

COLORADO *P*ANEL Q40

User Manual



Model ID: COLORADOPANELQ40

CHAUVET
PROFESSIONAL

Edition Notes

The COLORado Panel Q40 User Manual includes a description, safety precautions, installation, programming, operation and maintenance instructions for the COLORado Panel Q40 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 Panel Q40 User Manual is the 7th 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 Panel Q40
- Seetronic Powerkon IP65 power cable
- Color blending filter lens
- Omega bracket with mounting hardware
- Floor stand
- 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 a 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.

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.

RF Exposure Warning for North America and Australia

Warning! This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and the user. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.

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.

- The luminaire is intended for professional use only.
- The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 25.92 ft (7.9 m) is not expected.
- If the external flexible cable or cord of this luminaire is damaged, it shall be replaced by a special cord or cord exclusively available from the manufacturer or its service agent.
- The light source contained in this luminaire shall only be replaced by the manufacturer or its service agent or a similar qualified person.
- **CAUTION:**
 - This product's housing may be hot when operating. Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
 - When transferring the 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 the product to fully acclimate to the surrounding environment before connecting it to power.
 - Flashing light is known to trigger epileptic seizures. User must comply with local laws regarding notification of strobe use.
- **ALWAYS:**
 - Disconnect from power before cleaning the product or replacing the fuse.
 - When using an IP65-rated product in an outdoor environment, use IP65- (or higher) rated power and data cable.
 - Replace and secure IP-rated protective covers to all power, data, USB, or other ports when not in use.
 - Replace the fuse with the same type and rating.
 - Use a safety cable when mounting this product overhead.
 - Connect this product to a grounded and protected circuit.
- **DO NOT:**
 - Open this product. It contains no user-serviceable parts.
 - Look at the light source when the product is on.
 - Leave any flammable material within 50 cm of this product while operating or connected to power.
 - Connect this product to a dimmer or rheostat.
 - Operate this product if the housing, lenses, or cables appear damaged.
 - Submerge this product (adhere to standards for the published IP rating). Regular outdoor operation is fine.
 - Permanently install outdoors 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 normal temperatures exceed the temperature ranges in this manual.
 - Locations that are prone to flooding or being buried in snow.
 - Other areas where the product will be subject to extreme radiation or caustic substances.
- **ONLY** use the handles or the hanging/mounting brackets to carry this product.
- The maximum ambient temperature is 113 °F (45 °C). Do not operate this 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.
- 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.
- In the event of a serious operating problem, stop using immediately.



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

2. Introduction

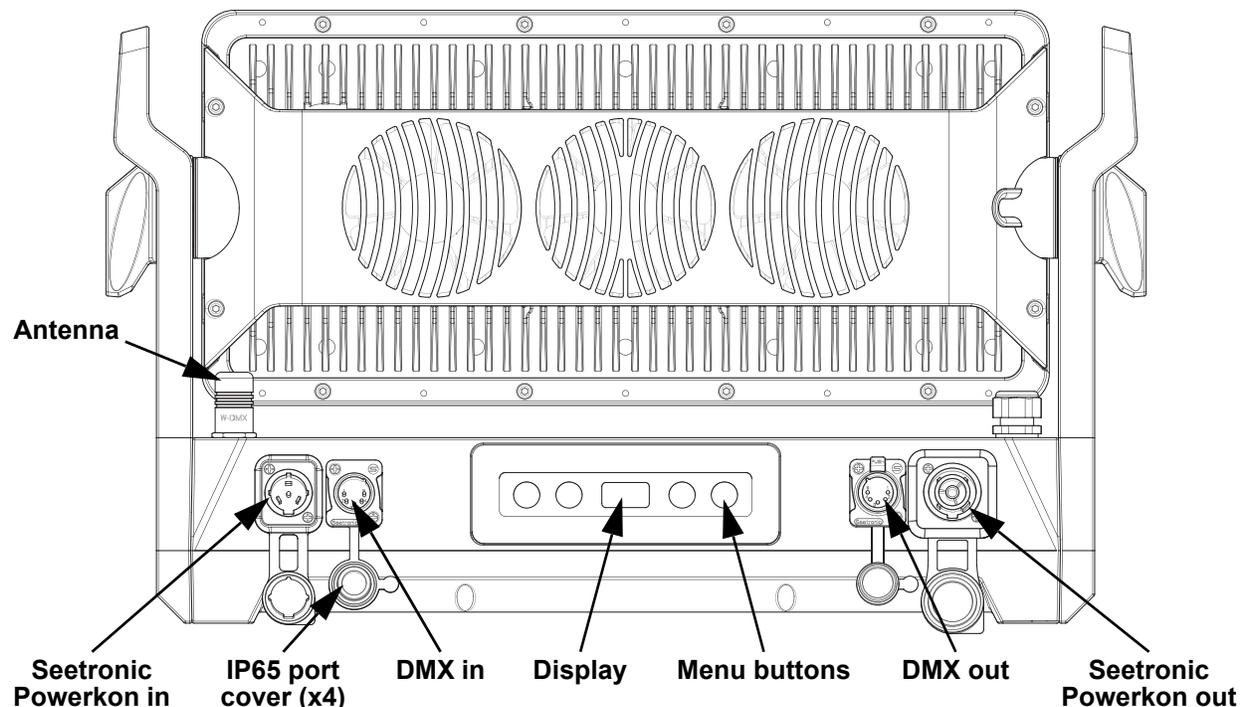
Description

The COLORado Panel Q40 is a rugged wash powered by 40 15 W RGBW LEDs. Advanced optics provide exceptional color mixing. The COLORado Panel Q40 is IP65 rated and features IP rated power and DMX connections.

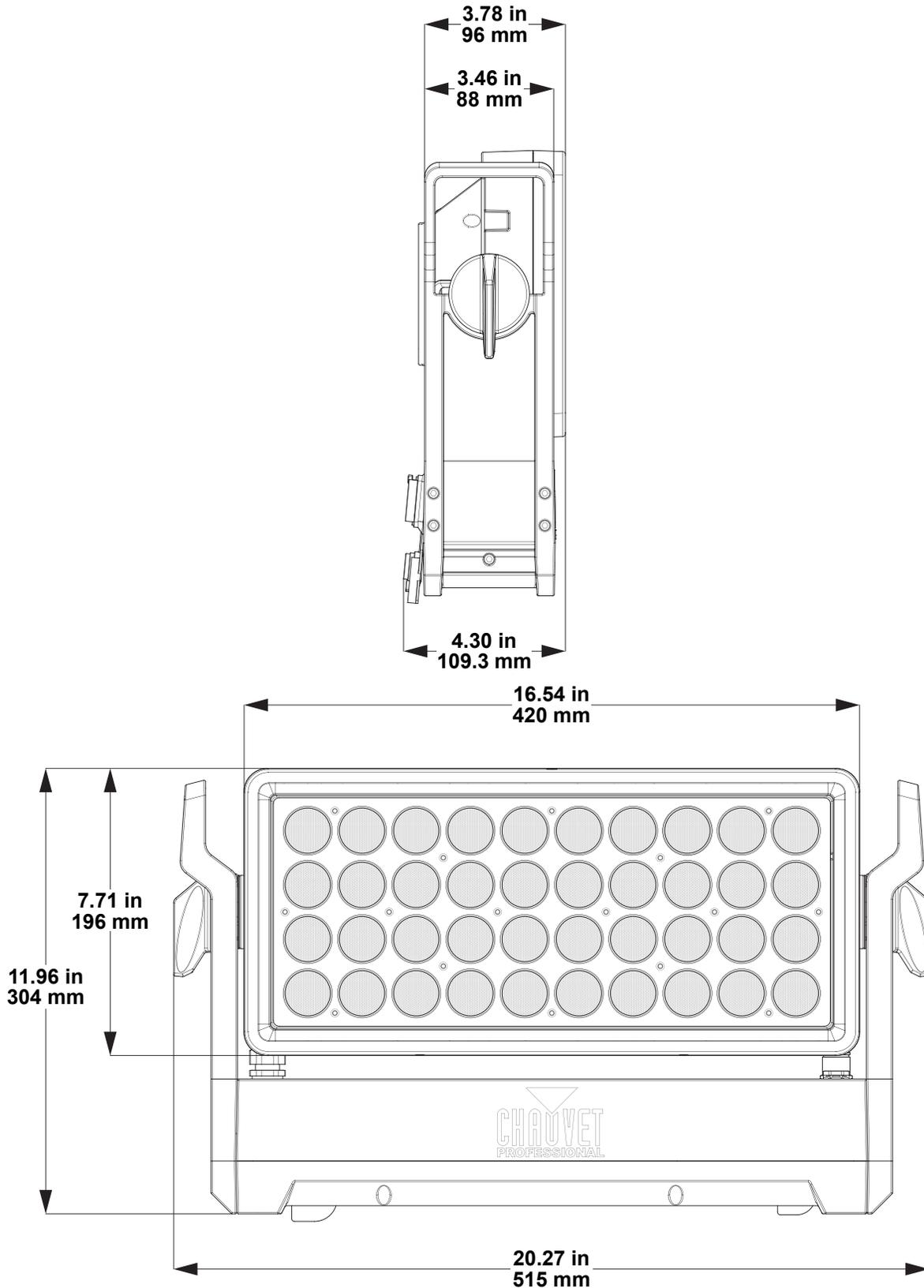
Features

- Rugged RGBW LED wash for events where indoor/outdoor flexibility is needed
- Superior edge-to-edge color mixing
- At home in any weather conditions with IP rated power and DMX connections
- Included magnetic flood filter for wide area wash
- Adjustable PWM (Pulse Width Modulation) to avoid flickering on camera
- WDMX and RDM (Remote Device Management) for added flexibility
- Selectable, smooth dimming curves to eliminate flicker and choppiness in fades
- Easy to read OLED display with password protection and touchscreen interface
- Advanced optics provide exceptional color mixing and high efficiency
- Included omega bracket for quick and easy truss/pipe mounting

Product Overview



Product Dimensions



3. Setup

AC Power

The COLORado Panel Q40 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 Panel Q40 comes with a power input cable terminated with a Seetronic Powerkon A connector on one end and an Edison connector on the other end (U.S. market). Use the table below to wire a 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

It is possible to power link COLORado Panel Q40 products. See the table below for the current draw at each voltage and frequency:

	100 V, 60 Hz	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz	240 V, 50 Hz
Current Draw	5.775 A	4.729 A	2.701 A	2.439 A	2.340 A

Never exceed 12 A on a single circuit. Power-linking cables can be purchased separately.

DMX Linking

It is possible to link the COLORado Panel Q40 to a DMX controller using a 5-pin DMX connection or a WDMX connection. If using other DMX-compatible products with this product, it is possible to control each individually with a single DMX controller.

DMX Personalities

The COLORado Panel Q40 uses a 5-pin DMX data connection for the **4Ch**, **7Ch**, **11Ch**, **16Ch**, and **23Ch** DMX personalities.

- Refer to the [Operation](#) chapter to learn how to configure the COLORado Panel Q40 to work in these personalities.
- The [DMX 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 Panel Q40 supports RDM protocol that allows feedback to make changes to menu map options.

Wireless Operation

In optimal conditions, the COLORado Panel Q40 can operate up to 300 m (900 ft) away from the W-DMX transmitter. The W-DMX receiver in the COLORado Panel Q40 must be paired with the W-DMX transmitter for wireless operation.



Once a WDMX receiver has been linked to a specific WDMX transmitter, it will remain linked to that specific transmitter until it is linked to a different one.

Initial Setup

1. Turn the W-DMX transmitter on.
2. Connect the W-DMX transmitter to a DMX controller.
3. Place the COLORado Panel Q40 within 300 m from the W-DMX transmitter.
4. Disconnect any DMX cable from the COLORado Panel Q40.
5. Turn the COLORado Panel Q40 on.

Configuration

1. From the COLORado Panel Q40 control panel, go to **DMX Address**.
2. Select the start address, as with any other DMX compatible product.
3. Go to **Wireless Setting > Receive On/Off**.
4. Select **On**. (The Signal Strength Indicator will show a ? in front of the bars).
5. Press the reset button on the W-DMX transmitter. (The Signal Strength Indicator on the COLORado Panel Q40 will show a ⚡ in front of the bars for 3 seconds while a connection is established.)

Product Pairing

If the COLORado Panel Q40 has already been paired with the W-DMX transmitter, the Signal Strength Indicator in the middle of the OLED screen will show the strength of the signal. In this case, the COLORado Panel Q40 is ready to work in Wireless mode.

Pairing the COLORado Panel Q40 and a new W-DMX transmitter:

1. From the COLORado Panel Q40 control panel, go to **Wireless Setting > Receive Reset**.
2. Select **Yes**. The Signal Strength Indicator on the COLORado Panel Q40 will show a ? in front of the bars.
3. From the W-DMX transmitter, press **<RESET>** (the Signal Indicator on the transmitter will flash).
4. Once the transmitter has found the COLORado Panel Q40, the Signal indicator on the W-DMX transmitter will illuminate solid.
5. The Signal Strength Indicator in the middle of the OLED screen on the COLORado Panel Q40 will show the strength of the signal.



W-DMX operation can be interrupted or inhibited by liquid masses between the transmitter and receiver such as water, snow, or people. For best results, keep the area between the transmitter and receiver clear of any liquid mass.

Master/Slave Connectivity

The Master/Slave mode allows an COLORado Panel Q40 (the master) to control one or more COLORado Panel Q40 products (the slaves) without a DMX controller. One COLORado Panel Q40 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.

Setup

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

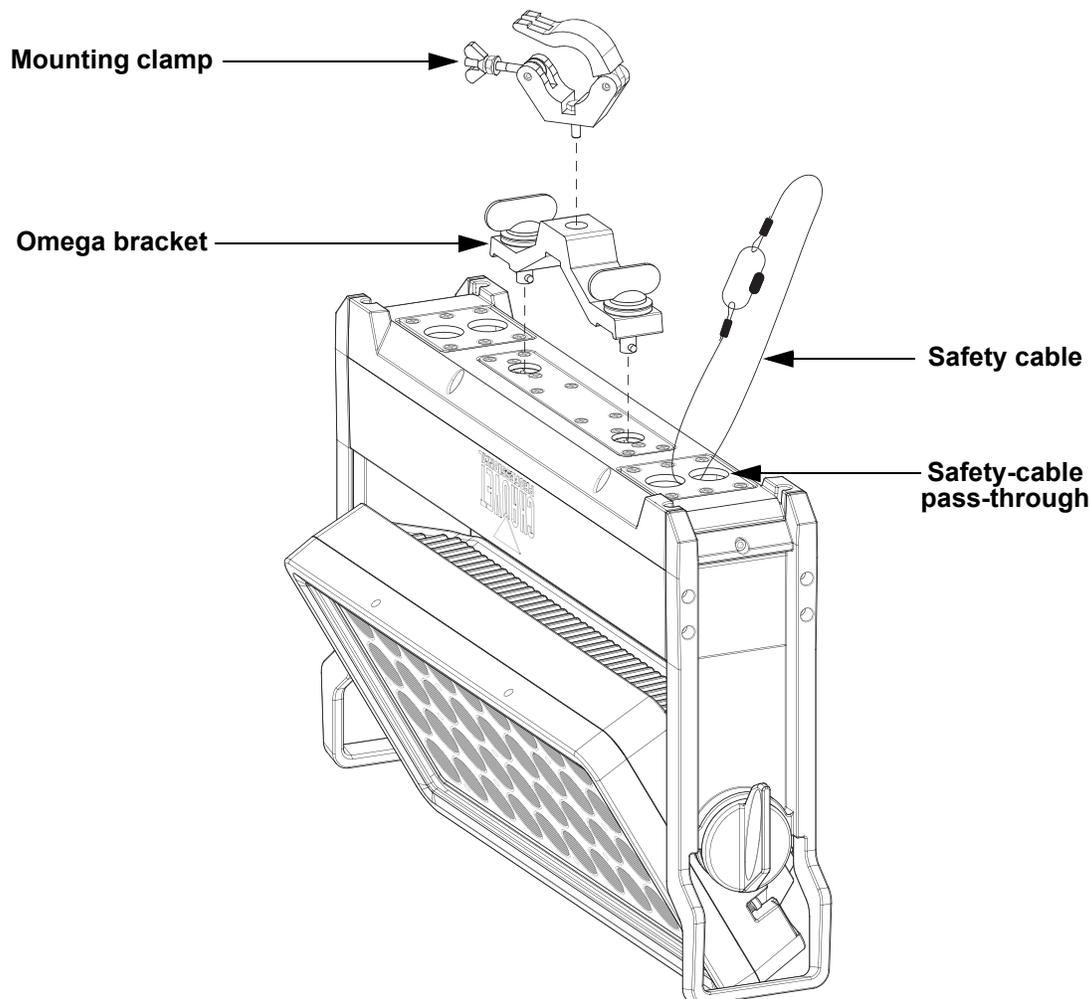
Chauvet recommends using the following general guidelines when mounting this product.

- 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 and attachment points can support the weight before hanging the product. 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 power linking multiple products, mount the products close enough for power linking cables to reach.
- When rigging the product onto a truss, use a mounting clamp of appropriate weight capacity.

Procedure

The COLORado Panel Q40 comes with an omega bracket to which the user can directly attach a mounting clamp (sold separately). Make sure the clamp is capable of supporting the weight of this product. For the Chauvet Professional line of mounting clamps, go to <http://www.trusst.com/products>.

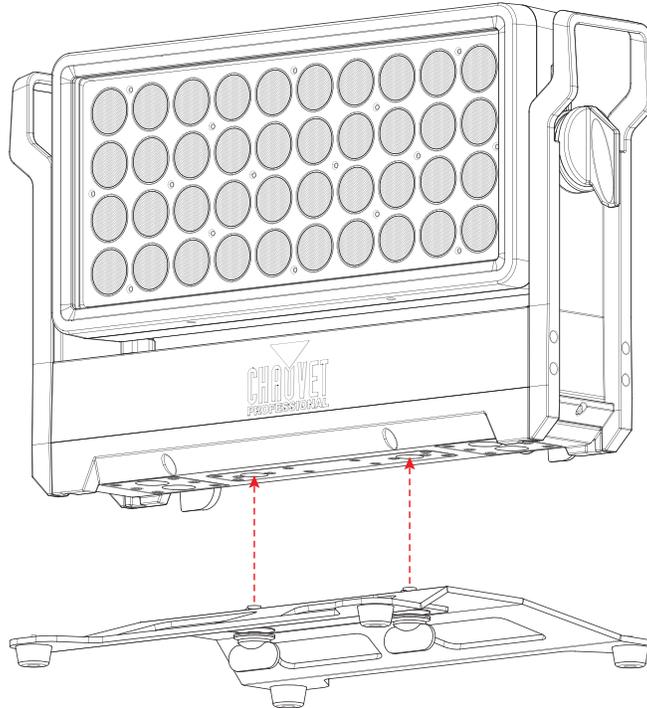
Mounting Diagram



Accessories

Floor Stand

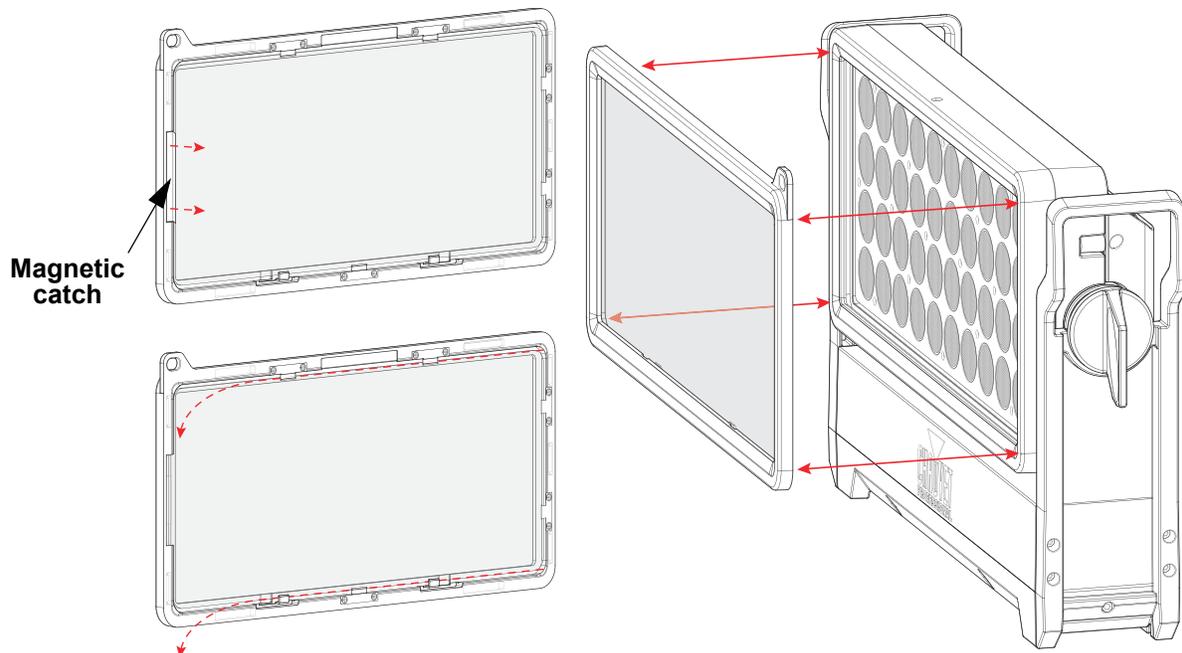
The COLORado Panel Q40 comes with a floor stand which attaches to the bottom of the product in the same way as the omega bracket.



Changing the Filter

The included filter frame attaches magnetically to the front of the product.

To change the filter in the frame, remove the magnetic catch from the back and slide the filter out. Reverse the process with the new filter.



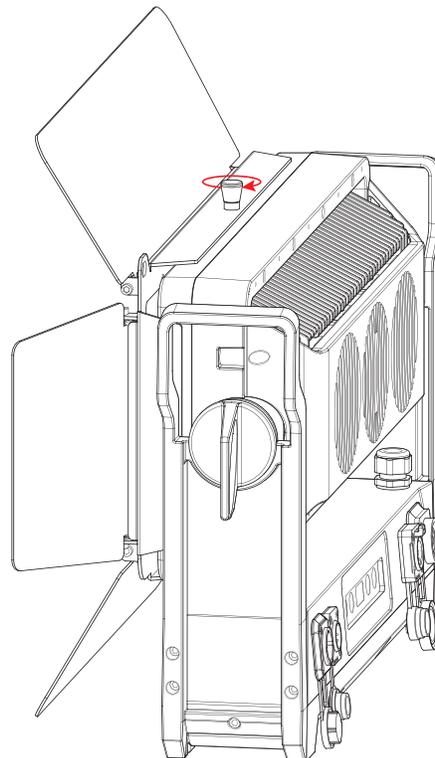
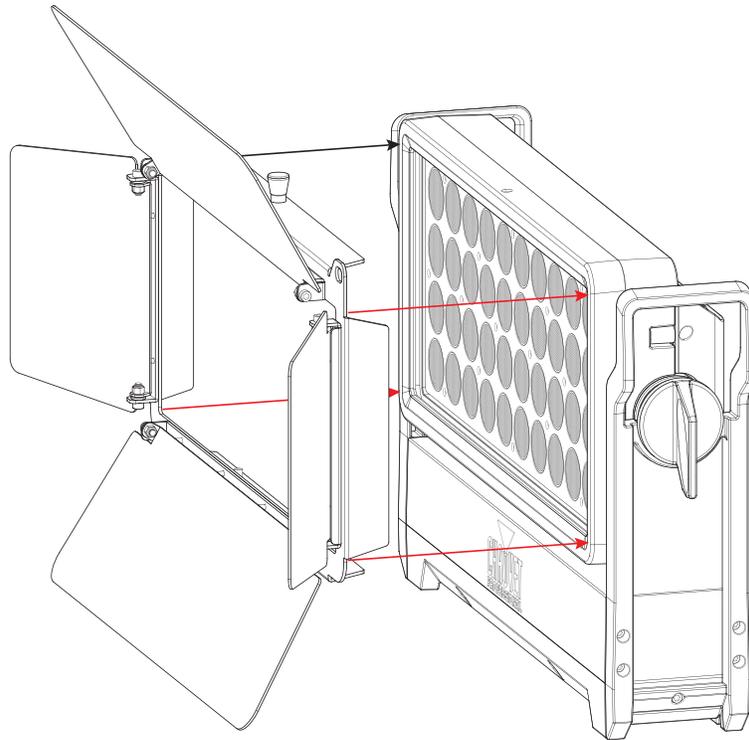
Filter dimensions: 16.75 x 8 in (425.45 x 203.2 mm).

Setup

Installing the Barndoor

To install the optional barndoor (sold separately):

1. Align the frame of the barndoor over the front of the product.
2. Secure in place with the knob at the top of the barndoor.



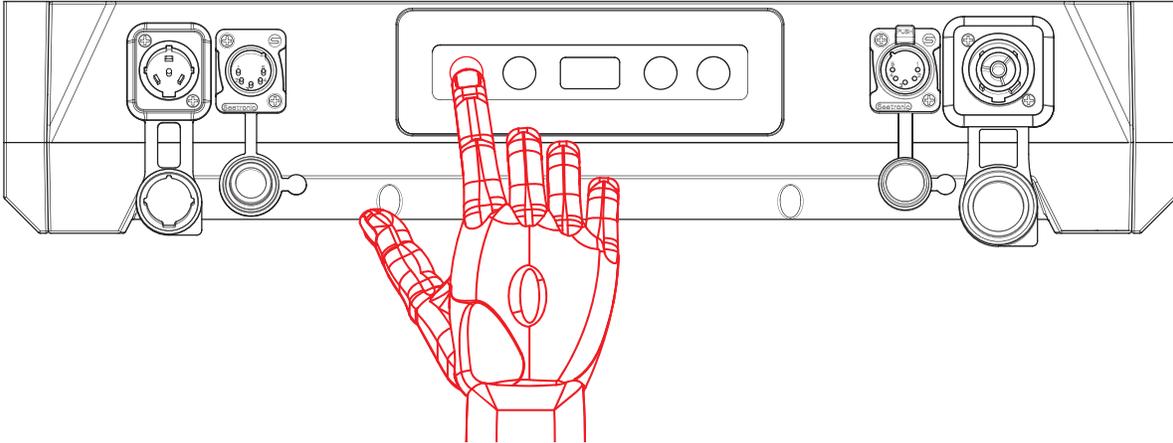
4. Operation

Control Panel Description

Button/Knob	Function
<MENU>	Exits from the current menu or function
<ENTER>	Enables the currently displayed menu or sets the selected value into the function
<UP>	Navigates upwards through the menu list or increases the value when in a function
<DOWN>	Navigates downwards through the menu list or decreases the value when in a function

Battery Powered Display

Press and hold until menu screen appears (approximately 15 seconds).



Control Panel Lock

The setting locks or unlocks the control panel.

1. Go to the **Key Lock** main level.
2. 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

Refer to the COLORado Panel Q40 product page on www.chauvetprofessional.com for the latest menu map.

Main Level	Programming Levels		Description	
DMX Address	<001–509>		Selects DMX address (highest channel restricted to personality chosen)	
DMX Channel	4Ch		4-channel: RGBW	
	7Ch		7-channel: 16-bit dimmer, RGBW, strobe	
	11Ch		11-channel: 16-bit dimmer, RGBW, strobe, color macro, auto program, auto speed, dimmer speed	
	16Ch		16-channel: 4-zone RGBW	
	23Ch		23-channel: 16-bit dimmer, 4-zone RGBW, strobe, color macro, auto program, auto speed, dimmer speed	
Static	Fixed Color	R	Red	
		G	Green	
		B	Blue	
		W	White	
		GB	Green and blue	
		RB	Red and blue	
		RG	Red and green	
		RGB	Red, green, and blue	
		RW	Red and white	
		GW	Green and white	
		BW	Blue and white	
		RGW	Red, green, and white	
		RBW	Red, blue, and white	
		GBW	Green, blue, and white	
	RGBW	Red, green, blue, and white		
	Manual Color Mixer	Red	000–255	Combine red, green, blue, and white to make a custom color
		Green		
Blue				
White				
Color Macro	000–255		See the Color Macro Chart	
Auto Show	Auto 1–11	<001–100>	Automatic programs and program speed	
Master/ Slave Mode	Master		DMX mode (Master)	
	Slave		Slave mode	
Dimmer Mode	Off		Linear dimmer	
	Dimmer 1–3		Dimming curves Dimmer 1 (fast) to Dimmer 3 (slow)	
White Balance	Off		Uses factory default white setting	
	Manual	Red	125–255	Sets red LED maximum value
		Green		Sets green LED maximum value
		Blue		Sets blue LED maximum value
		White		Sets white LED maximum value
	Legacy	On		Matches output to previous COLORado Panel Q40 models
Off				

Main Level	Programming Levels		Description
LED Frequency	600Hz		Sets the PWM frequency
	1200Hz		
	2000Hz		
	4000Hz		
	6000Hz		
	25KHz		
Fan Mode	Auto		Sets the fan to auto mode
	On		Sets the fan to always on
Wireless Setting	Receive On/Off	On	Enables/disables wireless DMX
		Off	
	Receive Reset	No	Resets wireless DMX receiver
		Yes	
Back Light	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
Key Lock	On		Locks display (password is <UP>, <DOWN>, <UP>, <DOWN>, <ENTER>)
	Off		
Information	Fixture Hours	<_ _ _ _ H>	Shows total hours the product has been on
	Version	<V _ . _ >	Shows current firmware version
	UID	<_ _ _ _ _>	Shows product UID
	Battery	<_ _ _ %>	Shows remaining battery power
Reset Factory	No		Resets the product to factory default settings
	Yes		

Configuration (DMX)

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

Control Personalities

To set the control personality:

1. Go to the **DMX Channel** main level.
2. Select the desired personality, from **4Ch**, **7Ch**, **11Ch**, **16Ch**, or **23Ch**.



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

Starting Address

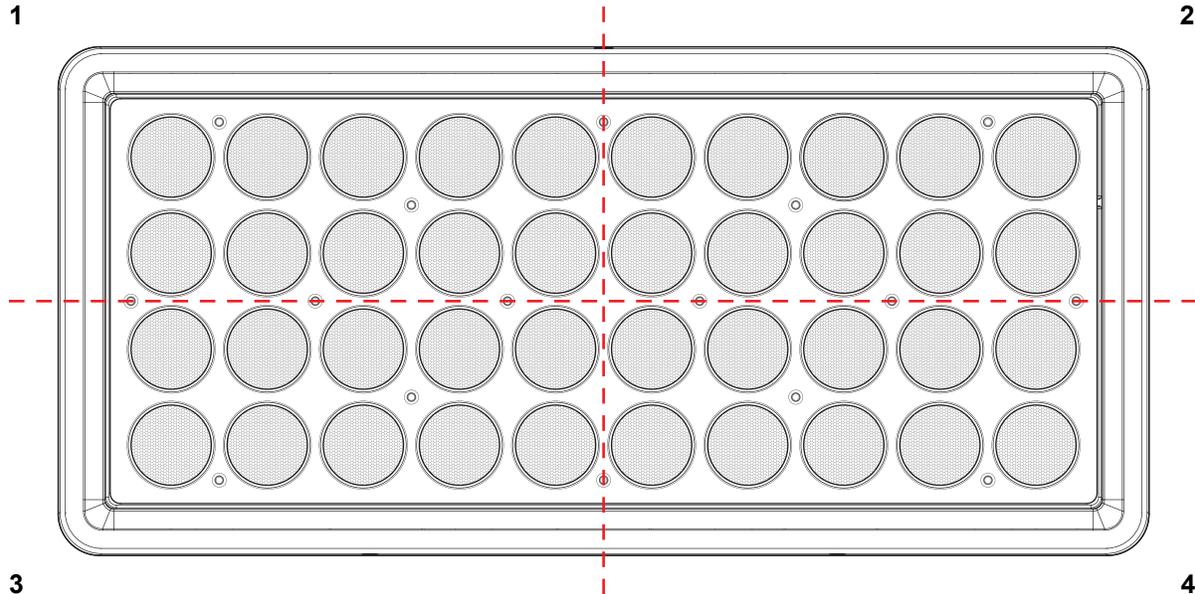
Each product will respond to a unique starting address from the controller. All products with the same starting address will respond in unison. To set the starting address:

1. Go to the **DMX Address** main level.
2. Select the starting address (**001–509**).
 - The highest recommended starting address for **4Ch** is **509**.
 - The highest recommended starting address for **7Ch** is **506**.
 - The highest recommended starting address for **11Ch** is **502**.
 - The highest recommended starting address for **16Ch** is **497**.
 - The highest recommended starting address for **23Ch** is **490**.

Control Channel Assignments and Values

4Ch	7Ch	11Ch	16Ch	26Ch	Function	Value	Percent/Setting
-	1	1	-	1	Dimmer	000 ⇔ 255	0–100%
-	2	2	-	2	Fine dimmer	000 ⇔ 255	0–100%
1	3	3	1	3	Red 1	000 ⇔ 255	0–100%
2	4	4	2	4	Green 1	000 ⇔ 255	0–100%
3	5	5	3	5	Blue 1	000 ⇔ 255	0–100%
4	6	6	4	6	White 1	000 ⇔ 255	0–100%
-	-	-	5	7	Red 2	000 ⇔ 255	0–100%
-	-	-	6	8	Green 2	000 ⇔ 255	0–100%
-	-	-	7	9	Blue 2	000 ⇔ 255	0–100%
-	-	-	8	10	White 2	000 ⇔ 255	0–100%
-	-	-	9	11	Red 3	000 ⇔ 255	0–100%
-	-	-	10	12	Green 3	000 ⇔ 255	0–100%
-	-	-	11	13	Blue 3	000 ⇔ 255	0–100%
-	-	-	12	14	White 3	000 ⇔ 255	0–100%
-	-	-	13	15	Red 4	000 ⇔ 255	0–100%
-	-	-	14	16	Green 4	000 ⇔ 255	0–100%
-	-	-	15	17	Blue 4	000 ⇔ 255	0–100%
-	-	-	16	18	White 4	000 ⇔ 255	0–100%
-	7	7	-	19	Strobe	000 ⇔ 010 011 ⇔ 255	No function Strobe, slow to fast
-	-	8	-	20	Color macro	000 ⇔ 255	See the Color Macro Chart
-	-	9	-	21	Auto programs	000 ⇔ 010 011 ⇔ 032 033 ⇔ 054 055 ⇔ 076 077 ⇔ 098 099 ⇔ 120 121 ⇔ 142 143 ⇔ 164 165 ⇔ 186 187 ⇔ 208 209 ⇔ 230 231 ⇔ 255	No function Auto program 1 Auto program 2 Auto program 3 Auto program 4 Auto program 5 (Auto program 1–4) Auto program 6 Auto program 7 Auto program 8 Auto program 9 Auto program 10 Auto program 11 (Auto program 6–10)
-	-	10	-	22	Auto program speed	000 ⇔ 255	Auto speed, slow to fast
-	-	11	-	23	Dimmer speed mode	000 ⇔ 051 052 ⇔ 101 102 ⇔ 152 153 ⇔ 203 204 ⇔ 255	Preset dimmer speed from display menu Dimmer speed mode off Dimmer speed mode 1 (fastest) Dimmer speed mode 2 Dimmer speed mode 3 (slowest)

Zones for DMX Control



Color Macro Chart

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

Operation

Configuration (Standalone)

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

Static Mode

The Static mode allows for permanent dimmer and strobe presets without a DMX controller.

1. Go to the **Static** main level.
 2. Select **Fixed Color**, **Manual Color Mixer**, or **Color Macro**.
 3. For **Fixed Color**:
 - Select the desired fixed color (**R, G, B, W, GB, RB, RG, RGB, RW, GW, BW, RGW, RBW, GBW, or RGBW**).
- For **Manual Color Mixer**:
- a. Select the desired color (**Red, Green, Blue, or White**).
 - b. Set the desired value for the selected color (**000–255**).
 - c. Repeat steps a-b until the static color is set as desired.
- For **Color Macro**:
- Set the desired value for the setting (**000–255**). See the [Color Macro Chart](#) for more details.

Auto Programs

Auto programs allow for dynamic blinder effects without a DMX controller.

1. Go to the **Auto Show** main level.
2. Select the desired auto (**Auto 1–11**).
3. Select the desired speed (**1–100**).



The auto programs cannot be edited.

Configuration (Settings)

Master/Slave

The Master/Slave mode allows a group of COLORado Panel Q40 products (the slaves) to simultaneously duplicate the output of another COLORado Panel Q40 (the master) without a DMX controller.

To set each of the slaves:

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

To set the master:

1. Go to the **Master/Slave Mode** main level
2. Select **Master**.
3. Select a standalone 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 Speed

This setting determines how fast the output of the COLORado Panel Q40 changes when the output value is modified. It provides four different options to simulate the dimming curve of an incandescent lighting product. To select a specific dimmer profile, do the following:

1. Go to the **Dimmer Mode** main level.
2. Select a dimmer curve (**Off, Dimmer 1, Dimmer 2, or Dimmer 3**).



Off: The output is proportional (linear) to the dimmer channel value.
Dimmer 1–3: The output follows the dimmer value based on the corresponding dimmer curve, **Dimmer 1** being the fastest.

White Balance

This setting controls the maximum values for each LED color.

1. Go to the **White Balance** main level.
2. Select **Off** (uses factory default white setting), **Manual** (sets a custom white balance), or **Legacy** (matches the output to previous COLORado Panel Q40 models).
3. For **Manual**:
 - a. Select a color to edit (**Red, Green, Blue, or White**).
 - b. Set the maximum value of the selected color (**125–255**).
 - c. Repeat steps a-b until the white balance is set as desired.

For **Legacy**, select from **On** (legacy mode active) or **Off** (legacy mode inactive).

LED Frequency

This option changes the Pulse Width Modulation (PWM) frequency of the LEDs on the COLORado Panel Q40.

1. Go to the **LED Frequency** main level.
2. Select PWM Frequency (**600Hz, 1200Hz, 2000Hz, 4000Hz, 6000Hz, or 25Khz**).

Fan Mode

This option sets the fan to run automatically when needed or to always run.

1. Go to the **Fan Mode** main level.
2. Select **Auto** (fan runs when needed) or **On** (fan always runs).

Back Light

This setting allows for selection of the amount of time the backlight on the COLORado Panel Q40's display stays on after the last button is pressed on the control panel.

1. Go to the **Back Light** main level.
2. 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, Version, UID, or Battery**.

Factory Reset

This option restores the COLORado Panel Q40 to factory default settings.

1. Go to the **Reset Factory** main level.
2. 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 all 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.



Do not spin the cooling fans with compressed air. Damage may result.

6. Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
20.27 in (515 mm)	7.71 in (196 mm)	11.96 in (304 mm)	28.2 lb (12.8 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	100 V, 60 Hz	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz	240 V, 50 Hz
Consumption	570 W	566 W	559 W	560 W	563 W
Operating current	5.775 A	4.729 A	2.701 A	2.439 A	2.340 A
Maximum output current	13.6 A				

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 cable plug	Edison (U.S.)	Local Plug

Light Source

Type	Color	Quantity	Power	Current	Lifespan
LED	Quad-color RGBW	40	15 W	970 mA	50,000 hours

Photometrics

Color Temperature Range	Illuminance @ 5 m (without filter)	Illuminance @ 5 m (with filter)
2800 to 10000 K	8,437 lux	2,590 lux

Installed Optics	Beam Angle (without filter)	Beam Angle (with filter)	Field Angle (without filter)	Field Angle (with filter)
15°	20.4°	24.6°	33.8°	50.4°

Thermal

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

DMX

I/O Connector	Channel Range
5-pin XLR, WDMX	4, 7, 11, 16 or 23

Ordering

Product Name	Item Name	Item Code	UPC Number
COLORado Panel Q40	COLORADOPANELQ40	03031471	781462218195



Contact Us

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Warranty & Returns

For warranty terms and conditions and return information, please visit our website.

For customers in the United States and Mexico: www.chauvetlighting.com/warranty-registration.

For customers in the United Kingdom, Republic of Ireland, Belgium, the Netherlands, Luxembourg, France, and Germany: www.chauvetlighting.eu/warranty-registration.