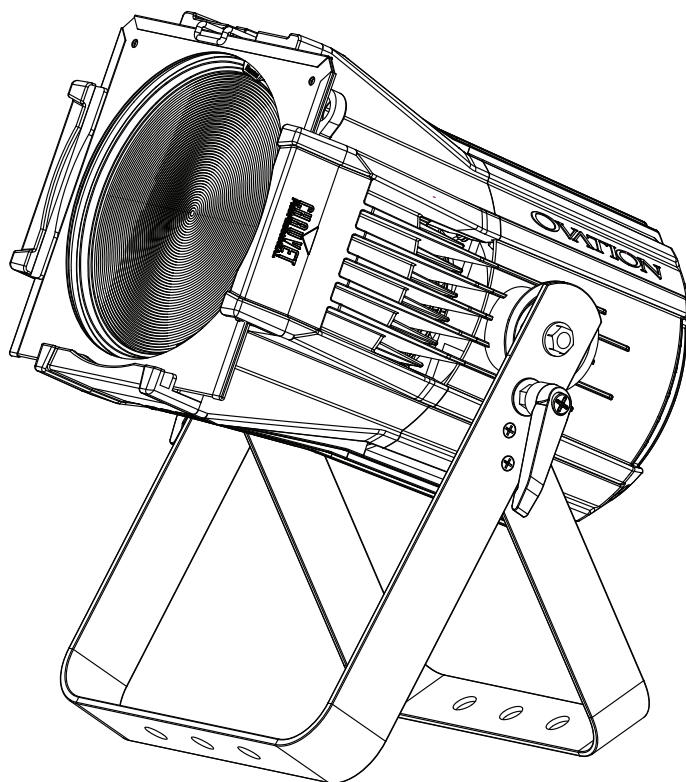


# Ovation

## P-56FC

### User Manual



  
**CHAUVET**  
PROFESSIONAL

## EDITION NOTES

The Ovation P-56FC User Manual includes a description, safety precautions, installation, programming, operation, and maintenance instructions for the Ovation P-56FC.

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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, and this manual, before installing, operating, or maintaining this product.

### Disclaimer

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### FCC Compliance

This device complies with Part 15 Part B of the FCC Rules. Operation is subject to the following 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.

### Document Revision

This Ovation P-56FC User Manual is the 5<sup>th</sup> edition of this document. Go to [www.chauvetprofessional.com](http://www.chauvetprofessional.com) for the latest version.

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# 1. BEFORE YOU BEGIN

## What Is Included

- Ovation P-56FC
- Gel frame holder (7.5 in/191 mm accessories)
- Neutrik® powerCON® power cord
- Medium and wide 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 your claim. In addition, keep the box and contents for inspection.

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

## Manual Conventions

| Convention         | Meaning                                         |
|--------------------|-------------------------------------------------|
| <b>1–512</b>       | A range of values                               |
| <b>50/60</b>       | A set of values of which only one can be chosen |
| <b>&lt;SET&gt;</b> | A button on the product's control panel         |
| <b>Settings</b>    | 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.

## Safety Notes

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



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



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

## Personal Safety

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

## Mounting and Rigging

- DO NOT operate this product outdoors or in any location where dust, excessive heat, water, or humidity may affect it. (IP20).
- 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.
- Make sure there are no flammable materials close to the product when operating.
- When hanging this product, always secure to a fastening device using a safety cable.

## Power and Wiring

- Always make sure you are connecting the product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- Never connect the product to a dimmer pack or rheostat.
- Never disconnect this product by pulling or tugging on the power cable.

## Operation

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



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

## Expected LED Lifespan

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

## 2. INTRODUCTION

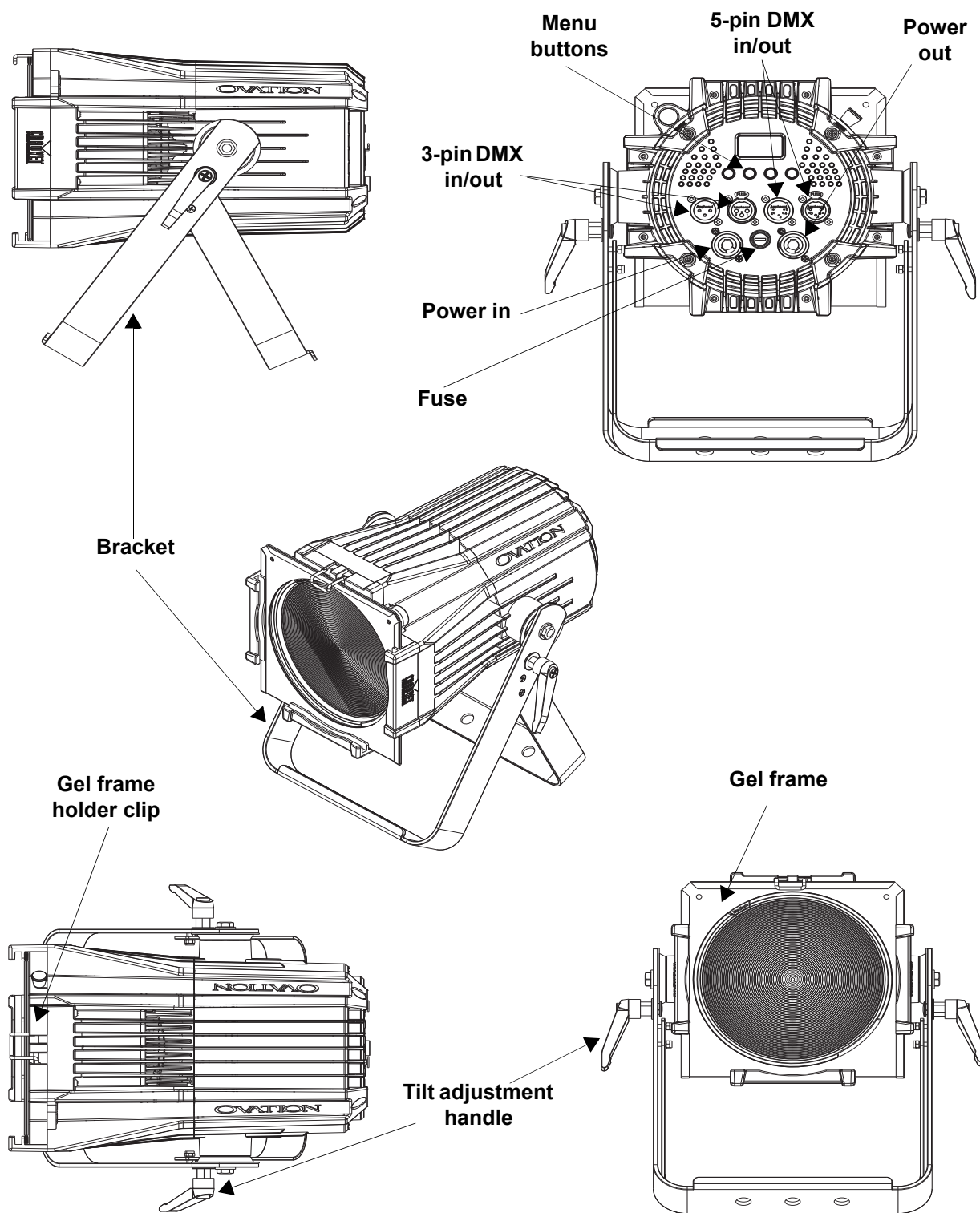
### Description

The Ovation P-56FC is a compact, silent par that produces a homogenized, single-source, flat field of light with high CRI. The bright product utilizes the same advanced full color-mixing RGBAL LED system found in the popular Ovation E-910FC ellipsoidal. Interchangeable lens plates are included for medium and wide beam angles, and the unit accepts standard 7.5" beam shaping accessories. Designed for theatrical and studio applications, the Ovation P-56FC features extremely smooth 16-bit dimming, and RDM and PWM for ease of setup.

### Features

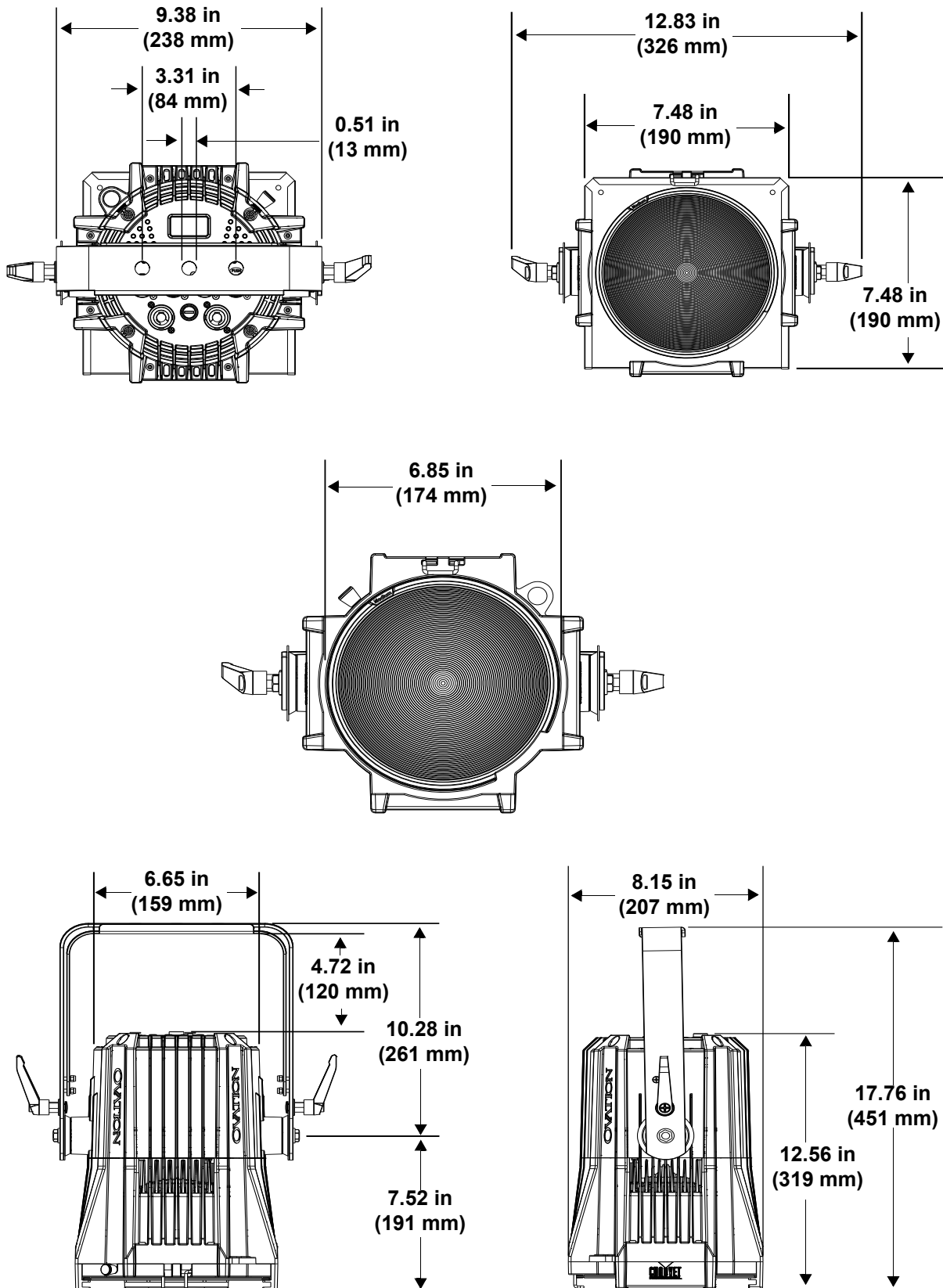
- Operating modes:
  - 1-Ch: dimmer
  - 3-Ch: dimmer, Virtual Color Wheel, color temperature
  - 5-Ch: RGBAL control
  - 7-Ch: RGBAL control, strobe
  - 10-Ch: 16-bit dimmer, RGBAL control, strobe, Virtual Color Wheel, color temperature
  - 12-Ch: dimmer, RGBAL control, strobe, Virtual Color Wheel, color temperature, auto programs, auto speed, and dimmer speed mode
  - 13-Ch: 16-bit dimmer, 16-bit RGBAL control, strobe
  - 15-Ch: 16-bit dimmer, 16-bit RGBAL control, strobe, Virtual Color Wheel, color temperature, HSV: hue, saturation, value
- Full color PAR style fixture with homogenized single source of light
- Interchangeable lens plates included for medium and wide beam angles
- 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





## Product Dimensions



## 3. SETUP

### AC Power

Each Ovation P-56FC 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-56FC, refer to the label affixed to the product. You can also refer 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](http://www.chauvetprofessional.com).



- **Always connect the product to a protected circuit (e.g., 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-56FC 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 your product has no plug, or if you need to change the plug, use the table below to wire the new plug.

| Connection | Wire (U.S.)  | Wire (Europe) | Screw Color  |
|------------|--------------|---------------|--------------|
| AC live    | Black        | Brown         | Yellow/brass |
| AC neutral | White        | Blue          | Silver       |
| AC ground  | Green/yellow | Green/yellow  | Green        |

### Power Linking

The product supports power linking. You can power link up to 9 products at 120 V; up to 16 at 208 V; or up to 17 at 230 V. This product comes with a power input cord. Power-linking cables are available from Chauvet for purchase.

### DMX Linking

You can link the Ovation P-56FC to a DMX controller using a 3- or 5-pin DMX connection. If using other DMX-compatible products with this product, you can control each individually with a single DMX controller.

### DMX Personalities

The Ovation P-56FC uses a 3- or 5-pin DMX data connection for the **1-Ch, 3-Ch, 5-Ch, 7-Ch, 10-Ch, 12-Ch, 13-Ch, 15-Ch**, and **HSV** DMX personalities.

- Refer to the Introduction for a brief description of each DMX personality.
- Refer to the Operation chapter to learn how to configure the Ovation P-56FC to work in these personalities.
- The DMX Values section provides detailed information regarding the DMX personalities.

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

### Master/Slave Connectivity

The Master/Slave mode allows a Ovation P-56FC (the master) to control one or more Ovation P-56FC products (the slaves) without a DMX controller. One Ovation P-56FC becomes the master when running an auto or custom program, or by being in a Static mode.

You must configure each slave's control panel 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.
- If you are not familiar with DMX standards or Master/Slave connectivity, download the DMX Primer from the Chauvet website [www.chauvetprofessional.com](http://www.chauvetprofessional.com) for more information.

## Mounting

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

## Orientation

Always mount this product in a safe position, making sure there is adequate room for ventilation, configuration, and maintenance.

## Rigging

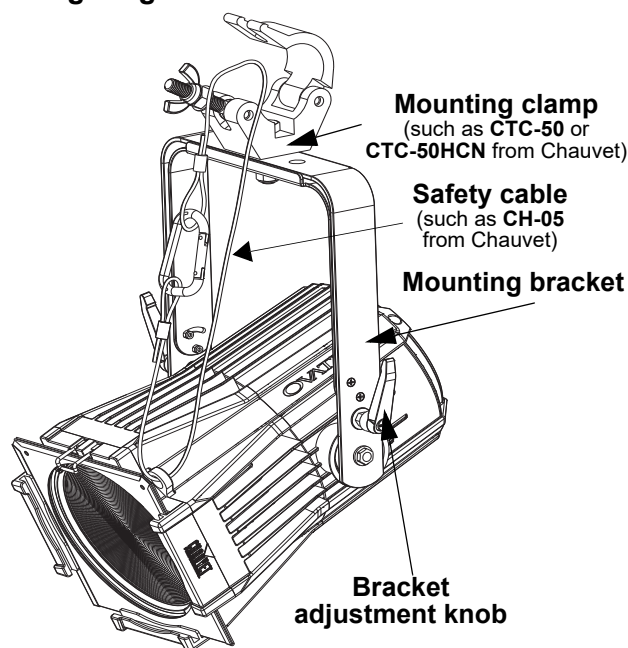
Chauvet recommends using the following general guidelines when mounting this product.

- Before deciding on a location for the product, make sure there is easy access to the product for maintenance and programming purposes.
- Make sure that the structure onto which you are mounting the product 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.

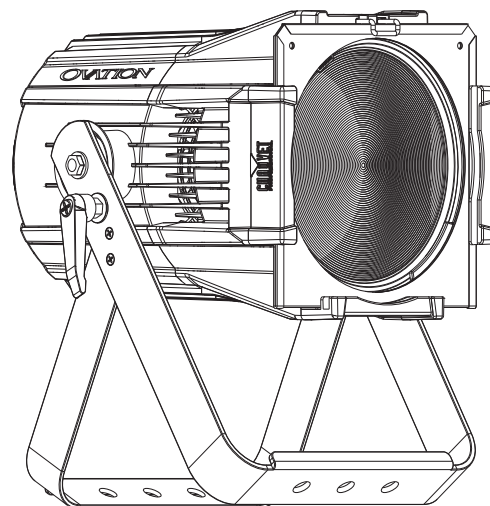
## Procedure

The Ovation P-56FC comes with a double-bracketed yoke to which you can either attach mounting clamps for hanging or simply use as a floor stand. You must supply the mounting clamps. 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



**Overhead Mounting**



**Floor Mounting**

## Alternate Lens Changing Procedure

The Ovation P-56FC 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:

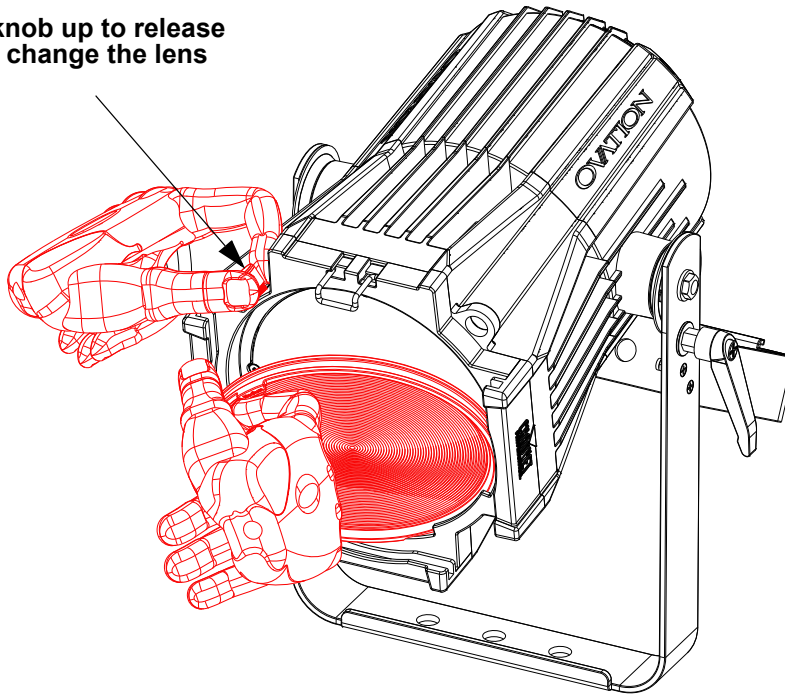
1. Pull knob up.
2. Insert the bottom of the lens at approx the 5 o'clock position with the lens tab located at the 11 o'clock position.
3. Push the top of the lens in and release the knob..



**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-56FC starting address in the 001–512 DMX range. This enables control of up to 34 products in the 15-channel **15-Ch** personality.

### Programming

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

- To go to the desired main level, press <MENU> repeatedly until the option shows on the display. Press <ENTER> to select. This will take you to the first programming level for that option.
- To select an option or value within the current programming level, press <UP> or <DOWN> until the option shows on the display. Press <ENTER> to select. In this case, if there is another programming level, you will see that first option, or you will see the selected value.
- Press <MENU> repeatedly to exit to the previous main level.

### Menu Map

| Main Level   | Programming Levels |                     |          |                                   | Description                                                                                                             |
|--------------|--------------------|---------------------|----------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| DMX Address  | Address            |                     | 001-512* |                                   | Selects DMX address (*highest channel restricted to personality chosen)                                                 |
| DMX Channels | 1-Ch               | Virtual Color Wheel |          | < _ _ _ _ >                       | 1-channel: dimmer.<br>See <a href="#">Virtual Color Wheel Chart</a>                                                     |
|              |                    | Color Temperature   |          | < _ _ _ _ >                       | See <a href="#">Preset Color Temperature Chart</a>                                                                      |
|              |                    | Manual Color Mixer  | Red      | 000–255                           | Combine red, green, blue, amber, and lime to make a custom color (0–100%)                                               |
|              |                    |                     | Green    |                                   |                                                                                                                         |
|              |                    |                     | Blue     |                                   |                                                                                                                         |
|              |                    |                     | Amber    |                                   |                                                                                                                         |
|              |                    |                     | Lime     |                                   |                                                                                                                         |
|              | 3-Ch               |                     |          |                                   | 3-channel: dimmer, Virtual Color Wheel, color temperature                                                               |
|              | 5-Ch               |                     |          |                                   | 5-channel: RGBAL                                                                                                        |
|              | 7-Ch               |                     |          |                                   | 7-channel: dimmer, RGBAL, strobe                                                                                        |
|              | 10-Ch              |                     |          |                                   | 10-channel: 16-bit dimmer, RGBAL, strobe, Virtual Color Wheel, color temperature                                        |
|              | 12-Ch              |                     |          |                                   | 12-channel: dimmer, RGBAL, strobe, Virtual Color Wheel, color temperature, auto programs, auto speed, dimmer speed mode |
|              | 13-Ch              |                     |          |                                   | 13-channel: 16-bit dimmer, 16-bit RGBAL, strobe                                                                         |
|              | 15-Ch              |                     |          |                                   | 15-channel: 16-bit dimmer, 16-bit RGBAL, strobe, Virtual Color Wheel, color temperature                                 |
| HSV          |                    |                     |          | 3-channel: hue, saturation, value |                                                                                                                         |

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| Main Level    | Programming Levels |                   |         | Description                                                |
|---------------|--------------------|-------------------|---------|------------------------------------------------------------|
| Auto Show     | Auto 1             | 1–100             |         | Selects automatic programs and auto program speed          |
|               | Auto 2             |                   |         |                                                            |
|               | Auto 3             |                   |         |                                                            |
|               | Auto 4             |                   |         |                                                            |
|               | Auto 5             |                   |         |                                                            |
| Master/ Slave | Master             |                   |         | Master mode                                                |
|               | Slave              |                   |         | Slave mode                                                 |
| Dimmer Mode   | Off                |                   |         | Linear dimmer                                              |
|               | Dimmer 1           |                   |         | Fast dimmer curve                                          |
|               | Dimmer 2           |                   |         | Medium dimmer curve                                        |
|               | Dimmer 3           |                   |         | Slow dimmer curve                                          |
| White Balance | Off                |                   |         | Uses factory default white setting                         |
|               | Manual             | Red               | 125–255 | Sets red LED maximum value                                 |
|               |                    | Green             |         | Sets green LED maximum value                               |
|               |                    | Blue              |         | Sets blue LED maximum value                                |
|               |                    | Amber             |         | Sets amber LED maximum value                               |
|               |                    | Lime              |         | Sets lime LED maximum value                                |
| LED Frequency | 600Hz              |                   |         | Selects 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 |
|               | 2M                 |                   |         | Turns off display backlight after 2 minutes of inactivity  |
|               | Always On          |                   |         | Display backlight always on                                |
| Information   | Fixture Hours      | <_ _ _ _H>        |         | Shows total product hours                                  |
|               | Version            | <V _ _>           |         | Shows installed software version                           |
|               | UID                | <_ _ _ _ _ _ _ _> |         | Shows product UID                                          |
| Reset Factory | No                 |                   |         | Reset to factory defaults                                  |
|               | 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.



**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.



## Configuration (DMX)

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

### Control Personalities

This setting allows you to choose a particular control personality.

1. Go to the **DMX Channel** main level.
2. Select the desired personality (see table below).

| Personality | Channels | Personality | Channels |
|-------------|----------|-------------|----------|
| 15-Ch       | 15       | 7-Ch        | 7        |
| 13-Ch       | 13       | 5-Ch        | 5        |
| 12-Ch       | 12       | 3-Ch        | 3        |
| 10-Ch       | 10       | HSV         | 3        |



- 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.

1. Go to the **DMX Address** main level.
2. Select the starting address (**001–510**).

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

| Personality | Address | Personality | Address |
|-------------|---------|-------------|---------|
| 15-Ch       | 498     | 7-Ch        | 506     |
| 13-Ch       | 500     | 5-Ch        | 508     |
| 12-Ch       | 501     | 3-Ch        | 510     |
| 10-Ch       | 503     | HSV         | 510     |

## DMX Values

### 15-Ch

| Channel | Function            | Value                  | Percent/Setting                                    |
|---------|---------------------|------------------------|----------------------------------------------------|
| 1       | Dimmer              | 000 ⇄ 255              | 0–100%                                             |
| 2       | Dimmer Fine         | 000 ⇄ 255              | 0–100%                                             |
| 3       | Red                 | 000 ⇄ 255              | 0–100%                                             |
| 4       | Red Fine            | 000 ⇄ 255              | 0–100%                                             |
| 5       | Green               | 000 ⇄ 255              | 0–100%                                             |
| 6       | Green Fine          | 000 ⇄ 255              | 0–100%                                             |
| 7       | Blue                | 000 ⇄ 255              | 0–100%                                             |
| 8       | Blue Fine           | 000 ⇄ 255              | 0–100%                                             |
| 9       | Amber               | 000 ⇄ 255              | 0–100%                                             |
| 10      | Amber Fine          | 000 ⇄ 255              | 0–100%                                             |
| 11      | Lime                | 000 ⇄ 255              | 0–100%                                             |
| 12      | Lime Fine           | 000 ⇄ 255              | 0–100%                                             |
| 13      | Strobe              | 000 ⇄ 010<br>011 ⇄ 255 | No function<br>Strobe (slow to fast)               |
| 14      | Virtual Color Wheel | 000 ⇄ 255              | See <a href="#">Virtual Color Wheel Chart</a>      |
| 15      | Color Temperature   | 000 ⇄ 255              | See <a href="#">Preset Color Temperature Chart</a> |



### 13-Ch

| Channel | Function    | Value     | Percent/Setting       |
|---------|-------------|-----------|-----------------------|
| 1       | Dimmer      | 000 ⇄ 255 | 0–100%                |
| 2       | Dimmer Fine | 000 ⇄ 255 | 0–100%                |
| 3       | Red         | 000 ⇄ 255 | 0–100%                |
| 4       | Red Fine    | 000 ⇄ 255 | 0–100%                |
| 5       | Green       | 000 ⇄ 255 | 0–100%                |
| 6       | Green Fine  | 000 ⇄ 255 | 0–100%                |
| 7       | Blue        | 000 ⇄ 255 | 0–100%                |
| 8       | Blue Fine   | 000 ⇄ 255 | 0–100%                |
| 9       | Amber       | 000 ⇄ 255 | 0–100%                |
| 10      | Amber Fine  | 000 ⇄ 255 | 0–100%                |
| 11      | Lime        | 000 ⇄ 255 | 0–100%                |
| 12      | Lime Fine   | 000 ⇄ 255 | 0–100%                |
| 13      | Strobe      | 000 ⇄ 010 | No function           |
|         |             | 011 ⇄ 255 | Strobe (slow to fast) |

### 12-Ch

| Channel | Function            | Value     | Percent/Setting                                    |
|---------|---------------------|-----------|----------------------------------------------------|
| 1       | Dimmer              | 000 ⇄ 255 | 0–100%                                             |
| 2       | Red                 | 000 ⇄ 255 | 0–100%                                             |
| 3       | Green               | 000 ⇄ 255 | 0–100%                                             |
| 4       | Blue                | 000 ⇄ 255 | 0–100%                                             |
| 5       | Amber               | 000 ⇄ 255 | 0–100%                                             |
| 6       | Lime                | 000 ⇄ 255 | 0–100%                                             |
| 7       | Strobe              | 000 ⇄ 010 | No function                                        |
|         |                     | 011 ⇄ 255 | Strobe (slow to fast)                              |
| 8       | Virtual Color Wheel | 000 ⇄ 255 | See <a href="#">Virtual Color Wheel Chart</a>      |
| 9       | Color Temperature   | 000 ⇄ 255 | See <a href="#">Preset Color Temperature Chart</a> |
| 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 | 0–100%                                             |
| 12      | Dimmer Mode*        | 000 ⇄ 051 | No function                                        |
|         |                     | 052 ⇄ 101 | Linear dimmer                                      |
|         |                     | 102 ⇄ 152 | Nonlinear dimming curve 1 (fastest)                |
|         |                     | 153 ⇄ 203 | Nonlinear dimming curve 2                          |
|         |                     | 204 ⇄ 255 | Nonlinear dimming curve 3 (slowest)                |



\*Hold desired Dimmer Mode value for 3 seconds, then release. This changes the Dimmer Mode setting in the menu.

## 10-Ch

| Channel | Function            | Value                  | Percent/Setting                                    |
|---------|---------------------|------------------------|----------------------------------------------------|
| 1       | Dimmer              | 000 ⇄ 255              | 0–100%                                             |
| 2       | Dimmer Fine         | 000 ⇄ 255              | 0–100%                                             |
| 3       | Red                 | 000 ⇄ 255              | 0–100%                                             |
| 4       | Green               | 000 ⇄ 255              | 0–100%                                             |
| 5       | Blue                | 000 ⇄ 255              | 0–100%                                             |
| 6       | Amber               | 000 ⇄ 255              | 0–100%                                             |
| 7       | Lime                | 000 ⇄ 255              | 0–100%                                             |
| 8       | Strobe              | 000 ⇄ 010<br>011 ⇄ 255 | No function<br>Strobe (slow to fast)               |
| 9       | Virtual Color Wheel | 000 ⇄ 255              | See <a href="#">Virtual Color Wheel Chart</a>      |
| 10      | Color Temperature   | 000 ⇄ 255              | See <a href="#">Preset Color Temperature Chart</a> |

## 7-Ch

| Channel | Function | Value                  | Percent/Setting                      |
|---------|----------|------------------------|--------------------------------------|
| 1       | Dimmer   | 000 ⇄ 255              | 0–100%                               |
| 2       | Red      | 000 ⇄ 255              | 0–100%                               |
| 3       | Green    | 000 ⇄ 255              | 0–100%                               |
| 4       | Blue     | 000 ⇄ 255              | 0–100%                               |
| 5       | Amber    | 000 ⇄ 255              | 0–100%                               |
| 6       | Lime     | 000 ⇄ 255              | 0–100%                               |
| 7       | Strobe   | 000 ⇄ 010<br>011 ⇄ 255 | No function<br>Strobe (slow to fast) |

## 5-Ch

| Channel | Function | Value     | Percent/Setting |
|---------|----------|-----------|-----------------|
| 1       | Red      | 000 ⇄ 255 | 0–100%          |
| 2       | Green    | 000 ⇄ 255 | 0–100%          |
| 3       | Blue     | 000 ⇄ 255 | 0–100%          |
| 4       | Amber    | 000 ⇄ 255 | 0–100%          |
| 5       | Lime     | 000 ⇄ 255 | 0–100%          |

## 3-Ch

| Channel | Function            | Value     | Percent/Setting                                    |
|---------|---------------------|-----------|----------------------------------------------------|
| 1       | Dimmer              | 000 ⇄ 255 | 0–100%                                             |
| 2       | Virtual Color Wheel | 000 ⇄ 255 | See <a href="#">Virtual Color Wheel Chart</a>      |
| 3       | Color Temperature   | 000 ⇄ 255 | See <a href="#">Preset Color Temperature Chart</a> |

## 1-Ch

| Channel | Function | Value     | Percent/Setting |
|---------|----------|-----------|-----------------|
| 1       | Dimmer   | 000 ⇄ 255 | 0–100%          |

## HSV

| Channel | Function   | Value     | Percent/Setting |
|---------|------------|-----------|-----------------|
| 1       | Hue        | 000 ⇄ 255 | 0–100%          |
| 2       | Saturation | 000 ⇄ 255 | 0–100%          |
| 3       | Value      | 000 ⇄ 255 | 0–100%          |

## Virtual Color Wheel

The Ovation P-56FC includes a feature called the Virtual Color Wheel (VCW). This feature is available as a standalone control mode for manual use and as a control channel in select DMX personalities. More than 30 pre-mixed colors, custom blended by our engineers, are available to call up for easier programming.

The DMX values used to mix these colors are provided below. You may adjust the overall intensity of the Ovation fixture in order to more closely replicate colors you are familiar with. A chart is available on our website [www.chauvetprofessional.com](http://www.chauvetprofessional.com) to compare our pre-mixed colors with popular gel colors. This chart is for comparison purposes only and is not a representation that our pre-mixed colors match any of the gel colors listed.

### Virtual Color Wheel Chart

| DMX Channel Value | Display Readout             | Red Value | Green Value | Blue Value | Amber Value | Lime Value |
|-------------------|-----------------------------|-----------|-------------|------------|-------------|------------|
| 000 ⇄ 005         | --                          | 000       | 000         | 000        | 000         | 000        |
| 006 ⇄ 013         | <b>C3050 - Md Yellow</b>    | 255       | 190         | 004        | 255         | 255        |
| 014 ⇄ 021         | <b>C3040 - Lt Yellow</b>    | 255       | 111         | 011        | 255         | 255        |
| 022 ⇄ 028         | <b>C3240 - Amb Yellow</b>   | 255       | 245         | 000        | 255         | 075        |
| 029 ⇄ 035         | <b>C2340 - VLt Amber</b>    | 255       | 010         | 033        | 255         | 255        |
| 036 ⇄ 043         | <b>C2040 - Lt Amber</b>     | 255       | 008         | 023        | 255         | 204        |
| 044 ⇄ 051         | <b>C2050 - Md Amber</b>     | 255       | 000         | 003        | 255         | 172        |
| 052 ⇄ 059         | <b>C2060 - Dk Amber</b>     | 255       | 000         | 003        | 255         | 110        |
| 060 ⇄ 067         | <b>C1050 - Lt Red</b>       | 255       | 000         | 005        | 044         | 000        |
| 068 ⇄ 075         | <b>C1080 - Md Red</b>       | 255       | 000         | 002        | 000         | 000        |
| 076 ⇄ 083         | <b>C1020 - NC Pink</b>      | 255       | 105         | 074        | 255         | 255        |
| 084 ⇄ 091         | <b>C1030 - Md Pink</b>      | 255       | 000         | 074        | 255         | 247        |
| 092 ⇄ 099         | <b>C1630 - Dk Pink</b>      | 255       | 060         | 075        | 255         | 255        |
| 100 ⇄ 107         | <b>C1250 - Md Red Amber</b> | 255       | 000         | 010        | 255         | 008        |
| 108 ⇄ 115         | <b>C1060 - Dk Red Amber</b> | 255       | 000         | 012        | 096         | 000        |
| 116 ⇄ 121         | <b>C1650 - Magenta</b>      | 255       | 000         | 062        | 255         | 082        |
| 122 ⇄ 130         | <b>C6170 - Dk Magenta</b>   | 255       | 000         | 074        | 020         | 000        |
| 131 ⇄ 138         | <b>C6020 - Lt Lavender</b>  | 255       | 255         | 118        | 255         | 199        |
| 139 ⇄ 146         | <b>C5030 - Lt Blue</b>      | 000       | 255         | 171        | 040         | 255        |
| 147 ⇄ 154         | <b>C5020 - VLt Blue</b>     | 000       | 255         | 180        | 224         | 255        |
| 155 ⇄ 162         | <b>C5430 - Lt Blue 2</b>    | 000       | 255         | 148        | 000         | 226        |
| 163 ⇄ 170         | <b>C5070 - Blue</b>         | 000       | 255         | 216        | 000         | 000        |
| 171 ⇄ 178         | <b>C5050 - Md Blue</b>      | 000       | 255         | 212        | 000         | 113        |
| 179 ⇄ 186         | <b>C5060 - Dk Blue</b>      | 000       | 242         | 255        | 000         | 053        |
| 187 ⇄ 194         | <b>C5690 - Indigo</b>       | 026       | 039         | 255        | 000         | 000        |
| 195 ⇄ 202         | <b>C5080 - VDK Blue</b>     | 000       | 200         | 255        | 000         | 000        |
| 203 ⇄ 210         | <b>C5081 - VDK Blue2</b>    | 000       | 180         | 255        | 000         | 000        |
| 211 ⇄ 218         | <b>C4370 - Yel Green</b>    | 000       | 255         | 005        | 000         | 045        |
| 219 ⇄ 226         | <b>C4070 - Green</b>        | 000       | 255         | 025        | 000         | 147        |
| 227 ⇄ 234         | <b>C4550 - Turquoise</b>    | 000       | 172         | 056        | 000         | 255        |
| 235 ⇄ 242         | <b>C4560 - Aqua</b>         | 000       | 210         | 072        | 000         | 255        |
| 243 ⇄ 250         | <b>C4570 - Blue Green</b>   | 000       | 255         | 030        | 000         | 005        |
| 251 ⇄ 255         | --                          | 000       | 000         | 000        | 000         | 000        |



**Note:** The colors above are simulated renditions of the color output produced as compared to other similar incandescent products. Chauvet makes no guarantee of the color output accuracy.

## Preset Color Temperature Chart

| DMX Channel Value | Display Readout | Red Value | Green Value | Blue Value | Amber Value | Lime Value |
|-------------------|-----------------|-----------|-------------|------------|-------------|------------|
| 000 ⇌ 005         | --              | 000       | 000         | 000        | 000         | 000        |
| 006 ⇌ 025         | <b>2800K</b>    | 201       | 130         | 048        | 255         | 255        |
| 026 ⇌ 050         | <b>3000K</b>    | 172       | 132         | 054        | 255         | 255        |
| 051 ⇌ 075         | <b>3200K</b>    | 144       | 135         | 061        | 255         | 255        |
| 076 ⇌ 100         | <b>3500K</b>    | 115       | 139         | 071        | 255         | 255        |
| 101 ⇌ 125         | <b>4000K</b>    | 083       | 154         | 088        | 255         | 255        |
| 126 ⇌ 150         | <b>4500K</b>    | 072       | 185         | 107        | 255         | 255        |
| 151 ⇌ 175         | <b>5000K</b>    | 062       | 209         | 124        | 255         | 255        |
| 176 ⇌ 200         | <b>5600K</b>    | 046       | 222         | 142        | 255         | 255        |
| 201 ⇌ 225         | <b>6000K</b>    | 038       | 230         | 154        | 255         | 255        |
| 226 ⇌ 250         | <b>6500K</b>    | 029       | 237         | 166        | 255         | 255        |
| 251 ⇌ 255         | --              | 000       | 000         | 000        | 000         | 000        |



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

## Configuration (Standalone)

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

### 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 (**000–255**).

#### Color Temperature

1. Go to the **Virtual Color Wheel** main level.
2. Select **Color Temperature**.
3. Select the desired color temperature (see [Preset Color Temperature Chart](#)).
4. Select the desired output level (**000–255**).

#### Manual Color Mixer

1. Go to the **Virtual Color Wheel** main level.
2. Select **Manual Color Mixer**.
3. Select the color to edit (**Red, Green, Blue, Amber, or Lime**).
4. Select the desired output level for that color (**000–255**).
5. Repeat steps 3 and 4 until product outputs as desired.

## Auto Programs

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

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



**The auto programs cannot be edited.**

## Master/Slave

The Master/Slave mode allows a group of Ovation P-56FC products (the slaves) to simultaneously duplicate the output of another Ovation P-56FC (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 Virtual Color Wheel mode.
- Do not connect a DMX controller to the products configured for Master/Slave operation. The DMX controller may interfere with signals from the master.
- The master should be the first product in the daisy chain.

## Dimmer Profiles

This setting determines how fast the output of the Ovation P-56FC changes when you modify the output value. 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.

## White Balance

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

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

## LED Frequency

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

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-56FC 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-56FC's display stays on after the last button is pressed on the control panel.

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

## System Information

This option displays the total number of hours the product has run, the installed software version, and the product's UID.

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

## Factory Reset

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

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

## 5. TECHNICAL INFORMATION

### Product Maintenance

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

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

To clean the product:

1. Unplug the product from power.
2. Wait until the product is at room temperature.
3. Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external vents.
4. Clean all transparent surfaces with a mild soap solution, ammonia-free glass cleaner, or isopropyl alcohol.
5. Apply the solution directly to a soft, lint-free cotton cloth or a lens-cleaning tissue.
6. Softly drag any dirt or grime to the outside of the transparent surface.
7. Gently polish the transparent surfaces until they are free of haze and lint.



**Always dry the transparent surfaces carefully after cleaning them.**

## 6. TECHNICAL SPECIFICATIONS

### Dimensions and Weight

| Length            | Width             | Height           | Weight           |
|-------------------|-------------------|------------------|------------------|
| 12.48 in (317 mm) | 12.83 in (326 mm) | 14.0 in (363 mm) | 12.2 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                        | 120 V, 60 Hz             | 230 V, 50 Hz         |
| Consumption                      | 176 W                    | 180 W                |
| Operating current                | 1.448 A                  | 0.777 A              |
| Power-linking current (products) | 13.6 A (9 products)      | 13.6 A (17 products) |
| Fuse                             | 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  | Power    | Lifespan     |
|-------|----------|--------------|
| LED   | 3~5 W    | 50,000 hours |
| Color | Quantity | Current      |
| Red   | 10       | 1 A          |
| Green | 10       | 1 A          |
| Blue  | 8        | 1 A          |
| Amber | 8        | 1 A          |
| Lime  | 12       | 1 A          |

### Photometrics

| Parameter         | Medium Lens | Wide Lens |
|-------------------|-------------|-----------|
| Beam angle        | 21°         | 52°       |
| Field angle       | 35°         | 82°       |
| Illuminance @ 5 m | 1,350 lux   | 254 lux   |

### Thermal

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

### DMX

| I/O Connector    | Channel Range                      |
|------------------|------------------------------------|
| 3- and 5-pin XLR | 1, 3, 5, 7, 10, 12, 13, 15, or HSV |

### Ordering

| Product Name   | Item Code | UPC Number   |
|----------------|-----------|--------------|
| Ovation P-56FC | 03031500  | 781462218485 |



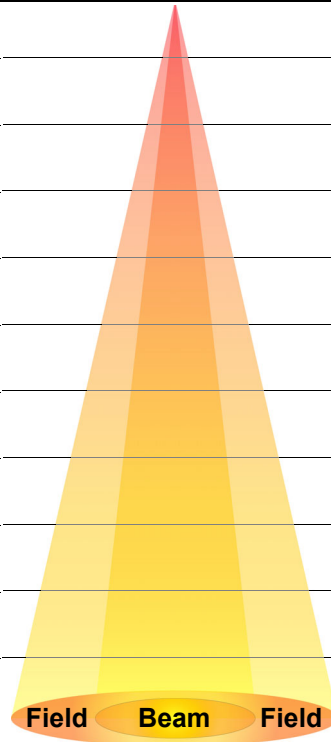
UL 1573  
CSA C22.2 No. 166  
E113093



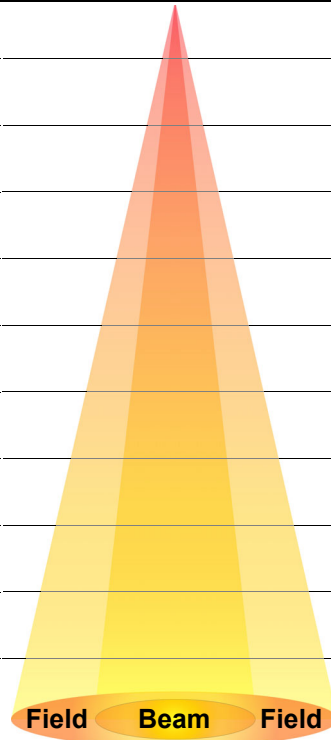


# Photometrics Chart

|          | Medium            |                    | Ovation P-56FC (Imperial) |            | Wide              |                    |
|----------|-------------------|--------------------|---------------------------|------------|-------------------|--------------------|
| Distance | 21° Beam Diameter | 35° Field Diameter | Footcandle                | Footcandle | 52° Beam Diameter | 82° Field Diameter |
| 15 ft    | 5.56 ft           | 9.46 ft            | 150                       | 28         | 4.88 ft           | 8.69 ft            |
| 20 ft    | 7.41 ft           | 12.61 ft           | 84                        | 16         | 19.51 ft          | 34.77 ft           |
| 30 ft    | 11.12 ft          | 18.92 ft           | 38                        | 7          | 29.26 ft          | 52.16 ft           |
| 40 ft    | 14.83 ft          | 25.22 ft           | 21                        | 4          | 39.02 ft          | 69.54 ft           |
| 50 ft    | 18.53 ft          | 31.53 ft           | 14                        | 3          | 48.77 ft          | 86.93 ft           |
| 75 ft    | 27.80 ft          | 47.29 ft           | 6                         | 1          | 73.16 ft          | 130.39 ft          |
| 100 ft   | 37.07 ft          | 63.06 ft           | 3                         | 1          | 97.55 ft          | 173.86 ft          |
| 125 ft   | 46.33 ft          | 78.82 ft           | 2                         | 1          | 121.93 ft         | 217.32 ft          |
| 150 ft   | 55.60 ft          | 94.59 ft           | 2                         | 1          | 146.32 ft         | 260.79 ft          |



|          | Medium            |                    | Ovation P-56FC (Metric) |       | Wide              |                    |
|----------|-------------------|--------------------|-------------------------|-------|-------------------|--------------------|
| Distance | 21° Beam Diameter | 35° Field Diameter | Lux                     | Lux   | 52° Beam Diameter | 82° Field Diameter |
| 1 m      | 0.37 m            | 0.63 m             | 33,750                  | 6,350 | 0.98 m            | 1.74 m             |
| 2 m      | 0.74 m            | 1.26 m             | 8,438                   | 1,588 | 1.95 m            | 3.48 m             |
| 5 m      | 1.85 m            | 3.15 m             | 1,350                   | 254   | 4.88 m            | 8.69 m             |
| 8 m      | 2.97 m            | 5.04 m             | 527                     | 99    | 7.80 m            | 13.91 m            |
| 10 m     | 3.71 m            | 6.31 m             | 338                     | 64    | 9.75 m            | 17.39 m            |
| 15 m     | 5.56 m            | 9.46 m             | 150                     | 28    | 14.63 m           | 26.08 m            |
| 20 m     | 7.41 m            | 12.61 m            | 84                      | 16    | 19.51 m           | 34.77 m            |
| 25 m     | 9.27 m            | 15.76 m            | 54                      | 10    | 24.39 m           | 43.46 m            |
| 30 m     | 11.12 m           | 18.92 m            | 38                      | 7     | 29.26 m           | 52.16 m            |



## RETURNS

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

Call Chauvet 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(s) for the return.

Clearly label the package with an 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.**

Once you have the RMA number, provide 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                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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