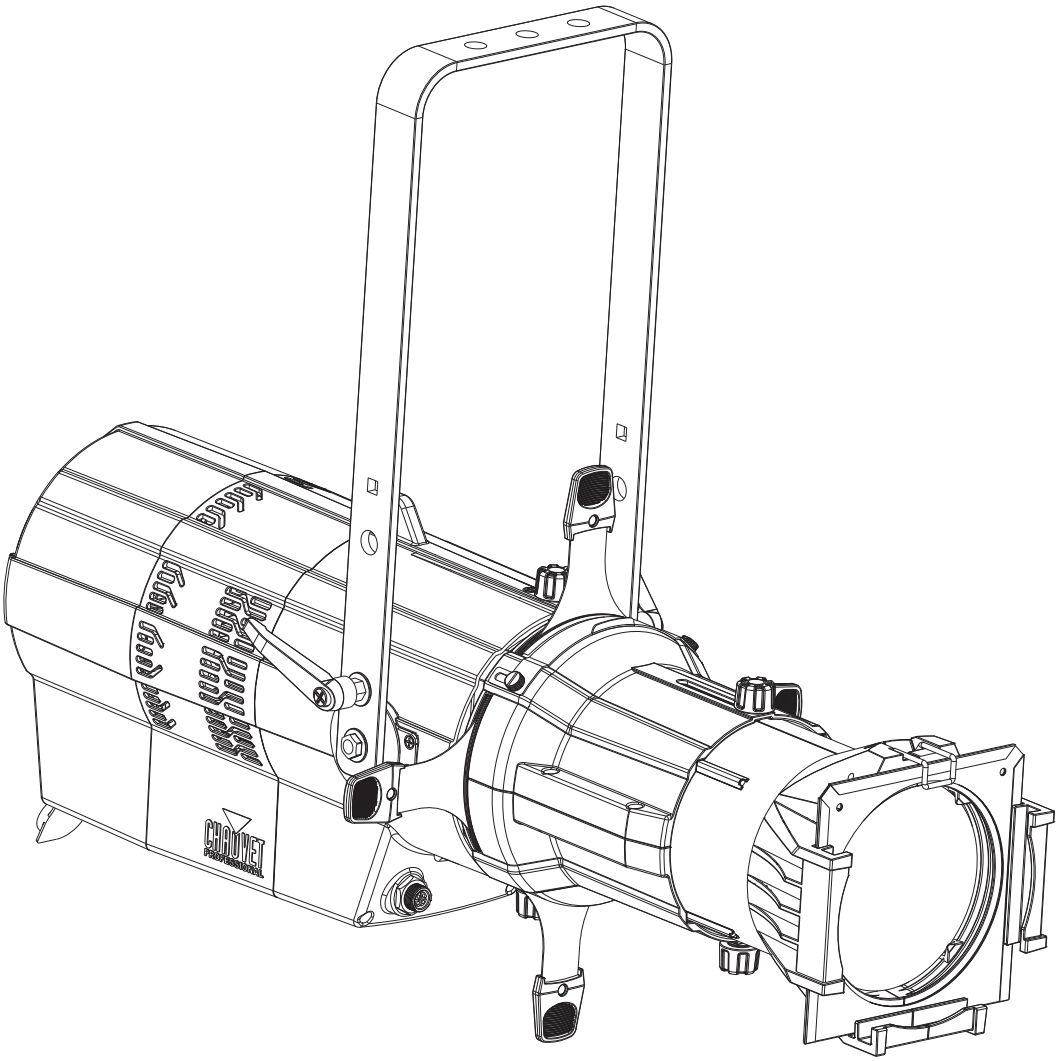
OVATION
E-910FC IP

User Manual



CHAUVET PROFESSIONAL

Edition Notes

The Ovation E-910FC IP User Manual includes a description, safety precautions, installation, programming, operation and maintenance instructions for the Ovation E-910FC IP.

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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-910FC IP User Manual is the 7th 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-910FC IP
- Seetronic Powerkon IP65 Power Cord
- 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.

Manual Conventions

Convention	Meaning
1–512	A range of values
50/60	A set of values of which only one can be chosen
<SET>	A button on the product's control panel
Settings	A product function or a menu option

Symbols

Symbol	Meaning
	Electrical warning. Not following these instructions may cause electrical damage to the product, accessories, or the user.
	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.

Safety Notes

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

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

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

Personal Safety

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

Mounting and Rigging

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

Power and Wiring

- Always ensure that the product is connected to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- Never connect the product to a dimmer pack or rheostat.
- Never disconnect this product by pulling or tugging on the power cable.

Operation

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

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

Expected LED Lifespan

LEDs gradually decline in brightness over time, primarily because of heat. LEDs that are arranged in clusters experience higher operating temperatures than single LEDs. For this reason, operating clustered LEDs at their fullest intensity significantly reduces the LEDs' lifespan. Under normal conditions, this lifespan is 40,000 to 50,000 hours. If extending this lifespan is vital, lower the operating temperature by improving the ventilation around the product, thus reducing the ambient temperature. In addition, limiting the overall projection intensity may extend the LEDs' lifespan.

2. Introduction

Description

The Ovation E-910FC IP takes the high-performance, full RGBA-Lime color-mixing LED engine of the Ovation E-910FC outdoors. Chauvet's standard shutter assembly and lenses lend familiarity and ease of use to this IP65 ERS-style fixture that offers color temperature presets of 2800 to 6500 K that match the output of a tungsten source to perfection. Control options include full bit dimming (per color and master), selectable PWM, RDM, and on-board dimming curves selection. Also accessible is Chauvet's virtual color wheel that matches popular color gels.

Features

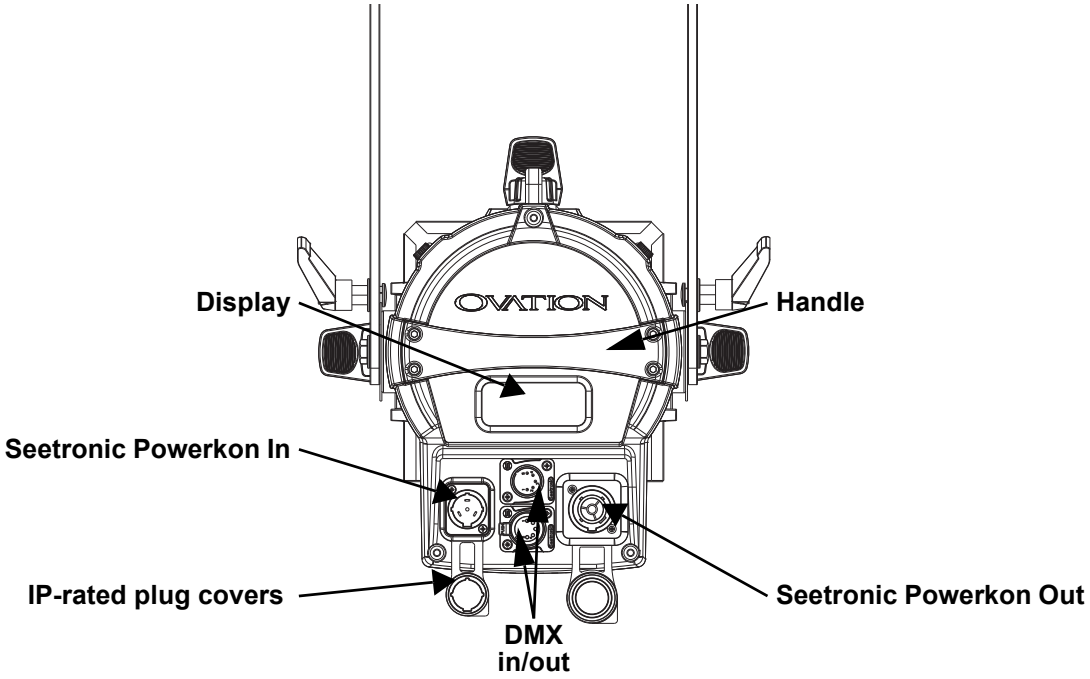
- Operating modes:
  - HSV: hue, saturation, value, gobo rotation
  - 1-channel: dimmer
  - 4-channel: dimmer, virtual color wheel, color temperature, gobo rotation
  - 6-channel: RGBAL control, gobo rotation
  - 8-channel: dimmer, RGBAL control, strobe, gobo rotation
  - 11-channel: 16-bit dimmer, RGBAL control, strobe, virtual color wheel, color temperature, gobo rotation
  - 13-channel: dimmer, RGBAL control, strobe, virtual color wheel, color temperature, auto programs, auto speed, dimmer speed mode, gobo rotation, red shift
  - 14-channel: 16-bit RGBAL and dimmer, strobe, gobo rotation
  - 17-channel: 16-bit RGBAL and dimmer, strobe, virtual color wheel, color temperature, gobo rotation, red shift
- Full-color LED (RGBAL) ERS-style lighting fixture for theatre, film, and production
- Fully IP65-rated for seasonal use indoors or out
- Use of our standard Ovation beam shaping shutters and lenses lends familiarity and ease of use to the fixture
- Virtual color wheel with color matched to popular gel colors
- Color temperature presets from 2800 K to 6500 K with high CRI and CQS
- Ultra-smooth 16-bit dimming and 8-bit dimming curves to complement any lighting scheme.
- Flat, even field of light for superior gobo projection
- RDM (Remote Device Management) for added flexibility
- Adjustable PWM (Pulse Width Modulation) to avoid flickering on camera

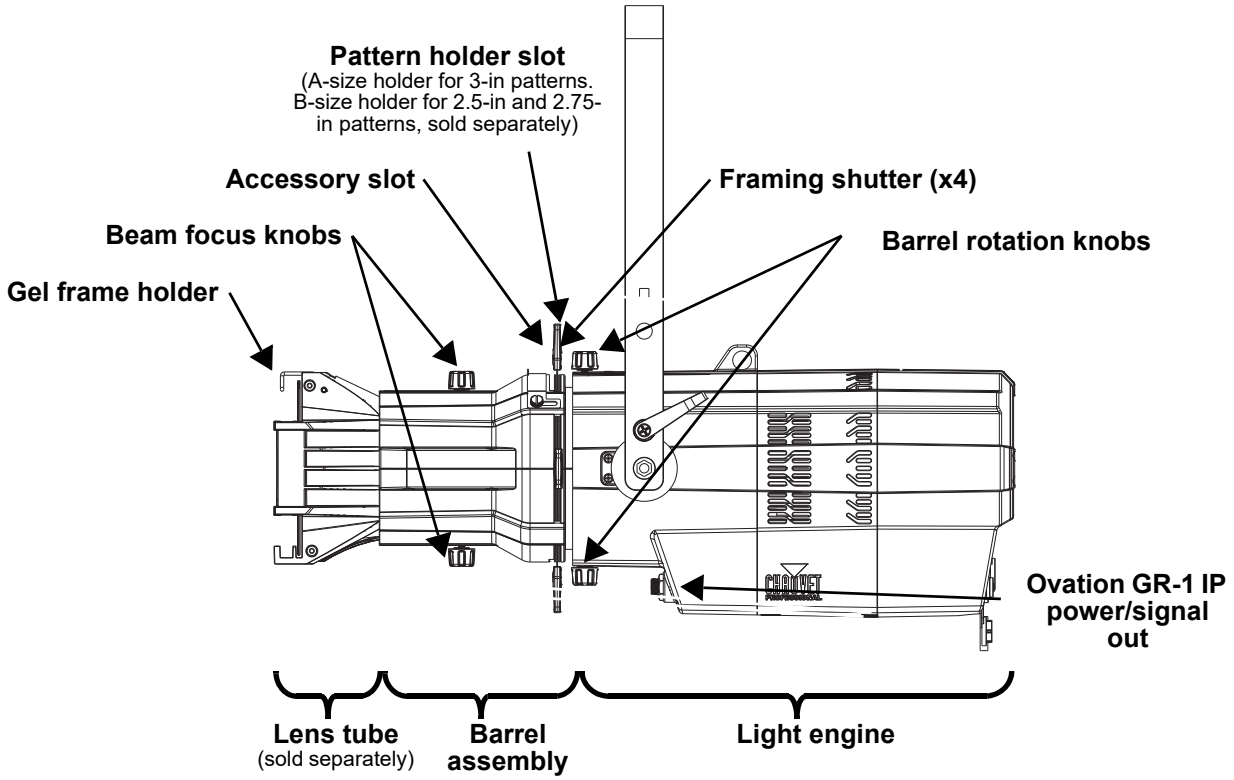
Lens Tube

The following lens tubes are available for purchase:

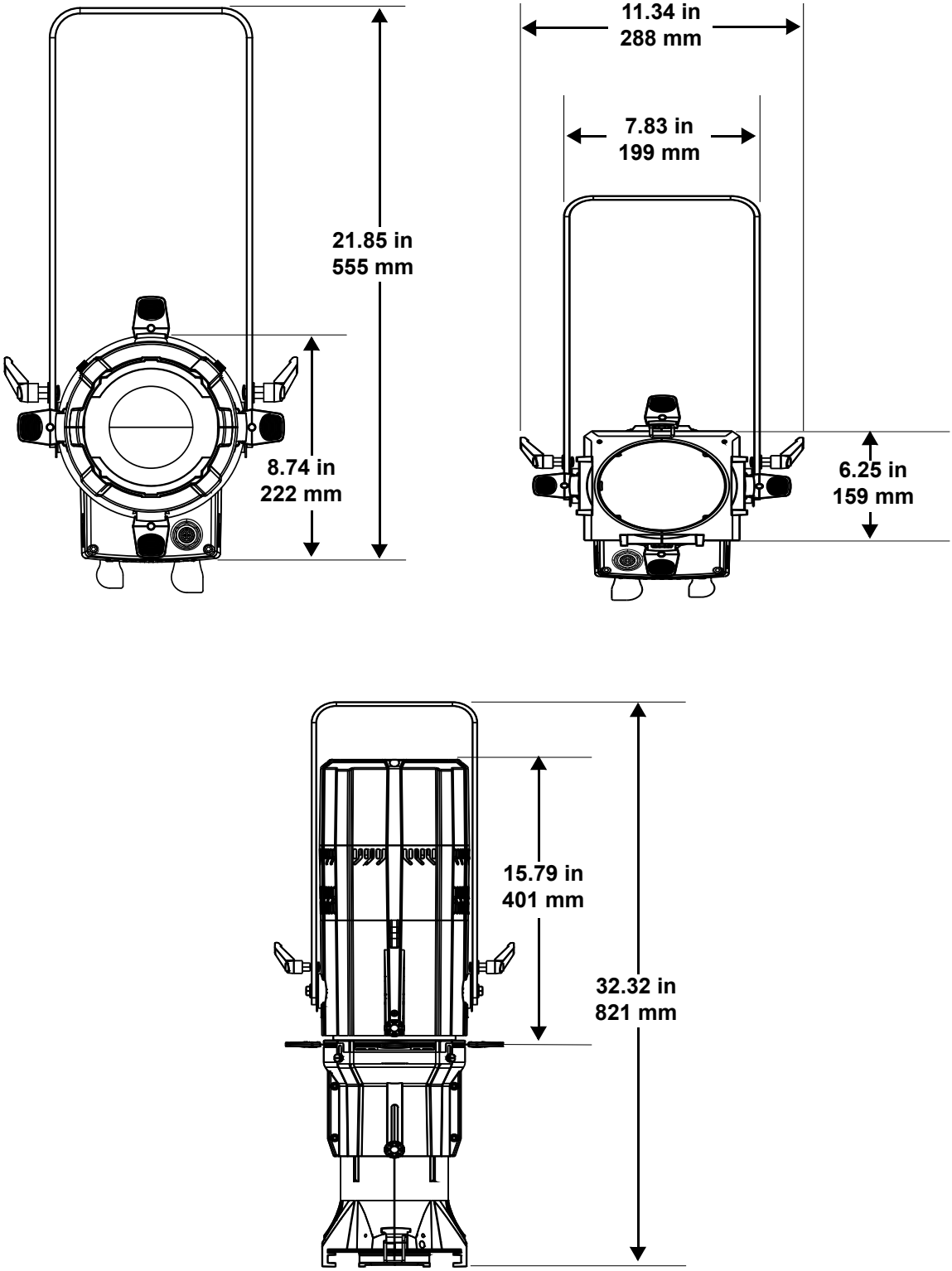
- 14° w/ gel frame (7.5 in/191 mm accessories)
- 19° w/ gel frame (6.25 in/159 mm accessories)
- 26° w/ gel frame (6.25 in/159 mm accessories)
- 36° w/ gel frame (6.25 in/159 mm accessories)
- 50° w/ gel frame (6.25 in/159 mm accessories)
- 15°–30° w/ gel frame (7.5 in/191 mm accessories)
- 25°–50° w/ gel frame (7.5 in/191 mm accessories)

Product Overview





Product Dimensions



3. Setup

AC Power

Each Ovation E-910FC IP has an auto-ranging power supply that works with an input voltage range of 100 to 240 VAC, 50/60 Hz. To determine the power requirements for each Ovation E-910FC IP, refer to the label affixed to the product or to the Technical Specifications chart in this manual.

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

- **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 Ovation E-910FC IP 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 the product has no plug, or if the plug needs to be changed, 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. It is possible to power link up to 7 Ovation E-910FC IP products at 120 V, up to 11 products at 208 V, or up to 12 products at 230 V. This product comes with a power input cord. Power-linking cables are available for purchase from Chauvet.

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

Fuse Replacement

1. Disconnect this product from the power outlet.
2. Using a Phillips-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.

Make sure to disconnect the product's power cord before replacing a blown fuse. Always replace the blown fuse with another of the same type and rating.

DMX Linking

The Ovation E-910FC IP can be linked to a DMX controller using a 5-pin DMX connection. Other DMX-compatible products used with this product can be controlled individually using a single DMX controller.

DMX Personalities

The Ovation E-910FC IP uses a 5-pin DMX data connection for the **HSV**, **1Ch**, **4Ch**, **6Ch**, **8Ch**, **11Ch**, **13Ch**, **14Ch**, or **17Ch** 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-910FC IP to work in these personalities.
- The DMX Values section provides detailed information regarding the DMX personalities.

For 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 Ovation E-910FC IP supports RDM protocol that allows feedback to make changes to menu map options.

Master/Slave Connectivity

The Master/Slave mode allows a Ovation E-910FC IP (the master) to control one or more Ovation E-910FC IP products (the slaves) without a DMX controller. One Ovation E-910FC IP becomes the master when running an auto or custom program, or by being in a 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.

Use IP65 data cables to preserve the IP65 rating and the warranty of this product.

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

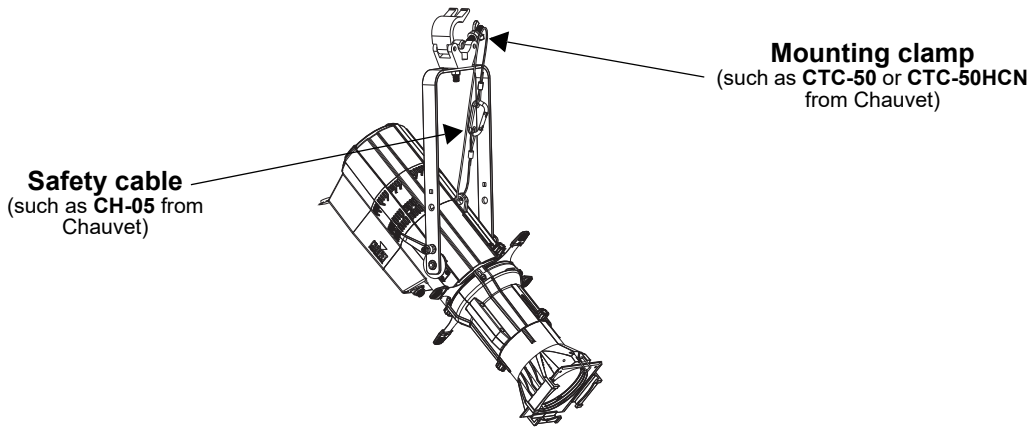
Chauvet recommends using the following general guidelines when mounting this product.

- 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.
- When power linking multiple products, mount the products close enough for power linking cables to reach.
- The bracket adjustment knobs allow for directional adjustment when aiming the product to the desired angle. Only loosen or tighten the bracket knobs manually. Using tools could damage the knobs.

Procedure

The Ovation E-910FC IP comes with a double-bracketed yoke that can be used as a floor stand or to which mounting clamps can be attached for hanging. Mounting clamps must be purchased separately. Ensure that the clamps can support the weight of this product. Use at least one mounting point per product where necessary.

Mounting Diagram



Manual Beam Focus Control

The Ovation E-910FC IP has a manual focus, which is adjusted as follows:

1. Locate the beam focus knobs at the top and bottom of the barrel assembly.
2. Loosen the knobs by turning them counter-clockwise.
3. Slide the lens tube forward or backward until the desired focus or beam edge is achieved.
4. Tighten the knobs by turning them clockwise, which lock the lens tube's position.

To avoid changing menu settings while focusing the Ovation E-910FC IP, press and hold the <ENTER> 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>.

Rotating the Barrel Assembly

The Ovation E-910FC IP allows manual rotation of the barrel assembly, as follows:

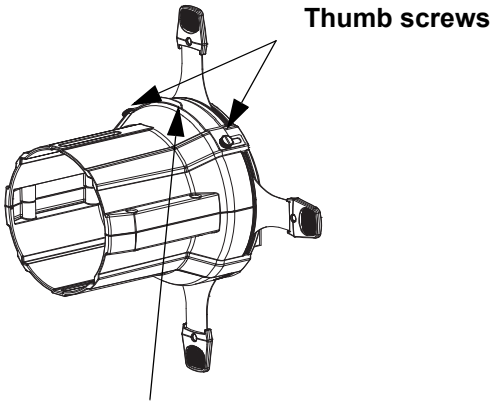
1. Locate the barrel rotation knobs at the top and bottom of the light engine.
2. Loosen the knobs by turning them counterclockwise. (**Note**: Do not remove the knobs.)
3. Rotate the barrel to the desired position, up to 25° in either direction from the centered position.
4. Tighten the knobs by turning them clockwise, which locks the barrel's position.

Ensure that the barrel assembly is oriented with the pattern holder and accessory slots at the top of the product.

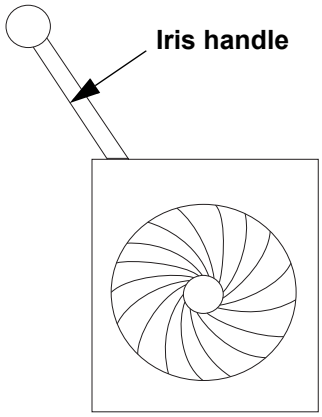
Accessory Slot

The Ovation E-910FC IP has an accessory slot, which holds a drop-in iris, a motorized pattern device, or various other optional accessories (sold separately).

1. Loosen the thumbscrews on the slot cover. (**Note**: Do not remove the thumbscrews).
2. Slide to 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 Cover



Sample Drop-in Iris

- **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-910FC IP.**

4. Operation

Control Panel Operation

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

Control Options

Set the Ovation E-910FC IP starting address in the 001–509 DMX range. This enables control of up to 12 products in the 17-channel 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.

Configuration (DMX)

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

DMX Personalities

This setting allows you to choose a particular DMX personality.

1. Go to the **DMX Channel** main level.
2. Select the desired personality (**1Ch**, **4Ch**, **6Ch**, **8Ch**, **11Ch**, **13Ch**, **14Ch**, **17Ch**, or **HSV**).

- **See the Starting Address section for the highest 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

In this mode, each product will respond to a unique starting address from the DMX controller. All products with the same starting address will respond in unison.

1. Go to the **DMX Address** main level.
2. Set the starting address (**001**–**509**).

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

DMX Personality	DMX Address	DMX Personality	DMX Address
HSV	**509**	**11Ch**	**501**
1Ch	**511**	**13Ch**	**499**
4Ch	**508**	**14Ch**	**498**
6Ch	**507**	**17Ch**	**496**
8Ch	**504**		

Menu Map

Main Level	Programming Levels			Description
DMX Address	**001–509***			Selects DMX address (*highest channel restricted to personality chosen)
DMX Channel	**1Ch**			1-channel: dimmer
	4Ch			4-channel: dimmer, VCW, color temperature, gobo rotation
	6Ch			6-channel: RGBAL, gobo rotation
	8Ch			8-channel: dimmer, RGBAL, strobe, gobo rotation
	11Ch			11-channel: 16-bit dimmer, RGBAL, strobe, VCW, color temperature, gobo rotation
	13Ch			13-channel: dimmer, RGBAL, strobe, VCW, color temperature, auto program, auto speed, dimmer speed mode, gobo rotation, red shift
	14Ch			14-channel: 16-bit dimmer, 16-bit RGBAL, strobe, gobo rotation
	17Ch			17-channel: 16-bit dimmer, 16-bit RGBAL, strobe, VCW, color temperature, gobo rotation, red shift
	HSV			4-channel: hue, saturation, value, gobo rotator
Virtual Color Wheel	**Virtual Color Wheel**	**C3050-Md Yellow** **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** **C5020-VLt Blue** **C5430-Lt Blue2** **C5070-Blue** **C5050-Md Blue** **C5060-Dk Blue** **C5690- Indigo** **C5080-VDk Blue** **C5081-VDk Blue2** **C4370-Yel Green** **C4070-Green** **C4550-Turquoise** **C4560-Aqua** **C4570-Blue Green**	**Dimmer 0–255**	Virtual color wheel simulates the output of each gel color. Refer to the Virtual Color Wheel Chart section for specific values.

Main Level	Programming Levels			Description
Virtual Color Wheel	Color Temperature	2800K	Dimmer 0–255	Preset white color temperatures. Emulates a tungsten lamp at the specified color temperature. Refer to the Color Temperature Chart section for specific values.
		3000K		
		3200K		
		3500K		
		4000K		
		4500K		
		5000K		
		5600K		
		6000K		
		6500K		
	Manual Color Mixer	Red	0–255	Combine red, green, blue, amber, and lime to make a custom color (0–100%)
		Green		
		Blue		
		Amber		
		Lime		
Auto Show	Auto 1–5		1–100	Selects automatic programs and program speed
Red Shift	On			Mimics halogen lamp dimming
	Off			
Gobo Rotator	0–255			Rotating gobo index
Master/ Slave	Master			Receives DMX signal from the DMX controller (master)
	Slave			Receives DMX signal from the master unit
Dimmer Curve	Linear			Sets the dimmer curve
	Square			
	I Square			
	SCurve			
Dimmer Mode	Off			Linear dimmer
	Dimmer 1–3			Dimming curves fast (**Dimmer 1**) to slow (**Dimmer 3**)
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
		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 of inactivity
	30S			Turns off display backlight after 30 seconds of inactivity
	2Min			Turns off display backlight after 2 minutes of inactivity
	Always On			Display backlight remains on

Main Level	Programming Levels		Description
Key Lock	On		Lock display (Password is <**UP**>, <**DOWN**>, <**UP**>, <**DOWN**>, <**ENTER**>)
	Off		
Gobo Power	On		Enables or disables gobo power output
	Off		
Information	Fixture Hours	_ _ _ _H	Shows total hours the product has been powered on
	LED Hours	_ _ _ _H	Shows total LED hours
	Version	V_._	Shows current firmware version
	UID	_ _ _ _ _ _ _ _ _ _	Shows product UID
Reset Factory	No		Resets the product to factory default settings
	Yes		

DMX Values

17Ch

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100%
2	Dimmer fine	000 ⇔ 255	0–100%
3	Red	000 ⇔ 255	0–100%
4	Red fine	000 ⇔ 255	0–100%
5	Green	000 ⇔ 255	0–100%
6	Green fine	000 ⇔ 255	0–100%
7	Blue	000 ⇔ 255	0–100%
8	Blue fine	000 ⇔ 255	0–100%
9	Amber	000 ⇔ 255	0–100%
10	Amber fine	000 ⇔ 255	0–100%
11	Lime	000 ⇔ 255	0–100%
12	Lime fine	000 ⇔ 255	0–100%
13	Strobe	000 ⇔ 010	No function
		011 ⇔ 255	Strobe, slow to fast
14	Virtual color wheel	000 ⇔ 255	See Virtual Color Wheel Chart
15	Color temperature	000 ⇔ 255	See Color Temperature Chart
16	Gobo rotation	000 ⇔ 127	Index
		128 ⇔ 190	Clockwise fast to slow
		191 ⇔ 192	Stop
		193 ⇔ 255	Counter-clockwise slow to fast
17	Control (hold for 3 seconds, then release)	000 ⇔ 007	No function
		008 ⇔ 015	Dimmer reset
		016 ⇔ 023	Red Shift On
		024 ⇔ 031	Red Shift Off
		032 ⇔ 039	Dimmer: S-Curve
		040 ⇔ 047	Dimmer: Linear
		048 ⇔ 055	Dimmer: Square
		056 ⇔ 063	Dimmer: Inverse Square
		064 ⇔ 071	Dimmer Mode Off
		072 ⇔ 079	Dimmer Mode 1
		080 ⇔ 087	Dimmer Mode 2
		088 ⇔ 095	Dimmer Mode 3
		096 ⇔ 103	Fan Auto
		104 ⇔ 111	Fan On
		112 ⇔ 119	Fan Off
		120 ⇔ 127	Fan Silent
		128 ⇔ 225	No Function

14Ch

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ⇔ 255	0–100%
2	**Dimmer fine**	000 ⇔ 255	0–100%
3	**Red**	000 ⇔ 255	0–100%
4	**Red fine**	000 ⇔ 255	0–100%
5	**Green**	000 ⇔ 255	0–100%
6	**Green fine**	000 ⇔ 255	0–100%
7	**Blue**	000 ⇔ 255	0–100%
8	**Blue fine**	000 ⇔ 255	0–100%
9	**Amber**	000 ⇔ 255	0–100%
10	**Amber fine**	000 ⇔ 255	0–100%
11	**Lime**	000 ⇔ 255	0–100%
12	**Lime fine**	000 ⇔ 255	0–100%
13	**Strobe**	000 ⇔ 010 011 ⇔ 255	No function Strobe, slow to fast
14	**Gobo rotation**	000 ⇔ 127 128 ⇔ 190 191 ⇔ 192 193 ⇔ 255	Index Clockwise fast to slow Stop Counter-clockwise slow to fast

13Ch

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	**Amber**	000 ⇔ 255	0–100%
6	**Lime**	000 ⇔ 255	0–100%
7	**Strobe**	000 ⇔ 010	No function
		011 ⇔ 255	Strobe, slow to fast
8	**Virtual color wheel**	000 ⇔ 255	See Virtual Color Wheel Chart
9	**Color temperature**	000 ⇔ 255	See Color Temperature Chart
10	**Auto program**	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
11	**Auto speed**	000 ⇔ 255	Auto speed, slow to fast
12	**Gobo rotation**	000 ⇔ 127	Index
		128 ⇔ 190	Clockwise fast to slow
		191 ⇔ 192	Stop
		193 ⇔ 255	Counter-clockwise slow to fast
13	**Control (hold for 3 seconds, then release)**	000 ⇔007	No function
		008 ⇔015	Dimmer reset
		016 ⇔023	Red Shift On
		024 ⇔031	Red Shift Off
		032 ⇔039	Dimmer: S-Curve
		040 ⇔047	Dimmer: Linear
		048 ⇔055	Dimmer: Square
		056 ⇔063	Dimmer: Inverse Square
		064 ⇔071	Dimmer Mode Off
		072 ⇔079	Dimmer Mode 1
		080 ⇔087	Dimmer Mode 2
		088 ⇔095	Dimmer Mode 3
		096 ⇔103	Fan Auto
		104 ⇔ 111	Fan On
		112 ⇔ 119	Fan Off
		120 ⇔127	Fan Silent
		128 ⇔225	No Function

11Ch

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100%
2	Dimmer fine	000 ⇔ 255	0–100%
3	Red	000 ⇔ 255	0–100%
4	Green	000 ⇔ 255	0–100%
5	Blue	000 ⇔ 255	0–100%
6	Amber	000 ⇔ 255	0–100%
7	Lime	000 ⇔ 255	0–100%
8	Strobe	000 ⇔ 010 011 ⇔ 255	No function Strobe, slow to fast
9	Virtual color wheel	000 ⇔ 255	See Virtual Color Wheel Chart
10	Color temperature	000 ⇔ 255	See Virtual Color Wheel
11	Gobo rotator	000 ⇔ 127 128 ⇔ 190 191 ⇔ 192 193 ⇔ 255	Index Clockwise fast to slow Stop Counter-clockwise slow to fast

8Ch

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	Amber	000 ⇔ 255	0–100%
6	Lime	000 ⇔ 255	0–100%
7	Strobe	000 ⇔ 010 011 ⇔ 255	No function Strobe, slow to fast
8	Gobo rotator	000 ⇔ 127 128 ⇔ 190 191 ⇔ 192 193 ⇔ 255	Index Clockwise fast to slow Stop Counter-clockwise slow to fast

6Ch

Channel	Function	Value	Percent/Setting
1	Red	000 ⇔ 255	0–100%
2	Green	000 ⇔ 255	0–100%
3	Blue	000 ⇔ 255	0–100%
4	Amber	000 ⇔ 255	0–100%
5	Lime	000 ⇔ 255	0–100%
6	Gobo rotator	000 ⇔ 127 128 ⇔ 190 191 ⇔ 192 193 ⇔ 255	Index Clockwise fast to slow Stop Counter-clockwise slow to fast

4Ch

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ⇔ 255	0–100%
2	**Virtual color wheel**	000 ⇔ 255	See Virtual Color Wheel Chart
3	**Color temperature**	000 ⇔ 255	See Virtual Color Wheel
4	**Gobo rotation**	000 ⇔ 127	Index
		128 ⇔ 190	Clockwise fast to slow
		191 ⇔ 192	Stop
		193 ⇔ 255	Counter-clockwise slow to fast

1Ch

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ⇔ 255	0–100%

HSV

Channel	Function	Value	Percent/Setting
1	**Hue**	000 ⇔ 255	0–100%
2	**Saturation**	000 ⇔ 255	0–100%
3	**Value**	000 ⇔ 255	0–100%
4	**Gobo rotation**	000 ⇔ 127	Index
		128 ⇔ 190	Clockwise fast to slow
		191 ⇔ 192	Stop
		193 ⇔ 255	Counter-clockwise slow to fast

Virtual Color Wheel

The Ovation E-910FC IP 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 colors. A chart is available on www.chauvetprofessional.com to compare Chauvet's premixed colors with popular gel colors. This chart is for comparison purposes only and is not a guarantee that Chauvet's premixed colors match any of the gel colors listed.

Virtual Color Wheel Chart

	R	G	B	A	L
C3050-Md Yellow	233	163	20	123	255
C3040-Lt Yellow	224	158	47	255	231
C3240-Amb Yellow	180	60	0	245	255
C2340-VLt Amber	245	107	81	255	213
C2040-Lt Amber	230	130	62	255	155
C2050-Md Amber	255	0	25	255	194
C2060-Dk Amber	255	0	24	255	150
C1050-Lt Red	255	37	27	30	38
C1080-Md Red	255	4	17	0	0
C1020-NC Pink	238	135	129	255	255
C1030-Md Pink	255	131	120	255	195
C1630-Dk Pink	250	165	123	255	210
C1250-Md Red Amber	255	0	41	195	55
C1060-Dk Red Amber	255	0	45	120	30
C1650-Magenta	255	50	115	255	115
C6170-Dk Magenta	255	35	117	0	0
C6020-Lt Lavender	127	122	142	251	255
C5030-Lt Blue	0	255	197	100	255
C5020-VLt Blue	158	255	189	0	255
C5430-Lt Blue2	0	255	180	0	243
C5070-Blue	43	255	210	43	36
C5050-Md Blue	0	255	218	0	181
C5060-Dk Blue	0	210	206	0	118
C5690-Indigo	65	0	210	40	55
C5080-VDk Blue	0	203	230	0	40
C5081-VdK Blue2	40	199	240	0	45
C4370-Yel Green	27	255	28	16	104
C4070-Green	49	255	55	120	90
C4550-Turquoise	60	230	109	0	245
C4560-Aqua	20	240	126	36	255
C4570-Blue Green	0	255	79	30	53

Note: 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

	R	G	B	A	L
2800K	187	130	97	255	255
3000K	177	145	105	255	255
3200K	168	157	113	255	255
3500K	163	177	124	255	255
4000K	151	195	141	255	255
4500K	145	214	157	255	255
5000K	138	227	170	255	255
5600K	130	239	184	255	255
6000K	126	246	193	255	255
6500K	120	254	201	255	255

Note: 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.

Configuration (Standalone)

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

Focus Mode

Focus mode allows for focusing of the Ovation E-910FC IP without changing any menu settings.

1. Press and hold **<ENTER>** for 3 seconds. The output intensity will increase to 100%.
2. Press **<MENU>** to exit focus mode and restore the settings.

Virtual Color Wheel

The Ovation E-910FC IP offers more than 30 premixed colors based on gel colors. See the Virtual Color Wheel section for details on specific values. To select a gel color, do the following:

1. Go to the **Virtual Color Wheel** main level.
2. Select **Virtual Color Wheel**.
3. Select the desired gel color (see Virtual Color Wheel Chart).
4. Select the desired output level (**0–255**).

Color Temperature

The Color Temperature mode offer preset white color temperatures that emulate a tungsten lamp at the specified color temperature. See the Color Temperature section for details on specified values. To select a color temperature, do the following:

1. Go to the **Virtual Color Wheel** main level.
2. Select **Color Temperature**.
3. Select the desired color temperature (see Virtual Color Wheel).
4. Select the desired output level (**0–255**).

Manual Color Mixer

The Manual Color Mixer mode allows for permanent RGBAL color mixing without a DMX controller.

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. Select the desired output level for that color (**0–255**).
5. Repeat steps 3 and 4 until product outputs as desired.

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 program (**Auto 1–5**).
3. Select the desired speed (**1–100**).

The auto programs cannot be edited.

Red Shift

The Red Shift function causes the amber LEDs to imitate the appearance of a halogen lamp when dimming.

1. Go to the **Red Shift** main level.
2. Select **On** or **Off**.

Gobo Rotator

(for use with Ovation GR-1 IP, sold separately)

The gobo rotator mode controls the Ovation GR-1 IP rotation speed.

1. Go to the **Gobo Rotator** main level.
2. Select the desired value (**0–255**).

Dimmer Curve

To set the dimmer curve, follow the instructions below:

1. Go to the Dimmer Curve main level.
2. Select the desired option (**Linear**, **Square**, **I Squa**, or **SCurve**).
3. Press **<ENTER>**.

Master/Slave

The Master/Slave mode allows a group of Ovation E-910FC IP products (the slaves) to simultaneously duplicate the output of another Ovation E-910FC IP (the master) without a DMX controller.

To set each of the slaves:

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

To set the master:

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

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

Dimmer Profiles

This setting determines how fast the output of the Ovation E-910FC IP changes when the output value is modified. It provides four different options to simulate the dimming curve of an incandescent lighting product.

1. Go to the **Dimmer Mode** main level.
2. Select a dimmer curve (**Off**, **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 determines the maximum output values for each color, which affects the appearance of a full output white.

1. Go to the White Balance main level.
2. Select **Off** (the product will use a default setting) or **Manual**.
3. For **Manual** mode, select the color value to edit (**Red**, **Green**, **Blue**, **Amber**, or **Lime**).
4. Set the maximum value for the selected color (**125–255**).
5. Repeat steps 3 and 4 until the product outputs as desired.

LED Frequency

This option changes the Pulse Width Modulation (PWM) frequency of the LEDs on the Ovation E-910FC IP.

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

Fan Mode

This setting determines how the fan speed on the Ovation E-910FC IP is set.

1. Go to the **Fan Mode** 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).

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

WARNING: When operating in Fan Mode: Off, 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.

Back Light

This setting allows for selection of the amount of time the backlight on the Ovation E-910FC IP'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).

Key Lock

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

1. Go to the **Key Lock** main level.
2. Select **On** or **Off**.

Gobo Power

This setting provides power to the Ovation GR-1 IP (sold separately).

1. Go to the **Gobo Power** main level.
2. Select **On** or **Off**.

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**, or **UID**.

Factory Reset

This option restores the Ovation E-910FC IP to factory default settings.

1. Go to the **Reset Factory** main level.
2. Select **No** or **Yes**.

5. Technical Information

Product Maintenance

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

Clean this product at least twice a month. Dust build-up reduces light output performance and can cause overheating. This can lead to reduced light source life and increased mechanical wear.

To clean the product:

1. Unplug the product from power.
2. Wait until the product is at room temperature.
3. Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external vents.
4. Clean all 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
26 in (660 mm)	11.33 in (288 mm)	10.4 in (264.6 mm)	23.2 lb (10.5 kg)

Note: Dimensions in inches rounded to the nearest hundredth.

Power

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

Parameter	120 V, 60 Hz	230 V, 50 Hz
Consumption	225 W	241 W
Operating Current	1.88 A	1.05 A
Power-linking current (products)	13.6 A (7 products)	13.6 A (12 products)

Power I/O	U.S./Canada	Worldwide
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	Red Green Blue Amber Lime green	18 18 19 18 18	3 W	722 mA	50,000 hours

Photometrics

Parameter	14°	19°	26°	36°	50°	15°~30°	25°~50°
Beam Angle	11°	19°	24°	28°	41°	13°/24°	23°/36°
Field Angle	14°	19°	26°	34°	51°	15°/29°	26°/50°
Illuminance @ 5 m	4,420 lux	2,530 lux	1,720 lux	1,020 lux	457 lux	4,260/1,620 lux	1,790/825 lux

Thermal

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

DMX

I/O Connector	Channel Range
5-pin XLR	1, 4, 6, 8, 11, 13, 14, 17, HSV

Ordering

Product Name	Item Code	UPC Number
Ovation E-910FC IP	03121497	781462218454

UL 1573
CSA C22.2 No. 166
E113093

Returns

To get support or return a product:

- If you are located in the U.S., contact Chauvet World Headquarters.
- If you are located in the U.K. or Ireland, contact Chauvet Europe Ltd.
- If you are located in Benelux, contact Chauvet Europe BVBA.
- If you are located in France, contact Chauvet France.
- If you are located in Germany, contact Chauvet Germany.
- If you are located in Mexico, contact Chauvet Mexico.
- If you are located in any other country, DO NOT contact Chauvet. Instead, contact your local distributor. See www.chauvetprofessional.com for distributors outside the U.S., U.K., Ireland, Benelux, France, Germany, or Mexico.

If you are located outside the U.S., U.K., Ireland, Benelux, France, Germany, or Mexico, contact your distributor of record and follow their instructions on how to return Chauvet products to them. Visit our website www.chauvetprofessional.com for contact details.

Call the corresponding Chauvet Technical Support office 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 for the return.

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

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

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

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

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

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

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

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

Contact Us

General Information	Technical Support
Chauvet World Headquarters	
Address: 5200 NW 108th Ave. Sunrise, FL 33351 Voice: (954) 577-4455 Fax: (954) 929-5560 Toll Free: (800) 762-1084	Voice: (844) 393-7575 Fax: (954) 756-8015 Email: chauvetcs@chauvetlighting.com Website: www.chauvetprofessional.com
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Visit the applicable website above to verify our contact information and instructions to request support. Outside the U.S., U.K., Ireland, Mexico, France, Germany, or Benelux, contact the dealer of record.