# HURRICANE
## HAZE 2D

**User Manual**

CHAUVET DJ

# Edition Notes

The Hurricane Haze 2D User Manual includes a description, safety precautions, installation, programming, operation, and maintenance instructions for the Hurricane Haze 2D as of the release date of this edition.

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## Document Printing

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

## Intended Audience

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

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## Document Revision

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

| Revision | Date | Description |
|---|---|---|
| 13 | 06/2025 | Updated format and added new Maintenance information. |

# TABLE OF CONTENTS

# 1. Before You Begin

## What Is Included

- Hurricane Haze 2D
- Power cable
- Timer remote
- Quick Reference Guide

## Unpacking Instructions

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

## Claims

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

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

## Text Conventions

| Convention | Meaning |
|---|---|
| 1–512 | A range of values |
| 50/60 | A set of values of which only one can be chosen |
| Settings | A menu option not to be modified |
| <ENTER> | A key to be pressed on the product's control panel |
| ON | A value to be entered or selected |

## Symbols

| Symbol | Meaning |
|---|---|
| ⚠ | 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. |

## Safety Notes

These Safety Notes include important information about installation, use, and maintenance of the Hurricane Haze 2D.

- ■ **ALWAYS:**
  - ♦ Connect to a grounded circuit.
  - ♦ Connect to operating voltages as specified on the product's spec sticker.
  - ♦ Disconnect from power before replacing the fuse.
  - ♦ Disconnect from its power source during periods of inactivity.
  - ♦ Use a safety cable when suspending overhead.
  - ♦ Heed all restrictions and warnings on the spec sticker.
  - ♦ Mount in a location with at least 20 in (50 cm) of ventilation.
  - ♦ Replace the fuse with the same type and rating.
  - ♦ Use Chauvet fluids.
  - ♦ Drain the tank before transporting or storing the product.
  - ♦ Keep the machine level.
  - ♦ Clean the machine after every use.
  - ♦ Clean around the product during and after use, as surfaces may become slippery.

- ■ In the event of a serious operating problem, stop using immediately.
- ■ All fog/haze machines may set off smoke detectors.
- ■ **DO NOT:**
  - ♦ Open this product or attempt any repairs. It contains no user-serviceable parts.
  - ♦ Use if the power cable is crimped or damaged.
  - ♦ Disconnect by pulling on the power cable.
  - ♦ Allow flammable materials close to the product when it is operating.
  - ♦ Touch the housing when it is on.
  - ♦ Block any ventilation holes/slots in the housing.
  - ♦ Connect to a dimmer or rheostat.
  - ♦ Carry the product by its power cable.
  - ♦ Operate in temperatures higher than 104°F (40°C).
  - ♦ Expose to environments that exceed the Ingress Protection (IP) rating.
  - ♦ Expose to rain or moisture.
  - ♦ Use outdoors.
  - ♦ Submerge.
  - ♦ Set this product on a flammable surface.
  - ♦ Touch the output nozzle. It may be hot for several hours after use.
  - ♦ Drink the fluid.
  - ♦ Add perfume, alcohol, gasoline or any other chemical to the fluid.
  - ♦ Use for space-heating purposes.
  - ♦ Leave machine unattended.
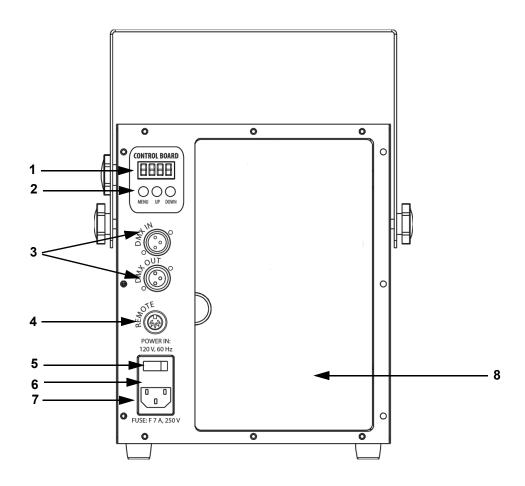  - ♦ Overfill.

**Keep this User Manual for future use. If the product is sold to someone else, be sure that they also receive this document.**
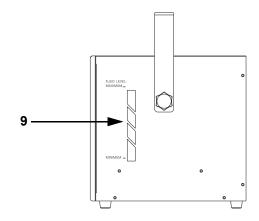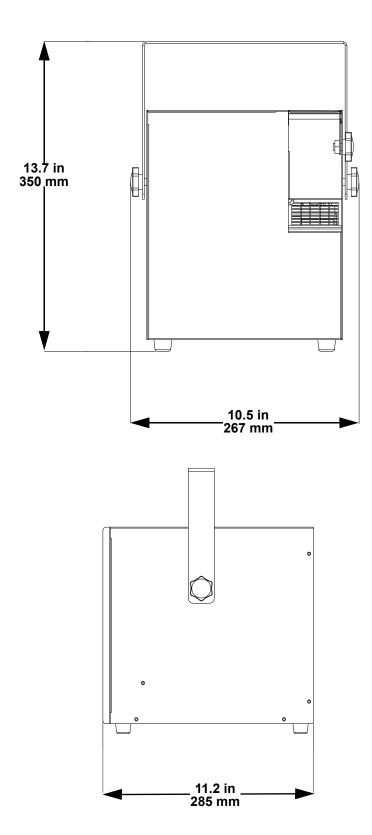
# 2. Introduction

## Product Overview



| # | Name | # | Name |
|---|------|---|------|
| **1** | LED display | **6** | Fuse holder |
| **2** | Menu buttons | **7** | Power in |
| **3** | 3-pin DMX in/out | **8** | Fluid access panel |
| **4** | Wired remote | **9** | Fluid tank Indicator LEDs |
| **5** | Power switch | | |

## Product Dimensions



**13.7 in**
**350 mm**

**10.5 in**
**267 mm**

**11.2 in**
**285 mm**

# 3. Setup

## AC Power

The Hurricane Haze 2D has a fixed voltage power supply, and it can work with an input voltage range of either 120 VAC, 60 Hz or 230 VAC, 50 Hz, depending on the specific model.

To determine the product's power requirements (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or refer to the product's specifications chart. The listed current rating indicates the product's average current draw under normal conditions.
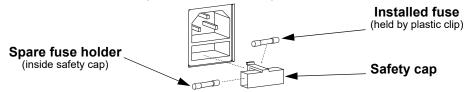
⚠️
- **Always connect the product to a protected circuit (a circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.**
- **To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.**

ℹ️ **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.**

## Fuse Replacement

1. Disconnect the product from power.
2. Wedge the tip of a flat-head screwdriver into the slot of the fuse holder.
3. Pry the fuse holder out of the housing.
4. Remove the blown fuse from the holder and replace with a fuse of the exact same type and rating.
5. Insert the fuse holder back in place and reconnect power.



**Installed fuse** (held by plastic clip)

**Spare fuse holder** (inside safety cap)

**Safety cap**

📝 **The product does not ship with a spare fuse; however, the safety cap has room for a spare.**

⚠️ **Disconnect the product from the power outlet before replacing the fuse.**

📝 **Always replace a blown fuse with one of the same type and rating, F 7 A, 250 V.**

ℹ️ **While operating the Hurricane Haze 2D, make sure there is adequate fog fluid in the machine to prevent pump and heater damage. When the fog fluid level becomes low, simply add more fog fluid to continue using the Hurricane Haze 2D.**

## Fluid Tank Indicator LEDs

Indicator LEDs show the status of the fill tank as follows:
- Red - the heater is currently warming up
- Flashing Red - the heater is currently warming up and requires refilling
- Blue - the hazer is ready
- Flashing Blue - the heater is warmed but the fluid tank requires refilling

**Note:** The Hurricane Haze 2D may be operational while the heater is warming up.

📝 **See the [General Troubleshooting](#) section to identify possible sources of trouble and find solutions.**

# Mounting

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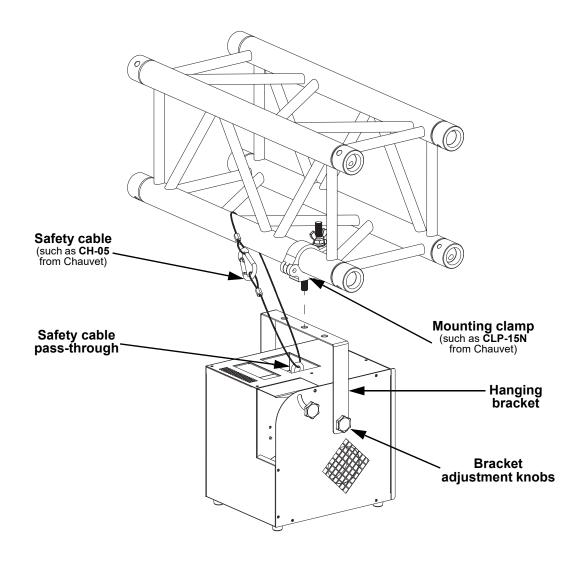
## Orientation

The Hurricane Haze 2D may be mounted in any position; however, make sure adequate ventilation is provided around the product.

## Rigging

- Before deciding on a location for the product, always make sure there is easy access to the product for maintenance and programming.
- Make sure that the structure and attachment points can support the weight before hanging the product (see the Technical Specifications section for weight information).
- When mounting the product overhead, always use a safety cable. Mount the product securely to a rigging point, such as an elevated platform or a truss.
- When rigging the product onto a truss, use a mounting clamp of appropriate weight capacity. The bracket has a 13-mm hole, which is appropriate for this purpose.
- 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.
- When mounting the product on the floor, make sure that the product and cables are away from people and vehicles.

**Mounting Diagram**



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

Safety cable pass-through

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

Hanging bracket

Bracket adjustment knobs

# 4. Operation

## Control Panel Operation

To access the control panel functions, use the three buttons located underneath the display. Please refer to the Product Overview to see the button locations on the control panel.

| Button | Function |
|---|---|
| **<MENU>** | Press to find an operation mode or to back out of the current menu option |
| **<UP>** | Press to scroll up the list of options or to find a higher value |
| **<DOWN>** | Press to scroll down the list of options or to find a lower value |

## Menu Map

Refer to the Hurricane Haze 2D product page on www.chauvetdj.com for the latest menu map and software.

| Mode | Programming Levels | | Description |
|---|---|---|---|
| **DMX Mode** | **d*** | **001–512** | Selects the DMX starting address |
| **Manual Mode** | **Haze Volume** | **h001–h005** | Low–high |
| | **Blower Speed** | **f001–f005** | Low–high |

## DMX Configuration

The Hurricane Haze 2D works with a DMX controller. Information about DMX is in the Chauvet DMX Primer, which is available from the Chauvet website
https://www.chauvetprofessional.com/wp-content/uploads/2016/06/DMX_Primer.pdf.

### Starting Address

The Hurricane Haze 2D uses up to 2 DMX channels, which defines the highest configurable address to **511**.

When selecting a starting DMX address, always consider the number of DMX channels the DMX mode uses. If the starting address is set too high, access to some channels could be restricted.

For information about the DMX protocol, download the DMX Primer from www.chauvetdj.com.

To select the personality and starting address, do the following:

1. Press **<MENU>** repeatedly until **d*** shows on the display.
2. Use **<UP>** or **<DOWN>** to select the starting address, from **001–512.**

**There are three methods used to control the operation of the Hurricane Haze 2D. The priority levels are:**
**1. DMX**
**2. Digital display**
**3. Remote controller**

## DMX Channel Assignments and Values

| Channel | Function | Value | Percent/Setting |
|---------|----------|-------|-----------------|
| 1 | Blower speed | 000 ⇔ 005 | Off |
| | | 006 ⇔ 075 | Level 1 |
| | | 076 ⇔ 125 | Level 2 |
| | | 126 ⇔ 165 | Level 3 |
| | | 166 ⇔ 185 | Level 4 |
| | | 186 ⇔ 255 | Level 5 |
| 2 | Haze volume | 000 ⇔ 038 | Off |
| | | 039 ⇔ 069 | Level 1 |
| | | 070 ⇔ 101 | Level 2 |
| | | 102 ⇔ 132 | Level 3 |
| | | 133 ⇔ 187 | Level 4 |
| | | 188 ⇔ 255 | Level 5 |

## Standalone Configuration

Set the product in one of the standalone modes to operate without a DMX controller.

**Never connect a product that is operating in any standalone mode to a DMX string connected to a DMX controller. Products in standalone mode may transmit DMX signals that could interfere with the DMX signals from the controller.**

### Manual Mode

To run the Hurricane Haze 2D in Manual Mode, follow the instructions below.
1. Press **<MENU>** repeatedly until **h\*\*\*** shows on the display.
2. Use **<UP>** or **<DOWN>** to adjust the haze volume.
3. Press **<MENU>** repeatedly until **f\*\*\*** shows on the display.
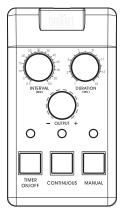4. Use **<UP>** or **<DOWN>** to adjust the blower speed.

# FC-T Wired Timer Remote

The FC-T wired timer controller allows users to automatically trigger fog output by setting interval and duration times. LED indicator lights display the machine and controller's current state. Rotary knobs set interval time, output, and duration time, while **<MANUAL>** and **<CONTINUOUS>** buttons allow overriding control.

1. Plug the product in to power.
2. Plug the FC-T in to the wired controller socket on the back of the product. (See the <u>Product Overview</u>.)
3. Allow the Hurricane Haze 2D three to four minutes to heat up before continuing.

**FC-T Wired Timer Controller Overview**



## Wired Timer Controller (FC-T) Operation

| Option | Function |
|---|---|
| **INTERVAL** | Sets amount of time between outputs of fog in timer mode. |
| **DURATION** | Sets duration of outputs of fog in timer mode. |
| **OUTPUT** | Sets volume of fog output. |
| **TIMER ON/OFF** | Activates timer mode. |
| **CONTINUOUS** | Activates continuous output mode. |
| **MANUAL** | Triggers fog output while held. |

**Wired Timer Remote Operation**

The FC-T has three modes of operation: timer, continuous, and manual.

**Timer Mode**

To operate the Hurricane Haze 2D with the timer function:

1. Set the desired output level with the **<OUTPUT>** knob.
2. Set the **<INTERVAL>** and **<DURATION>** knobs to the desired positions.
   - The **<INTERVAL>** knob sets the amount of time in between bursts of fog.
   - The **<DURATION>** knob sets the length of time that the fog machine will run during the burst.
3. Press the **<TIMER ON/OFF>** latching button. The LED indicator above the button will light up.
4. Press the **<TIMER ON/OFF>** button again to turn off the timer.

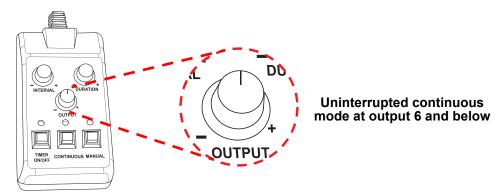> **The MANUAL Button will override the timer function.**

**Continuous Mode**

To trigger the Hurricane Haze 2D to continuously output fog:

1. Set the desired output level with the **<OUTPUT>** knob.
2. Press the **<CONTINUOUS>** latching button. The LED indicator above the button will light up. The fog machine outputs fog until the **<CONTINUOUS>** button is pressed again.

3.  Press the **<CONTINUOUS>** button again to stop the fog output.



**Uninterrupted continuous mode at output 6 and below**

DO NOT run the product in continuous mode for longer than 15 minutes. Continuous mode must be followed by an equal amount of time without output (For example: follow 8 minutes of continuous operation with 8 minutes of no output). DO NOT trigger the product to output fog during that time.

*   **In order for Continuous mode to run uninterrupted, without the Hurricane Haze 2D stopping to reheat, set the <OUTPUT> knob no higher than 6. At Output levels above 6, the fog machine will cycle through intermittent bursts of fog during its reheating program.**
*   **The duration of continuous fog output is based on the capacity of the tank.**
*   **Fluid consumption will be significantly increased during continuous mode.**

**Manual Mode**

To trigger the Hurricane Haze 2D manually with the FC-T:

1.  Set the desired output level with the **<OUTPUT>** knob.
2.  Press and hold the **<MANUAL>** button on the FC-T. The LED indicator above the button will light up. The fog machine will output for the duration of the button press.
3.  Release the **<MANUAL>** button to stop the fog output.

## General Troubleshooting

| Symptom | Indicator Status | Possible Cause | Possible Action |
|---|---|---|---|
| No output or short output | **Red** | Heater warming up | Allow the product to warm up completely. This should take less than 10 minutes. |
| | **Red flashing** | Air bubble in fluid line | Allow the product to warm up completely. |
| | | | Turn fog machine 45° to flatten out the bubble and allow the fog fluid to flow properly |
| | | | Turn off the product for 5 seconds, and then turn it back on. Repeat as necessary. After more than 10 attempts, contact Customer Service. |
| | **Blue** | Incorrect fluid | Clean thoroughly with Chauvet FCQ. For full instructions, see Fog Machine Maintenance. Refill with Chauvet water-based fog fluid. |
| | | Blocked pipes | Contact Customer Service |
| | | Failing part | Contact Customer Service |
| Spitting fluid | **Blue flashing** | Incorrect fluid | Clean thoroughly with Chauvet FCQ. For full instructions, see Fog Machine Maintenance. Refill with Chauvet water-based fog fluid. |
| | | Blocked pipes | Contact Customer Service |
| | | Failing part | Contact Customer Service |
| | **Blue** | Incorrect fluid | Clean thoroughly with Chauvet FCQ. For full instructions, see Fog Machine Maintenance. Refill with Chauvet water-based fog fluid. |
| | | Blocked pipes | Contact Customer Service |
| | | Failing part | Contact Customer Service |
| Normal | **Blue** | Normal | Normal function |
| Circuit breaker or fuse keeps blowing | **N/A** | Excessive load on the circuit | Make sure that the total load does not exceed the recommended capacity of the breaker or fuse's nominal current |
| | | Short circuit along the power lines | Check the power lines and power cords |
| Product does not power up | | No energy on power outlet | Check power outlet Change to another outlet |
| | | Loose or damaged power cord | Check the power cord |
| | | Blown fuse | Replace blown fuse with a good one of the same type and rating |
| | | Internal problem | Send product for repair |
| Product does not respond to DMX | **Blue** | Wrong starting address on the product | Set the correct starting address on the product |
| | | Wrong polarity setting on the DMX controller | Change the signal polarity on the controller |
| | | Loose or damaged DMX cable | Check the DMX cable entering the faulty unit |
| | | Internal problem | Send product for repair |
| Intermittent DMX Problems | | Signal cables are not DMX compatible | Replace non-DMX cables with true DMX cables |
| | | Interference with AC or radio signals | Keep DMX cables away from AC wires or radio equipment |
| | | DMX cable too long | Use a shorter DMX cable or install an optically coupled DMX amplifier right before the product with intermittent problems |
| | | Terminator not connected | Install a terminator |

# 5. Maintenance

## Fog Machine Maintenance

Proper maintenance of Chauvet atmospheric products will increase the reliability and lifespan of products. Maintenance should be completed every 30-90 days, depending on how frequently products are used.

- **When performing maintenance, use Chauvet Fog Cleaner Quart (FCQ) for U.S., or cleaning Fluid 250 (CF250) for EU products. Run the fluid through the system to reduce the accumulation of particulate matter in the heating element.**
- **DO NOT allow the atmospheric product to become clogged. Once a product is clogged, the cleaning procedure is unlikely to effectively clear the clog.**

The recommended cleaning procedure is as follows:

1. Unplug the product from power.
2. Remove the hose from the fluid tank/reservoir. Remove the FCQ/CF250 screw cap and place the hose in the Fog Cleaner bottle.
3. Connect the product to power and allow it to warm up (if not already warmed up).
4. Run the FCQ/CF250 through the product in a well-ventilated area for 60-90 seconds of continuous, full output. Some products require multiple cycles to achieve this.

**DO NOT allow the product to run dry!**

5. Move the hose from the FCQ/CF250 to a small bottle with distilled water (only use distilled water, not tap or any other water or liquid). Run distilled water through the product for at least 30 seconds to clear any remaining cleaning solution from the pump and heater.

- **Turn off the product when not in use or when storing.**
- **DO NOT leave the cleaning solution in the product.**
- **DO NOT operate the product without fluid at any time.**
- **DO NOT leave Chauvet atmospheric fluid in the product tank/reservoir for more than 10 days without use.**

**Fog Cleaner Quart (FCQ) and Cleaning Fluid 250 (CF250) were specifically developed by Chauvet to clean Chauvet atmospheric products equipped with heaters. Use FCQ/CF250 regularly, no longer than 90 days between cleanings (30-60 days if the product is used more frequently), to prevent shortening the life of the product.**

## Storage

Before storing the Chauvet atmospheric product, run FCQ/CF250 through the system as described in the cleaning procedure above and do not refill the tank with atmospheric fluid before storing the product.

**Test-run the Chauvet atmospheric products monthly to achieve the best performance.**

Chauvet does not guarantee products will withstand storage for long durations, even if the cleaning process is followed. Please use caution and test regularly to ensure the product continues to function properly.

# 6. Technical Specifications

**Dimensions and Weight**

| Length | Width | Height | Weight |
|---|---|---|---|
| 11.2 in (285 mm) | 10.5 in (267 mm) | 13.7 in (350 mm) | 18.7 lb (8.5 kg) |

**Note:** Dimensions in inches are rounded.

**Power**

| Power Supply Type | Range | Voltage Selection |
|---|---|---|
| Fixed | 120 VAC, 60 Hz or 230 VAC, 50 Hz | Fixed |

| Parameter | 120 V, 60 Hz | 230 V, 50 Hz |
|---|---|---|
| Consumption | 533 W | 533 W |
| Operating Current | 4.4 A | 2.3 A |
| Fuse | F 7 A, 250 V | F 7 A, 250 V |

| Power I/O | U.S./Worldwide | UK/Europe |
|---|---|---|
| Power input connector | IEC | IEC |
| Power cable plug | Edison (U.S.) | Local Plug |

**Operation**

| Heat-Up Time | Tank Capacity | Fluid Consumption | Fog Output |
|---|---|---|---|
| 5 min | 0.7 gal (2.5 l) | 8.2 ml/min | 1,200 cfm |

**Thermal**

| Maximum External Temperature | Cooling System |
|---|---|
| 104 °F (40 °C) | Convection |

**DMX**

| I/O Connector | Channel Range |
|---|---|
| 3-pin XLR | 2 |

**Ordering**

| Product Name | Item Code | UPC Number |
|---|---|---|
| Hurricane Haze 2D | 05070167 | 781462206093 |
| Hurricane Haze 2D 220V | 05070389 | 781462207410 |

RoHS

UL 1573
CSA C22.2 No. 166
E113093

UKCA CE

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## Warranty & Returns

**For warranty terms and conditions and return information, please visit our website.**
For customers in the United States and Mexico: www.chauvetlighting.com/warranty-registration.
For customers in the United Kingdom, Republic of Ireland, Belgium, the Netherlands, Luxembourg, France, and Germany: www.chauvetlighting.eu/warranty-registration.