OVATION
F-415FC
User Manual

Model ID: OVATIONF415FC

CHAUVET
PROFESSIONAL

Edition Notes

The Ovation F-415FC User Manual includes a description, safety precautions, installation, programming, operation and maintenance instructions for the Ovation F-415FC.

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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 F-415FC User Manual is the 6th 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 F-415FC
- Neutrik® powerCON® power cord
- Gel frame holder (6.25 in/159 mm accessories)
- 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 customer's 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.

📝 **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

- This product is not intended for permanent installation.
- This product is for indoor use only! Do not operate this product outdoors or in any location where dust, excessive heat, water, or humidity may affect it (IP20).
- Do not leave any flammable material within 50 cm of this product while operating or connected to power.
- 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.
- Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- When hanging this product, always secure to a fastening device using a safety cable.
- Use only the hanging/mounting bracket to carry this product.

Power and Wiring

- Ensure that the power cord is not crimped or damaged.
- Always ensure that the product is connected to proper voltage in accordance with the specifications in this manual or on the product's specification label.
- Make sure to replace the fuse with another of the same type and rating.
- 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

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 F-415FC is a RGBAL Fresnel-style LED system. It projects a bright, beautifully soft field of light, from subtle pastels to punchy saturates, and nearly any temperature of white. A motorized zoom with a 27° to 68° field of angle allows users to add light where it is needed. Control of the virtual color wheel, zoom, and output can be via DMX or on-board dials. It is also RDM-enabled to ease installation and offers adjustable PWM for flicker-free user on camera.

Features

- Operating modes:
  - 1-channel: dimmer
  - 3-channel: dimmer, virtual color wheel, color temperature
  - 5-channel: RGBAL control
  - 7-channel: dimmer, RGBAL control, strobe
  - 11-channel: 16-bit dimmer, RGBAL control, strobe, virtual color wheel, color temperature, zoom
  - 13-channel: 16-bit dimmer, RGBAL control, strobe
  - 14-channel: dimmer, RGBAL control, strobe, virtual color wheel, color temperature, auto programs, auto speed, control, zoom, motor reset
  - 18-channel: 16-bit dimmer, 16-bit RGBAL, strobe, virtual color wheel, color temperature, zoom, motor reset, control
  - HSV: hue, saturation, value
- Full-color LED (RGBAL) Fresnel-style lighting fixture for theater, film, and production
- Soft and even field of light
- Smooth, motorized zoom range from 14° to 68°
- Beautiful 16-bit dimming of master dimmer and individual colors
- Easy-to-use on-board control of color, zoom, and dimming
- Virtual color wheel with color matched to popular gel colors
- Color temperature presets from 2800 K to 6500 K
- RDM (remote device management) for added flexibility
- Adjustable PWM (pulse width modulation) to avoid flickering on camera
- Virtually silent operation for use in studio and theater applications

Product Overview

Product Dimensions

11.22 in
285 mm

13.90 in
353 mm

15.04 in
382 mm

6.25 in
159 mm

6.25 in
159 mm

6.25 in
159 mm

9.53 in
242 mm
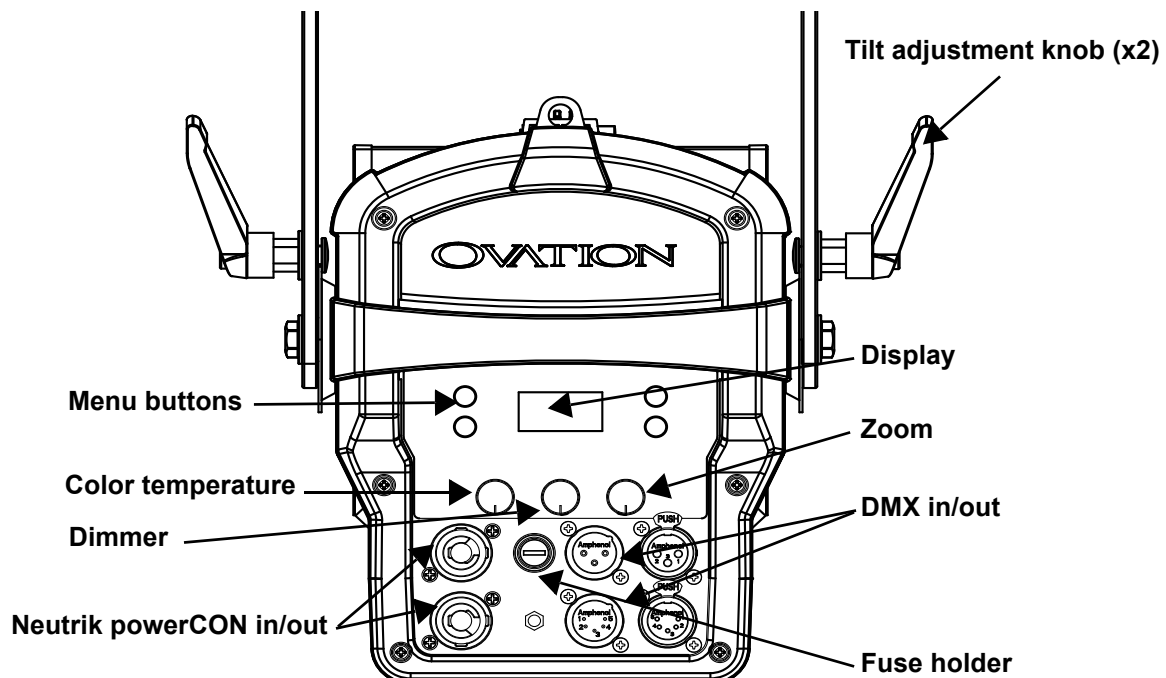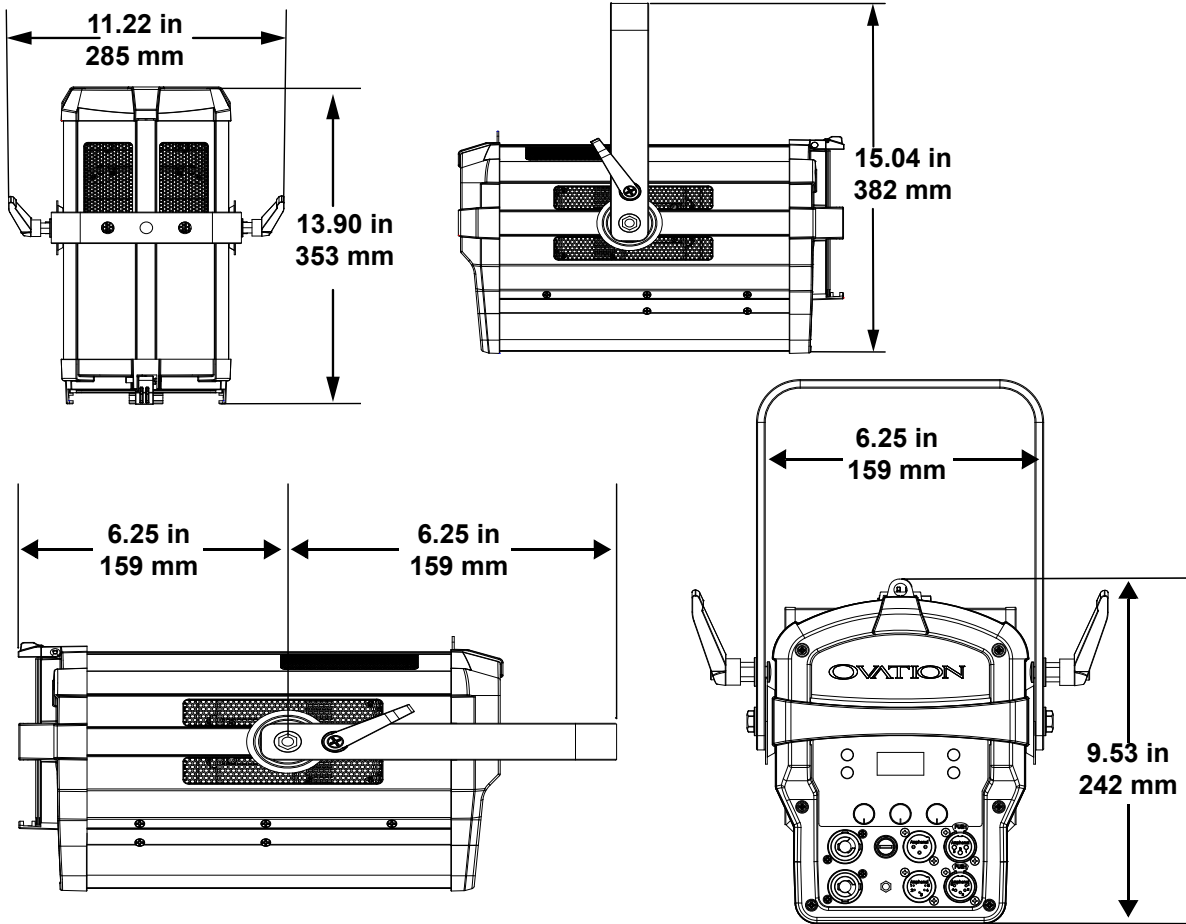
3. Setup

AC Power

Each Ovation F-415FC 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 F-415FC, 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 F-415FC comes with a power input cord terminated with a Neutrik® powerCON® 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 8 products at 100 V, 10 products at 120 V, 18 products at 208 V, 20 products at 230 V, or up to 21 products at 240 V. This product comes with a power input cord. Power-linking cables are available for purchase from Chauvet.

Fuse Replacement

1. Disconnect this product from the power outlet.
2. Using a Phillips #2 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 F-415FC can be linked to a DMX controller using a 3- and 5-pin DMX 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 Ovation F-415FC uses a 3- and 5-pin DMX data connection for the **HSV**, **1Ch**, **3Ch**, **5Ch**, **7Ch**, **11Ch**, **13Ch**, **14Ch**, and **18Ch** 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 F-415FC to work in these personalities.
• The DMX 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 with the manufacturer or the DMX controller's User Manual, as not all DMX controllers have this capability. The Ovation F-415FC supports RDM protocol that allows feedback to make changes to menu map options.

Master/Slave Connectivity

The Master/Slave mode allows an Ovation F-415FC (the master) to control one or more Ovation F-415FC products (the slaves) without a DMX controller. One Ovation F-415FC 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.

Mounting

Before mounting the product, read and follow the safety recommendations indicated in the Safety Notes. For Chauvet Professional line of mounting clamps, go to: http://trusst.com/products/.

Orientation

Always mount this product in a safe position, ensuring that 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 will be 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 F-415FC 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

Mounting clamp
(such as **CTC-50** or **CTC-50HCN** from Chauvet)

Safety cable
(such as **CH-05** from Chauvet)

Mounting bracket

Bracket adjustment knob

Overhead Mounting

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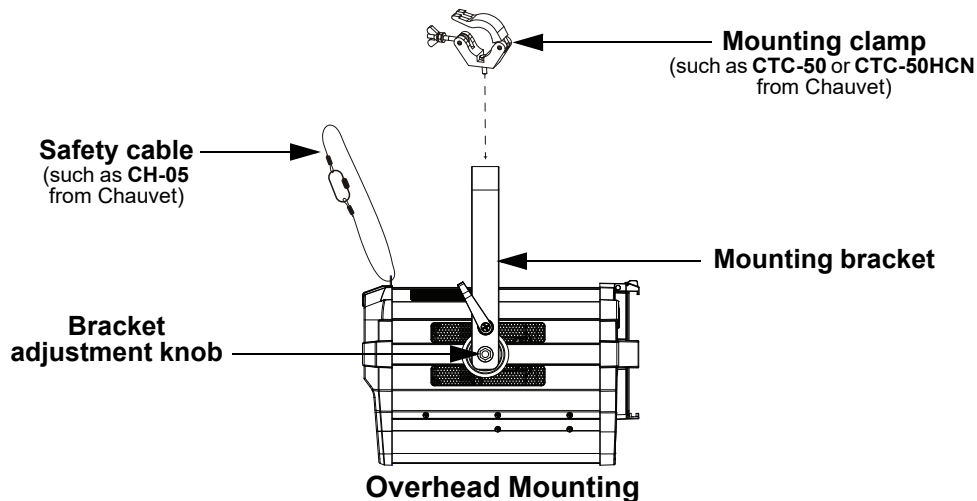
4. Operation

Control Panel Operation

Button/Knob	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
<Color Temperature>	Push twice, then turn to select the color temperature
<Dimmer>	Push twice, then turn to increase or decrease the dimmer
<Zoom>	Push twice, then turn to increase or decrease the zoom

Control Options

Set the Ovation F-415FC starting address in the 001-512 DMX range. This enables control of up to 24 products in the 18-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 show 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. This will show either the first option if there is another programming level, or 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 the user to choose a particular DMX personality.

1. Go to the **DMX Channel** main level.
2. Select the desired personality (**1Ch, 3Ch, 5Ch, 7Ch, 11Ch, 13Ch, 14Ch, 18Ch,** and **HSV**).

- **See the Starting Address section for the highest starting address suggested 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. Select **Address**.
3. Set the starting address (**001**–**512**).

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

DMX Personality	DMX Address	DMX Personality	DMX Address
1Ch	512	11Ch	502
3Ch	510	13Ch	500
5Ch	509	14Ch	499
7Ch	506	18Ch	495

Menu Map

Refer to the Ovation F-415FC 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	1Ch			1-channel: dimmer
	3Ch			3-channel: dimmer, virtual color wheel, color temperature
	5Ch			5-channel: RGBAL
	7Ch			7-channel: dimmer, RGBAL, strobe
	11Ch			11-channel: 16-bit dimmer, RGBAL, virtual color wheel, color temperature, strobe, zoom
	13Ch			13-channel: 16-bit dimmer, 16-bit RGBAL, strobe
	14Ch			14-channel: dimmer, RGBAL, strobe, virtual color wheel, color temperature, auto show, auto speed, control, zoom, motor reset
	18Ch			18-channel: 16-bit RGBAL and dimmer, strobe, virtual color wheel, color temperature, zoom, motor reset, 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		
		C5020 - VLt Blue		
		C5430 - Lt Blue 2		
		C5070 - Blue		
		C5050 - Md Blue		
		C5060 - Dk Blue		
		C5690 - Indigo		
		C5080 - VDk Blue		
		C5081 - VDk Blue 2		
		C4370 - Yel Green		

Main Level	Programming Levels			Description
Virtual Color Wheel (cont.)	**Virtual Color Wheel** (cont.)	C4070 - Green	**Dimmer 0–255**	Virtual Color Wheel simulates the output of each gel color. Refer to the Virtual Color Wheel Chart for specific values.
		C4550 - Turquoise		
		C4560 - Aqua		
		C4570 - Blue Green		
	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 for specific values.
		3000K		
		3200K		
		3500K		
		4000K		
		4500K		
		5000K		
		5600K		
		6000K		
		6500K		
	Manual Color Mixer	Red	**0–255**	Combines red, green, blue, amber, and lime to make a custom color (0–100%)
		Green		
		Blue		
		Amber		
		Lime		
	Color X-Fade Speed	Off		Turns off the fade transition between colors
		X-Fade Speed 1		Creates fade transition between colors when using colors in the Virtual Color Wheel or Color Temperature chart, from fast (**X-Fade Speed 1**) to slow (**X-Fade Speed 4**)
		X-Fade Speed 2		
		X-Fade Speed 3		
		X-Fade Speed 4		
Auto Show	Auto 1–5		1–100	Selects automatic programs and auto program speed
Zoom	0–255			Controls zoom
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	S-Curve			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**)
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

Main Level	Programming Levels		Description
LED Frequency	**600Hz**		Sets the PWM output 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 always on
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 Zoom w/ Power	**No**		Keeps zoom in last position when powered on
	Yes		Resets the zoom to home position when powered on
Factory Reset	**No**		Resets the product to factory default settings
	Yes		

⚠️ **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.**

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

Virtual Color Wheel (VCW)

The Ovation F-415FC includes a feature called the Virtual Color Wheel (VCW). It is available as a standalone control mode 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 intensity of the product can be adjusted to more closely replicate industry-standard colors. A chart available at www.chauvetprofessional.com compares 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 Value	Green	Blue	Amber	Lime
000 ⇔ 005	--	000	000	000	000	000
006 ⇔ 013	C3050 - Md Yellow	233	163	020	123	255
014 ⇔ 021	C3040 - Lt Yellow	224	158	047	255	231
022 ⇔ 028	C3240 - Amb Yellow	180	060	000	245	255
029 ⇔ 035	C2340 - VLt Amber	245	107	081	255	213
036 ⇔ 043	C2040 - Lt Amber	230	130	062	255	155
044 ⇔ 051	C2050 - Md Amber	255	000	025	255	194
052 ⇔ 059	C2060 - Dk Amber	255	000	024	255	150
060 ⇔ 067	C1050 - Lt Red	255	037	027	030	038
068 ⇔ 075	C1080 - Md Red	255	004	017	000	000
076 ⇔ 083	C1020 - NC Pink	238	135	129	255	255
084 ⇔ 091	C1030 - Md Pink	255	131	120	255	195
092 ⇔ 099	C1630 - Dk Pink	255	165	123	255	210
100 ⇔ 107	C1250 - Md Red Amber	255	000	041	195	055
108 ⇔ 115	C1060 - Dk Red Amber	255	000	045	120	030
116 ⇔ 121	C1650 - Magenta	255	050	115	255	115
122 ⇔ 130	C6170 - Dk Magenta	255	035	117	000	000
131 ⇔ 138	C6020 - Lt Lavender	127	122	142	251	255
139 ⇔ 146	C5030 - Lt Blue	000	255	197	100	255
147 ⇔ 154	C5020 - VLt Blue	158	255	189	000	255
155 ⇔ 162	C5430 - Lt Blue 2	000	255	180	000	243
163 ⇔ 170	C5070 - Blue	043	255	210	043	036
171 ⇔ 178	C5050 - Md Blue	000	255	218	000	181
179 ⇔ 186	C5060 - Dk Blue	000	210	206	000	118
187 ⇔ 194	C5690 - Indigo	065	000	210	040	055
195 ⇔ 202	C5080 - VDk Blue	000	203	230	000	040
203 ⇔ 210	C5081 - VDk Blue2	040	199	240	000	045
211 ⇔ 218	C4370 - Yel Green	027	255	028	016	104
219 ⇔ 226	C4070 - Green	049	255	055	120	090
227 ⇔ 234	C4550 - Turquoise	060	230	109	000	245
235 ⇔ 242	C4560 - Aqua	020	240	126	036	255
243 ⇔ 250	C4570 - Blue Green	000	255	079	030	053
251 ⇔ 255	--	000	000	000	000	000

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	Display Readout	Red Value	Green	Blue	Amber	Lime
000 ⇔ 005	--	000	000	000	000	000
006 ⇔ 025	2800K	198	065	056	220	230
026 ⇔ 050	3000K	181	078	074	220	230
051 ⇔ 075	3200K	165	092	093	220	230
076 ⇔ 100	3500K	153	128	111	220	230
101 ⇔ 125	4000K	127	128	163	220	230
126 ⇔ 150	4500K	106	128	200	220	230
151 ⇔ 175	5000K	092	128	230	220	230
176 ⇔ 200	5600K	073	128	255	220	230
201 ⇔ 225	6000K	048	128	255	220	230
226 ⇔ 250	6500K	019	128	255	220	230
251 ⇔ 255	--	000	000	000	000	000

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 Values
18Ch / 14Ch / 13Ch / 11Ch / 7Ch / 5Ch / 3Ch

3Ch	5Ch	7Ch	11Ch	13Ch	14Ch	18Ch	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	3	2	3	Red	000 ⇔ 255	0–100%
–	–	–	–	4	–	4	Red fine	000 ⇔ 255	0–100%
–	2	3	4	5	3	5	Green	000 ⇔ 255	0–100%
–	–	–	–	6	–	6	Green fine	000 ⇔ 255	0–100%
–	3	4	5	7	4	7	Blue	000 ⇔ 255	0–100%
–	–	–	–	8	–	8	Blue fine	000 ⇔ 255	0–100%
–	4	5	6	9	5	9	Amber	000 ⇔ 255	0–100%
–	–	–	–	10	–	10	Amber fine	000 ⇔ 255	0–100%
–	5	6	7	11	6	11	Lime	000 ⇔ 255	0–100%
–	–	–	–	12	–	12	Lime fine	000 ⇔ 255	0–100%
–	–	7	8	13	7	13	Strobe	000 ⇔ 010	No function
								011 ⇔ 255	Strobe, slow to fast
2	–	–	9	–	8	14	Virtual color wheel	000 ⇔ 255	See the Virtual Color Wheel Chart
3	–	–	10	–	9	15	Color temperature	000 ⇔ 255	See the Color Temperature Chart
–	–	–	–	–	10	–	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
–	–	–	–	–	11	–	Auto speed	000 ⇔ 255	Auto speed, slow to fast
–	–	–	11	–	–	16	Zoom	000 ⇔ 255	Narrow to wide
–	–	–	–	–	–	17	Motor reset	000 ⇔ 200	No function
								201 ⇔ 220	Motor reset
								221 ⇔ 255	No function

3Ch	5Ch	7Ch	11Ch	13Ch	14Ch	18Ch	Function	Value	Percent/Setting
–	–	–	–	–	12	18	**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 speed mode off
								072 ⇔ 079	Dimmer speed mode 1
								080 ⇔ 087	Dimmer speed mode 2
								088 ⇔ 095	Dimmer speed mode 3
								096 ⇔ 103	Fan auto
								104 ⇔ 111	Fan on
								112 ⇔ 119	Fan off
								120 ⇔ 127	Fan silent
								128 ⇔ 135	X-Fade Speed: OFF
								136 ⇔ 143	X-Fade Speed: 1 (fastest)
								144 ⇔ 151	X-Fade Speed: 2
								152 ⇔ 159	X-Fade Speed: 3
								160 ⇔ 167	X-Fade Speed: 4 (slowest)
								168 ⇔ 225	No Function
–	–	–	–	–	13	–	**Zoom**	000 ⇔ 255	Narrow to wide
–	–	–	–	–	14	–	**Motor reset**	000 ⇔ 200	No function
								201 ⇔ 220	Motor reset
								221 ⇔ 255	No function

1Ch

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

HSV

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

Configuration (Standalone)
Use standalone configuration to operate the product without a DMX controller.

Static Mode
The Static mode allows for an unchanging color without a DMX controller.

Virtual Color Wheel
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

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 Color Temperature Chart).
4. Select the desired output level (**0–255**).

Manual Color Mixer

To do color mixing without a DMX controller, follow the instructions below:

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

Color X-Fade Speed

The Color X-Fade Speed sets the cross-fade speed for Virtual Color Wheel options.

1. Go to the **Virtual Color Wheel** main level.
2. Select **Color X-Fade Speed**.
3. Select the desired cross-fade speed (**Off, X-Fade Speed 1–4**).

Auto Programs

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

1. Go to **Auto Show** main level.
2. Select the desired auto program (**Auto 1–5**).
3. Select the desired speed (**1–100**).

Zoom

This setting allows standalone control of the motorized zoom. To adjust, do the following:

1. Go to **Zoom** main level.
2. Select the desired output level (**0–255**).

Master/Slave

The Master/Slave mode allows a group of Ovation F-415FC products (the slaves) to simultaneously duplicate the output of another Ovation F-415FC (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 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**).

Dimmer Profiles

This setting determines how fast the output of the Ovation F-415FC 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 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 Green**).
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 F-415FC. To do so, follow the instructions below:

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 F-415FC 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 F-415FC'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).

System Information

This option displays essential product information.

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

Zoom Reset

This setting determines whether the zoom resets when power is applied to the Ovation F-415FC. To adjust, do the following:

1. Go to the **Reset Zoom w/ Power** main level.
2. Select **No** (zoom stays in last command position when power was removed) or **Yes** (zoom resets when power is applied to the product).

Factory Reset

This option restores the Ovation F-415FC to factory default settings.

1. Go to the **Factory Reset** 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
15.80 in (401.46 mm)	11.22 in (285 mm)	9.51 in (241.65 mm)	12 lb (5.6 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	100 V, 60 Hz	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz	240 V, 50 Hz
Consumption	132 W	130 W	127 W	127 W	126 W
Operating Current	1.351 A	1.101 A	0.638 A	0.585 A	0.569 A
Power-linking current (products)	12 A (8 products)	12 A (10 products)	12 A (18 products)	12 A (20 products)	12 A (21 products)
Fuse	T3.15 A, 250 V	T3.15 A, 250 V	T3.15 A, 250 V	T3.15 A, 250 V	T3.15 A, 250 V

Power I/O	U.S./Canada	Worldwide
Power input connector	Neutrik® powerCON®	Neutrik® powerCON®
Power output connector	Neutrik® powerCON®	Neutrik® powerCON®
Power cord plug	Edison (U.S.)	Local plug

Light Source

Type	Color	Quantity	Power	Current	Lifespan
LED	Red	10	3–5 W	1 A	50,000 hours
	Green	10			
	Blue	6			
	Amber	8			
	Lime green	12			

Photometrics

Beam Angle	Field Angle	Zoom Range	Illuminance @ 5 m (27°)	Illuminance @ 5 m (68°)
14° to 43°	27° to 68°	14° to 68°	915 lux	190 lux

Thermal

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

DMX

I/O Connector	Channel Range
3- and 5-pin XLR	1, 3, 5, 7, 11, 13, 14, 18, and HSV

Ordering

Product Name	Item Code	UPC Number
Ovation F-415FC	03031482	781462218300

RoHS

DMX RDM

(MET) c us

UL 1573
CSA C22.2 No. 166
E113093

FC UK CA C CE

Returns

To get support or to return a product, contact:
- 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.	Voice: (844) 393-7575
Sunrise, FL 33351	Fax: (954) 756-8015
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Fax: (954) 929-5560	
Toll Free: (800) 762-1084	Website: www.chauvetprofessional.com
Chauvet U.K.	
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Lerma, Edo. de México, CP 52000	
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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, France, Germany, Benelux, or Mexico, contact the dealer of record.