OVATION
E-2 FC
User Manual

CHAUVET
PROFESSIONAL

Edition Notes

The Ovation E-2 FC User Manual includes a description, safety precautions, installation, programming, operation and maintenance instructions for the Ovation E-2 FC 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.

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Document Revision

This Ovation E-2 FC 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

- Ovation E-2 FC
- Seetronic Powerkon power cable
- Ovation metal gobo holder ("M" size)
- Soft focus filter
- 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.

📝 **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.

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 should be positioned so that prolonged staring into the luminaire at a distance closer than 18.4 ft (5.6 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.
- The luminaire is intended for professional use only.
- **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.
    - 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.
    - Operate this product outdoors or in any location where dust, excessive heat, water, or humidity may affect it. (IP20)
- ONLY use the hanging/mounting bracket 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.**

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 Ovation E-2 FC is a compact LED ellipsoidal spotlight that delivers high quality of light and convenient features in a quiet durable design optimized for smaller venues. Its advanced full spectrum Ovation RGBA-Lime color mixing system produces exceptionally high CRI output that can be smoothly sized with an integrated manual Zoom and focusing made easier with a dedicated Focus Mode button.

Features

- Full-spectrum LED ERS-style lighting fixture for small theaters and studios
- Integrated 25-50deg Zoom lens.
- Color temperature presets from 2800 K to 8000 K with high CRI and CQS
- +/- Green adjustment and emulated red-shift via DMX or on-board control
- Dedicated focus mode button for one-touch activation for focusing without a board-op.
- USB port for fixture software updates

Product Overview

Menu buttons

LCD display

Safety loop

DMX in/out

USB C port

Power in

Fuse holder

Power out

Framing shutters (x4)

Manual zoom and focus knobs

Product Dimensions

14.96 in
380 mm

17.5 in
445 mm

6.24 in
158.5 mm

12.2 in
310 mm

7.4 in
188 mm

18.1 in
461 mm
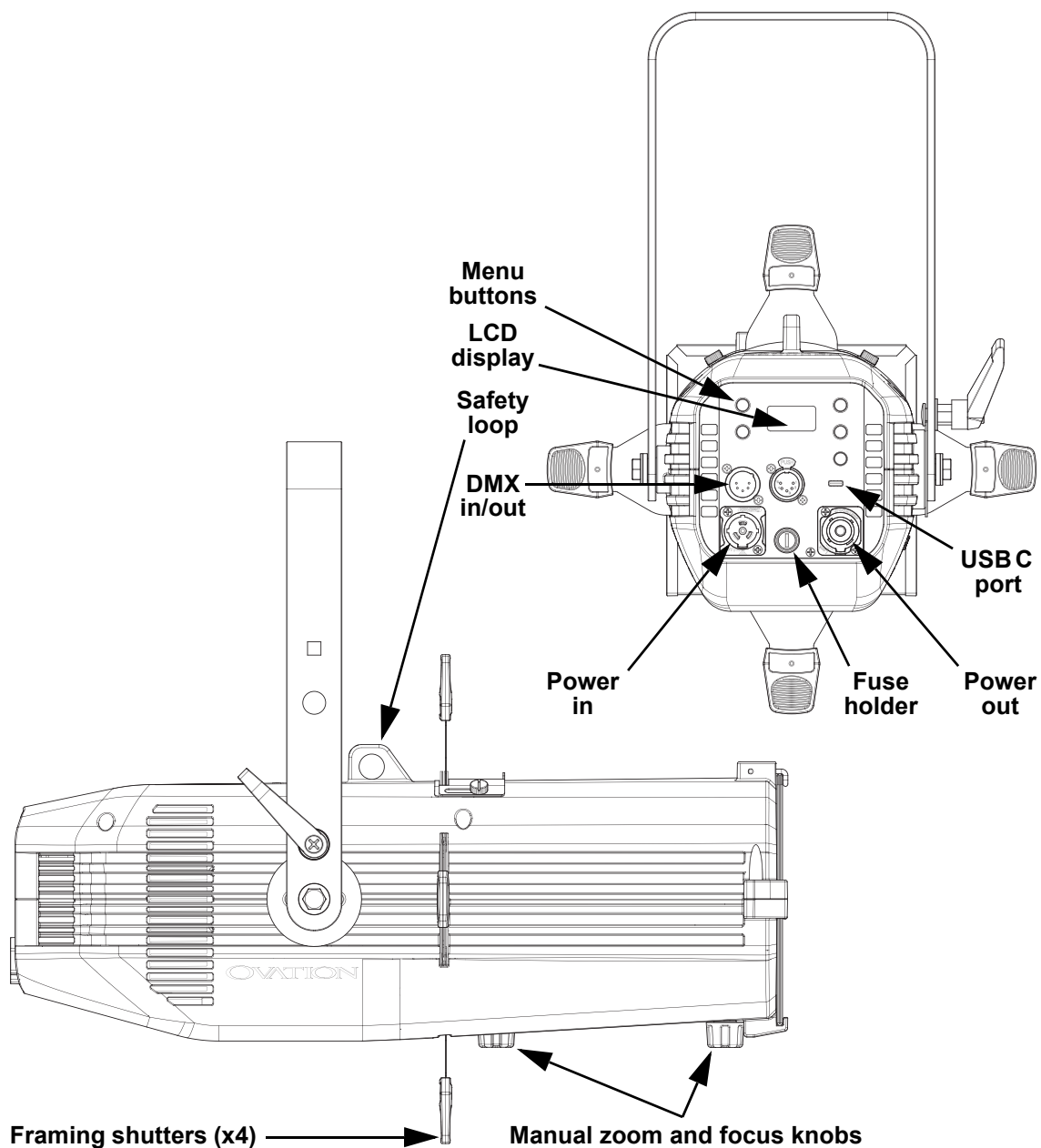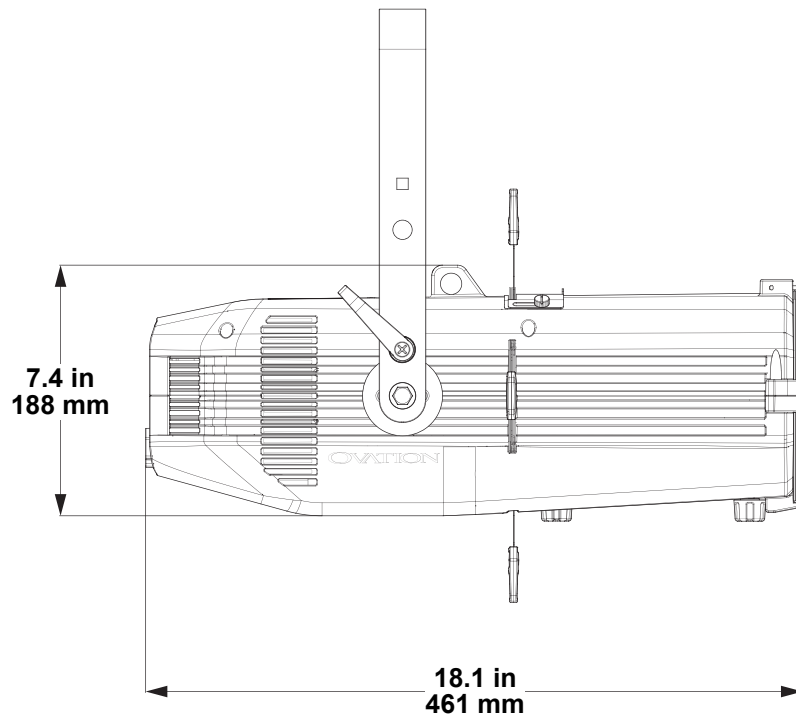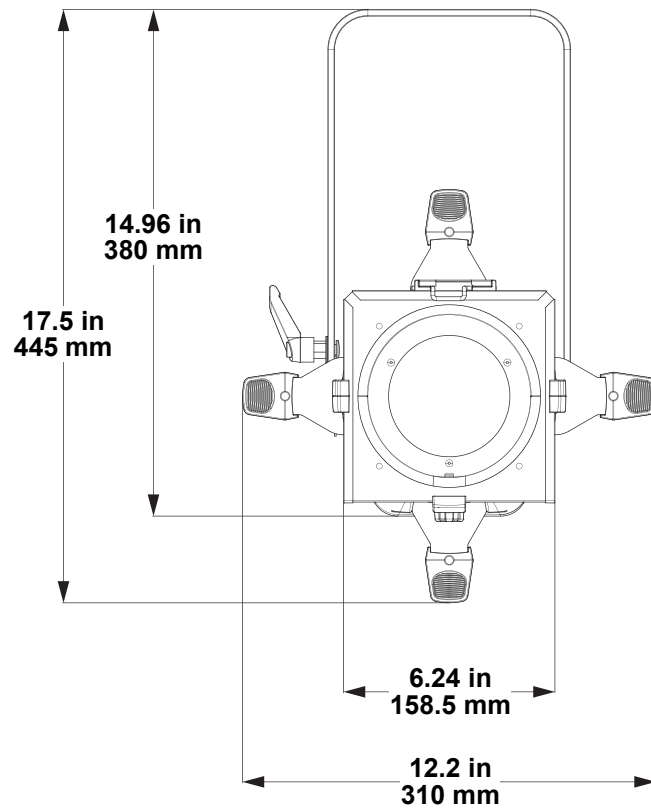
3. Setup

AC Power

The Ovation E-2 FC 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). Ensure 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 Ovation E-2 FC comes with a power input cable terminated with a Seetronic Powerkon A connector on one end and an Edison plug on the other end (U.S. market). If the power cable which came with the product has no plug, or if the plug needs to be changed, 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

Fuse Replacement

1. Disconnect this product from the power outlet.
2. Using a flat-head screwdriver, unscrew the fuse holder cap from the housing.
3. Remove the blown fuse and replace with another fuse of the same type and rating (T 3.15 A, 250 V).
4. Screw the fuse holder cap back in place and reconnect power.

Power Linking

The product supports power linking. It is possible to link up to 6 Ovation E-2 FC products at 100 V, 7 products at 120 V, 10 products at 208 V, or 12 products at 230/240 V. This product comes with a power input cord. Power-linking cables are available for purchase from Chauvet.

DMX Linking

The Ovation E-2 FC can be linked to a DMX controller using a 5-pin DMX connection. If using other DMX-compatible products with this product, it's possible to control each individually with a single DMX controller.

DMX Personalities

The Ovation E-2 FC uses a 5-pin DMX data connection for the **1 Ch, 4 Ch**, **5 Ch**, **7 Ch**, **11 Ch**, **13 Ch1**, **13 Ch2**, **17 Ch**, and **HSV** DMX personalities.

- Refer to the Introduction for a brief description of each DMX personality.
- Refer to the Operation chapter to learn how to configure the Ovation E-2 FC to work in these personalities.
- The DMX Channel Assignments and Values section provides detailed information regarding the DMX personalities.

For 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 Ovation E-2 FC supports RDM protocol that allows feedback to make changes to menu map options.

Master/Slave Connectivity

The Master/Slave mode allows an Ovation E-2 FC (the master) to control one or more Ovation E-2 FC products (the slaves) without a DMX controller. Once Ovation E-2 FC becomes the master when running an auto or custom program, or in Static mode.

Each slave's control panel must be configured 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.**
> • **For 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.**

USB Software Update

The Ovation E-2 FC allows for software update through USB using the built-in USB port. To update the software using a USB flash drive, do the following:

1. Power on the product and plug the flash drive into the USB port.
2. Once the flash drive has been detected, the message "Upgrade Firmware" will be displayed. Press <**ENTER**>. If a different message appears on the display, search for the updated software in the menu (**Updated Firmware**) and select from **Only This Fixture**, **Multiple Fixture**, or **Other Fixture Type**.. A list of the updated software files will be displayed.
3. Select the file that needs to be uploaded. The message "Are you sure?" will be displayed. Press <**ENTER**>.
4. If the selected file is correct, the update will be completed. Restart the product.
   If the selected file is incorrect, the update will fail, and the display will go back to the main interface. Repeat steps 1–3 using the correct file.

> **The "Other Fixture Type" option can only be selected for connected products compatible with the Upload 03 (the first 2 digits of the item code must be 03).**

> **The product's USB port supports up to 32GB capacity and only works with FAT32 file format.**

Soft Focus Filter

The Ovation E-2 FC comes with a soft focus filter. To keep the soft focus filter in good condition:

• Ensure that no fingerprints are left on the filter, as this may cause the filter to heat unevenly and eventually warp.
• When placing the filter in the holder, follow the orientation direction printed on the filter.
• When inserting shutter blades into the light path, note that the heat is reflected back at the filter. The deeper the blades are inserted, and the longer the fixture runs, the more heat gets reflected on to the filter, causing it to warp and potentially adhere to the shutter blades.

> **If there is a protective film on the soft-focus filter, it must be removed before use. The filter is in a holder in the metal gobo slot.**

Manual Zoom Control

The Ovation E-2 FC has a manual zoom and focus, which is adjusted as follows:

1. Locate the zoom and focus knobs at the bottom of the product.
2. Loosen the knobs by turning them counterclockwise.
3. Slide the lenses forward or backward until the desired zoom and focus/beam edge is achieved.
4. Tighten the knobs by turning them clockwise, which locks the lenses in position.

> **To avoid changing menu settings while focusing the Ovation E-2 FC, press and hold the <FOCUS MODE> button for 3 seconds. This will put the product in Focus Mode, by increasing the intensity to 100%. To exit out of Focus Mode, press <MENU>.**

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 the product is being mounted 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 Ovation E-2 FC comes with an adjustable yoke to which a mounting clamp can be attached for hanging. 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
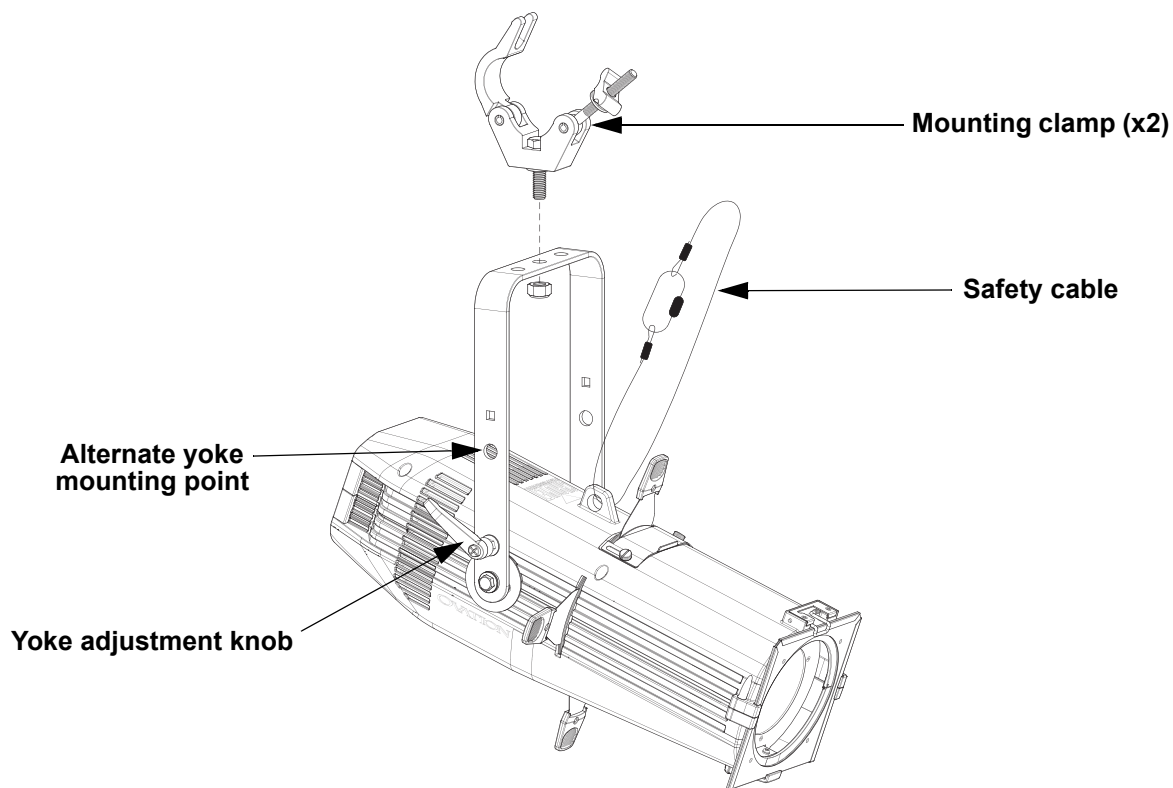
Adjustable Yoke

The Ovation E-2 FC comes with an adjustable yoke for mounting in low-clearance areas. To modify the height of the yoke, do the following:

1. Loosen the yoke adjustment knob.
2. On each side of the product remove the bolt attaching the plate to the yoke.
3. Adjust the position of the yoke to one of the two mounting points.
4. Put the bolts back in place, and tighten them and the yoke adjustment knobs.

Accessory Slot

The Ovation E-2 FC has an accessory slot which holds the included "M" size metal gobo holder, the included soft focus filter, a drop-in iris, or various other optional accessories (sold separately).

1. Loosen the thumbscrews on the slot cover. (**Note**: Do not remove the thumbscrews).
2. Slide the cover forward.
3. Insert an accessory. (**Note**: Make sure to insert the accessory correctly. i.e., the iris handle extends upward from the slot.
4. Slide the cover back. Make sure any handles or adjustment tools that stick out the top are able to function correctly.
5. Tighten the thumbscrews to secure the cover.

Accessory slot thumbscrews
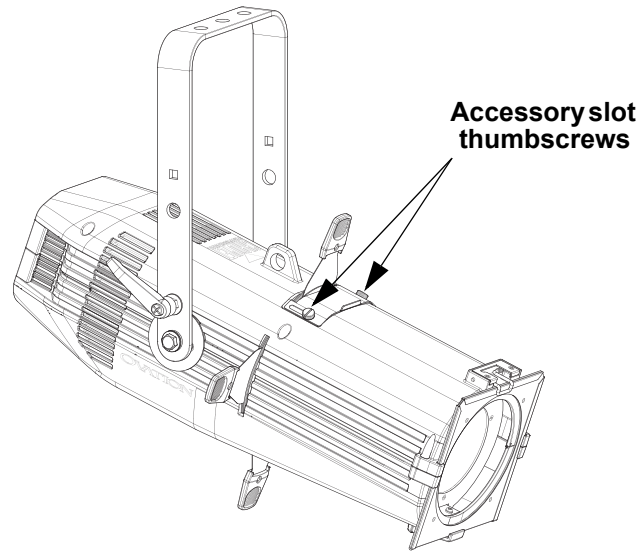
- **When not using the accessory slot, replace and secure the slot cover to prevent light leakage during operation.**
- **When obtaining any optional accessories, be sure the items are compatible with the Ovation E-2 FC.**

Gobo Dimensions

66 mm

48 mm

OUTSIDE

IMAGE
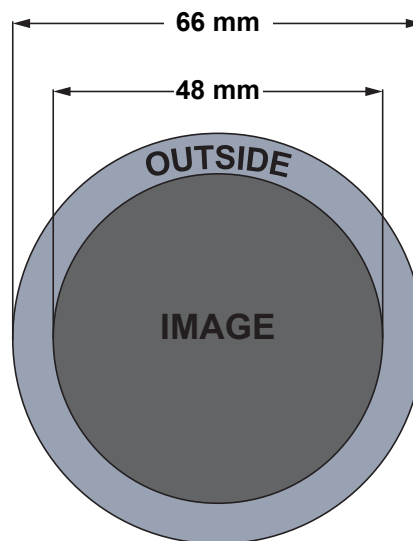
4. Operation

Control Panel Description

Button	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
\<FOCUS MODE\>	Activates focus mode

Menu Map

Refer to the Ovation E-2 FC product page on www.chauvetprofessional.com for the latest menu map.

Main Level	Programming Levels			Description
DMX Address	**001–512***			Selects DMX address (*highest channel restricted to personality chosen)
DMX Channel	**1 Ch**	**Virtual Color Wheel**		1-channel: dimmer
		Color Temperature		
		Manual Color Mixer		
	4 Ch			4-channel: dimmer, virtual color wheel, color temperature, hue
	5 Ch			5-channel: RGBAL
	7 Ch			7-channel: dimmer, RGBAL, strobe
	11 Ch			11-channel: 16-bit dimmer, RGBAL, strobe, virtual color wheel, color temperature, hue
	13 Ch1			13-channel: dimmer, RGBAL, strobe, virtual color wheel, color temperature, hue, auto program, auto speed, control
	13 Ch2			13-channel: 16-bit dimmer, 16-bit RGBAL, strobe
	17 Ch			17-channel: 16-bit dimmer, 16-bit RGBAL, strobe, virtual color wheel, color temperature, hue, control
	HSV			3-channel: hue, saturation, value
Virtual Color Wheel	**Virtual Color Wheel**	**C3050 - Md Yellow**	**Dimmer 0–255**	Virtual Color Wheel simulates the output of each gel color. Refer to the Virtual Color Wheel Chart for specific values.
		C3040 - Lt Yellow		
		C3240 - Amb Yellow		
		C2340 - VLt Amber		
		C2040 - Lt Amber		
		C2050 - Md Amber		
		C2060 - Dk Amber		
		C1050 - Lt Red		
		C1080 - Md Red		
		C1020 - NC Pink		
		C1030 - Md Pink		
		C1630 - Dk Pink		
		C1250 - Md Red Amber		
		C1060 - Dk Red Amber		
		C1650 - Magenta		
		C6170 - Dk Magenta		
		C6020 - Lt Lavender		
		C5030 - Lt Blue		

Main Level	Programming Levels		Description
Virtual Color Wheel (cont.)	C5020 - VLt Blue	**Dimmer 0–255**	Virtual Color Wheel simulates the output of each gel color. Refer to the Virtual Color Wheel Chart for specific values.
	C5430 - Lt Blue 2		
	C5070 - Blue		
	C5050 - Md Blue		
	C5060 - Dk Blue		
	C5690 - Indigo		
	C5080 - VDk Blue		
	C5081 - VDk Blue 2		
	C4370 - Yel Green		
	C4070 - Green		
	C4550 - Turquoise		
	C4560 - Aqua		
	C4570 - Blue Green		
Virtual Color Wheel (cont.)	2800K	**Dimmer 0–255** **Hue -25–25**	Preset white color temperatures. Emulates a tungsten lamp at the specified color temperature. Refer to the Color Temperature Chart for specific values.
	2900K		
	3000K		
	3100K		
	3200K		
	3300K		
	3400K		
	3500K		
	3600K		
	3700K		
	3800K		
	3900K		
	4000K		
	4100K		
	4200K		
	4300K		
	Color Temperature	4400K	
	4500K		
	4600K		
	4700K		
	4800K		
	4900K		
	5000K		
	5100K		
	5200K		
	5300K		
	5400K		
	5500K		
	5600K		
	5700K		
	6000K		
	6500K		
	7000K		
	7500K		
	8000K		

Main Level	Programming Levels			Description
Virtual Color Wheel (cont.)	**Manual Color Mixer**	Red	0–255	Combines red, green, blue, amber, and lime to make a custom color (0–100%)
		Green		
		Blue		
		Amber		
		Lime		
Auto Show	**Auto 1–5**		**Speed 1–100**	Selects automatic programs and auto program speed
Red Shift	On			Mimics halogen lamp dimming
	Off			
Master/ Slave	**Master**			Receives DMX signal from the DMX controller (master)
	Slave			Receives DMX signal from the master unit
Dimmer Curve	**SCurve**			Sets the dimmer curve
	Linear			
	Square			
	Inverse Square			
Dimmer Mode	Off			Linear dimmer
	Dimmer 1–3			Dimming curves, from fast (**Dimmer 1**) to slow (**Dimmer 3**)
Color Calibration	Off			Uses factory default white setting
	User Calibration	Red	125–255	Sets red LED maximum value
		Green		Sets green LED maximum value
		Blue		Sets blue LED maximum value
		Amber		Sets amber LED maximum value
		Lime		Sets lime LED maximum value
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
	Off			Sets the fan to always off
	Silent			Sets the fan to silent
Back Light	**10S**			Turns off display backlight after 10 seconds
	30S			Turns off display backlight after 30 seconds
	2Min			Turns off display backlight after 2 minutes
	Always On			Display backlight remains on
Information	**Fixture Hours**		_ _ _ _H	Shows total hours the product has been powered on
	LED Hours		_ _ _ _H	Shows total hours the LEDs have been powered on
	Version		V_._	Shows current firmware version
	UID		_ _ _ _ _ _ _ _ _ _ _ _	Shows product UID

Main Level	Programming Levels		Description
Upgrade Firmware	**Only This Fixture**	_ _ _ _ _ _.CHL	Selects an update file for this product, or shows "**No such file!**"
		...	
	Multiple Fixture	_ _ _ _ _ _.CHL	Selects an update file for this and connected Ovation Rêve E-3 products, or shows "**No such file!**"
		...	
	Other Fixture Type	_ _ _ _ _ _.CHL	Selects an update file for other connected products, or shows "**No such file!**"
		...	
Factory Reset	**No**		Resets settings to factory default
	Yes		

⚠ **When operating in Fan Mode: Off and Fan Mode: Silent, the fixture will become hotter to the touch than when using other fan modes. Use proper protective equipment to prevent burns. Keep a safe distance from flammable objects.**

ⓘ **When operating in Fan Mode: Off and Fan Mode: Silent, output of the fixture will be reduced and will not reach the same levels as when using other fan modes.**

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 **1 Ch, 4 Ch**, **5 Ch**, **7 Ch**, **11 Ch**, **13 Ch1**, **13 Ch2**, **17 Ch**, or **HSV**.

📝
- 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**–**512**).

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

Personality	Address
1 Ch	**512**
4 Ch	**509**
5 Ch	**508**
7 Ch	**506**
11 Ch	**502**
13 Ch1	**500**
13 Ch2	**500**
17 Ch	**496**
HSV	**510**

Virtual Color Wheel

The Ovation E-2 FC includes a feature called the Virtual Color Wheel (VCW). This feature is available as a standalone control mode for manual use and as a control channel in select DMX personalities. More than 30 premixed colors, custom blended by Chauvet engineers, are available to call up for easier programming.

The DMX values used to mix these colors are provided below. The overall intensity of the Ovation fixture can be adjusted to more closely replicate familiar industry-standard colors. A chart is available at www.chauvetprofessional.com to compare Chauvet's premixed colors with popular gel colors. This chart is for comparison purposes only and is not an assertion that Chauvet's premixed colors match any of the gel colors listed.

Virtual Color Wheel Chart

DMX Value	Display Readout	Red	Green	Blue	Amber	Lime
000 ⇔ 005	--	--	--	--	--	--
006 ⇔ 013	**C3050 - Md Yellow**	255	225	000	255	037
014 ⇔ 021	**C3040 - Lt Yellow**	255	177	003	255	037
022 ⇔ 028	**C3240 - Amb Yellow**	255	220	000	255	000
029 ⇔ 035	**C2340 - VLt Amber**	195	000	015	255	057
036 ⇔ 043	**C2040 - Lt Amber**	255	000	011	255	061
044 ⇔ 051	**C2050 - Md Amber**	255	053	000	255	017
052 ⇔ 059	**C2060 - Dk Amber**	255	008	000	255	017
060 ⇔ 067	**C1050 - Lt Red**	255	000	003	014	000
068 ⇔ 075	**C1080 - Md Red**	255	000	002	000	000
076 ⇔ 083	**C1020 - NC Pink**	255	075	062	255	073
084 ⇔ 091	**C1030 - Md Pink**	255	075	057	255	041
092 ⇔ 099	**C1630 - Dk Pink**	218	077	057	255	061
100 ⇔ 107	**C1250 - Md Red Amber**	255	000	009	168	000
108 ⇔ 115	**C1060 - Dk Red Amber**	255	005	009	036	000
116 ⇔ 121	**C1650 - Magenta**	255	003	062	255	012
122 ⇔ 130	**C6170 - Dk Magenta**	255	000	055	000	000
131 ⇔ 138	**C6020 - Lt Lavender**	255	220	093	255	044
139 ⇔ 146	**C5030 - Lt Blue**	000	255	159	112	078
147 ⇔ 154	**C5020 - VLt Blue**	000	215	145	196	065
155 ⇔ 162	**C5430 - Lt Blue2**	000	215	132	52	092
163 ⇔ 170	**C5070 - Blue**	000	195	188	000	019
171 ⇔ 178	**C5050 - Md Blue**	000	163	190	000	068
179 ⇔ 186	**C5060 - Dk Blue**	000	128	193	000	038
187 ⇔ 194	**C5690 - Indigo**	053	009	255	000	000
195 ⇔ 202	**C5080 - VDk Blue**	007	084	116	000	000
203 ⇔ 210	**C5081 - VDk Blue2**	011	082	139	000	000
211 ⇔ 218	**C4370 - Yel Green**	000	255	002	025	000
219 ⇔ 226	**C4070 - Green**	000	255	009	000	175
227 ⇔ 234	**C4550 - Turquoise**	000	255	087	096	255
235 ⇔ 242	**C4560 - Aqua**	000	255	098	044	255
243 ⇔ 250	**C4570 - Blue Green**	000	255	026	008	000
251 ⇔ 255	--	--	--	--	--	--

The colors above are simulated renditions of the color output produced compared with other similar incandescent products. Chauvet makes no guarantee of the color output accuracy.

Color Temperature Chart

DMX Value	Color Temperature	Red	Green	Blue	Amber	Lime
000 ⇔ 005	**No function**					
006	**2800K**	253	000	025	255	145
007 ⇔ 012	**2801–2899K**					
013	**2900K**	253	003	028	255	153
014 ⇔ 019	**2901–2999K**					
020	**3000K**	251	005	033	255	161
021 ⇔ 026	**3001–3099K**					
027	**3100K**	248	007	036	255	169
028 ⇔ 033	**3101–3199K**					
034	**3200K**	245	009	045	255	173
035 ⇔ 040	**3201–3299K**					
041	**3300K**	242	013	047	255	182
042 ⇔ 047	**3301–3399K**					
048	**3400K**	237	022	053	255	185
049 ⇔ 054	**3401–3499K**					
055	**3500K**	230	030	058	255	185
056 ⇔ 061	**3501–3599K**					
062	**3600K**	225	040	064	255	185
063 ⇔ 068	**3601–3699K**					
069	**3700K**	221	048	070	255	185
070 ⇔ 075	**3701–3799K**					
076	**3800K**	220	048	074	255	197
077 ⇔ 082	**3801–3899K**					
083	**3900K**	220	050	079	255	203
084 ⇔ 089	**3901–3999K**					
090	**4000K**	210	058	084	255	203
091 ⇔ 096	**4001–4099K**					
097	**4100K**	205	063	088	255	203
098 ⇔ 103	**4101–4199K**					
104	**4200K**	199	068	095	255	204
105 ⇔ 110	**4201–4299K**					
111	**4300K**	189	069	098	255	204
112 ⇔ 117	**4301–4399K**					
118	**4400K**	183	071	103	255	204
119 ⇔ 124	**4401–4499K**					
125	**4500K**	174	078	107	255	204
126 ⇔ 131	**4501–4599K**					
132	**4600K**	170	080	112	255	204
133 ⇔ 138	**4601–4699K**					
139	**4700K**	166	089	119	255	204
140 ⇔ 145	**4701–4799K**					
146	**4800K**	164	098	123	255	203
147 ⇔ 152	**4801–4899K**					
153	**4900K**	163	100	129	255	205
154 ⇔ 159	**4901–4999K**					
160	**5000K**	163	103	137	255	206

DMX Value	Color Temperature	Red	Green	Blue	Amber	Lime
161 ⇔ 166	**5001–5099K**					
167	**5100K**	163	108	142	255	208
168 ⇔ 173	**5101–5199K**					
174	**5200K**	163	116	147	255	208
175 ⇔ 180	**5201–5299K**					
181	**5300K**	163	118	156	255	210
182 ⇔ 187	**5301–5399K**					
188	**5400K**	162	122	162	255	216
189 ⇔ 194	**5401–5499K**					
195	**5500K**	162	124	166	255	224
196 ⇔ 201	**5501–5599K**					
202	**5600K**	162	127	172	255	229
203 ⇔ 208	**5601–5699K**					
209	**5700K**	159	127	177	255	231
210 ⇔ 215	**5701–5999**					
216	**6000K**	158	134	192	241	231
217 ⇔ 222	**6001–6499K**					
223	**6500K**	152	152	206	225	231
224 ⇔ 229	**6501–6999K**					
230	**7000K**	144	157	224	218	231
231 ⇔ 236	**7001–7499K**					
237	**7500K**	127	172	238	218	231
238 ⇔ 243	**7501–7999K**					
244 ⇔ 255	**8000K**	122	175	255	200	231

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

DMX Channel Assignments and Values

17 Ch / 13 Ch2 / 13 Ch1 / 11 Ch / 7 Ch / 5 Ch / 4 Ch

4	5	7	11	13-1	13-2	17	Function	Value	Percent/Setting
1	–	1	1	1	1	1	Dimmer	000 ⇔ 255	0–100%
–	–	–	2	–	2	2	Dimmer fine	000 ⇔ 255	0–100%
–	1	2	3	2	3	3	Red	000 ⇔ 255	0–100%
–	–	–	–	–	4	4	Red fine	000 ⇔ 255	0–100%
–	2	3	4	3	5	5	Green	000 ⇔ 255	0–100%
–	–	–	–	–	6	6	Green fine	000 ⇔ 255	0–100%
–	3	4	5	4	7	7	Blue	000 ⇔ 255	0–100%
–	–	–	–	–	8	8	Blue fine	000 ⇔ 255	0–100%
–	4	5	6	5	9	9	Amber	000 ⇔ 255	0–100%
–	–	–	–	–	10	10	Amber fine	000 ⇔ 255	0–100%
–	5	6	7	6	11	11	Lime	000 ⇔ 255	0–100%
–	–	–	–	–	12	12	Lime fine	000 ⇔ 255	0–100%
–	–	7	8	7	13	13	Strobe	000 ⇔ 010 011 ⇔ 255	No function Strobe, slow to fast
2	–	–	9	8	–	14	Virtual color wheel	000 ⇔ 255	See Virtual Color Wheel Chart

4	5	7	11	13-1	13-2	17	Function	Value	Percent/Setting
3	–	–	10	9	–	15	Color temperature	000 ⇔ 255	See Color Temperature Chart
4	–	–	11	10	–	16	Hue	000	0
								001 ⇔ 255	-25–25
–	–	–	–	11	–	–	Auto programs	000 ⇔ 010	No function
								011 ⇔ 060	Auto program 1
								061 ⇔ 110	Auto program 2
								111 ⇔ 160	Auto program 3
								161 ⇔ 210	Auto program 4
								211 ⇔ 255	Auto program 5
–	–	–	–	12	–	–	Auto speed	000 ⇔ 255	Auto speed, slow to fast
–	–	–	–	13	–	17	Control (hold for 3 seconds)	000 ⇔ 007	No function
								008 ⇔ 015	Dimmer reset
								016 ⇔ 023	Red shift on
								024 ⇔ 031	Red shift off
								032 ⇔ 039	S-curve dimmer
								040 ⇔ 047	Linear dimmer
								048 ⇔ 055	Square dimmer curve
								056 ⇔ 063	Inverse square dimmer curve
								064 ⇔ 071	Dimmer speed mode: OFF
								072 ⇔ 079	Dimmer speed 1 (fastest)
								080 ⇔ 087	Dimmer speed 2
								088 ⇔ 095	Dimmer speed 3 (slowest)
								096 ⇔ 103	Fan auto
								104 ⇔ 111	Fan on
								112 ⇔ 119	Fan off
								120 ⇔ 127	Fan silent
								128 ⇔ 255	Reserved for future use

HSV

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100%
2	Saturation	000 ⇔ 255	0–100%
3	Value	000 ⇔ 255	0–100%

1 Ch

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100% (color set through display menu)

Configuration (Standalone)

Static Mode
The static mode options under **Virtual Color Wheel** also include preset color temperatures and a manual color mixer.

Virtual Color Wheel
To select from the Virtual Color Wheel:
1. Go to the **Virtual Color Wheel** main level.
2. Select the **Virtual Color Wheel** option.
3. Select the desired virtual gel color (see the <u>Virtual Color Wheel Chart</u>).
4. Set the **Dimmer** value (**0–255**).

Color Temperature
To select a preset color temperature:
1. Go to the **Virtual Color Wheel** main level.
2. Select the **Color Temperature** option.
3. Select the desired color temperature (see the <u>Color Temperature Chart</u>).
4. Set the **Dimmer** value (**0–255**).
5. If desired, set the **Hue** value (**-25–25**).

Manual Color Mixer
To manually mix a custom static color:
1. Go to the **Virtual Color Wheel** main level.
2. Select **Manual Color Mixer**.
3. Select the color to edit (**Red**, **Green**, **Blue**, **Amber**, or **Lime**).
4. Set the value for the selected color (**0–255**).
5. Repeat steps 3 and 4 until product outputs as desired.

Auto Show
To select an automatic program:
1. Go to the **Auto Show** main level.
2. Select the desired auto program (**Auto 1–5**).
3. Set the **Speed** value (**1–100**).

Configuration (Settings)

Red Shift
The Red Shift function imitates the dimming of a halogen lamp. To toggle Red Shift:
1. Go to the **Red Shift** main level.
2. Select **On** or **Off**.

Master/Slave
The Master/Slave mode allows a group of Ovation E-2 FC products (the slaves) to simultaneously duplicate the output of another Ovation E-2 FC (the master) without a DMX controller.
To set each of the slaves:
1. Go to the **Master/Slave** main level
2. Select **Slave**.
To set the master:
1. Go to the **Master/Slave** main level
2. Select **Master**.
3. Select a 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 Curve
To set the dimmer curve:
1. Go to the **Dimmer Curve** main level.
2. Select the desired option (**SCurve**, **Linear**, **Square**, or **Inverse Square**).

Dimmer Profile

This setting determines how fast the output of the Ovation E-2 FC 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.

Color Calibration

This setting determines the maximum output values for each color, which affects the appearance of the total color output.

1. Go to the **Color Calibration** main level.
2. Select **Off** (LED values will be linear/uncalibrated), **User Calibration**, or **Factory Calibration**.
3. For **User Calibration** mode, select the color value to edit (**Red**, **Green**, **Blue**, **Amber**, or **Lime Green**).
4. Set the maximum value for the selected color (**125–255**).
5. Repeat steps 3 and 4 until the product outputs as desired.

Pulse Width Modulation

To set the Pulse Width Modulation (PWM) frequency of the LEDs on the Ovation E-2 FC:

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

Fan Mode

To set the fan speed mode:

1. Go to the **Fan Speed** main level.
2. Select **Auto** (fan speed will increase or decrease based on product temperature), **Off** (fan will stay off. Product output will decrease based on product temperature), **Silent** (fan will maintain a constant silent speed), or **On** (fan speed will always be at maximum).

> **When operating in Fan Mode: Off and Fan Mode: Silent, the fixture will become hotter to the touch than when using other fan modes. Use proper protective equipment to prevent burns. Keep a safe distance from flammable objects.**

> **When operating in Fan Mode: Off and Fan Mode: Silent, output of the fixture will be reduced and will not reach the same levels as when using other fan modes.**

Display Backlight Timer

To set the amount of time the backlight on the Ovation E-2 FC's display stays on after the last button is pressed on the control panel:

1. Go to the **Back Light** main level.
2. Select **10S** (10 seconds), **30S** (30 seconds), **2Min** (2 minutes), or **Always On** (remains on).

Information

To view essential product information:

1. Go to the **Information** main level.
2. Select **Fixture Hours**, **LED Hours**, **Version**, or **UID**.

Factory Reset

To reset the product to factory settings:

1. Go to the **Factory Reset** main level.
2. Select **No** (to cancel) or **Yes** (to reset the product configuration).

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 each lighting product 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
18.1 in (461 mm)	12.2 in (310 mm)	17.5 in (445 mm)	14.8 lb (6.7 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	177 W	208 W	219 W	220 W	220 W
Operating Current	1.88 A	1.71 A	1.10 A	0.98 A	0.95 A
Power Linking Current (products)	12 A (6 products)	12 A (7 products)	12 A (10 products)	12 A (12 products)	12 A (12 products)
Fuse/Breaker	T 3.15 A, 250 V	T 3.15 A, 250 V	T 3.15 A, 250 V	T 3.15 A, 250 V	T 3.15 A, 250 V

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	Local plug

Light Source

Type	Color	Quantity	Power	Current	Lifespan
LED	Red	15	6 to 9.75 W	1.5 A	50,000 hours
	Green	11			
	Blue	6			
	Cyan	4			
	Amber	14			
	Lime	22			

Photometrics

Zoom Level	Beam Angle	Field Angle	Cutoff Angle	Illuminance @ 5 m
Spot	23.8°	25.6°	24.9°	1107 lux
50%	38.7°	41.3°	41.9°	595 lux
Flood	46.4°	51°	51.8°	488 lux

Zoom Range (Beam Angle to Cutoff Angle): 23.8° to 51.8°

Thermal

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

Control

DMX I/O Connector	Channel Range
5-pin XLR	1, 4, 5, 7, 11, 13ch1, 13ch2, 17 or HSV

Ordering

Product Name	Item Name	Item Code	UPC Number
Ovation E-2 FC	OVATIONE2FC	03121951	781462222994

RoHS

DMX RDM

MET ® US
UL 1573
CSA C22.2 No. 166
E113093

FC UKCA CE

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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.