

OVATION

F-265WW

User Manual



Model ID: OVATIONF265WW

Edition Notes

The Ovation F-265WW User Manual includes a description, safety precautions, installation, programming, operation and maintenance instructions for the Ovation F-265WW 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 F-265WW 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 F-265WW
- Neutrik® powerCON® power cord
- Gel frame
- 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 the 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 power connections in this manual assumes the use of Neutrik® powerCON® cables.



The term “DMX” used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.

FCC Statement of 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.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure Warning for North America and Australia

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

Expected LED Lifespan

Over time, use and heat will gradually reduce LED brightness. Clustered LEDs produce more heat than single LEDs, contributing to shorter lifespans if always used at full intensity. The average LED lifespan is 40,000 to 50,000 hours. To extend LED lifespan, maintain proper ventilation around the product, and limit the overall intensity.

Safety Notes

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



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



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

- The luminaire is intended for professional use only.
- The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 10 ft (3 m) is not expected.
- If the external flexible cable or cord of this luminaire is damaged, it shall be replaced by a special cord or cord exclusively available from the manufacturer or its service agent.
- The light source contained in this luminaire shall only be replaced by the manufacturer or its service agent or a similar qualified person.
- **CAUTION:**
 - This product's housing may be hot when operating. Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
 - When transferring the product from extreme temperature environments, (e.g., cold truck to warm humid ballroom) condensation may form on the internal electronics of the product. To avoid causing a failure, allow the product to fully acclimate to the surrounding environment before connecting it to power.
 - Flashing light is known to trigger epileptic seizures. User must comply with local laws regarding notification of strobe use.
- **ALWAYS:**
 - Disconnect from power before cleaning the product or replacing the fuse.
 - 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 1.64 ft (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 (adhere to standards for the published IP rating).
- **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 -14°F (-10°C). Do not start the product at lower temperatures.
- To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.
 - In the event of a serious operating problem, stop using immediately



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

2. Introduction

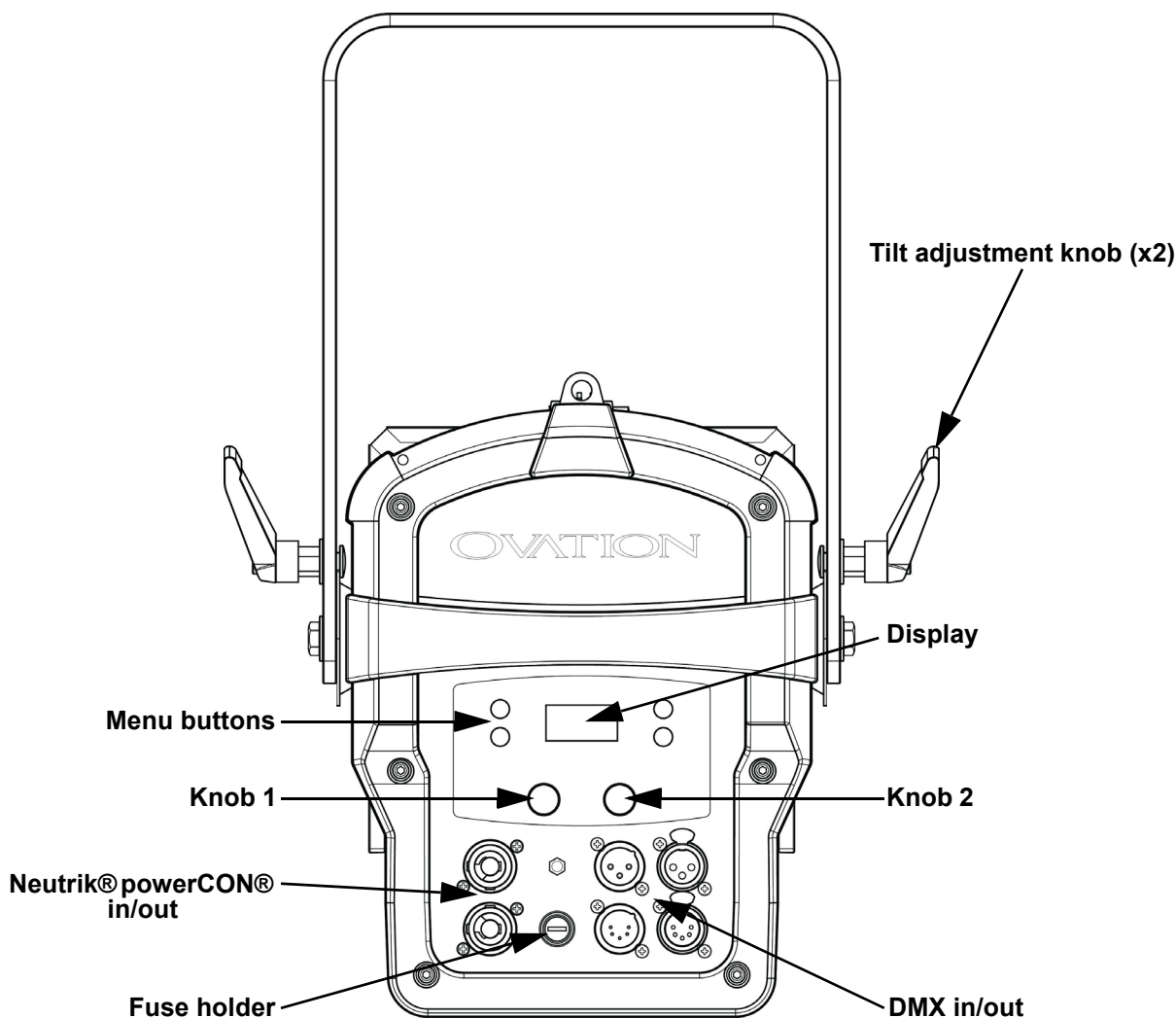
Description

The Ovation F-265WW is a warm white Fresnel-style LED lighting fixture with 16-bit dimming resolution for smooth fades. It delivers a beautiful flat, even field of light. Its motorized zoom, with a range between 16° and 68°, can be controlled either manually or via DMX. Simple and complex DMX channel profiles offer programming versatility. Virtually quiet operation makes it ideal for use in any situation.

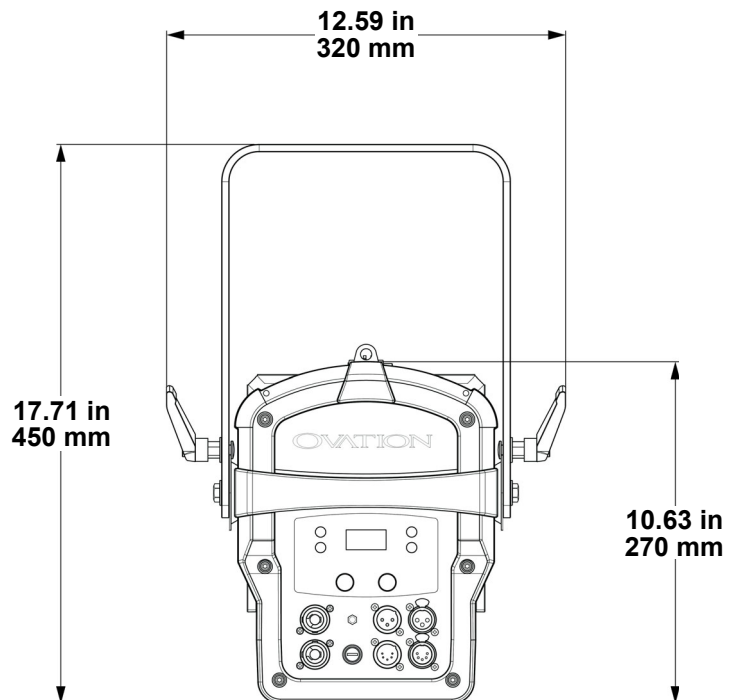
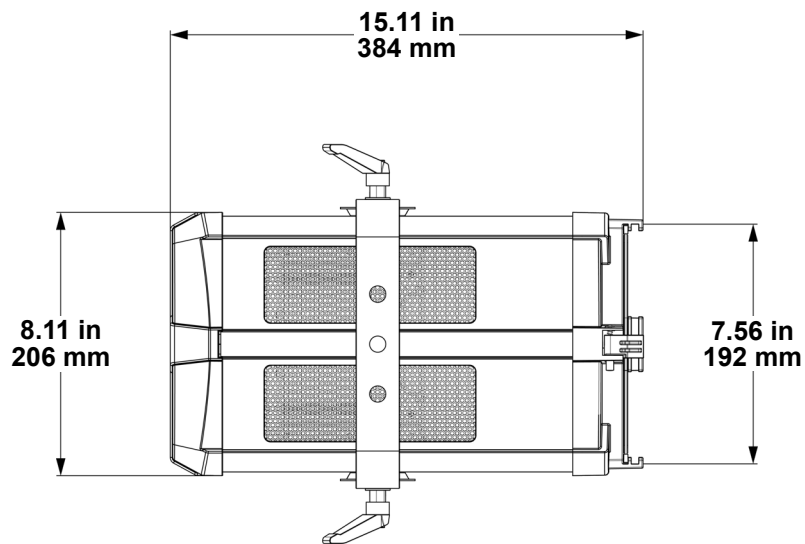
Features

- Operating modes:
 - 1Ch: 8bit Dim: dimmer control
 - 2Ch: 16bit Dim: dimmer and fine dimmer control
 - 2Ch: 8bit Dim+Zoom: dimmer and zoom control
 - 6Ch: 16bit-Full: dimmer, fine dimmer, zoom, strobe, motor reset, and control
- Warm white Fresnel with output comparable to an 8", 2,000 W Fresnel
- 16-bit dimming resolution for smooth fades
- Soft and even field of light
- Virtually silent operation for use in any situation
- Motorized zoom range between 16° and 68°, manually or via DMX

Product Overview



Product Dimensions



3. Setup

AC Power

Each Ovation F-265WW 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-265WW, 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-265WW 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

It is possible to power link Ovation F-265WW products. See the table below for the current draw at each voltage and frequency:

	100 V, 60 Hz	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz	240 V, 60 Hz
Current Draw	2.26 A	1.84 A	1.10 A	1.01 A	1.02 A

Never exceed 15A on a single circuit. Power-linking cables can be purchased separately.

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 (T3 15A, 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-265WW can be linked to a DMX controller using a 3- or 5-pin DMX connection. If using other DMX-compatible products with this product, each can be controlled individually with a single DMX controller.

DMX Personalities

The Ovation F-265WW uses a 3- or 5-pin DMX data connection for the **1Ch: 8bit Dim**, **2Ch: 16bit Dim**, **2Ch: 8bit Dim+Zoom**, and **6Ch: 16bit-Full** DMX personalities.

- Refer to the [Introduction](#) chapter for a brief description of each DMX personality.
- Refer to the [Operation](#) chapter to learn how to configure the Ovation F-265WW to work in these personalities.
- The [DMX Values](#) section provides detailed information regarding the control 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 F-265WW supports RDM protocol that allows feedback to make changes to menu map options.

Master/Slave Connectivity

The Master/Slave mode allows an Ovation F-265WW (the master) to control one or more Ovation F-265WW products (the slaves) without a DMX controller. One Ovation F-265WW becomes the master when running an auto program, or by being 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 [FCC Statement of Compliance](#). For the 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

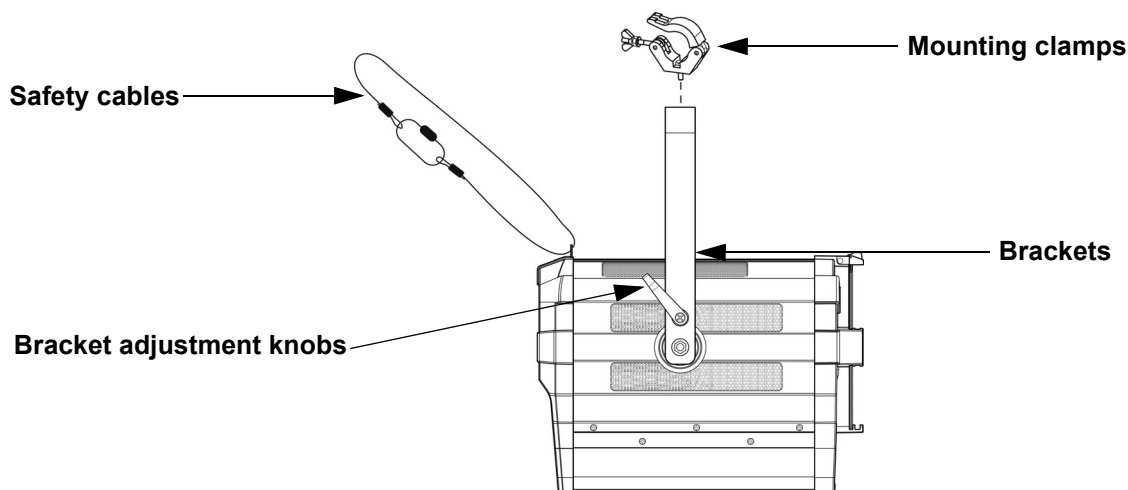
Chauvet recommends using the following general guidelines when mounting this product.

- 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 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-265WW comes with a bracket to which a mounting clamp (sold separately) can be directly attached. Make sure the clamps are capable of supporting the weight of this product. Use at least one mounting point per product. For the Chauvet Professional line of mounting clamps, go to: <http://www.trusst.com/products>.

Mounting Diagram



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
Knob 1	Push then turn to increase or decrease the dimmer
Knob 2	Push then turn to increase or decrease the zoom

Control Options

Set the Ovation F-265WW starting address in the 001–512 DMX range. This enables control of up to 102 products in the 5-channel **6Ch: 16bit-Full** 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 the selected value or the first option of the next programming level.
- Press <MENU> repeatedly to exit to the previous main level.

DMX Configuration

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

Control Personalities

This setting allows the user to choose a particular control personality.

- Go to the DMX **Personality** main level.
- Select the desired personality (see table below).

Personality	Channels
1Ch: 8bit Dim	1
2Ch: 16bit Dim	2
2Ch: 8bit Dim+Zoom	2
6Ch: 16bit-Full	6



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

Starting Address

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

- Go to the **DMX Address** main level.
- Select the starting address (**001–512**).

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

Personality	Address
1Ch: 8bit Dim	512
2Ch: 16bit Dim	511
2Ch: 8bit Dim+Zoom	511
6Ch: 16bit-Full	507

Menu Map

Refer to the Ovation F-265WW 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 Personality	1Ch: 8bit Dim		1-channel: 8-bit dimmer
	2Ch: 16bit Dim		2-channel: 16-bit dimmer
	2Ch: 8bit Dim+Zoom		2-channel: 8-bit dimmer, zoom
	6Ch: 16bit-Full		6-channel: 16-bit dimmer, zoom, strobe, motor reset, control
Static	Dimmer	0–255	Controls intensity
	Zoom	0–255	Controls zoom
	Strobe	0–255	Controls strobe rate
Master/Slave	Master		Master mode
	Slave		DMX mode (Slave)
Dimmer Curve	Linear		Sets the dimmer curve
	Square		
	I Square		
	SCurve		
Dimmer Mode	Off		Linear dimmer
	Dimmer 1–3		Dimming curves Dimmer 1 (fast) to Dimmer 3 (slow)
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		Turns the fan 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		Resets zoom settings when product is turned off
	Yes		
Factory Reset	No		Resets the product to factory default settings
	Yes		

DMX Values

6Ch: 16bit-Full

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100%
2	Dimmer fine	000 ⇔ 255	0–100%
3	Zoom	000 ⇔ 255	0–100%
4	Strobe	000 ⇔ 009	Open
		010 ⇔ 099	Strobe, slow to fast
		100 ⇔ 109	Open
		110 ⇔ 179	Lightning effect, slow to fast
		180 ⇔ 189	Open
		190 ⇔ 255	Random strobe, slow to fast
5	Motor reset	000 ⇔ 200	No function
		201 ⇔ 220	Motor reset
		221 ⇔ 255	No function
6	Control (hold for 3 seconds, then release)	000 ⇔ 007	No function
		008 ⇔ 015	Dimmer reset
		016 ⇔ 023	Dimmer: S-Curve
		024 ⇔ 031	Dimmer: linear
		032 ⇔ 039	Dimmer: square
		040 ⇔ 047	Dimmer: inverted square
		048 ⇔ 055	Dimmer speed mode off
		056 ⇔ 063	Dimmer speed mode 1
		064 ⇔ 071	Dimmer speed mode 2
		072 ⇔ 079	Dimmer speed mode 3
		080 ⇔ 087	Fan auto
		088 ⇔ 095	Fan on
		096 ⇔ 103	Fan off
		104 ⇔ 111	Fan silent
		112 ⇔ 255	No function (reserved)

2Ch: 8bit Dim+Zoom

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

2Ch: 16bit Dim

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

1Ch: 8bit Dim

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

Standalone Configuration

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

Static Mode

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

1. Go to the **Static** main level.
2. Select **Dimmer**, **Zoom**, or **Strobe**.
3. Select the desired value (**0–255**).

Master/Slave

The Master/Slave mode allows a group of Ovation F-265WW products (the slaves) to simultaneously duplicate the output of another Ovation F-265WW (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 Square**, or **SCurve**).

Dimmer Profiles

This setting determines how fast the output of the Ovation F-265WW changes when the output value is modified. This setting 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, DIM1 being the fastest.

LED Frequency

This option changes the Pulse Width Modulation (PWM) frequency of the LEDs on the Ovation F-265WW.

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-265WW is set.

1. Go to the **Fan Mode** main level
2. Select **Auto** (fan speed will increase or decrease based on product temperature), **On** (fan speed will always be at maximum), or **Off** (fan will always be off).



NOTICE: 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.



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-265WW'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** (20 seconds), **2Min** (2 minutes), or **Always On** (remains on).

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**, **LED Hours**, **Version**, or **UID**.

Zoom Reset

This setting determines whether the zoom resets when power is applied to the Ovation F-265WW.

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

Factory Reset

This option restores the Ovation F-265WW 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.



Do not spin the cooling fan using compressed air. Doing so could damage it.

6. Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
15.11 in (384 mm)	12.59 in (320 mm)	17.71 in (450 mm)	17.2 lb (7.9 kg)

Note: Dimensions in inches rounded to the nearest decimal digit.

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	226 W	222 W	231 W	230 W	232 W
Operating Current	2.26 A	1.84 A	1.10 A	1.01 A	1.02 A
Power-linking current (products)	13.6 A (6 products)	13.6 A (7 products)	13.6 A (12 products)	13.6 A (13 products)	13.6 A (13 products)

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

Light Source

Type	Color	Quantity	Power	Current	Lifespan
LED	Warm white	1	230 W	3.6 A	50,000 hours

Photometrics

Parameter	Value
Strobe rate	0 to 30 Hz
Color temperature (at full)	3142 K
Beam angle	16° to 46°
Field angle	27° to 68°
Zoom range	16° to 68°
Illuminance @ 5 m (27°)	4,010 lux
Illuminance @ 5 m (59°)	1,162 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, 2, or 6

Ordering

Product Name	Item Name	Item Code	UPC Number
Ovation F-265WW	OVATIONF265WW	03031388	781462217365



Contact Us

General Information	Technical Support
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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.