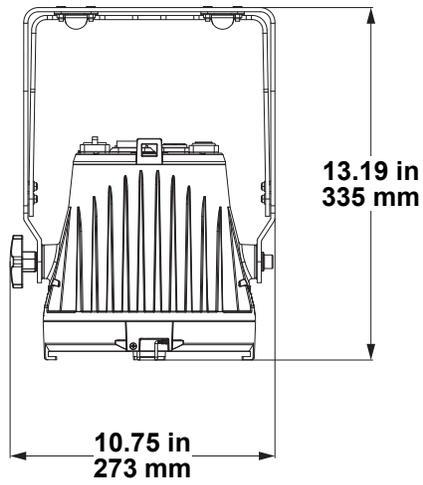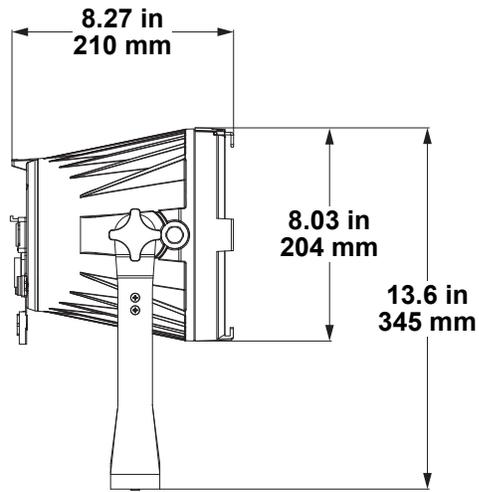
3. Setup

AC Power

The COLORado 1QS 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 1QS 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 18 products at 100 V, up to 22 products at 120 V, up to 35 products at 208 V, up to 38 products at 230 V, or up to 40 products at 240 V.

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

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 1QS supports RDM protocol that allows feedback to make changes to menu map options.

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.

Procedure

The COLORado 1QS 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
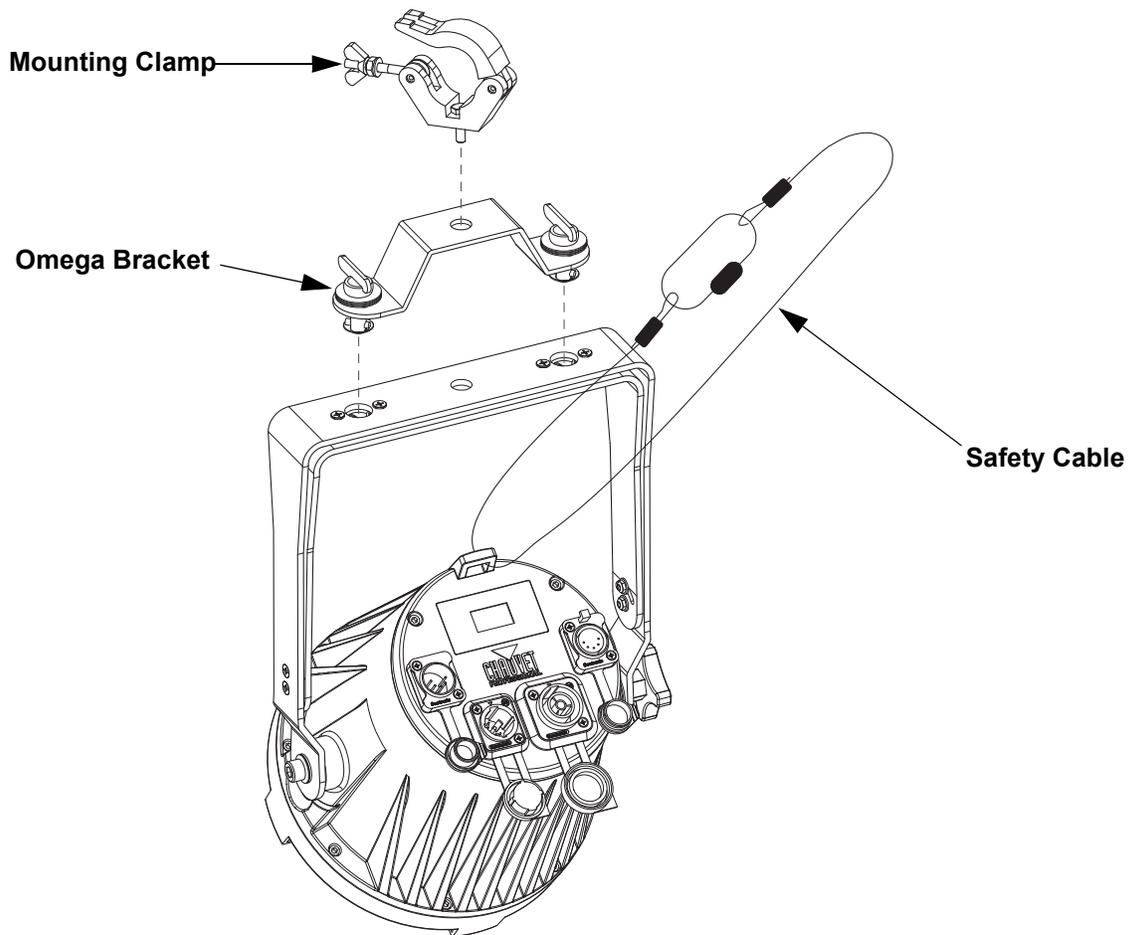
4. Operation

Control Panel Description

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 1QS starting address in the 001–506 DMX range. This enables control of up to 34 products in the 15-channel **STD.Y** 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.

Menu Map

Refer to the COLORado 1QS product page on www.chauvetprofessional.com for the latest menu map.

Main Level	Programming Levels			Description
STATIC	**RED**	**RED**	**000–255**	Combines red, green, blue, and white to make a custom color
	GREEN	**GREEN**	**000–255**	
	BLUE	**BLUE**	**000–255**	
	WHITE	**WHITE**	**000–255**	
	STROBE	**STROBE**	**0–25**	Sets the strobe frequency (0–25 Hz)
ADDRESS	**1–506***			Selects DMX address (*highest channel restricted to personality chosen)
AUTO PROGRAM	**AUTO1–10**	**SPEED 0–255**		Selects automatic programs and program speed
	PROGRAM1–10			
RUN MODE	**DMX**			DMX mode (Master)
	SLAVE			Slave mode
PERSONALITY	**HSIC**			7-channel: dimmer, 16-bit hue, saturation, color temperature, strobe, dimmer speed
	SSP			7-channel: dimmer, RGBW, strobe, dimmer speed
	TOUR			10-channel: dimmer, RGBW, color macros, strobe, auto programs and speed, dimmer speed
	TR16			15-channel: 16-bit dimmer, 16-bit RGBW, color macros, strobe, auto programs and speed, dimmer speed
	STD.Y			15-channel: 16-bit dimmer, 16-bit RGBW, color macros, strobe, auto programs and speed, dimmer speed

Main Level	Programming Levels				Description
EDIT	**PROGRAM 01–10**	**SCENE 01–30**	**RED**	**0–255**	Combines red, green, blue, and white to make a custom color
			GREEN	**0–255**	
			BLUE	**0–255**	
			WHITE	**0–255**	
			STROBE	**0–25**	Sets the strobe frequency (0–25 Hz)
			TIME	**0–255**	Sets the step duration (short to long)
			FADE	**0–255***	Sets the fade speed (slow to fast) (*range determined by **TIME** setting)
SETTING	**UPLOAD**	****** (Enter Passcode)**		**SEND**	Uploads custom programs to other COLORado 1QS products
	RESET	****** (Enter Passcode)**			Resets the product to factory default settings
	DIMMER	**OFF**			Linear dimmer
		DIM1–4			Dimming speeds **DIM1** (fast) to **DIM4** (slow)
	DMX ERROR	**SAVE**			Continues last command upon loss of DMX
		BLACK			Blacks out product upon loss of DMX
	PWM	**600Hz**	**X FINE**	**+/-200**	Sets the PWM frequency
		1200Hz			
		2000Hz			
		2400Hz	**Y FINE**		
		6000Hz			
		18000Hz			
		25000Hz			
	FULL POWER CCT	**WARM WHITE**			Sets the color temperature when LED output is 100%
		NEUTRAL WHITE			
		COOL WHITE			
		NORMAL			Manual color temperature
	XY OFFSET	**HIDE**			Shows or hides XY settings in PWM menu options
		SHOW			
KEY	**ON**				Locks display (passcode is **<UP>**, **<DOWN>**, **<UP>**, **<DOWN>**, **<ENTER>**)
	OFF				
CALIB.C	****** (Enter Passcode)**	**WHITE-01–13**	**X FINE**	**+/-200**	Modifies the preset color temperatures
			Y FINE		
INFO	**VERSION**	**V_._**			Shows current firmware version
	RDM	**UID**	**_ _ _ _ _ _ _ _ _ _ _ _ _ _**		Shows product UID
		LABEL	**COLORado 1 QS**		Shows RDM label

Configuration (DMX)

Use control configurations to operate the product with a DMX controller.

Control Personalities

To set the control personality:

1. Go to the **PERSONALITY** main level.
2. Select the desired personality, from **HSIC**, **SSP**, **TOUR**, **TR16**, or **STD.Y**.

- See the 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 controller. All products with the same starting address will respond in unison. To set the starting address:

1. Go to the **ADDRESS** main level.
2. Select the starting address (**1**–**506**).
   - The highest recommended starting address for **HSIC** is **506**.
   - The highest recommended starting address for **SSP** is **506**.
   - The highest recommended starting address for **TOUR** is **503**.
   - The highest recommended starting address for **TR16** is **498**.
   - The highest recommended starting address for **STD.Y** is **498**.

Control Channel Assignments and Values

STD.Y (15 Channels)

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ⇔ 255	0–100%
2	**Fine dimmer** (when Ch. 13 is 000 ⇔ 140)	000 ⇔ 255	Fine control (16-bit)
	Step Duration (when Ch. 13 is 141 ⇔ 255)	000 ⇔ 255	Custom program step duration, short to long
3	**Red** (when Ch. 13 is 000 ⇔ 140)	000 ⇔ 255	0–100%
	Fade Speed (when Ch. 13 is 141 ⇔ 255)	000 ⇔ 255	Custom program fade speed, slow to fast
4	**Fine red**	000 ⇔ 255	Fine control (16-bit)
5	**Green**	000 ⇔ 255	0–100%
6	**Fine green**	000 ⇔ 255	Fine control (16-bit)
7	**Blue**	000 ⇔ 255	0–100%
8	**Fine blue**	000 ⇔ 255	Fine control (16-bit)
9	**White**	000 ⇔ 255	0–100%
10	**Fine white**	000 ⇔ 255	Fine control (16-bit)
11	**Color Macro**	000 ⇔ 010	No function
		011 ⇔ 030	Red: 100% Green: 0–100% Blue: 0% White: 0%
		031 ⇔ 050	Red: 100–0% Green: 100% Blue: 0% White: 0%
		051 ⇔ 070	Red: 0% Green: 100% Blue: 0–100% White: 0%
		071 ⇔ 090	Red: 0% Green: 100–0% Blue: 100% White: 0%
		091 ⇔ 110	Red: 0–100% Green: 0% Blue: 100% White: 0%
		111 ⇔ 130	Red: 100% Green: 0% Blue: 100–0% White: 0%
		131 ⇔ 150	Red: 100% Green: 0–100% Blue: 0–100% White: 0%
		151 ⇔ 170	Red: 100–0% Green: 100–0% Blue: 100% White: 0%
		171 ⇔ 195	Red: 100% Green: 100% Blue: 100% White: 100%
		196 ⇔ 200	White 1
		201 ⇔ 205	White 2
		206 ⇔ 210	White 3
		211 ⇔ 215	White 4
		216 ⇔ 220	White 5
		221 ⇔ 225	White 6
		226 ⇔ 230	White 7
		231 ⇔ 235	White 8
		236 ⇔ 240	White 9
		241 ⇔ 245	White 10
		246 ⇔ 250	White 11
		251 ⇔ 255	White 12

Channel	Function	Value	Percent/Setting
12	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
13	Automatic Programs	000 ⇔ 040	No function
		041 ⇔ 050	Automatic program 1
		051 ⇔ 060	Automatic program 2
		061 ⇔ 070	Automatic program 3
		071 ⇔ 080	Automatic program 4
		081 ⇔ 090	Automatic program 5
		091 ⇔ 100	Automatic program 6
		101 ⇔ 110	Automatic program 7
		111 ⇔ 120	Automatic program 8
		121 ⇔ 130	Automatic program 9
		131 ⇔ 140	Automatic program 10
		141 ⇔ 150	Custom automatic program 1
		151 ⇔ 160	Custom automatic program 2
		161 ⇔ 170	Custom automatic program 3
		171 ⇔ 180	Custom automatic program 4
		181 ⇔ 190	Custom automatic program 5
		191 ⇔ 200	Custom automatic program 6
		201 ⇔ 210	Custom automatic program 7
		211 ⇔ 220	Custom automatic program 8
		221 ⇔ 230	Custom automatic program 9
		231 ⇔ 255	Custom automatic program 10
14	Program Speed	000 ⇔ 255	Automatic program speed, slow to fast
15	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)

TR16 (15 Channels)

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100%
2	Fine dimmer (when Ch. 13 is 000 ⇔ 140)	000 ⇔ 255	Fine control (16-bit)
	Step Duration (when Ch. 13 is 141 ⇔ 255)	000 ⇔ 255	Custom program step duration, short to long
3	Red (when Ch. 13 is 000 ⇔ 140)	000 ⇔ 255	0–100%
	Fade Speed (when Ch. 13 is 141 ⇔ 255)	000 ⇔ 255	Custom program fade speed, slow to fast
4	Fine red	000 ⇔ 255	Fine control (16-bit)
5	Green	000 ⇔ 255	0–100%
6	Fine green	000 ⇔ 255	Fine control (16-bit)
7	Blue	000 ⇔ 255	0–100%
8	Fine blue	000 ⇔ 255	Fine control (16-bit)
9	White	000 ⇔ 255	0–100%
10	Fine white	000 ⇔ 255	Fine control (16-bit)

Channel	Function	Value	Percent/Setting
11	Color Macro	000 ⇔ 010	No function
		011 ⇔ 030	Red: 100% Green: 0–100% Blue: 0% White: 0%
		031 ⇔ 050	Red: 100–0% Green: 100% Blue: 0% White: 0%
		051 ⇔ 070	Red: 0% Green: 100% Blue: 0–100% White: 0%
		071 ⇔ 090	Red: 0% Green: 100–0% Blue: 100% White: 0%
		091 ⇔ 110	Red: 0–100% Green: 0% Blue: 100% White: 0%
		111 ⇔ 130	Red: 100% Green: 0% Blue: 100–0% White: 0%
		131 ⇔ 150	Red: 100% Green: 0–100% Blue: 0–100% White: 0%
		151 ⇔ 170	Red: 100–0% Green: 100–0% Blue: 100% White: 0%
		171 ⇔ 195	Red: 100% Green: 100% Blue: 100% White: 100%
		196 ⇔ 200	White 1
		201 ⇔ 205	White 2
		206 ⇔ 210	White 3
		211 ⇔ 215	White 4
		216 ⇔ 220	White 5
		221 ⇔ 225	White 6
		226 ⇔ 230	White 7
		231 ⇔ 235	White 8
		236 ⇔ 240	White 9
		241 ⇔ 245	White 10
		246 ⇔ 250	White 11
		251 ⇔ 255	White 12
12	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
13	Automatic Programs	000 ⇔ 040	No function
		041 ⇔ 050	Automatic program 1
		051 ⇔ 060	Automatic program 2
		061 ⇔ 070	Automatic program 3
		071 ⇔ 080	Automatic program 4
		081 ⇔ 090	Automatic program 5
		091 ⇔ 100	Automatic program 6
		101 ⇔ 110	Automatic program 7
		111 ⇔ 120	Automatic program 8
		121 ⇔ 130	Automatic program 9
		131 ⇔ 140	Automatic program 10
		141 ⇔ 150	Custom automatic program 1
		151 ⇔ 160	Custom automatic program 2
		161 ⇔ 170	Custom automatic program 3
		171 ⇔ 180	Custom automatic program 4
		181 ⇔ 190	Custom automatic program 5
		191 ⇔ 200	Custom automatic program 6
		201 ⇔ 210	Custom automatic program 7
		211 ⇔ 220	Custom automatic program 8
		221 ⇔ 230	Custom automatic program 9
		231 ⇔ 255	Custom automatic program 10
14	Program Speed	000 ⇔ 255	Automatic program speed, slow to fast

Channel	Function	Value	Percent/Setting
15	**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)

TOUR (10 Channels)

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ⇔ 255	0–100%
2	**Red** (when Ch. 8 is 000 ⇔ 140)	000 ⇔ 255	0–100%
	Step Duration (when Ch. 8 is 141 ⇔ 255)	000 ⇔ 255	Custom program step duration, short to long
3	**Green** (when Ch. 8 is 000 ⇔ 140)	000 ⇔ 255	0–100%
	Fade Speed (when Ch. 8 is 141 ⇔ 255)	000 ⇔ 255	Custom program fade speed, slow to fast
4	**Blue**	000 ⇔ 255	0–100%
5	**White**	000 ⇔ 255	0–100%
6	**Color Macro**	000 ⇔ 010	No function
		011 ⇔ 030	Red: 100% Green: 0–100% Blue: 0% White: 0%
		031 ⇔ 050	Red: 100–0% Green: 100% Blue: 0% White: 0%
		051 ⇔ 070	Red: 0% Green: 100% Blue: 0–100% White: 0%
		071 ⇔ 090	Red: 0% Green: 100–0% Blue: 100% White: 0%
		091 ⇔ 110	Red: 0–100% Green: 0% Blue: 100% White: 0%
		111 ⇔ 130	Red: 100% Green: 0% Blue: 100–0% White: 0%
		131 ⇔ 150	Red: 100% Green: 0–100% Blue: 0–100% White: 0%
		151 ⇔ 170	Red: 100–0% Green: 100–0% Blue: 100% White: 0%
		171 ⇔ 195	Red: 100% Green: 100% Blue: 100% White: 100%
		196 ⇔ 200	White 1
		201 ⇔ 205	White 2
		206 ⇔ 210	White 3
		211 ⇔ 215	White 4
		216 ⇔ 220	White 5
		221 ⇔ 225	White 6
		226 ⇔ 230	White 7
		231 ⇔ 235	White 8
		236 ⇔ 240	White 9
		241 ⇔ 245	White 10
		246 ⇔ 250	White 11
		251 ⇔ 255	White 12
7	**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

Channel	Function	Value	Percent/Setting
8	**Automatic Programs**	000 ⇔ 040	No function
		041 ⇔ 050	Automatic program 1
		051 ⇔ 060	Automatic program 2
		061 ⇔ 070	Automatic program 3
		071 ⇔ 080	Automatic program 4
		081 ⇔ 090	Automatic program 5
		091 ⇔ 100	Automatic program 6
		101 ⇔ 110	Automatic program 7
		111 ⇔ 120	Automatic program 8
		121 ⇔ 130	Automatic program 9
		131 ⇔ 140	Automatic program 10
		141 ⇔ 150	Custom automatic program 1
		151 ⇔ 160	Custom automatic program 2
		161 ⇔ 170	Custom automatic program 3
		171 ⇔ 180	Custom automatic program 4
		181 ⇔ 190	Custom automatic program 5
		191 ⇔ 200	Custom automatic program 6
		201 ⇔ 210	Custom automatic program 7
		211 ⇔ 220	Custom automatic program 8
		221 ⇔ 230	Custom automatic program 9
		231 ⇔ 255	Custom automatic program 10
9	**Program Speed**	000 ⇔ 255	Automatic program speed, slow to fast
10	**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)

SSP (7 Channels)

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ⇔ 255	0–100%
2	**Red**	000 ⇔ 255	0–100%
3	**Green**	000 ⇔ 255	0–100%
4	**Blue**	000 ⇔ 255	0–100%
5	**White**	000 ⇔ 255	0–100%
6	**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
7	**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)

HSIC (7 Channels)

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100%
2	Hue	000 ⇔ 255	0–100%
3	Fine hue	000 ⇔ 255	Fine control (16-bit)
4	Saturation	000 ⇔ 255	0–100%
5	Color Temperature	000 ⇔ 010	No function
		011 ⇔ 030	White 1
		031 ⇔ 050	White 2
		051 ⇔ 070	White 3
		071 ⇔ 090	White 4
		091 ⇔ 110	White 5
		111 ⇔ 130	White 6
		131 ⇔ 150	White 7
		151 ⇔ 170	White 8
		171 ⇔ 190	White 9
		191 ⇔ 210	White 10
		211 ⇔ 230	White 11
		231 ⇔ 255	White 12
6	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
7	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)

Configuration (Standalone)

Static Color

To set the COLORado 1QS to a preset static color:
1. Go to the **STATIC** main level.
2. Select from the **RED**, **GREEN**, **BLUE**, **WHITE**, and **STROBE** options.
3. Increase or decrease the value from **000–255** (**RED**, **GREEN**, **BLUE**, or **WHITE**), or **0–25** (**STROBE**).

Automatic Program

To run a preset or custom automatic program:
1. Go to the **AUTO PROGRAM** main level.
2. Select from **AUTO1–10** (preset) or **PROGRAM1–10** (custom).
3. Increase or decrease the **SPEED** from **000–255**.

Custom Program

To customize an automatic program:
1. Go to the **EDIT** main level.
2. Select from **PROGRAM 01–10**.
3. Select from **SCENE 01–30**.
4. Select from **RED**, **GREEN**, **BLUE**, **WHITE**, **STROBE**, **TIME**, or **FADE**.
5. Increase or decrease the selected value from **000–255**.

Configuration (Settings)

Run Mode
To select the run mode:
1. Go to the **RUN MODE** main level.
2. Select from **DMX** (master mode), or **SLAVE** (slave mode).

Upload Custom Programs
To upload the custom programs from one COLORado 1QS product to another:
1. Go to the **SETTING** main level.
2. Select the **UPLOAD** option.
3. Enter the passcode (**UP>, <DOWN>, <UP>, <DOWN>, <ENTER>**).
4. Select **SEND** to upload.

Factory Reset
To reset the product to factory default settings:
1. Go to the **SETTING** main level.
2. Select the **RESET** option.
3. Enter the passcode (**UP>, <DOWN>, <UP>, <DOWN>, <ENTER>**).

Dimmer Speed
To select the dimmer speed:
1. Go to the **SETTING** main level.
2. Select the **DIMMER** option.
3. Select from **OFF** (linear dimmer) or **DIM1–4** (fast to slow).

DMX Error
To select what happens when a DMX signal is lost:
1. Go to the **SETTING** main level.
2. Select the **DMX ERROR** option.
3. Select from **SAVE** (continues last command) or **BLACK** (blacks out).

Pulse Width Modulation
To set the PWM frequency:
1. Go to the **SETTING** main level.
2. Select the **PWM** option.
3. Select from **600Hz**, **1200Hz**, **2000Hz**, **2400Hz**, **6000Hz**, **18000Hz**, or **25000Hz**.
4. If **XY Offset** is set to **SHOW**, select from **X FINE** or **Y FINE**.
5. Increase or decrease the offset from **-200–+200**.

Correlated Color Temperature
To set the CCT mode at full power:
1. Go to the **SETTING** main level.
2. Select the **FULL POWER CCT** option.
3. Select from **WARM WHITE**, **NEUTRAL WHITE**, **COOL WHITE**, or **NORMAL** (manual control).

XY Offset
To set whether the X FINE and Y FINE options are available under PWM:
1. Go to the **SETTING** main level.
2. Select the **XY OFFSET** option.
3. Select from **HIDE** (not available) or **SHOW** (available).

Passcode
To enable or disable the passcode lock:
1. Go to the **KEY** main level.
2. Select from **ON** (display locked) or **OFF** (display unlocked).

Color Calibration
To select a preset white balance:
1. Go to the **CALIB.C** main level.
2. Enter the passcode (**UP>, <DOWN>, <UP>, <DOWN>, <ENTER>**).
3. Select from **WHITE-01–13**.
4. Select from **X FINE** or **Y FINE**.
5. Increase or decrease the offset from **-200–+200**.

Product Information
To view the product information:
1. Go to the **INFO** main level.
2. Select from **VERSION** or **RDM**.

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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
10.75 in (273 mm)	8.27 in (210 mm)	13.19 in (335 mm)	10.8 lb (5.0 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	100 V, 60 Hz	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz	240 V, 50 Hz
Consumption	73 W	74 W	79 W	80 W	81 W
Operating Current	0.741 A	0.613 A	0.385 A	0.350 A	0.337 A
Power linking current (products)	13.6 A (18 products)	13.6 A (22 products)	13.6 A (35 products)	13.6 A (38 products)	13.6 A (40 products)

Power I/O	U.S./Worldwide	UK/Europe
Power Input Connector	Seetronic Powerkon IP65	Seetronic Powerkon IP65
Power Output Connector	Seetronic Powerkon IP65	Seetronic Powerkon IP65
Power Cord plug	Edison (U.S.)	Local Plug

Light Source

Type	Color	Quantity	Power	Current	Lifespan
LED	Quad-color RGBW	24	3 W	900 mA	50,000 hours

Photometrics

Beam Angle	Field Angle	Illuminance @ 5 m
17°	30°	1,268 lux

Thermal

Startup Temperature Range	Operating Temperature Range	Cooling System
-4 °F to 113 °F (-20 °C to 45 °C)	-22 °F to 113 °F (-30 °C to 45 °C)	Convection

DMX

I/O Connector	Channel Range
3 and 5-pin XLR	7, 10 or 15

Ordering

Product Name	Item Name	Item Code	UPC Number
COLORado 1QS	COLORADO1QS	01031624	781462219727

RoHS

MET ®
c   us

UL 1573
CSA C22.2 No. 166
E113093

CE

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.	Voice: (844) 393-7575
Sunrise, FL 33351	Fax: (954) 756-8015
Voice: (954) 577-4455	Email: chauvetcs@chauvetlighting.com
Fax: (954) 929-5560	
Toll Free: (800) 762-1084	Website: www.chauvetprofessional.com
Chauvet Europe Ltd	
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Voice: +52 (728) 690-2010	

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