# OVATION
# B-565FC

**User Manual**



CHAUVET
**PROFESSIONAL**

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# 1. EDITION NOTES

The Ovation B-565FC User Manual includes a description, safety precautions, installation, programming, operation and maintenance instructions for the Ovation B-565FC 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

This Ovation B-565FC User Manual is the 2nd edition of this document. Go to www.chauvetprofessional.com for the latest version.

# 2. BEFORE YOU BEGIN

## What Is Included

- Ovation B-565FC
- Neutrik® powerCON® Power Cord
- Wall Washing Filter
- Warranty Card
- Quick Reference Guide

## Claims

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

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

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

## Manual Conventions

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

## Symbols

| Symbol | Meaning |
|---|---|
| ⚡ | Electrical warning. Not following these instructions may cause electrical damage to the product, accessories, or the user. |
| ⚠ | Critical installation, configuration, or operation information. Not following these instructions may make the product not work, cause damage to the product, or cause harm to the operator. |
| ⓘ | Important installation or configuration information. The product may not function correctly if this information is not used. |
| 📝 | Useful information. |

⚠ **Any reference to data or power connections in this manual assumes the use of Seetronic IP rated cables.**

📝 **The term "DMX" used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.**

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## Safety Notes

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

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

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

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

### Mounting and Rigging
- This product is not intended for permanent installation.
- This product is for indoor use only! To prevent risk of fire or shock, do not expose this product to rain or moisture. (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.
- 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.
- Make sure to replace the fuse with another of the same type and rating.
- Never connect the product to a dimmer pack or rheostat.
- Never disconnect this product by pulling or tugging on the power cable.

## Operation
- Do not operate this product if there is damage on the housing, lenses, or cables. Have the damaged parts replaced by an authorized technician at once.
- Do not cover the ventilation slots when operating to avoid internal overheating.
- The maximum ambient temperature is 113 °F (45 °C). Do not operate the product at higher temperatures.
- 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.

# 3. INTRODUCTION

## Description

The Ovation B-565FC is a high-power full color LED (RGBAL) batten. It features full RGBA-Lime color mixing with modes providing full 16-bit dimming for up to 10 cells, selectable PWM, RDM, Art-Net™, and sACN. The Virtual Color Wheel matches popular gel colors comparable to those projected by a tungsten source, in addition to color temperature presets that match a tungsten source from 2800 to 6500 K. Enhance the product's wall-washing ability with the included holographic filter.

## Features

- Full Color LED (RGBAL) batten fixture for theatre, film and production
- Theatre-ready with 16-bit dimming of master dimmer and individual colors
- Multiple control personalities one or two sections of control
- Included holographic filter locks in place for ultra-smooth color mixing with a more elliptical wash pattern
- Virtual Color wheel with color matched to popular Gel colors
- Art-Net™, sACN, 3- and 5-pin DMX and RDM (Remote Device Management) for added control
- flexibility
- Neutrik® powerCON® and Amphenol etherCON® compatible connections for power and data
- linking
- Adjustable PWM (Pulse Width Modulation) to avoid flickering on camera
- Nearly silent operation for use in studio and theatre applications

## Product Overview

**Menu Buttons**

**Adjustment Handle**

OLED

**Display**

**Filter Lock**

**Fuse**

**Neutrik® PowerCON® Out**

**Amphenol etherCON® Through**

**3- and 5-pin DMX Out**

**3- and 5-pin DMX In**

**Neutrik® PowerCON® In**

## Product Dimensions

13.98 in
355 mm

10.43 in
265 mm

OLED

2.40 in
61 mm

1.18 in
30 mm

8.15 in
207mm

2.64 in
67 mm

1.93 in
49 mm

7.48 in
190 mm

5.04 in
128 mm
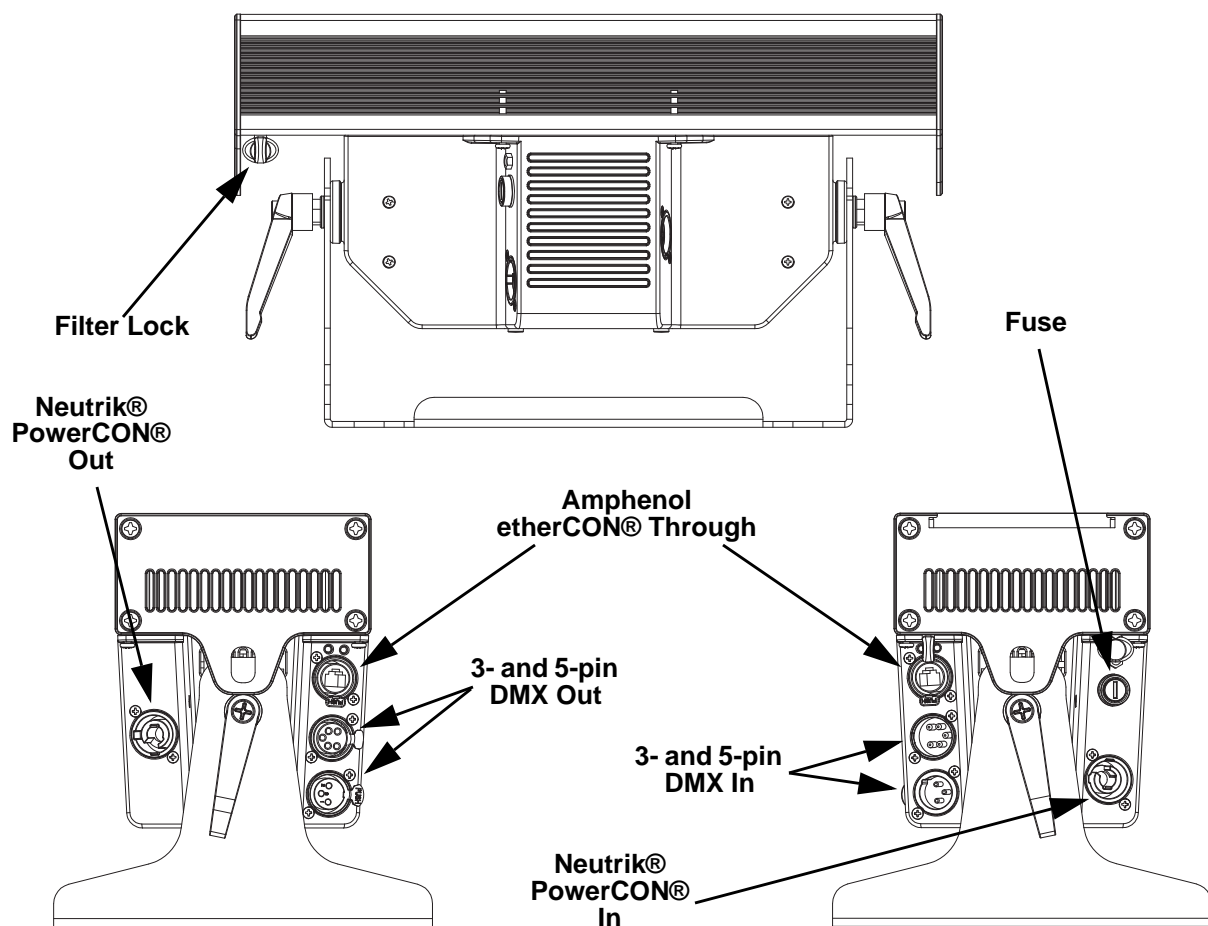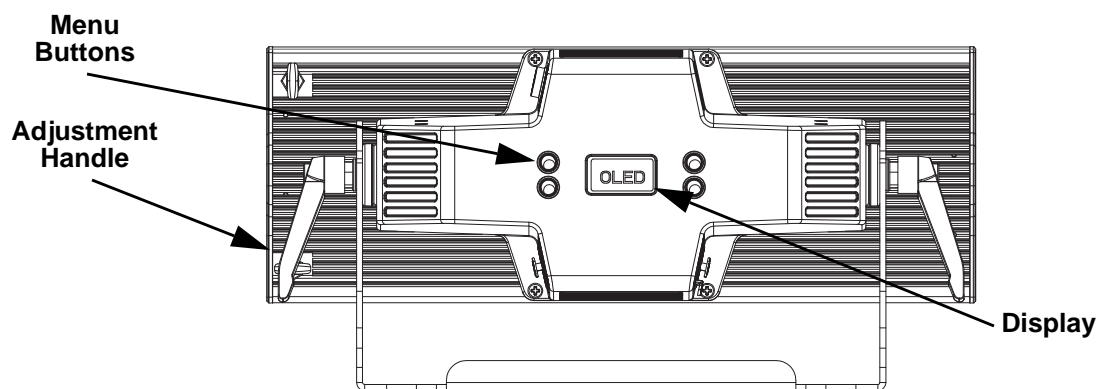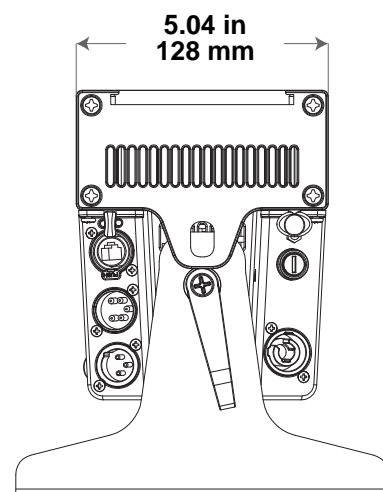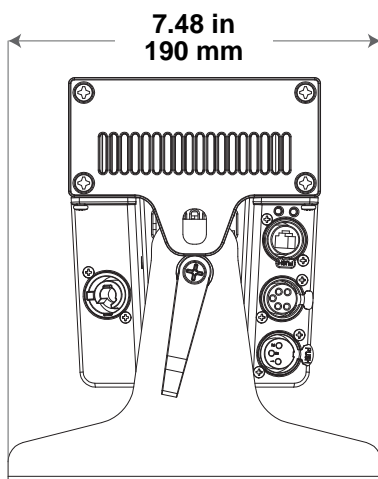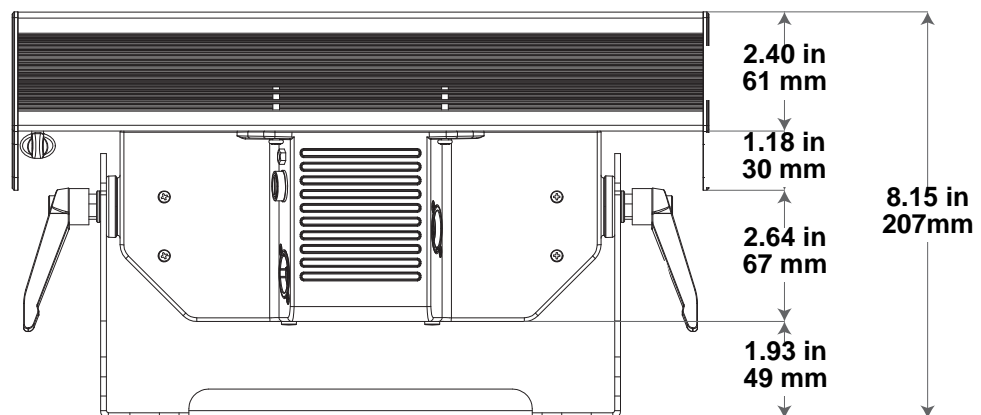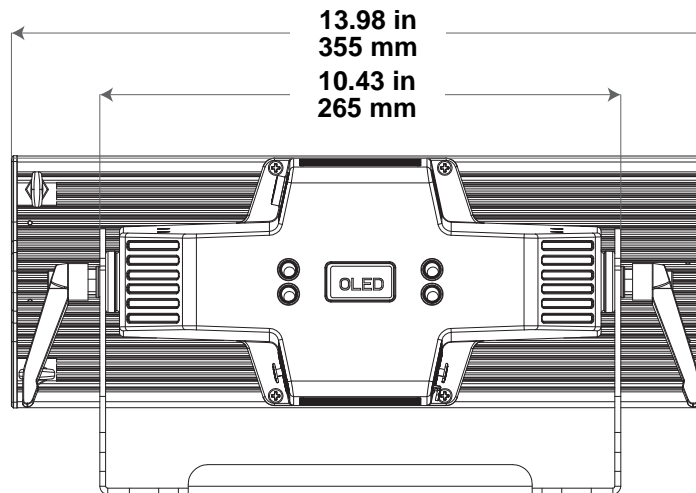
# 4. SETUP

## AC Power

Each Ovation B-565FC 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 B-565FC, 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.

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- **Always connect the product to a protected circuit (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 B-565FC comes with a power input cord terminated with a Seetronic Powerkon A connector on one end and an Edison plug on the other end (U.S. market). If the power input cord that came with your product has no plug, or if you need the 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 or 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 13 products at 120 V; up to 22 at 208 V; or up to 23 at 230 V.

This product comes with a power input cord. Power linking cables are available from Chauvet for purchase.

## Signal Connections

The Ovation B-565FC uses DMX, Art-Net™, or sACN for the 33 control personalities, ranging from 3-channel to 31-channel. The Ovation B-565FC has 2 Amphenol etherCON® through ports and both 3- and 5-pin DMX in and out ports.

- Refer to the Operation chapter to learn how to configure the Ovation B-565FC to work in these personalities.
- The DMX Values section provides detailed information regarding the control personalities.

**If you are not familiar with or need 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.**

## DMX Connection

You can link the Ovation B-565FC 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.

## Art-Net™ Connection

Art-Net™ is an Ethernet protocol that uses TCP/IP which transfers a large amount of DMX512 data using an Neutrik® etherCON® RJ45 connection over a large network. An Art-Net™ protocol document is available from **www.chauvetprofessional.com**.

Art-Net™ designed by and copyright Artistic Licence Holdings Ltd.

## sACN Connection

Kling-Net is a network protocol that allows auto configuration of display devices using a Neutrik® etherCON® RJ45 Ethernet connection. Refer to the ArKaos software manual for detailed instructions on programming this product.

## Connection Diagram

**Switch** or **Router**
(such as the **NET-Switch**
from CHAUVET Professional)

**Computer/Controller**
(running Art-Net™ or sACN
protocol)

**Ovation B-565FC**

To other Art-Net™ or
sACN devices
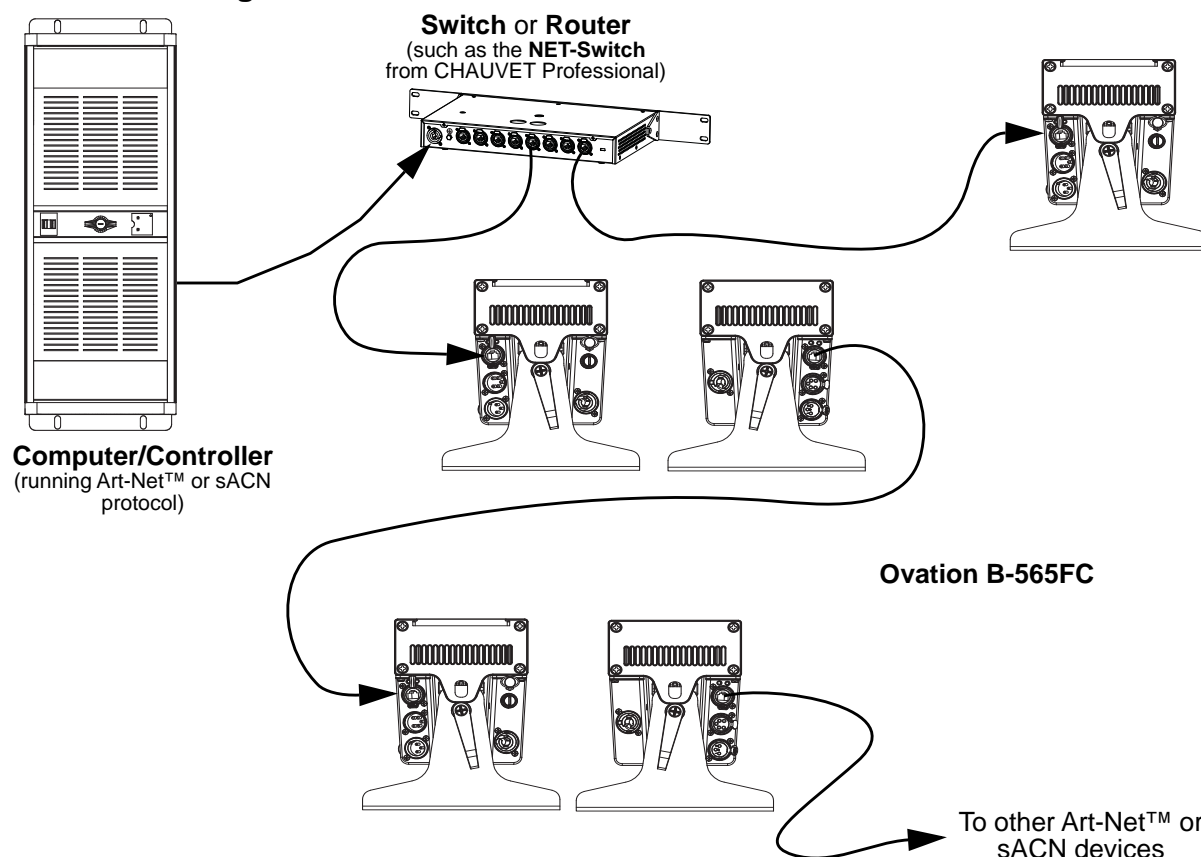
# Remote Device Management (RDM)

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 B-565FC supports RDM protocol that allows feedback to make changes to menu map options.

# Master/Slave Connectivity

The Master/Slave mode allows a Ovation B-565FC (the master) to control one or more Ovation B-565FC products (the slaves) without a DMX controller. One Ovation B-565FC 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 or need more information about DMX standards, or the DMX cables needed to link this product to a DMX controller, download the DMX Primer from the Chauvet website: www.chauvetprofessional.com.**

# Mounting

Before mounting the product, read and follow the safety recommendations indicated in the Safety Notes. For 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 B-565FC 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



**Mounting Clamp**
(such as **CLP-15** or **CLP-15N** from Chauvet)

**Mounting Bracket**

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

**Bracket Adjustment Knob**
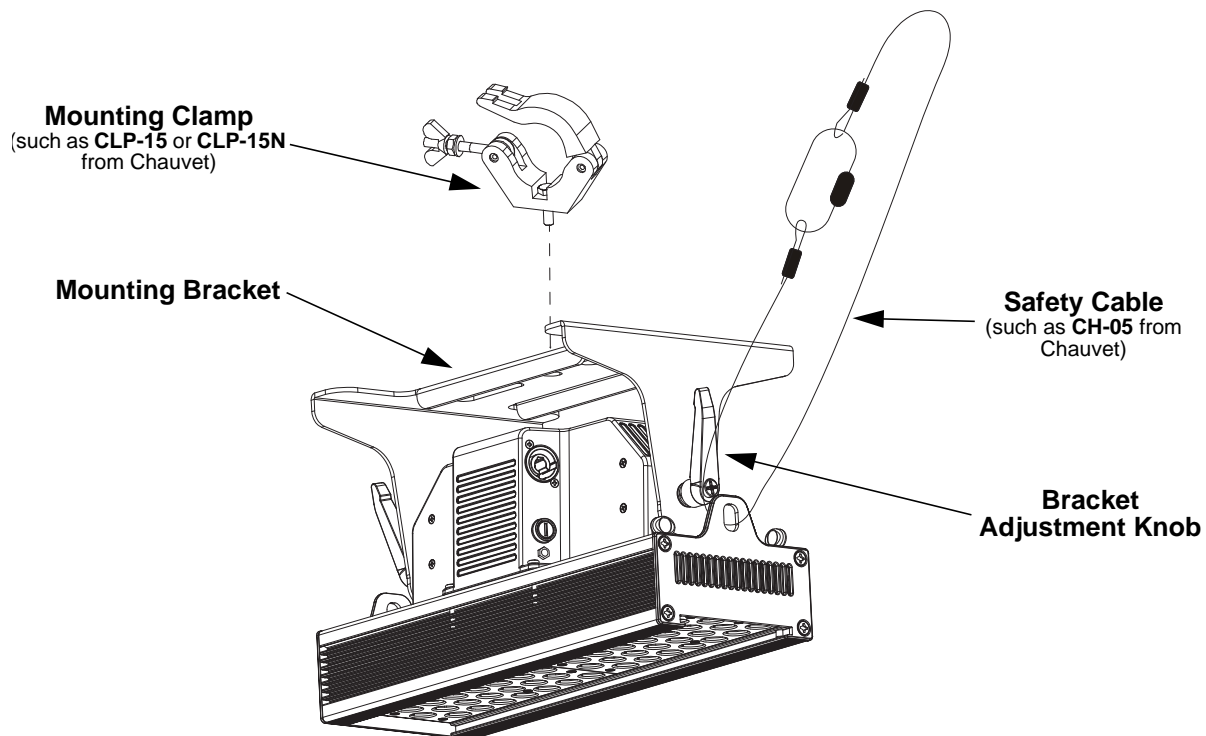
# 5. OPERATION

## 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 |

## 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 |
|---|---|---|---|
| **Protocol** | **DMX512** | | Selects the control protocol |
| | **ArtNet** | | |
| | **sACN** | | |
| **Start Address** | **001–512*** | | Selects starting address (*highest channel restricted by selected personality) |
| **Personality** | **1 Cell** | **DMX-VCW-CCT 3CH** | 3-channel: dimmer, virtual color wheel, color temperature |
| | | **RGB 3CH** | 3-channel: RGB |
| | | **RGBA 4CH** | 4-channel: RGBA |
| | | **RGBAL 5CH** | 5-channel: RGBAL |
| | | **RGB EXT 8CH** | 8-channel: 16-bit dimmer, RGB, virtual color wheel, color temperature, strobe |
| | | **RGBA EXT 9CH** | 9-channel: 16-bit dimmer, RGBA, virtual color wheel, color temperature, strobe |
| | | **RGBAL EXT 10CH** | 10-channel: 16-bit dimmer, RGBAL, virtual color wheel, color temperature, strobe |
| | | **RGBAL Fine 10CH** | 10-channel: 16-bit RGBAL |
| | | **RGBAL FULL 17CH** | 17-channel: 16-bit dimmer, 16-bit RGBAL, virtual color wheel, color temperature, strobe, color macros, dimmer mode |

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| Main Level | Programming Levels | | | Description |
|---|---|---|---|---|
| **Personality** | **2 Cell** | **RGB 6CH** | | 6-channel: RGB (per cell) |
| | | **RGBA 8CH** | | 8-channel: RGBA (per cell) |
| | | **RGBAL 10CH** | | 10-channel: RGBAL (per cell) |
| | | **RGB EXT 15CH** | | 15-channel: 16-bit dimmer, RGB (per cell), virtual color wheel (per cell), color temperature (per cell), strobe (per cell) |
| | | **RGBA EXT 17CH** | | 17-channel: 16-bit dimmer, RGBA (per cell), virtual color wheel (per cell), color temperature (per cell), strobe (per cell) |
| | | **RGBAL EXT 19CH** | | 19-channel: 16-bit dimmer, RGBAL (per cell), virtual color wheel (per cell), color temperature (per cell), strobe (per cell) |
| | | **RGBAL Fine 20CH** | | 20-channel: 16-bit RGBAL (per cell) |
| | | **RGBAL FULL 31CH** | | 31-channel: 16-bit dimmer, 16-bit RGBAL (per cell), virtual color wheel (per cell), color temperature (per cell), strobe (per cell), color macros, dimmer mode |
| **Virtual Color Wheel** | **Virtual Color Wheel** | **R4590-Cal90 Yellow** | **Dimmer** | **<000–255>** | Virtual Color Wheel simulates the output of each gel color. Refer to the Virtual Color Wheel Chart section for specific values. |
| | | **R11-Light Straw** | | |
| | | **R312-Canary** | | |
| | | **R03-Dark BAmber** | | |
| | | **R18-Flame** | | |
| | | **R20-Medium Amber** | | |
| | | **R21-Golden Amber** | | |
| | | **R26-Light Red** | | |
| | | **R27-Medium Red** | | |
| | | **R33-NoColor Pink** | | |
| | | **R337-True Pink** | | |
| | | **R38-Light Rose** | | |
| | | **R41-Salmon** | | |

| Main Level | Programming Levels | | | Description |
|---|---|---|---|---|
| **Virtual Color Wheel** | **Virtual Color Wheel** | **R42-Deep Salmon** | | |
| | | **R44-Middle Rose** | | |
| | | **R349-Fisher Fuchsia** | | |
| | | **R54-Special Lavender** | | |
| | | **R64-Light Steel Blue** | | |
| | | **R364-Blue Bell** | | |
| | | **R65-Daylight Blue** | | |
| | | **R80-Primary Blue** | | |
| | | **R81-Urban Blue** | | |
| | | **R82-Surprise Blue** | **Dimmer** | **<000–255>** | Virtual Color Wheel simulates the output of each gel color. Refer to the Virtual Color Wheel Chart section for specific values. |
| | | **R382-Congo Blue** | | |
| | | **R83-Medium Blue** | | |
| | | **R383-Sapphire Blue** | | |
| | | **R90-Dk Yellow Green** | | |
| | | **R91-Primary Green** | | |
| | | **R92-Turquoise** | | |
| | | **R93-Blue Green** | | |
| | | **R393-Emerald Green** | | |
| | **Color Temperature** | **2800K** | | |
| | | **3200K** | | |
| | | **3500K** | | |
| | | **4000K** | | |
| | | **4500K** | **Dimmer** | **<000–255>** | Preset white color temperatures. Emulates a tungsten lamp at the specified color temperature. Refer to the Preset Color Temperature Chart section for specific values. |
| | | **5000K** | | |
| | | **5600K** | | |
| | | **6000K** | | |
| | | **6500K** | | |

| Main Level | Programming Levels | | | Description |
|---|---|---|---|---|
| Virtual Color Wheel | Manual Color Mixer | Red | <000–255> | Combine red, green, blue, amber, and lime to make a custom color (0–100%) |
| | | Green | | |
| | | Blue | | |
| | | Amber | | |
| | | Lime | | |
| Auto Show | Auto 1 | | Speed 1–100 | Selects automatic programs and auto program speed |
| | Auto 2 | | | |
| | Auto 3 | | | |
| | Auto 4 | | | |
| | Auto 5 | | | |
| | Auto 6 | | | |
| | Auto 7 | | | |
| | Auto 8 | | | |
| | Auto 9 | | | |
| | Fade | | | |
| 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 Speed | | | Sets the fan to auto mode |
| | On | | | Sets the fan to always on |
| | Off | | | Sets the fan to always off (affects output) |
| Display | Normal | | | Normal display orientation |
| | Inverse | | | Inverted display |
| Back Light | On | | | Display backlight always on |
| | 10S | | | Turns off display after 10 seconds of inactivity |
| | 20S | | | Turns off display after 20 seconds of inactivity |
| | 30S | | | Turns off display after 30 seconds of inactivity |

| Main Level | Programming Levels | | Description |
|---|---|---|---|
| **Ethernet Setting** | **Universe** | **1 (DMX)** | Sets universe for Art-Net™ or sACN |
| | | **0–255 (Art-Net™)** | |
| | | **1-256 (sACN)** | |
| | **IP Address** | _ _ _._ _ _._ _ _._ _ _ | Sets IP address |
| **Information** | **Fixture Hours** | _ _ _ _ | Shows total hour product has been powered |
| | **Version** | **V_._-V_._** | Shows installed software version |
| | **Device ID** | _ _ _ _ _ _ _ _ _ | Shows product device ID |
| | **UID** | _ _ _ _ _ _ _ _ _ _ _ _ | Shows product UID |
| **Factory Setting** | **No** | | Reset to factory defaults |
| | **Yes** | | |

## Configuration (DMX/Art-Net™/sACN)

Use control configurations to operate the product with a controller.

### Control Protocol

This setting allows you to choose the protocol with which to control the Ovation B-565FC.
1. Go to the **Protocol** main level.
2. Select the desired control protocol (**DMX512**, **ArtNet**, or **sACN**).

### Ethernet Setting

Ethernet protocols (Art-Net™ and sACN) require the Universe and IP address to be set, as well as the Starting Address.

**Universe**
1. Go to the **Ethernet Setting** main level.
2. Select **Universe**.
3. Set the Universe value (**0–255** for Art-Net™, or **1–256** for sACN).

**IP Address**
1. Go to the **Ethernet Setting** main level.
1. Select **IP Address**.
2. Set the IP address (**000.000.000.000** to **255.255.255.255**)

## Control Personalities

This setting allows you to choose a particular control personality.

1. Go to the **Personality** main level.
2. Select the desired number of cells to be controllable (**1 Cell** or **2 Cell**).

Select the desired personality (see table below).

| Mode | 1-Cell | 2-Cell |
|---|---|---|
| DMX-VCW-CCT | 3CH | N/A |
| RGB | 3CH | 6CH |
| RGBA | 4CH | 8CH |
| RGBAL | 5CH | 10CH |
| RGB EXT | 8CH | 15CH |
| RGBA EXT | 9CH | 17CH |
| RGBAL EXT | 10CH | 19CH |
| RGBAL Fine | 10CH | 20CH |
| RGBAL FULL | 17CH | 31CH |

- 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 controller. All products with the same starting address will respond in unison.

1. Go to the **Start 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 Cell DMX-VCW-CCT 3CH | 510 |
| 1 Cell RGB 3CH | 510 |
| 1 Cell RGBA 4CH | 509 |
| 1 Cell RGBAL 5CH | 508 |
| 1 Cell RGB EXT 8CH | 505 |
| 1 Cell RGBA EXT 9CH | 504 |
| 1 Cell RGBAL EXT 10CH | 503 |
| 1 Cell RGBAL Fine 10CH | 503 |
| 1 Cell RGBAL FULL 17CH | 496 |
| 2 Cell RGB 6CH | 507 |
| 2 Cell RGBA 8CH | 505 |
| 2 Cell RGBAL 10CH | 503 |
| 2 Cell RGB EXT 15CH | 498 |
| 2 Cell RGBA EXT 17CH | 496 |
| 2 Cell RGBAL EXT 19CH | 494 |
| 2 Cell RGBAL Fine 20CH | 493 |
| 2 Cell RGBAL FULL 31CH | 482 |

## DMX Values

### 2-Cell Personalities
### 2-Cell RGBAL FULL 31CH

| Channel | Function | Value | Percent/Setting |
|---|---|---|---|
| 1 | Dimmer | 000 ⇔ 255 | 0–100% |
| 2 | Dimmer Fine | 000 ⇔ 255 | 0–100% |
| 3 | Red 1 | 000 ⇔ 255 | 0–100% |
| 4 | Red Fine 1 | 000 ⇔ 255 | 0–100% |
| 5 | Green 1 | 000 ⇔ 255 | 0–100% |
| 6 | Green Fine 1 | 000 ⇔ 255 | 0–100% |
| 7 | Blue 1 | 000 ⇔ 255 | 0–100% |
| 8 | Blue Fine 1 | 000 ⇔ 255 | 0–100% |
| 9 | Amber 1 | 000 ⇔ 255 | 0–100% |
| 10 | Amber Fine 1 | 000 ⇔ 255 | 0–100% |
| 11 | Lime 1 | 000 ⇔ 255 | 0–100% |
| 12 | Lime Fine 1 | 000 ⇔ 255 | 0–100% |
| 13 | Virtual Color Wheel 1 | 000 ⇔ 255 | Refer to the Virtual Color Wheel Chart for specific values |
| 14 | Color Temperature 1 | 000 ⇔ 255 | Refer to the Preset Color Temperature Chart for specific values |
| 15 | Strobe 1 | 000 ⇔ 010 | No function |
| | | 011 ⇔ 255 | Strobe, slow to fast |
| 16 | Red 2 | 000 ⇔ 255 | 0–100% |
| 17 | Red Fine 2 | 000 ⇔ 255 | 0–100% |
| 18 | Green 2 | 000 ⇔ 255 | 0–100% |
| 19 | Green Fine 2 | 000 ⇔ 255 | 0–100% |
| 20 | Blue 2 | 000 ⇔ 255 | 0–100% |
| 21 | Blue Fine 2 | 000 ⇔ 255 | 0–100% |
| 22 | Amber 2 | 000 ⇔ 255 | 0–100% |
| 23 | Amber Fine 2 | 000 ⇔ 255 | 0–100% |
| 24 | Lime 1 | 000 ⇔ 255 | 0–100% |
| 25 | Lime Fine 1 | 000 ⇔ 255 | 0–100% |
| 26 | Virtual Color Wheel 1 | 000 ⇔ 255 | Refer to the Virtual Color Wheel Chart for specific values |
| 27 | Color Temperature 1 | 000 ⇔ 255 | Refer to the Preset Color Temperature Chart for specific values |
| 28 | Strobe 1 | 000 ⇔ 010 | No function |
| | | 011 ⇔ 255 | Strobe, slow to fast |
| 29 | Strobe All | 000 ⇔ 010 | No function |
| | | 011 ⇔ 255 | Strobe, slow to fast |
| 30 | Color Macros | 000 ⇔ 015 | No function |
| | | 016 ⇔ 255 | Color macros |
| 31 | Dimmer Speed | 000 ⇔ 051 | Preset dimmer speed from display menu |
| | | 052 ⇔ 101 | Dimmer speed mode off |
| | | 102 ⇔ 152 | Dimmer speed mode 1 (fastest) |
| | | 153 ⇔ 203 | Dimmer speed mode 2 |
| | | 204 ⇔ 255 | Dimmer speed mode 3 (slowest) |

**2-Cell RGBAL Fine 20CH**

| Channel | Function | Value | Percent/Setting |
|---|---|---|---|
| 1 | Red 1 | 000 ⇔ 255 | 0–100% |
| 2 | Red Fine 1 | 000 ⇔ 255 | 0–100% |
| 3 | Green 1 | 000 ⇔ 255 | 0–100% |
| 4 | Green Fine 1 | 000 ⇔ 255 | 0–100% |
| 5 | Blue 1 | 000 ⇔ 255 | 0–100% |
| 6 | Blue Fine 1 | 000 ⇔ 255 | 0–100% |
| 7 | Amber 1 | 000 ⇔ 255 | 0–100% |
| 8 | Amber Fine 1 | 000 ⇔ 255 | 0–100% |
| 9 | Lime 1 | 000 ⇔ 255 | 0–100% |
| 10 | Lime Fine 1 | 000 ⇔ 255 | 0–100% |
| 11 | Red 2 | 000 ⇔ 255 | 0–100% |
| 12 | Red Fine 2 | 000 ⇔ 255 | 0–100% |
| 13 | Green 2 | 000 ⇔ 255 | 0–100% |
| 14 | Green Fine 2 | 000 ⇔ 255 | 0–100% |
| 15 | Blue 2 | 000 ⇔ 255 | 0–100% |
| 16 | Blue Fine 2 | 000 ⇔ 255 | 0–100% |
| 17 | Amber 2 | 000 ⇔ 255 | 0–100% |
| 18 | Amber Fine 2 | 000 ⇔ 255 | 0–100% |
| 19 | Lime 2 | 000 ⇔ 255 | 0–100% |
| 20 | Lime Fine 2 | 000 ⇔ 255 | 0–100% |

**2-Cell RGBAL EXT 19CH**

| Channel | Function | Value | Percent/Setting |
|---|---|---|---|
| 1 | Dimmer | 000 ⇔ 255 | 0–100% |
| 2 | Dimmer Fine | 000 ⇔ 255 | 0–100% |
| 3 | Red 1 | 000 ⇔ 255 | 0–100% |
| 4 | Green 1 | 000 ⇔ 255 | 0–100% |
| 5 | Blue 1 | 000 ⇔ 255 | 0–100% |
| 6 | Amber 1 | 000 ⇔ 255 | 0–100% |
| 7 | Lime 1 | 000 ⇔ 255 | 0–100% |
| 8 | Virtual Color Wheel 1 | 000 ⇔ 255 | Refer to the Virtual Color Wheel Chart for specific values |
| 9 | Color Temperature 1 | 000 ⇔ 255 | Refer to the Preset Color Temperature Chart for specific values |
| 10 | Strobe 1 | 000 ⇔ 010 | No function |
| | | 011 ⇔ 255 | Strobe, slow to fast |
| 11 | Red 2 | 000 ⇔ 255 | 0–100% |
| 12 | Green 2 | 000 ⇔ 255 | 0–100% |
| 13 | Blue 2 | 000 ⇔ 255 | 0–100% |
| 14 | Amber 2 | 000 ⇔ 255 | 0–100% |
| 15 | Lime 2 | 000 ⇔ 255 | 0–100% |
| 16 | Virtual Color Wheel 2 | 000 ⇔ 255 | Refer to the Virtual Color Wheel Chart for specific values |
| 17 | Color Temperature 2 | 000 ⇔ 255 | Refer to the Preset Color Temperature Chart for specific values |

**2-Cell RGBAL EXT 19CH** (cont.)

| Channel | Function | Value | | Percent/Setting |
|---------|----------|-------|---|-----------------|
| 18 | Strobe 2 | 000 ⇔ 010 | No function | |
| | | 011 ⇔ 255 | Strobe, slow to fast | |
| 19 | Strobe All | 000 ⇔ 010 | No function | |
| | | 011 ⇔ 255 | Strobe, slow to fast | |

**2-Cell RGBA EXT 17CH**

| Channel | Function | Value | | Percent/Setting |
|---------|----------|-------|---|-----------------|
| 1 | Dimmer | 000 ⇔ 255 | | 0–100% |
| 2 | Dimmer Fine | 000 ⇔ 255 | | 0–100% |
| 3 | Red 1 | 000 ⇔ 255 | | 0–100% |
| 4 | Green 1 | 000 ⇔ 255 | | 0–100% |
| 5 | Blue 1 | 000 ⇔ 255 | | 0–100% |
| 6 | Amber 1 | 000 ⇔ 255 | | 0–100% |
| 7 | Virtual Color Wheel 1 | 000 ⇔ 255 | | Refer to the <u>Virtual Color Wheel Chart</u> for specific values |
| 8 | Color Temperature 1 | 000 ⇔ 255 | | Refer to the <u>Preset Color Temperature Chart</u> for specific values |
| 9 | Strobe 1 | 000 ⇔ 010 | No function | |
| | | 011 ⇔ 255 | Strobe, slow to fast | |
| 10 | Red 2 | 000 ⇔ 255 | | 0–100% |
| 11 | Green 2 | 000 ⇔ 255 | | 0–100% |
| 12 | Blue 2 | 000 ⇔ 255 | | 0–100% |
| 13 | Amber 2 | 000 ⇔ 255 | | 0–100% |
| 14 | Virtual Color Wheel 2 | 000 ⇔ 255 | | Refer to the <u>Virtual Color Wheel Chart</u> for specific values |
| 15 | Color Temperature 2 | 000 ⇔ 255 | | Refer to the <u>Preset Color Temperature Chart</u> for specific values |
| 16 | Strobe 2 | 000 ⇔ 010 | No function | |
| | | 011 ⇔ 255 | Strobe, slow to fast | |
| 17 | Strobe All | 000 ⇔ 010 | No function | |
| | | 011 ⇔ 255 | Strobe, slow to fast | |

**2-Cell RGB EXT 15CH**

| Channel | Function | Value | | Percent/Setting |
|---------|----------|-------|---|-----------------|
| 1 | Dimmer | 000 ⇔ 255 | | 0–100% |
| 2 | Dimmer Fine | 000 ⇔ 255 | | 0–100% |
| 3 | Red 1 | 000 ⇔ 255 | | 0–100% |
| 4 | Green 1 | 000 ⇔ 255 | | 0–100% |
| 5 | Blue 1 | 000 ⇔ 255 | | 0–100% |
| 6 | Virtual Color Wheel 1 | 000 ⇔ 255 | | Refer to the <u>Virtual Color Wheel Chart</u> for specific values |
| 7 | Color Temperature 1 | 000 ⇔ 255 | | Refer to the <u>Preset Color Temperature Chart</u> for specific values |
| 8 | Strobe 1 | 000 ⇔ 010 | No function | |
| | | 011 ⇔ 255 | Strobe, slow to fast | |
| 9 | Red 2 | 000 ⇔ 255 | | 0–100% |
| 10 | Green 2 | 000 ⇔ 255 | | 0–100% |

**2-Cell RGB EXT 15CH** (cont.)

| Channel | Function | Value | Percent/Setting |
|---|---|---|---|
| 11 | Blue 2 | 000 ⇔ 255 | 0–100% |
| 12 | Virtual Color Wheel 2 | 000 ⇔ 255 | Refer to the <u>Virtual Color Wheel Chart</u> for specific values |
| 13 | Color Temperature 2 | 000 ⇔ 255 | Refer to the <u>Preset Color Temperature Chart</u> for specific values |
| 14 | Strobe 2 | 000 ⇔ 010 | No function |
| | | 011 ⇔ 255 | Strobe, slow to fast |
| 15 | Strobe All | 000 ⇔ 010 | No function |
| | | 011 ⇔ 255 | Strobe, slow to fast |

**2-Cell RGBAL 10CH**

| Channel | Function | Value | Percent/Setting |
|---|---|---|---|
| 1 | Red 1 | 000 ⇔ 255 | 0–100% |
| 2 | Green 1 | 000 ⇔ 255 | 0–100% |
| 3 | Blue 1 | 000 ⇔ 255 | 0–100% |
| 4 | Amber 1 | 000 ⇔ 255 | 0–100% |
| 5 | Lime 1 | 000 ⇔ 255 | 0–100% |
| 6 | Red 2 | 000 ⇔ 255 | 0–100% |
| 7 | Green 2 | 000 ⇔ 255 | 0–100% |
| 8 | Blue 2 | 000 ⇔ 255 | 0–100% |
| 9 | Amber 2 | 000 ⇔ 255 | 0–100% |
| 10 | Lime 2 | 000 ⇔ 255 | 0–100% |

**2-Cell RGBA 8CH**

| Channel | Function | Value | Percent/Setting |
|---|---|---|---|
| 1 | Red 1 | 000 ⇔ 255 | 0–100% |
| 2 | Green 1 | 000 ⇔ 255 | 0–100% |
| 3 | Blue 1 | 000 ⇔ 255 | 0–100% |
| 4 | Amber 1 | 000 ⇔ 255 | 0–100% |
| 5 | Red 2 | 000 ⇔ 255 | 0–100% |
| 6 | Green 2 | 000 ⇔ 255 | 0–100% |
| 7 | Blue 2 | 000 ⇔ 255 | 0–100% |
| 8 | Amber 2 | 000 ⇔ 255 | 0–100% |

**2-Cell RGB 6CH**

| Channel | Function | Value | Percent/Setting |
|---|---|---|---|
| 1 | Red 1 | 000 ⇔ 255 | 0–100% |
| 2 | Green 1 | 000 ⇔ 255 | 0–100% |
| 3 | Blue 1 | 000 ⇔ 255 | 0–100% |
| 4 | Red 2 | 000 ⇔ 255 | 0–100% |
| 5 | Green 2 | 000 ⇔ 255 | 0–100% |
| 6 | Blue 2 | 000 ⇔ 255 | 0–100% |

## 1-Cell Personalities
### 1-Cell RGBAL FULL 17CH

| Channel | Function | Value | Percent/Setting |
|---|---|---|---|
| 1 | Dimmer | 000 ⇔ 255 | 0–100% |
| 2 | Dimmer Fine | 000 ⇔ 255 | 0–100% |
| 3 | Red | 000 ⇔ 255 | 0–100% |
| 4 | Red Fine | 000 ⇔ 255 | 0–100% |
| 5 | Green | 000 ⇔ 255 | 0–100% |
| 6 | Green Fine | 000 ⇔ 255 | 0–100% |
| 7 | Blue | 000 ⇔ 255 | 0–100% |
| 8 | Blue Fine | 000 ⇔ 255 | 0–100% |
| 9 | Amber | 000 ⇔ 255 | 0–100% |
| 10 | Amber Fine | 000 ⇔ 255 | 0–100% |
| 11 | Lime | 000 ⇔ 255 | 0–100% |
| 12 | Lime Fine | 000 ⇔ 255 | 0–100% |
| 13 | Virtual Color Wheel | 000 ⇔ 255 | Refer to the Virtual Color Wheel Chart for specific values |
| 14 | Color Temperature | 000 ⇔ 255 | Refer to the Preset Color Temperature Chart for specific values |
| 15 | Strobe | 000 ⇔ 010 | No function |
| | | 011 ⇔ 255 | Strobe, slow to fast |
| 16 | Color Macros | 000 ⇔ 015 | No function |
| | | 016 ⇔ 255 | Color macros |
| 17 | Dimmer Speed | 000 ⇔ 051 | Preset dimmer speed from display menu |
| | | 052 ⇔ 101 | Dimmer speed mode off |
| | | 102 ⇔ 152 | Dimmer speed mode 1 (fastest) |
| | | 153 ⇔ 203 | Dimmer speed mode 2 |
| | | 204 ⇔ 255 | Dimmer speed mode 3 (slowest) |

### 1-Cell RGBAL Fine 10CH

| Channel | Function | Value | Percent/Setting |
|---|---|---|---|
| 1 | Red | 000 ⇔ 255 | 0–100% |
| 2 | Red Fine | 000 ⇔ 255 | 0–100% |
| 3 | Green | 000 ⇔ 255 | 0–100% |
| 4 | Green Fine | 000 ⇔ 255 | 0–100% |
| 5 | Blue | 000 ⇔ 255 | 0–100% |
| 6 | Blue Fine | 000 ⇔ 255 | 0–100% |
| 7 | Amber | 000 ⇔ 255 | 0–100% |
| 8 | Amber Fine | 000 ⇔ 255 | 0–100% |
| 9 | Lime | 000 ⇔ 255 | 0–100% |
| 10 | Lime Fine | 000 ⇔ 255 | 0–100% |

### 1-Cell RGBAL EXT 10CH

| 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% |

| Channel | Function | Value | Percent/Setting |
|---------|----------|-------|-----------------|
| 5 | Blue | 000 ⇔ 255 | 0–100% |
| 6 | Amber | 000 ⇔ 255 | 0–100% |
| 7 | Lime | 000 ⇔ 255 | 0–100% |
| 8 | Virtual Color Wheel | 000 ⇔ 255 | Refer to the Virtual Color Wheel Chart for specific values |
| 9 | Color Temperature | 000 ⇔ 255 | Refer to the Preset Color Temperature Chart for specific values |
| 10 | Strobe | 000 ⇔ 010 | No function |
| | | 011 ⇔ 255 | Strobe, slow to fast |

## 1-Cell RGBA EXT 9CH

| 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 | Virtual Color Wheel | 000 ⇔ 255 | Refer to the Virtual Color Wheel Chart for specific values |
| 8 | Color Temperature | 000 ⇔ 255 | Refer to the Preset Color Temperature Chart for specific values |
| 9 | Strobe | 000 ⇔ 010 | No function |
| | | 011 ⇔ 255 | Strobe, slow to fast |

## 1-Cell RGB EXT 8CH

| 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 | Virtual Color Wheel | 000 ⇔ 255 | Refer to the Virtual Color Wheel Chart for specific values |
| 7 | Color Temperature | 000 ⇔ 255 | Refer to the Preset Color Temperature Chart for specific values |
| 8 | Strobe | 000 ⇔ 010 | No function |
| | | 011 ⇔ 255 | Strobe, slow to fast |

## 1-Cell RGBAL 5CH

| 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% |

**1-Cell RGBA 4CH**

| 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% |

**1-Cell RGB 3CH**

| Channel | Function | Value | Percent/Setting |
|---------|----------|-------|-----------------|
| 1 | Red | 000 ⇔ 255 | 0–100% |
| 2 | Green | 000 ⇔ 255 | 0–100% |
| 3 | Blue | 000 ⇔ 255 | 0–100% |

**1-Cell DMX-VCW-CCT 3CH**

| Channel | Function | Value | Percent/Setting |
|---------|----------|-------|-----------------|
| 1 | Dimmer | 000 ⇔ 255 | 0–100% |
| 2 | Virtual Color Wheel | 000 ⇔ 255 | Refer to the Virtual Color Wheel Chart for specific values |
| 3 | Color Temperature | 000 ⇔ 255 | Refer to the Preset Color Temperature Chart for specific values |

## Virtual Color Wheel

The Ovation B-565FC includes a feature called the Virtual Color Wheel (VCW). This feature is available as a stand-alone control mode for manual use and also as a control channel in each of the products' DMX personalities. Over thirty pre-mixed colors based on popular gel colors from are available to call up for easier programming. When manually selecting the colors on the Virtual Color Wheel, the referenced gel number appears on the LED display for convenient selection and ease-of-use.

**These formulas were developed to match a gelled tungsten lamp. When developing the above formulas, the master dimmer on the Ovation B-565FC was adjusted to match the gelled output of the tungsten fixture. Please note that due to the efficacy of the light source, Virtual Color Wheel output may look different from the gelled equivalent on a tungsten source at full intensity. The master dimmer values may need to be adjusted to match the tungsten fixture in the most saturated colors.**

### 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 | R4590-Cal90 Yellow | 150 | 125 | 002 | 255 | 043 |
| 014 ⇔021 | R11-Light Straw | 235 | 108 | 005 | 255 | 076 |
| 022 ⇔028 | R312-Canary | 171 | 036 | 000 | 120 | 255 |
| 029 ⇔035 | R03-Dark BAmber | 255 | 015 | 017 | 255 | 170 |
| 036 ⇔043 | R18-Flame | 255 | 000 | 010 | 255 | 143 |
| 044 ⇔051 | R20-Medium Amber | 255 | 000 | 003 | 255 | 075 |
| 052 ⇔059 | R21-Golden Amber | 188 | 000 | 002 | 255 | 044 |
| 060 ⇔067 | R26-Light Red | 255 | 000 | 002 | 021 | 002 |
| 068 ⇔075 | R27-Medium Red | 255 | 000 | 002 | 000 | 000 |
| 076 ⇔083 | R33-No Color Pink | 255 | 130 | 025 | 255 | 027 |
| 084 ⇔091 | R337-True Pink | 255 | 013 | 041 | 235 | 182 |
| 092 ⇔099 | R38-Light Rose | 255 | 015 | 027 | 030 | 255 |
| 100 ⇔107 | R41-Salmon | 255 | 000 | 004 | 115 | 009 |
| 108 ⇔115 | R42-Deep Salmon | 255 | 000 | 004 | 011 | 008 |
| 116 ⇔121 | R44-Middle Rose | 255 | 000 | 022 | 081 | 039 |
| 122 ⇔130 | R349-Fisher Fuchsia | 160 | 000 | 025 | 000 | 004 |
| 131 ⇔138 | R54-Special Lavender | 255 | 162 | 043 | 255 | 140 |
| 139 ⇔146 | R64-Light Steel Blue | 012 | 255 | 070 | 076 | 115 |
| 147 ⇔154 | R364-Blue Bell | 030 | 187 | 085 | 215 | 255 |
| 155 ⇔162 | R65-Daylight Blue | 004 | 255 | 062 | 093 | 049 |
| 163 ⇔170 | R80-Primary Blue | 005 | 255 | 190 | 003 | 012 |
| 171 ⇔178 | R81-Urban Blue | 008 | 250 | 145 | 005 | 088 |
| 179 ⇔186 | R82-Surprise Blue | 005 | 209 | 255 | 015 | 074 |
| 187 ⇔194 | R382-Congo Blue | 005 | 000 | 200 | 013 | 003 |
| 195 ⇔202 | R83-Medium Blue | 007 | 112 | 255 | 005 | 007 |
| 203 ⇔210 | R383-Sapphire Blue | 004 | 108 | 255 | 003 | 004 |
| 211 ⇔218 | R90-Dk Yellow Green | 004 | 255 | 000 | 005 | 003 |
| 219 ⇔226 | R91-Primary Green | 027 | 255 | 006 | 000 | 020 |
| 227 ⇔234 | R92-Turquoise | 007 | 255 | 021 | 070 | 076 |
| 235 ⇔242 | R93-Blue Green | 007 | 255 | 031 | 085 | 115 |
| 243 ⇔250 | R393-Emerald Green | 002 | 255 | 017 | 002 | 020 |
| 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 | **2800K** | 255 | 051 | 018 | 255 | 255 |
| 026 ⇔050 | **3200K** | 179 | 082 | 025 | 185 | 220 |
| 051 ⇔075 | **3500K** | 255 | 130 | 033 | 255 | 240 |
| 076 ⇔100 | **4000K** | 255 | 219 | 045 | 198 | 255 |
| 101 ⇔125 | **4500K** | 140 | 255 | 055 | 255 | 255 |
| 126 ⇔150 | **5000K** | 107 | 255 | 063 | 200 | 255 |
| 151 ⇔175 | **5600K** | 082 | 255 | 072 | 190 | 230 |
| 176 ⇔200 | **6000K** | 074 | 255 | 078 | 167 | 255 |
| 201 ⇔225 | **6500K** | 065 | 255 | 084 | 140 | 255 |
| 226 ⇔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 1–9** or **Fade**).
3. Select the desired speed (**1–100**).

> **The auto programs cannot be edited.**

## Master/Slave

The Master/Slave mode allows a group of Ovation B-565FC products (the slaves) to simultaneously duplicate the output of another Ovation B-565FC (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 an auto program as explained in Auto Programs, or a static setting.

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

## Dimmer Profiles

This setting determines how fast the output of the Ovation B-565FC 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, DIM1 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 B-565FC.
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 B-565FC 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.**

## Display Orientation

This setting allows for selection of the display orientation.
1. Go to the **Display** main menu,
2. Select **Normal** (upright display) or **Inversed** (inverted display).

### Back Light

This setting allows for selection of the amount of time the backlight on the Ovation B-565FC's display stays on after the last button is pressed on the control panel.
1. Go to the **Back Light** main level.
2. Select **On** (remains on), **10S** (10 seconds), **20S** (20 seconds), or **30S** (seconds).

### 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**, **Device ID**, or **UID**.

### Factory Reset

This option restores the Ovation B-565FC to factory default settings.
1. Go to the **Factory Setting** main level.
2. Select **No** or **Yes**.

## Web Server

The Ovation B-565FC Web Server can be accessed by any computer on the same network as the product. It allows network access to system information, settings such as control protocol and starting address, color output testing, and the ability to change the Web Server password.
1. Connect the product to a Windows computer with a network cable.
2. On the computer, set the IP address of the new network to have the same first 3 digits as the IP address of the product (See IP Address).
3. Enter the IP address of the product into the URL bar of a web browser on the computer.
4. Enter both the User Name and Password as **admin** to log in.

### Home

The Web Server Home page displays the details of all available control protocols, as well as the technical specifications for the Ovation B-565FC.

### Settings

The Web Server Settings page provides options for control. From the drop-down menus, the Protocol, Universe, IP Address, Start Address, Personality, Dimmer Mode, and PWM Frequency can all be edited. Click **Save Settings** to send the new configuration to the product.

### Output

On the Web Server Output page, an output test of the product's LEDs can be performed, by either editing the values of each LED manually (by typing the number or moving the fader), or by selecting a sample color. The page will show the current output color on the bottom left. To stop the output test, click **Click to Stop**.

### Security

The Web Server Security page gives the option to change the password to the connected product's web server. Enter the old password (**admin**, by default) and the new password twice, then click **Save Settings** to change the password.

# 6. 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.**

# 7. TECHNICAL SPECIFICATIONS

**Dimensions and Weight**

| Length | Width | Height | Weight |
|---|---|---|---|
| 13.9 in (355 mm) | 7.48 in (190 mm) | 8.14 in (207 mm) | 11.6 lb (5.3 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 | 120 V, 60 Hz | 230 V, 50 Hz |
|---|---|---|
| Consumption | 125 W | 119 W |
| Operating Current | 1.04 A | 0.51 A |
| Power linking current (products) | 13.6A (13 products) | 13.6 A (23 products) |
| Fuse | T 2 A, 250 V | T 2 A, 250 V |

| 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 | Power | Lifespan |
|---|---|---|
| LED | 3 W | 50,000 hours |

| Color | Quantity | Current |
|---|---|---|
| Red | 12 | 650 mA |
| Green | 12 | 650 mA |
| Blue | 12 | 650 mA |
| Amber | 8 | 650 mA |
| Lime | 12 | 650 mA |

**Photometrics**

| Parameter | Horizontal Value | Horizontal Value w/ Filter | Vertical Value | Vertical Value w/ Filter |
|---|---|---|---|---|
| Beam Angle | 19° | 36° | 20° | 20° |
| Field Angle | 37° | 66° | 37° | 40° |
| Illuminance @ 5 m | 1,637 lux | | | |
| Installed Optics | 20° | | | |

**Thermal**

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

**DMX**

| I/O Connector | Channel Range |
|---|---|
| 3- and 5-pin XLR | **1 Cell:** 3, 3, 4, 5, 8, 9, 10, 10, 17<br>**2 Cell:** 6, 8, 10, 15, 17, 19, 20, 31 |

**Ordering**

| Product Name | Item Code | UPC Number |
|---|---|---|
| Ovation B-565FC | 03031236 | 781462215842 |

# 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

| World Headquarters | |
|---|---|
| **General Information** | **Technical Support** |
| Address: 5200 NW 108th Ave. | Voice: (844) 393-7575 |
| Sunrise, FL 33351 | Fax: (954) 756-8015 |
| Voice: (954) 577-4455 | Email: chauvetcs@chauvetlighting.com |
| Fax: (954) 929-5560 | **Website** |
| Toll Free: (800) 762-1084 | www.chauvetlighting.com |
| **EUROPE** | |
| **General Information** | **Technical Support** |
| Address: Stokstraat 18 | Email: eutech@chauvetlighting.eu |
| 9770 Kruishoutem | **Website** |
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| **General Information** | **Technical Support** |
| Address: Unit 1C | Email: uktech@chauvetlighting.com |
| Brookhill Road Industrial Estate | |
| Pinxton, Nottingham, UK | **Website** |
| NG16 6NT | www.chauvetlighting.co.uk |
| Voice: +44 (0) 1773 511115 | |
| Fax: +44 (0) 1773 511110 | |
| **MEXICO** | |
| **General Information** | **Technical Support** |
| Address: Av. de las Partidas 34 - 3B, Zona Industrial Lerma | Email: servicio@chauvet.com.mx |
| Lerma, Edo. de México, CP 52000 | **Website** |
| Voice: +52 (728) 285-5000 | www.chauvet.com.mx |

Visit the applicable website above to verify our contact information and instructions to request support. Outside the U.S., United Kingdom, Ireland, Mexico or Benelux, contact the dealer of record.

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