

OVATION

P-56WW

User Manual



Model ID: OVATIONP56WW-2

Edition Notes

The Ovation P-56WW-2 User Manual includes a description, safety precautions, installation, programming, operation, and maintenance instructions for the Ovation P-56WW-2 as of the release date of this edition.

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Document Printing

For best results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure the printer to scale the content accordingly.

Intended Audience

Any person installing, operating, and/or maintaining this product should completely read through the guide that shipped with the product, as well as this manual, before installing, operating, or maintaining this product.

Disclaimer

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Document Revision

Go to www.chauvetprofessional.com for the latest version.

Revision	Date	Description
8	2/2025	Updated Current draw amperage

TABLE OF CONTENTS

1. Before You Begin	1
What Is Included	1
Claims	1
Manual Conventions	1
Symbols	1
Safety Notes.....	2
FCC Statement of Compliance	3
Expected LED Lifespan.....	3
2. Introduction	4
Features	4
Product Overview.....	5
Product Dimensions	6
3. Setup	7
AC Power	7
AC Plug	7
Power Linking.....	7
Fuse Replacement.....	7
DMX Linking.....	7
DMX Personalities.....	7
Remote Device Management.....	7
Master/Slave Connectivity.....	8
Mounting	9
Orientation.....	9
Rigging	9
Procedure.....	9
Alternate Lens Changing Procedure	10
4. Operation	11
Control Panel Operation.....	11
Control Options	11
Programming.....	11
DMX Configuration	11
Control Personalities	11
Starting Address.....	11
Menu Map	12
DMX Values	13
Standalone Configuration.....	14
Static Mode	14
Auto Programs	14
Master/Slave	14
Dimmer Curve	14
Dimmer Profiles.....	14
LED Frequency	14
Fan Mode	15
Back Light	15
System Information	15
Factory Reset.....	15
Error Codes.....	15
5. Maintenance.....	16
Product Maintenance	16
6. Technical Specifications	17

Contact Us 18
 Warranty & Returns..... 18

Before You Begin

1. Before You Begin

What Is Included

- Ovation P-56WW-2
- Gel frame (7.5 in/191 mm accessories)
- Seetronic Powerkon IP65 power cable
- Wide, medium, and narrow lenses
- Quick Reference Guide

Claims

Carefully unpack the product immediately and check the container to make sure all the parts are in the package and are in good condition.





If the box or the contents (the product and included accessories) appear damaged from shipping, or show signs of mishandling, notify the carrier immediately, not Chauvet. Failure to report damage to the carrier immediately may invalidate a claim. In addition, keep the box and contents for inspection.

For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with Chauvet within 7 days of delivery.

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.

Connection of the control signal: DMX line

- The product has XLR sockets for DMX input and output.
- **Notice:** This control circuit is isolated and belongs to the Class 2 data port. The control circuit has a cumulative leakage current of less than 3.5 mA.

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 (3.0 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:**
 - Use a safety cable when mounting this product overhead.
 - Connect this product to a grounded and protected circuit.
- **DO NOT:**
 - Open this product. It contains no user-serviceable parts.
 - Look at the light source when the product is on.
 - Leave any flammable material within 50 cm of this product while operating or connected to power.
 - Connect this product to a dimmer or rheostat.
 - Operate this product if the housing, lenses, or cables appear damaged.
 - ONLY use the hanging/mounting bracket to carry this product.
 - The maximum ambient temperature is 113 °F (45 °C). Do not operate this product at higher temperatures.
 - The minimum startup temperature is -4°F (-20°C). Do not start the product at lower temperatures.
 - The minimum ambient temperature is -22°F (-30°C). Do not operate the product at lower temperatures.
 - To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.
 - In the event of a serious operating problem, stop using immediately.



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

Before You Begin

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.

Expected LED Lifespan

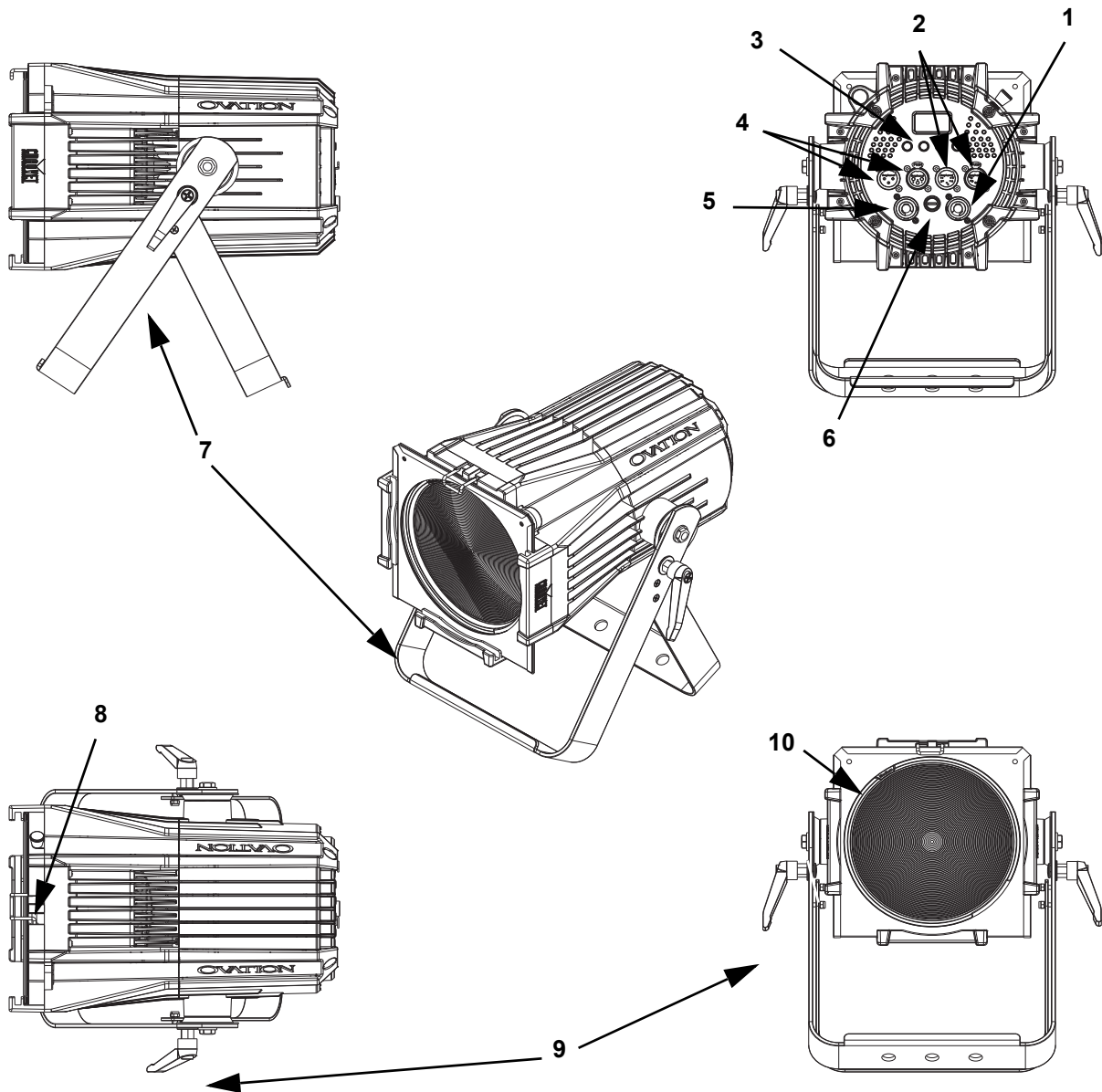
LEDs gradually decline in brightness over time, primarily because of heat. LEDs that are arranged in clusters experience higher operating temperatures than single LEDs. For this reason, operating clustered LEDs at their fullest intensity significantly reduces the LEDs' lifespan. Under normal conditions, 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

Features

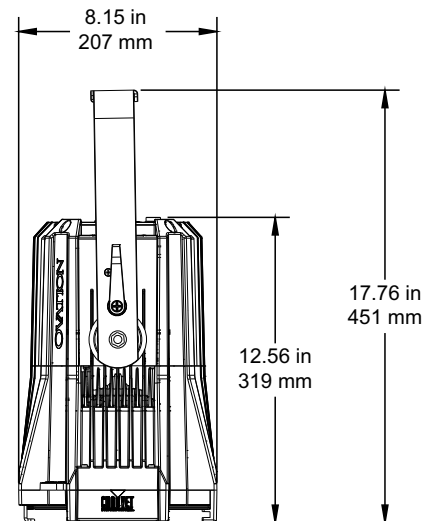
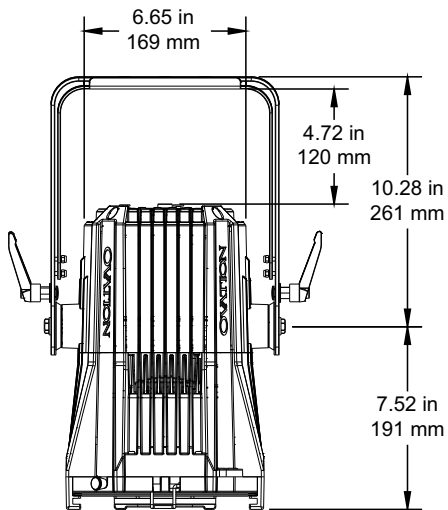
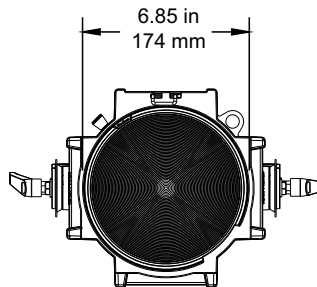
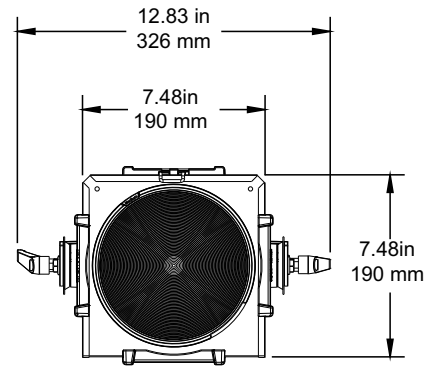
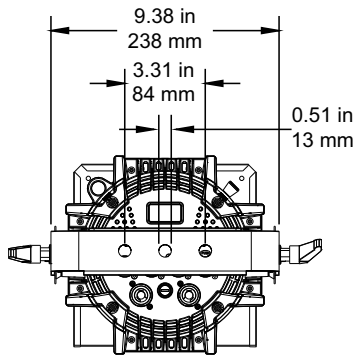
- Warm white PAR style fixture with output comparable to a 1,000 W PAR 64 lamp
- Interchangeable lens plates included for wide, medium, and narrow beam angles
- Compact design with homogenous single source of light
- Flat, even field of light
- Quiet operation for use in any situation with fan speed control
- RDM and variable Pulse Width Modulation for setup ease
- Accepts standard 7.5" beam shaping accessories
- 16-bit dimming resolution for smooth fades

Product Overview



#	Name	#	Name
1	Power out	6	Fuse
2	5-pin DMX in/out	7	Bracket
3	Menu buttons	8	Gel frame holder clip
4	3-pin DMX in/out	9	Tilt adjustment handle
5	Power in	10	Gel frame

Product Dimensions



3. Setup

AC Power

Each Ovation P-56WW-2 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 P-56WW-2, refer to the label affixed to the product or 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 P-56WW-2 comes with a power input cord terminated with a Neutrik powerCON 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 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 P-56WW-2 products. See the table below for the current draw at each voltage and frequency:

	100 V, 50 Hz	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz	240 V, 50 Hz
Current Draw	2.28 A	1.81 A	1.02 A	0.92 A	0.89 A

Never exceed 13.6 A on a single circuit. Power-linking cables can be purchased separately.

Fuse Replacement

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

DMX Linking

It is possible to link the Ovation P-56WW-2 to a DMX controller using a 3- or 5-pin DMX connection. If using other DMX-compatible products with this product, each single DMX controller can be controlled individually.

DMX Personalities

The Ovation P-56WW-2 uses a 3- or 5-pin DMX data connection for the **1 Ch**, **2 Ch**, **3 Ch**, and **6 Ch** 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 P-56WW-2 to work in these personalities.
- The [DMX Values](#) section provides detailed information regarding the DMX personalities.

Remote Device Management

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 P-56WW-2 supports RDM protocol that allows feedback to make changes to menu map options.

Master/Slave Connectivity

The Master/Slave mode allows a Ovation P-56WW-2 (the master) to control one or more Ovation P-56WW-2 products (the slaves) without a DMX controller. One Ovation P-56WW-2 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.
- For more information with DMX standards or Master/Slave connectivity, download the DMX Primer from the Chauvet website www.chauvetprofessional.com for more information.

Mounting

Before mounting the product, read and follow the safety recommendations indicated in the Safety Notes. 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

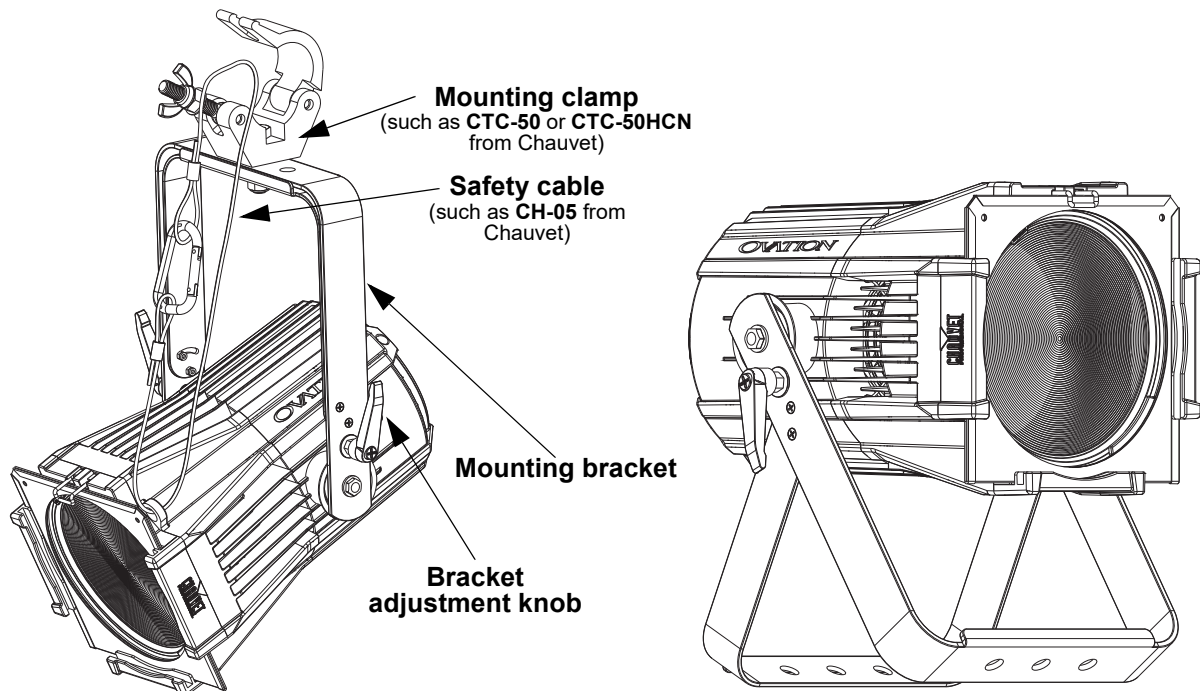
Chauvet recommends using the following general guidelines when mounting this product.

- 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 and attachment points can support the weight before hanging the product (see the [Technical Specifications](#) for weight information).
- When mounting the product overhead, always use a safety cable. Mount the product securely to a rigging point, whether an elevated platform or a truss.
- When 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 P-56WW-2 comes with a double-bracketed yoke to which mounting clamps (sold separately) can be attached for hanging or simply used as a floor stand. 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



Alternate Lens Changing Procedure

The Ovation P-56WW-2 has the ability to have different types of lenses installed. The interchangeable lenses allow the product to have alternate beam angles.

To remove a lens:

1. Pull knob up.
2. Grab the Tab on the lens and pull it out of the fixture.



Diffusion filter media (gel) attached to the fixture behind the lens may stick to the lens being removed. Use caution when removing to prevent damage to the diffusion gel.

To install a lens:

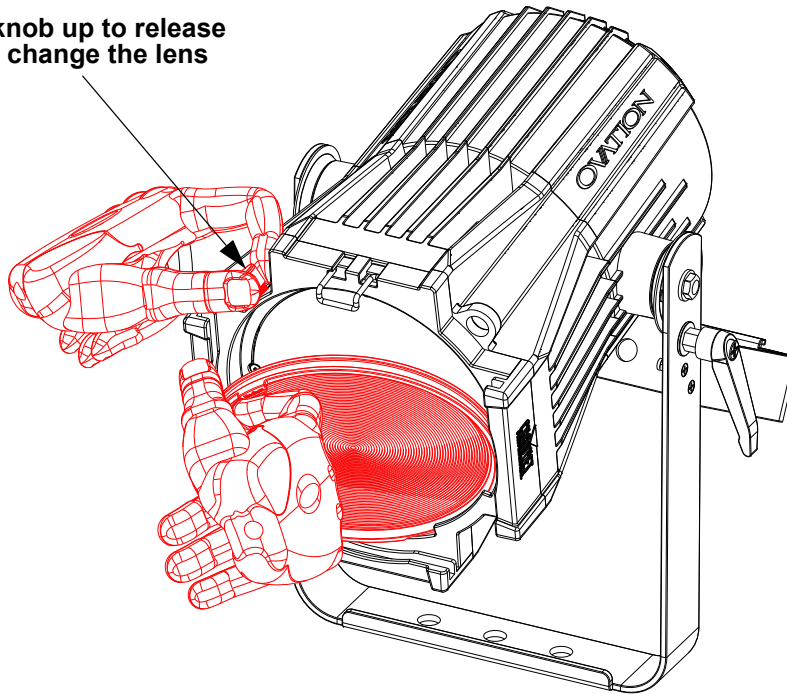
1. Pull knob up.
2. Insert the bottom of the lens at approx the 5 o'clock position with the lens tab located at the 11 o'clock position.
3. Push the top of the lens in and release the knob..



The lens type is molded into the tab.

Mounting Diagram

**Pull knob up to release
and change the lens**



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 P-56WW-2 starting address in the 001–512 DMX range. This enables control of up to 15 products in the 6-channel **6 Ch** personality.

Programming

Refer to the menu map to understand the menu options. The menu map shows the main menu and a variable number of programming levels for each option.

- To access the main menu, press <MENU>.
- To navigate to the desired option in the main menu, press <MENU> repeatedly until the option is indicated, or use <UP> or <DOWN> to navigate directly.
- Press <ENTER> to select the indicated option.
- Use <UP> or <DOWN> to navigate within a programming level until the desired option is indicated.
- To return to the main menu, press <MENU> repeatedly until it shows on the display.
- Press and hold <MENU> to return to the home screen.

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.

1. Go to the **DMX Channel** main level.
2. Select the desired personality (**1 Ch**, **2 Ch**, **3 Ch**, or **6 Ch**).



- See the [Starting Address](#) section for the highest starting address available 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.

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

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

Personality	Address
1 Ch	512
2 Ch	511
3 Ch	510
6 Ch	507

Menu Map

Refer to the Ovation P-56WW-2 product page on www.chauvetprofessional.com for the latest software and menu map.

Main Level	Programming Levels		Description
DMX Address	001–512*		Selects DMX address (highest channel restricted to personality chosen)
DMX Channel	1 Ch		1-channel: dimmer
	2 Ch		2-channel: 16-bit dimmer, dimmer
	3 Ch		3-channel: 16-bit dimmer, dimmer, strobe
	6 Ch		6-channel: 16-bit dimmer, dimmer, strobe, auto programs, auto speed, control
Static	Dimmer	000–255	Controls intensity
	Strobe		Controls strobe rate
Auto Show	Auto 1	001–100	Selects automatic programs and auto program speed
	Auto 2		
	Auto 3		
Master/Slave	Master		DMX mode (Master)
	Slave		Slave mode
Dimmer Curve	S-Curve Linear Square Inverse Square		Sets the dimmer curve
Dimmer Mode	Off		Linear dimmer
	Dimmer 1–3		Dimming curves Dimmer 1 (fast) to Dimmer 3 (slow)
LED Frequency	600Hz 1200Hz 2000Hz 4000Hz 6000Hz 25KHz		Sets the PWM frequency
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 120 seconds 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
Factory Reset	No		Resets the product to factory default settings
	Yes		

DMX Values

1 Ch	2 Ch	3 Ch	6 Ch	Function	Value	Percent/Setting
1	1	1	1	Dimmer	000 ⇔ 255	0–100%
–	2	2	2	Dimmer fine	000 ⇔ 255	0–100%
–	–	3	3	Strobe	000 ⇔ 010 011 ⇔ 255	No function Strobe, slow to fast
–	–	–	4	Auto programs	000 ⇔ 010 011 ⇔ 085 086 ⇔ 170 171 ⇔ 255	No function Auto program 1 Auto program 2 Auto program 3
–	–	–	5	Auto speed	000 ⇔ 255	0–100%
–	–	–	6	Control (hold for 3 seconds, then release)	000 ⇔ 007 008 ⇔ 015 016 ⇔ 023 024 ⇔ 031 032 ⇔ 039 040 ⇔ 047 048 ⇔ 055 056 ⇔ 063 064 ⇔ 071 072 ⇔ 079 080 ⇔ 087 088 ⇔ 095 096 ⇔ 103 104 ⇔ 111 112 ⇔ 255	No function Dimmer reset Dimmer: S-Curve Dimmer: linear Dimmer: square Dimmer: inverted square Dimmer speed mode off Dimmer speed mode 1 Dimmer speed mode 2 Dimmer speed mode 3 Fan auto Fan on Fan off Fan silent No function (reserved)

Standalone Configuration

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

Static Mode

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

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

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



The auto programs cannot be edited.

Master/Slave

The Master/Slave mode allows a group of Ovation P-56WW-2 products (the slaves) to simultaneously duplicate the output of another Ovation P-56WW-2 (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.
- 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**, **Inverse Square**, or **S-Curve**).

Dimmer Profiles

This setting determines how fast the output of the Ovation P-56WW-2 changes when 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, **Dimmer 1** being the fastest.

LED Frequency

This option changes the Pulse Width Modulation (PWM) frequency of the LEDs on the Ovation P-56WW-2.

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 P-56WW-2 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).



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.



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.

Back Light

This setting allows for selection of the amount of time the backlight on the Ovation P-56WW-2'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 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**.

Factory Reset

This option restores the Ovation P-56WW-2 to factory default settings.

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

Error Codes

See the table below for error codes and recommended solutions:

Error Code	Possible Reason	Potential Solution
Temperature shows -40°C	The thermistor is not welded properly	Replace the board or weld the thermistor
	The temperature control wire is not connected or has a poor connection	Check the wire connection
Temperature shows 125°C	The thermistor is not welded properly	Replace the board or weld the thermistor
	The temperature control shortcircuited	Check the temperature control wire connector

5. Maintenance

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
12.48 in (317 mm)	12.83 in (326 mm)	14.0 in (363 mm)	11.6 lb (5.3 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	210 W	205 W	197 W	195 W	194 W
Operating current	2.28 A	1.81 A	1.02 A	0.92 A	0.89 A
Power-linking current (products)	13.6 A (5 products)	13.6 A (7 products)	13.6 A (13 products)	13.6 A (14 products)	13.6 A (15 products)
Fuse	T 3.15 A, 250 V	T 3.15 A, 250 V	T 3.15 A, 250 V	T 3.15 A, 250 V	T 3.15 A, 250 V

Power I/O	U.S./Canada	Worldwide
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	Power	Current
LED	Warm White	230 W	3.2 A

Quantity	Color Temperature	CRI	Lifespan
1	3228 K	97.9	50,000 hours

Photometrics

Parameter	Narrow Lens	Medium Lens	Wide Lens
Beam angle	11.8°	23.9°	70.9°
Field angle	26.6°	40°	106°
Lumens	10,326	10,728	10,687
Illuminance @ 5 m	5,468 lux	2,264 lux	363 lux

Thermal

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

DMX

I/O Connector	Channel Range
3- and 5-pin XLR	1, 2, 3, or 6 channels

Ordering

Product Name	Item Name	Item Code	UPC Number
Ovation P-56WW-2	OVATIONP56WW	03031475	781462218232



RoHS



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.