Legend™

300E
SPOT
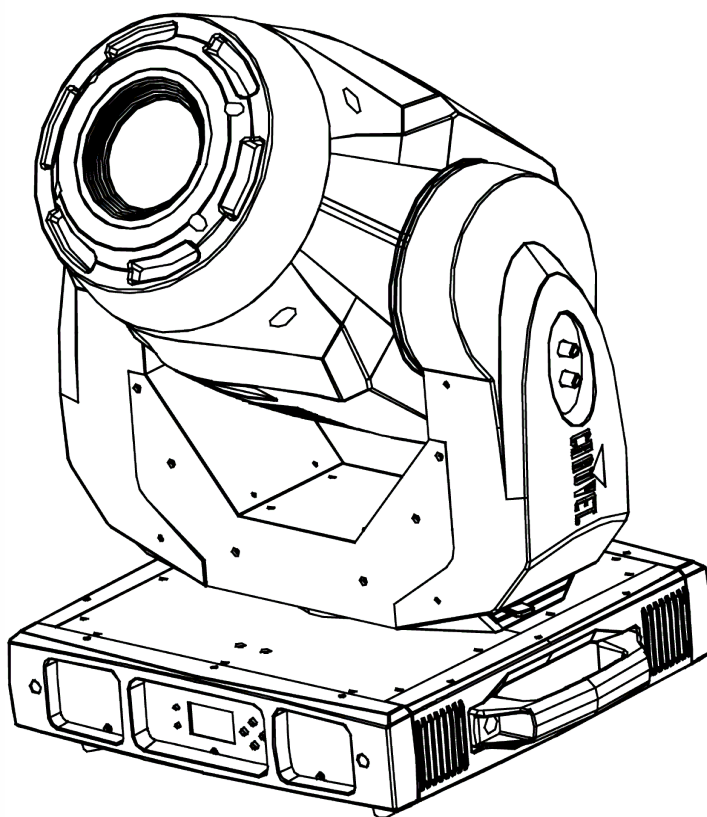
User Manual

CHAUVET®

Edition Notes

The Legend 300E Spot User Manual Rev. 01g covers the description, safety precautions, installation, programming, operation, and maintenance of the Legend 300E Spot. CHAUVET® released this edition of the Legend 300E Spot User Manual Rev. 01g in December 2010.

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

Intended Audience

Any person in charge of installing, operating, and/or maintaining the Legend 300E Spot should read the guide that shipped with it and this manual in their entirety before installing, operating, or maintaining this product.

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Document Revision

The Legend 300E Spot User Manual Rev. 01g supersedes all previous versions of this manual. Please discard any older versions of this manual you may have, whether in printed or electronic format, and replace them with this version.

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Product at a Glance

Use on Dimmer	✘	Auto Programs	✘
Outdoor Use	✘	Auto-ranging Power Supply	P
Sound Activated	✘	Replaceable Fuse	P
DMX	P	User Serviceable	✘
Master/Slave	✘	Duty Cycle	✘

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Table of Contents

1. Before You Begin

What is Included

- One Legend 300E Spot
- Two omega clamps
- Three additional gobos
- One Warranty Card
- One Quick Reference Guide

Unpacking Instructions

Immediately upon receiving this product, carefully unpack it and check the container in which you received it. Make sure that you have received all the parts indicated above and that they are all in good condition. If the material inside the container (this product and any other accessory included with it) appears damaged from shipping, or if the container shows signs of mishandling, notify the shipper immediately. In addition, retain the container and all the packing material for inspection.

See the *Claims* section in the *Technical Information* chapter.

Typographic Conventions

Convention	Meaning
1~512	A range of values in the text
50/60	A set of mutually exclusive values in the text
[10]	A DIP switch to be configured
Claims	A new term, or a section or chapter of this document
"COLORado™ UM"	The name of another publication or manual
\<SET\>	A button on the fixture's control panel
Settings	A fixture function or a menu option
MENU > Settings	A sequence of menu options
1~10	A range of menu values from which to choose in a menu
Yes/No	A set of two mutually exclusive menu options in a menu
ON	A unique value to entered or select in a menu

Icon Meaning

Icon	Meaning
⚠	This icon indicates critical installation, configuration or operation information. Failure to comply with this information may render the fixture partially or completely inoperative, damage third-party equipment, or cause harm to the user.
ⓘ	This icon indicates important installation or configuration information. Failure to comply with this information may prevent the fixture from functioning correctly.
📝	This icon indicates useful, although non-critical information.

The term "DMX" used throughout this document refers to the USITT DMX512-A transmission protocol.

Safety Notes

Please read the following notes carefully because they include important safety information about the installation, usage and maintenance of this product.

It is important to read all these notes before starting to work with this product.

There are no user serviceable parts inside this product. Any reference to servicing it you may find from now on in this User Manual will only apply to properly CHAUVET® certified technicians. Do not open the housing or attempt any repairs unless you are one of them.

Please refer to all applicable local codes and regulations for the proper installation of this product.

Personal Safety

· Avoid direct eye exposure to the light source while the fixture is on.
· Always disconnect this product from its power source before servicing.
· Always connect this product to a grounded circuit to avoid the risk of electrocution.
· Lamp explosion hazard! Do not open the lamp cover within five minutes of having turned off the fixture.
· The bulb remains hot for a long time after turn off. Never touch the bulb barehanded and always handle it by its metallic contacts.
· Do not touch this product's housing when operating because it may be very hot.

Mounting and Rigging

· This product is for indoor use only! To prevent risk of fire or shock, do not expose this product to rain or moisture.
· Make sure there are no flammable materials close to this product while operating.
· When hanging this product, always secure it to a fastening device using a safety chain/cable (not provided).
· Do not carry this fixture from the head; use the handles instead.

Power and Wiring

· Always make sure that you are connecting this product to the proper voltage, as per the specifications in this manual or on the product's sticker.
· Connect this fixture ONLY to a grounded and protected circuit.
· Never connect this product to a dimmer pack.
· Make sure the fixture's power cable is not crimped or damaged.
· Never disconnect this product by pulling or tugging on the power cable.

Operation

· Do not operate this fixture if you see damage on the housing, lenses, ultraviolet filter, or cables; have the damaged parts replaced by an authorized technician at once.
· Do not aim this fixture toward any surface closer than 16 feet (5 m). Otherwise, you may damage or overheat the illuminated surface.
· Do not cover the ventilation slots when the fixture is operating to avoid internal overheating.
· Do not aim this fixture toward the Sun. Otherwise, the lenses could concentrate the solar energy and cause internal overheating.
· The maximum ambient temperature (Ta) is 104° F (40° C). Do not operate this product at a higher temperature.
· In case of a serious operating problem, stop using this product immediately!

In the unlikely event that your Legend 300E Spot may require service, please contact CHAUVET® Technical Support.

2. Introduction

Product Description

The Legend 300E Spot is a compact, electronic moving yoke spot fixture equipped with a 300-watt HID lamp. It includes a color wheel with eight slots plus white. It also comes with two gobo wheels, one with seven rotating slot-n-lock gobos plus open, and the other with eight fixed gobos plus open. It also includes remote focus and a rotating 3-facet prism.

Features

- 21 or 29-channel compact, fully electronic, 300-watt moving yoke spot
- Pan: 540^0
- Tilt: 270^0
- Color wheel: 7 colors + white
  Split/linear colors
  Color wheel spins at variable speed
- Gobo wheel 1:   Indexed, rotating gobo wheel with gobo shake
  7 metal, slot-n-lock gobos + open
  Gobo wheel spins at variable speed
  16-bit gobo rotation
- Gobo wheel 2:   Indexed gobo wheel
  8 metal gobos + open
  Gobo wheel spins at variable speed
- Static frost
- CTC filters (5,600 K and 3,200 K)
- CMY color mixing system with vector speed adjustments
- 3-facet rotating prism
- Variable shutter
- Variable iris
- Variable focus
- Variable 16-bit dimming (0~100%)
- Linear zoom (16~35^0)
- Individual reset of pan/tilt, color, gobo, shutter, prism, focus
- Move-in-black for pan/tilt, color, gobo
- Remote fixture reset, lamp on/off, and vector control speed adjustments
- Built-in movement macros with range adjustments
- Built-in color macros
- Battery powered display

Additional Features

- 3-pin and 5-pin DMX connections
- Three additional free gobos
- User-configurable lamp ignition delay
- User-configurable maintenance reminder
- Electronic ballast with power factor correction
- Electronic power supply
- Automatic pan & tilt correction
- Pan & tilt locks
- Lamp & fixture use timers
- Power saver mode

Options

- W-DMX (wireless DMX) receiver
- W-DMX (wireless DMX) transmitter

DMX Channel Summary

Mode 1

DMX Channel	Function
1	Pan
2	Pan Fine
3	Tilt
4	Tilt Fine
5	Pan/Tilt Speed
6	Dimmer
7	Shutter
8	Color
9	Cyan
10	Magenta
11	Yellow
12	Gobo 1
13	R-Gobo 1
14	Gobo 2
15	Focus
16	Zoom
17	Prism
18	R-Prism
19	Iris
20	Frost
21	Function

Mode 2

DMX Channel	Function
1	Pan
2	Pan Fine
3	Tilt
4	Tilt Fine
5	Pan/Tilt Speed
6	Dimmer
7	Dimmer Fine
8	Shutter
9	Color
10	Cyan
11	Magenta
12	Yellow
13	CMY Speed
14	Gobo 1
15	R-Gobo 1
16	R-Gobo 1 Fine
17	Gobo 2
18	Focus
19	Zoom
20	Prism
21	R-Prism
22	R-Prism Fine
23	Iris
24	Frost
25	Pan/Tilt Macro
26	P/T Macro Speed
27	Preset Color
28	Color Macro
29	Function

Product Overview

23.7 in
601 mm

17.9 in
456 mm

14.5 in
370 mm

Control Panel

FUNCTION DISPLAY

POWER

DMX

MENU   ENTER

Front Panel

Fuse Holder

Rear Panel

DMX In/Out

Power On/Off

Power Cord
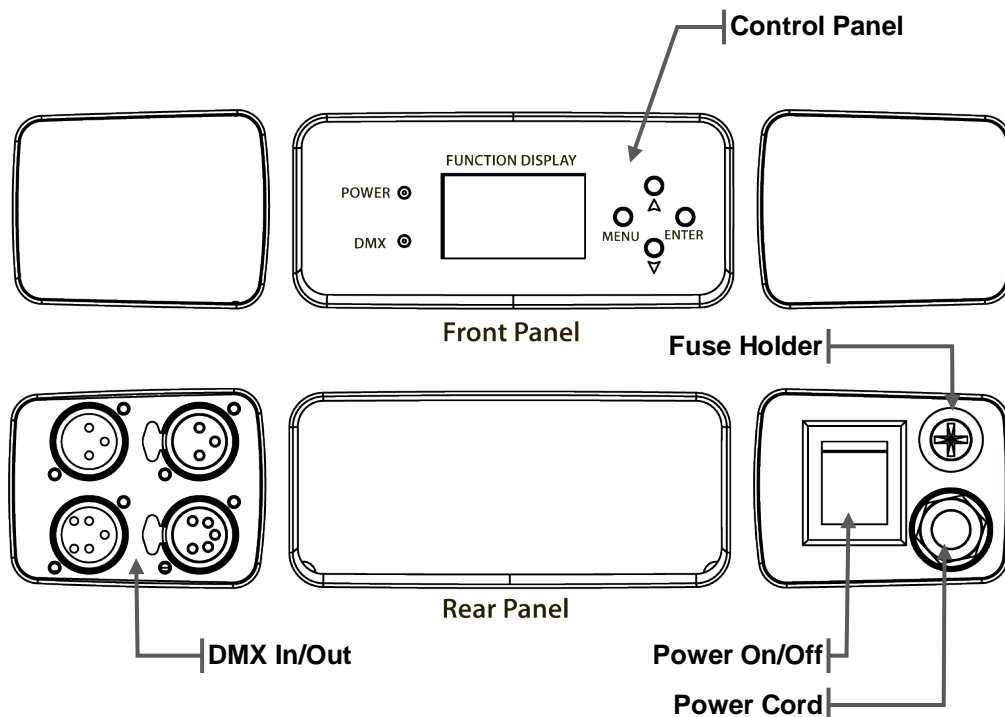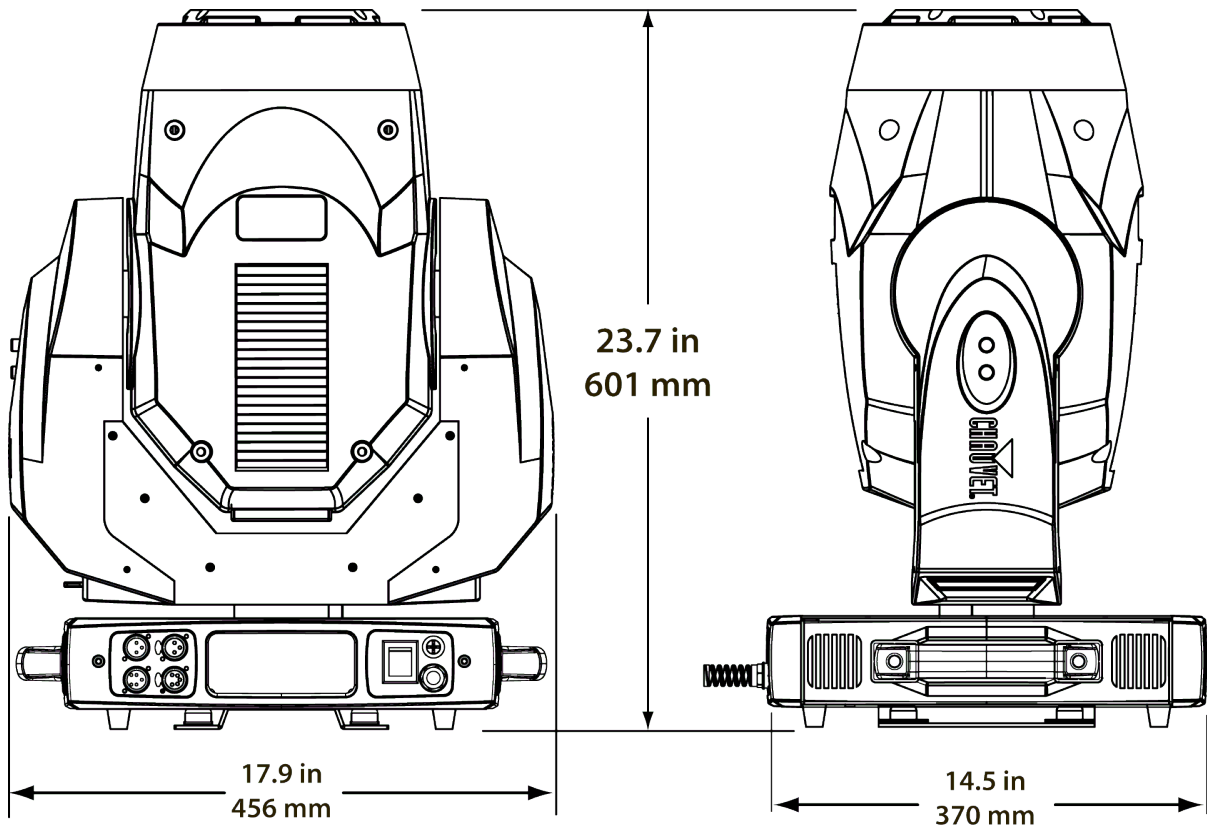
3. Setup

AC Power

The Legend 300E Spot has an auto-ranging power supply that can work with an input voltage range of 100~240 VAC, 50/60 Hz.

Make sure that you are connecting this product to the proper voltage, as per the specifications in this guide, the product's user manual, or on the product's sticker.

Always connect the Legend 300E Spot to a protected circuit with an appropriate electrical ground to avoid the risk of electrocution or fire.

To determine the power requirements for the Legend 300E Spot see the label affixed to the side of the fixture. Alternatively, you may refer to the corresponding specifications chart in the *Technical Information* chapter of this manual.

The listed current rating indicates the maximum current draw during normal operation. Please refer to the *Sizing the Circuit Breakers* section in the *Appendix* chapter of this manual.

Never connect the Legend 300E Spot 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 Legend 300E Spot comes with a bare ended power input cord. The fixture side of this power cord enters the fixture through a strain reliever (rubber boot) and it cannot be disconnected from the fixture. Use the table below to wire the plug to the power cord.

Connection	Wire (US)	Wire (Europe)	Screw Color
AC Live	Black	Brown	Yellow or Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

Make sure to disconnect the fixture's power cord before replacing a blown fuse, and always replace it with a fuse of the same type and rating.

Fuse Replacement

1) With a Philips screwdriver, unscrew the fuse holder out of its housing and remove the blown fuse from its holder.
2) Replace the blown fuse with a fuse of the exact same type and rating.
3) Reverse step 1 and reconnect power.

DMX Linking

You may link the Legend 300E Spot to a DMX controller using a standard DMX serial connection. If using other DMX compatible fixtures with the Legend 300E Spot, it is possible to control them individually with a single DMX controller.

If you are not familiar with the DMX standard, you may download the "DMX Primer" document from the CHAUVET® Web site.

DMX Modes

The Legend 300E Spot uses the standard DMX data connection for its DMX Modes (Mode 1 and Mode 2). You will find information about these DMX modes in the *Introduction* chapter (brief description), the *Operation Instructions* chapter (configuration details), and the *DMX Values* section (individual channel values)

Gobo Wheels

The Legend 300E Spot comes with two gobo wheels. Gobo wheel #1 has seven rotating gobos, while gobo wheel #2 has eight fixed gobos, as indicated below. The diagram shows the first and last gobo on each wheel, as per the *DMX Values* tables.
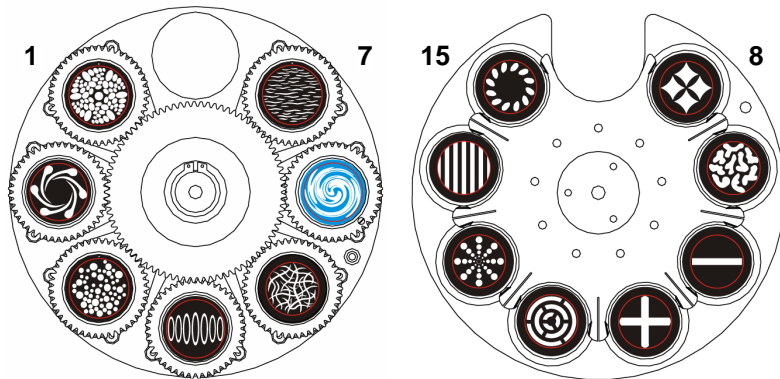
Rotating Gobos   **Fixed Gobos**

Extra Gobos

26.8 mm   26.8 mm   26.8 mm

24 mm   24 mm   24 mm

Color Wheel

CTC-5600 K, Pink, Green, Dark Blue, Red, Orange, CTC-3200 K
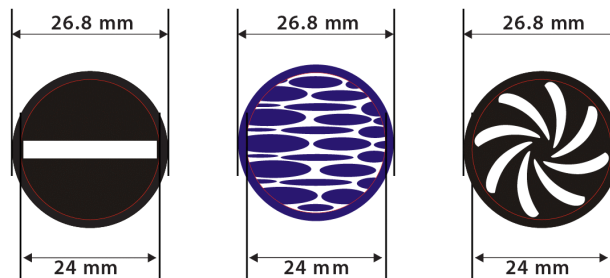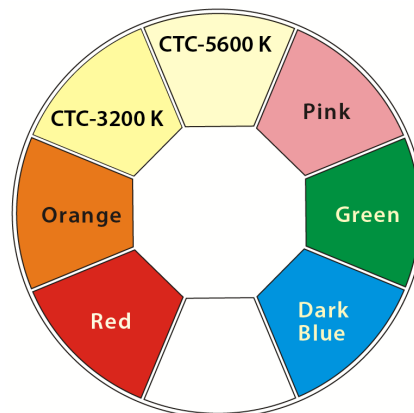
Gobo Replacement

The gobos in the Legend 300E Spot's gobo wheel are removable from their gobo plates. This operation is quite simple, although it requires the technician to be careful and to follow the recommended procedure.

- **Make sure to disconnect the fixture's power cord before replacing a gobo**
- **Always replace a gobo with a gobo of the same dimensions.**
- **When inserting a glass gobo, always make sure that the shinny side of the gobo (glass base) faces the lamp. This provides a layer of protection against the high temperature from the lamp.**

Procedure

1) Turn the fixture off and disconnect it from the power outlet.
2) Open the head cover by loosening the four fastening screws at the sides of the top cover.
3) Separate the gobo plate away from the gobo wheel by pushing it toward the front of the moving head (direction 1 in the diagram). Be careful not to push the gobo out of the gobo plate.
4) Extract the gobo plate by pulling it outward (direction 2 in the diagram).
5) On a flat surface, remove the expansion ring that holds the gobo in place and remove the gobo from the gobo plate.
6) Insert a new gobo and hold it in place with the expansion ring.
7) Slide the tip of the gobo plate under the pressure plate near the center of the gobo wheel.
8) Push the gobo plate inwards. DO NOT force the gobo plate into the gobo wheel slot. If correctly installed, the gobo plate should accommodate itself in the gobo wheel slot.

Gobo Replacement Diagram
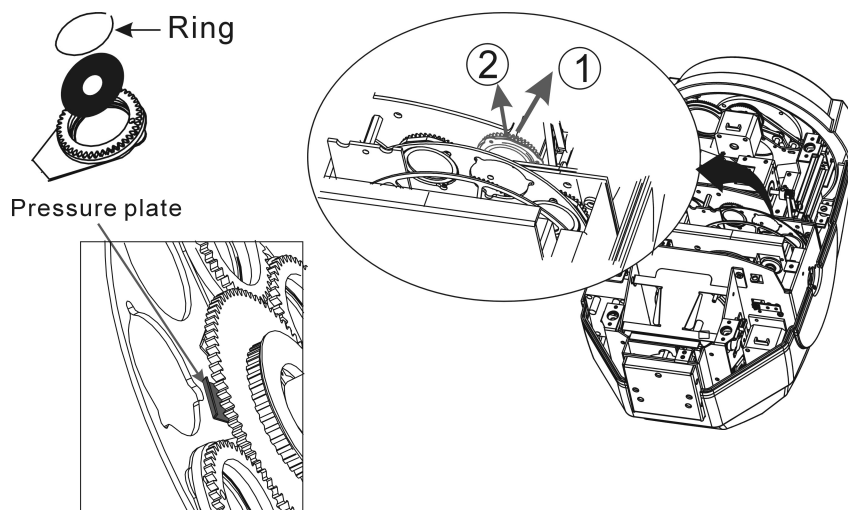
Lamp Replacement

The Legend 300E Spot is equipped with a Philips MSR Gold 300/2 lamp. This lamp uses a socket called FastFit, which allows for fast and easy lamp changes. Follow the procedure below to safely change the Legend 300E Spot's lamp.

Procedure

1) Turn the fixture off and disconnect it from the power outlet.
2) Wait at least 15 minutes for the lamp to cool down.
3) Loosen the two screws on the lamp cover (marked "A" in the diagram).
4) Lift and rotate the lamp cover as per the diagram to expose the base of the lamp.
5) Rotate the ceramic base of the lamp 90º counterclockwise.
6) Pull the lamp out by holding it from its base only.
7) Insert the new lamp and turn it 90º clockwise.
8) Reverse steps 3 and 4.
9) Use the adjustment screws (marked "B" in the diagram) to position the lamp in the center of the reflector to obtain the best output.

Lamp Replacement Diagram

Lamp cover

Lamp base
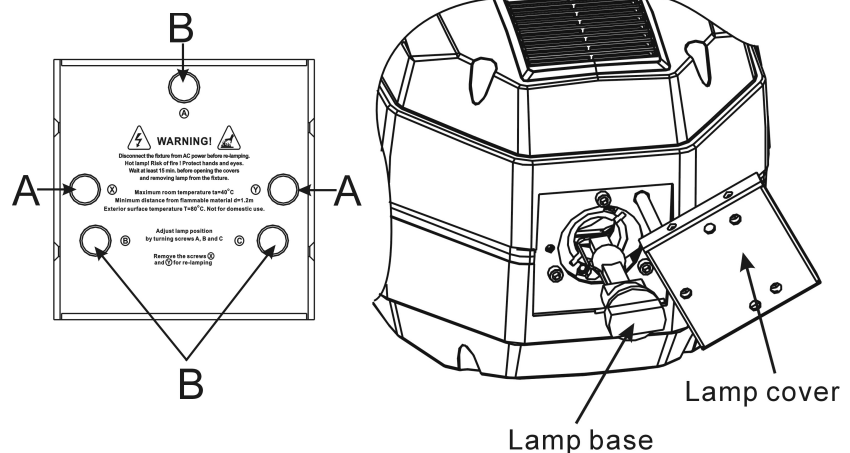
Increasing the Lamp's Life

· ALWAYS turn the lamp off by using the DMX controller or the fixture's control panel. Then wait at least five minutes before switching off the fixture. This will keep the fans running to extract any remaining heat from the fixture's head.
· DO NOT power cycle the fixture unless it is necessary.
· DO NOT touch the lamp without wearing gloves to avoid leaving grease on the bulb or on the contacts that could reduce the lamp's life.
· ALWAYS change the lamp when it has reached its recommended lifespan to avoid the risk of lamp explosion.

Mounting

Before mounting this fixture, read and follow the safety recommendations indicated in the *Safety Notes* (page 2 of this manual).

Orientation

Always mount this fixture in any safe position while making sure that there is adequate room around it for ventilation.

Make sure to mount this fixture away from any flammable material as indicated in the *Safety Notes* (page 2 of this manual).

Rigging

CHAUVET® recommends following the general guidelines below when mounting the Legend 300E Spot.

- When selecting an installation location, consider ease of access to the fixture for operation, programming adjustments, and routine maintenance.
- Never mount the fixture in places where rain, high humidity, extreme temperature changes, or restricted ventilation may affect it.
- If hanging this fixture, make sure that the location where you are mounting the fixture can support its weight. Please see the *Technical Specifications* section of this manual for the weight requirement of this fixture.

Procedure

The Legend 300E Spot comes with an already installed mounting bracket to which you will be able to attach the two included omega clamps. Be aware that you will have to use two mounting points per fixture. In addition, you will have to use a safety cable (not included) to link the fixture to the structure.
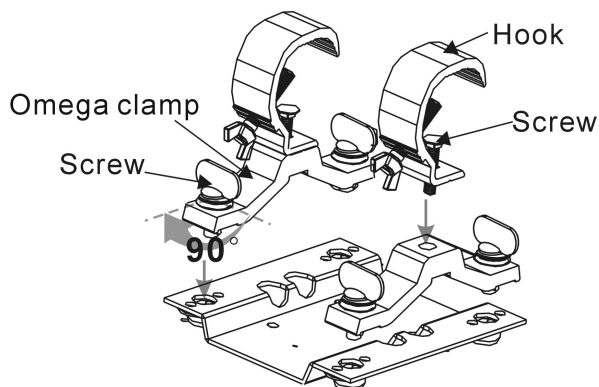
Product Mounting Diagram
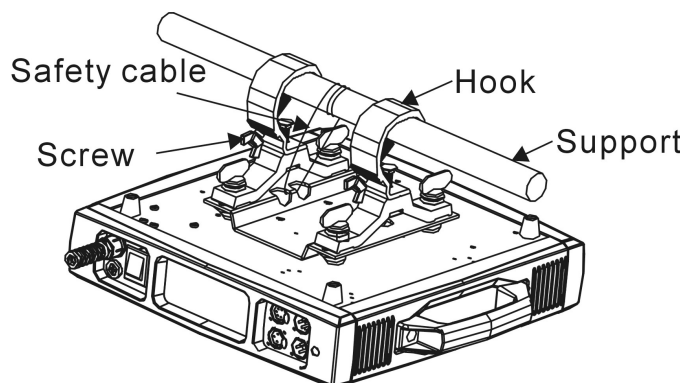
4. Operation

Control Panel Description

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 upwards through the menu list and increases the numeric value when in a function
<DOWN>	Navigates downwards through the menu list and decreases the numeric value when in a function

LCD Display

The Legend 300E Spot features a backlit liquid crystal display (LCD) that provides plenty of information regarding the fixture's settings and status. In addition, the LCD is reversible. This allows reading it normally whether the fixture is on the floor or hanging from a truss.
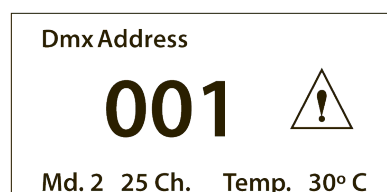
Upon power up, the LCD will show the Legend logo and the fixture identification, as shown on the left figure above. After completing the power up tests, the LCD will show the DMX address, the DMX mode, and the temperature, along with the warning sign if the tests have detected an error.

Press <ENTER> to read the corresponding error message (see *Error Messages* in the *Technical Information* section).

Press <ENTER> while looking at the error messages to clear them.

Control Options

You can set the Legend 300E Spot start address in the 001~512 DMX range. This allows for the control of up to 17 fixtures in the 29-channel Mode 2. The Legend 300E Spot works with any compatible DMX controller using standard DMX cables or the optional W-DMX receiver.

Programming

Carry out all the programming procedures indicated below from the control panel. Refer to the *Menu Map* page to learn how the menu options relate to each other

Navigation Buttons

To enter programming mode, press **<MENU>** until you see the Main Menu.

To highlight a menu option or to change a setting, press **<UP>** or **<DOWN>**.

To change menu levels as shown in the *Menu Map,* press **<ENTER>** or **<MENU>**. This is equivalent to moving right and left of the Menu Map, respectively.

To accept the current or new value, press **<ENTER>**.

To return to the previous menu without making changes, press **<MENU>**.

To exit programming mode, press **<MENU>** until you see the Main Menu or do not press any button for 30 seconds.

DMX Functions	From the Main Menu, highlight *DMX Functions* and press **<ENTER>** (a new menu with the DMX functions will open).
DMX Address	1) Highlight *DMX Address* (the current address will show).
	2) Press **<MENU>** to exit or continue below.
	3) To change the current address, press **<ENTER>** (a pop up window will open).
	a) Change the starting address (**001~512**).
	b) Accept the new value.
DMX Mode	1) Highlight *DMX Channel Mode* (the current mode will show).
	2) Press **<MENU>** to exit or continue below.
	3) To change the current mode, press **<ENTER>** (a pop up window will open).
	a) Select a DMX mode (**Mode 1/Mode 2**).
	b) Accept the selected option.
View DMX Values	1) Highlight *View DMX Value*.
	2) Press **<MENU>** to exit or continue below.
	3) Press **<ENTER>** (the value for each of the attributes of the current DMX mode will show).
	a) Scroll along the list to see the values of all the current attributes.
	b) Return to the previous menu.

The list will show either 17 or 25 attributes, depending on the current DMX mode.

W-DMX Settings	1) Highlight *WDMX Setting*
	2) Press **<MENU>** to exit or continue below.
	3) To see the WDMX settings, press **<ENTER>** (a sub-menu will open).
	4) Press **<MENU>** to exit or continue below.
	5) To activate or deactivate W-DMX, highlight *Active* (the current setting will show) and press **<ENTER>** (a pop up window will open).
	a) Select **YES** to activate W-DMX or **NO** to deactivate W-DMX.
	b) Accept the selected option.
	6) To enable or disable retransmission, highlight *Retransmit* (the current setting will show) and press **<ENTER>** (a pop up window will open).
	a) Select **YES** to enable retransmission or **NO** to deactivate retransmission.
	b) Accept the selected option.
	7) To reset the memory, highlight *Reset Memory* and press **<ENTER>** (a pop up window will open).
	a) Select **YES** to reset the memory or **NO** to exit without resetting.
	b) Accept the selected option.
	8) Return to the previous menu.

The W-DMX functionality requires the W-DMX transceiver installed on the Legend 300E Spot fixture.

Fixture Settings	From the Main Menu, highlight ***Fixture Settings*** and press **<ENTER>** (a new menu with the fixture settings will open).

Reverse Pan Direction	1) Highlight ***Pan Inverse*** (the current setting will show).
	2) To reverse the pan direction, press **<ENTER>** (a pop up window will open).
	   a) Select **YES** to reverse the pan direction or **NO** to use the normal pan direction.
	   b) Accept the selected option.

Reverse Tilt Direction	1) Highlight ***Tilt Inverse*** (the current setting will show).
	2) To reverse the tilt direction, press **<ENTER>** (a pop up window will open).
	   a) Select **YES** to reverse the tilt direction or **NO** to use the normal tilt direction.
	   b) Accept the selected option.

Head Motion Black Out	1) Highlight ***Bl.o P/T Moving*** (the current setting will show).
	2) To black out the output when the head moves, press **<ENTER>** (a pop up window will open).
	   a) Select **YES** to black out the output when the head tilts or pans, or **NO** to keep the output on while the head moves.
	   b) Accept the selected option.

Color Change Black Out	1) Highlight ***Bl.o Color Change*** (the current setting will show).
	2) To black out the output when the color wheel changes, press **<ENTER>** (a pop up window will open).
	   a) Select **YES** to black out the output during a color change or **NO** to keep the output on to see the color changing.
	   b) Accept the selected option.

Gobo Change Black Out	1) Highlight ***Bl.o Gobo Change*** (the current setting will show).
	2) To black out the output when the gobo wheel changes, press **<ENTER>** (a pop up window will open).
	   a) Select **YES** to black out the output during a gobo change or **NO** to keep the output on to see the gobo changing.
	   b) Accept the selected option.

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Lamp Settings	From the Main Menu, highlight *Fixture Settings* and press **<ENTER>**.
(i)	**The lamp will not ignite if the ambient temperature is 104º F (45º C) or higher.**
Lamp On / Off	1) Highlight *On/Off* (the current setting will show).
	2) To turn the lamp on or off, press **<ENTER>** (a pop up window will open).
	a) Select **ON** to turn the lamp on or **OFF** to turn the lamp off.
	b) Accept the selected option.
Lamp Status During Power On	1) Highlight *State/Power On* (the current setting will show).
	2) To change the lamp status during power on, press **<ENTER>** (a pop up window will open).
	a) Select **ON** to turn on the fixture and the lamp simultaneously or **OFF** to turn on the fixture without turning on the lamp.
	b) Accept the selected option.
Remote Turn Off	1) Highlight *Off Via DMX* (the current setting will show).
	2) To enable/disable remote turn off, press **<ENTER>** (a pop up window will open).
	a) Select **YES** to enable fixture turn off from either a DMX controller or its power switch, or **NO** to turn the fixture off only from its power switch.
	b) Accept the selected option.
Lamp On if DMX Present	1) Highlight *On if DMX On* (the current setting will show).
	2) To turn the lamp on when DMX is present, press **<ENTER>** (a pop up window will open).
	a) Select **YES** to turn the lamp on if DMX signal is present, or **NO** to turn the lamp on only from the control panel.
	b) Accept the selected option.
Lamp Off if DMX Absent	1) Highlight *Off if DMX Off* (the current setting will show).
	2) To turn the lamp off when DMX is absent, press **<ENTER>** (a pop up window will open).
	a) Select **YES** to turn the lamp off if DMX signal is absent, or **NO** to turn the lamp off only from the control panel.
	b) Accept the selected option.
Fan Speed	1) Highlight *Cooling Mode* (the current setting will show).
	2) To change the fan speed setting, press **<ENTER>** (a pop up window will open).
	a) Select **AUTO** to allow the fixture's controller to set the fan speed, or **HIGH** to set the fan speed to high mode.
	b) Accept the new selection.
Lamp Strike Delay	1) Highlight *Ignition Delay* (the current setting will show).
	2) To set the lamp strike delay, press **<ENTER>** (a pop up window will open).
	a) Select the delay before the lamp strikes after power up in seconds (**0~255**).
	b) Accept the new value.
Fixture Shut Off Delay	1) Highlight *Low Power Delay* (the current setting will show).
	2) To set the lamp shut off delay, press **<ENTER>** (a pop up window will open).
	a) Select the delay before the fixture powers off after lamp off in seconds (**0~255**).
	b) Accept the new value.

Display Settings

From the Main Menu, highlight *Display Settings* and press **<ENTER>** (a new menu with the DMX functions will open).

Overturn Display

1) Highlight *Display Inverse* (the current setting will show).
2) To overturn the display, press **<ENTER>** (a pop up window will open).
    a) Select **YES** to turn the LCD around (fixture hanging from a truss) or **NO** to keep the normal LCD view (fixture standing on a surface).
    b) Accept the selected option.

LCD Backlight Off

1) Highlight *Backlight Auto Off* (the current setting will show).
2) To configure the LCD backlight, press **<ENTER>**.
    a) Select **YES** to automatically turn the LCD backlight off or **NO** to keep the LCD backlight always on.
    b) Accept the selected option.

Backlight Brightness

1) Highlight *Backlight Intensity* (the current setting will show).
2) To set the backlight brightness, press **<ENTER>** (a pop up window will open).
    a) Select the backlight brightness (**1~10**), being "**1**" the darkest and "**10**" the brightest settings.
    b) Accept the new value.

Temperature Unit

1) Highlight *Temperature Unit* (the current setting will show).
2) To select the temperature unit, press **<ENTER>** (a pop up window will open).
    a) Select **ºC** to show the temperature in the Celsius scale or **ºF** to show the temperature in the Fahrenheit scale.
    b) Accept the selected option.

Fixture Tests

From the Main Menu, highlight *Display Settings* and press **<ENTER>** (a new menu with the test functions will open).

Automatic Fixture Test

1) Highlight *Auto Test*.
2) To start the built-in test sequence, press **<ENTER>**.
    a) The fixture will start the test sequence (pan, tilt, color, CMY, gobo selection, gobo rotation, shutter, dimmer, prism activation, prism rotation, frost, zoom, and lamp on/off).
    b) You can stop the test by pressing **<MENU>**.
    c) Return to the previous menu.

The automatic fixture test runs only once after activation.

Manual Fixture Test

1) Highlight *Manual Test* and press **<ENTER>** (a sub-menu will open).
2) Highlight the desired attribute (the current setting will show).
3) To change the value of the selected attribute, press **<ENTER>** (a pop up window will open).
    a) Set the attribute value (**000~255**) (the fixture will assume the new attribute value as you change it, as if you were working with a DMX controller).
    b) Accept the new value.
4) Repeat steps **2** and **3** for the other attributes.
5) When done with the test, exit to the previous menu (the values of all tested channels will go back to zero).

Fixture Information	From the Main Menu, highlight ***Fixture Information*** and press **<ENTER>** (a new menu with the fixture information will open).

Fixture Operation Timer

1) Highlight ***Fixture Use Time*** (the accumulated fixture's operation time will show).

You cannot modify or reset the fixture operation timer.

Lamp Operation Timer

1) Highlight ***Lamp On Time*** (the accumulated lamp's operation time will show).
2) To reset the lamp operation timer, press **<ENTER>** (a pop up window will open).
   a) Select **Reset Time** to reset the timer or **Exit** to exit without resetting.
   b) Accept the selected option.

Firmware Version

1) Highlight ***Firmware Version***.
2) To see the firmware versions installed, press **<ENTER>** (a sub-menu will open)
   a) The display will show the current firmware version for each of the four CPU boards (**A** through **D**) in the fixture.
   b) Return to the previous menu.

Reset Functions

From the Main Menu, highlight ***Reset*** and press **<ENTER>** (a new menu with the resettable attributes will open).

You can leave this sub-menu at any time by pressing <MENU>.

Pan/Tilt Reset

1) Highlight ***Pan/Tilt*** and press **<ENTER>** (a pop up window will open).
   a) Select **YES** to reset the pan and tilt movements to their home positions.
   b) Accept the selected option.

Color/CMY Reset

1) Highlight ***Color/CMY*** and press **<ENTER>** (a pop up window will open).
   a) Select **YES** to reset the color wheel and the CMY filters to their home positions.
   b) Accept the selected option.

Gobo Reset

1) Highlight ***Gobo*** and press **<ENTER>** (a pop up window will open).
   a) Select **YES** to reset the gobo wheel to its home position.
   b) Accept the selected option.

Shutter/Dimmer Reset

1) Highlight ***Shutter/Dimmer*** and press **<ENTER>** (a pop up window will open).
   a) Select **YES** to reset the shutter and dimmer to their home positions.
   b) Accept the selected option.

Focus/Zoom/Prism/Frost Reset

1) Highlight ***Focus/Zoom/Prism/Frost*** and press **<ENTER>** (a pop up window will open).
   a) Select **YES** to reset the focus, the zoom, the prism, and the frost to their home positions.
   b) Accept the selected option.

Iris/Flatb

1) Highlight ***Iris//Flatb*** and press **<ENTER>** (a pop up window will open).
   a) Select **YES** to reset the iris and flatb to their home positions.
   b) Accept the selected option.

Reset All

1) Highlight ***All*** and press **<ENTER>** (a pop up window will open).
   a) Select **YES** to reset all moving optical parts and the moving head to their home positions.
   b) Accept the selected option.

Special Functions From the Main Menu, highlight *Special Functions* and press **<ENTER>** (a new menu with the special functions will open).

Fixture Maintenance Timers
1) Highlight *Fixture Maintenance* and press **<ENTER>** (the current maintenance interval and remaining time will show).
2) To change the maintenance interval timer, highlight *Interval* and press **<ENTER>** (a pop up window will open).
   a) Select the new interval (in hours).
   b) Accept the new value.
3) To reset the remaining time counter, highlight *Remain Time* and press **<ENTER>** (a pop up window will open).
   a) Select **Reset Time** to reset the timer or **Exit** to exit without resetting it.
   b) Accept the selected option.

It is a good idea to use the Fixture Maintenance Time as a reminder to change the lamp.

Fixture Defaulting
1) Highlight *Factory Setting* and press **<ENTER>** (a pop up window will open).
   a) Select **YES** to default the fixture to factory settings, or **NO** to exit without resetting.
   b) Accept the selected option and wait for the fixture to reset.
   c) Return to the previous menu.

Offset Mode

The Offset Mode provides fine adjustments for the home position of all the moving parts in the optical path as well as the pan and tilt movements. This way, when in their home position, the moving parts do not show any border or reduce the light output.

Entering Offset Mode
1) Press **<MENU>** to enter the regular Menu Mode.
2) Press **<ENTER>** for more than three seconds to enter the Offset Mode (the Offset Mode menu will show).

Pan
1) Select *Pan* and press **<ENTER>** (a pop up window will open).
   a) Select the new value (**-128~127**).
   b) Accept the new value.

Tilt
1) Select *Tilt* and press **<ENTER>** (a pop up window will open).
   a) Select the new value (**-128~127**).
   b) Accept the new value.

Shutter
1) Select *Shutter* and press **<ENTER>** (a pop up window will open).
   a) Select the new value (**0~255**).
   b) Accept the new value.

Dimmer
1) Select *Dimmer* and press **<ENTER>** (a pop up window will open).
   a) Select the new value (**0~255**).
   b) Accept the new value.

Color
1) Select *Color* and press **<ENTER>** (a pop up window will open).
   a) Select the new value (**-128~127**).
   b) Accept the new value.

Cyan
1) Select *Cyan* and press **<ENTER>** (a pop up window will open).
   a) Select the new value (**0~255**).
   b) Accept the new value.

Magenta
1) Select *Magenta* and press **<ENTER>** (a pop up window will open).
   a) Select the new value (**0~255**).
   b) Accept the new value.

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Yellow
1) Select *Yellow* and press **<ENTER>** (a pop up window will open).
   a) Select the new value (**0~255**).
   b) Accept the new value.

Gobo 1
1) Select *Gobo 1* and press **<ENTER>** (a pop up window will open).
   a) Select the new value (**-128~127**).
   b) Accept the new value.

R-Gobo 1
1) Select *R-Gobo 1* and press **<ENTER>**.
   a) Select the new value (**-128~127**).
   b) Accept the new value.

Gobo 2
1) Select *Gobo 2* and press **<ENTER>** (a pop up window will open).
   a) Select the new value (**-128~127**).
   b) Accept the new value.

Iris
1) Select *Iris* and press **<ENTER>** (a pop up window will open).
2) Select the new value (**0~255**) and press **<ENTER>**.
3) Return to the Offset Mode menu.

Prism
1) Select *Prism* and press **<ENTER>** (a pop up window will open).
2) Select the new value (**0~255**) and press **<ENTER>**.
3) Return to the Offset Mode menu.

R-Prism
1) Select *R-Prism* and press **<ENTER>** (a pop up window will open).
   a) Select the new value (**-128~127**).
   b) Accept the new value.

Frost
1) Select *Frost* and press **<ENTER>** (a pop up window will open).
   a) Select the new value (**0~255**).
   b) Accept the new value.

Flab
1) Select *Flatb* and press **<ENTER>** (a pop up window will open).
   a) Select the new value (**0~255**).
   b) Accept the new value.

Focus
1) Select *Focus* and press **<ENTER>** (a pop up window will open).
   a) Select the new value (**0~255**).
   b) Accept the new value.

Zoom
1) Select *Zoom* and press **<ENTER>** (a pop up window will open).
   a) Select the new value (**0~255**).
   b) Accept the new value.

Menu Map

Main Level	2nd Level	3rd Level	4th Level
DMX Functions	**DMX Address**	**001~512**	N/A
	DMX Channel Mode	**Mode 1 (21-channel)**	N/A
		Mode 2 (29-channel)	N/A
	View DMX Value	N/A	N/A
	WDMX Setting (Requires optional WDMX card)	**Active**	**No/Yes**
		Retransmit	
		Reset Memory	
Fixture Setting	**Pan Inverse**	**No/Yes**	N/A
	Tilt Inverse		
	Bl. o P/T Moving		
	Bl. O Color Change		
	Bl. O Gobo Change		
Lamp Setting	**On/Off**	**On/Off**	N/A
	State/Power On		
	Off Via DMX	**No/Yes**	
	On if DMX On		
	Off if DMX Off		
	Cooling Mode	**Auto/High**	
	Ignition Delay	**0~255 s**	
	Low Power Delay	**0~255 s**	
Display Setting	**Display Inverse**	**No/Yes**	N/A
	Backlight Auto Off		
	Backlight Intensity	**1~10**	
	Temperature Unit	**ºC/ºF**	
Fixture Test	**Auto Test**	N/A	N/A
	Manual Test		
Fixture Information	**Fixture Use Time**	N/A	N/A
	Lamp On Time	**Exit/Rest Time**	
	Firmware Version	N/A	
Reset Functions	**Pan/Tilt**	**No/Yes**	N/A
	Color/CMY		
	Gobo		
	Shutter/Dimmer		
	Focus/Zoom/Prism/Frost		
	Iris/Flatb		
	All		
Special Functions	**Fixture Maintenance**	**Interval/Remain Time**	N/A
	Factory Setting	**No/Yes**	

DMX Values

Mode 1	Channel	Function	Value	Percent/Setting
	1	**Pan**	000 – 255	0~540º
	2	**Pan Fine**	000 – 255	0~100%
	3	**Tilt**	000 – 255	0~270º
	4	**Tilt Fine**	000 – 255	0~100%
	5	**Pan/Tilt Speed**	000 – 255	Fast~Slow
	6	**Dimmer**	000 – 255	0~100%
	7	**Shutter**	000 – 007	Black out
			008 – 015	Open
			016 – 131	Slow~Fast
			132 – 167	Slow open/Fast close
			168 – 203	Fast open/Slow close
			204 – 239	Slow open/Slow close
			240 – 247	Random strobe
			248 – 255	Open
	8	**Color**	000 – 007	White
			008 – 015	Red
			016 – 023	Orange
			024 – 031	3,200 K
			032 – 039	5,600 K
			040 – 047	Pink
			048 – 055	Green
			056 – 063	Dark Blue
			064 – 127	Color Mix
			128 – 189	Fast~Slow CW rotation
			190 – 193	Stop
			194 – 255	Slow~Fast CCW rotation
	9	**Cyan**	000 – 255	0~100%
	10	**Magenta**	000 – 255	0~100%
	11	**Yellow**	000 – 255	0~100%
	12	**Gobo 1**	000 – 007	Open
			008 – 014	Gobo 1
			015 – 021	Gobo 2
			022 – 028	Gobo 3
			029 – 035	Gobo 4
			036 – 042	Gobo 5
			043 – 049	Gobo 6
			050 – 057	Gobo 7
			058 – 067	Gobo 1 Shaking
			068 – 077	Gobo 2 Shaking
			078 – 087	Gobo 3 Shaking
			088 – 097	Gobo 4 Shaking
			098 – 107	Gobo 5 Shaking
			108 – 117	Gobo 6 Shaking
			118 – 127	Gobo 7 Shaking
			128 – 189	Fast~Slow CW rotation
			190 – 193	Stop
			194 – 255	Slow~Fast CCW rotation
	13	**R-Gobo 1**	000 – 127	Index
			128 – 189	Fast~Slow CW rotation
			190 – 193	Stop
			194 – 255	Slow~Fast CCW rotation

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Mode 1 (Cont.)	Channel	Function	Value	Percent/Setting
	14	Gobo 2	000 ↷ 005	Open
			006 ↷ 010	Gobo 8
			011 ↷ 015	Gobo 9
			016 ↷ 020	Gobo 10
			021 ↷ 026	Gobo 11
			027 ↷ 031	Gobo 12
			032 ↷ 036	Gobo 13
			037 ↷ 041	Gobo 14
			042 ↷ 047	Gobo 15
			048 ↷ 057	Gobo 8 Shaking
			058 ↷ 067	Gobo 9 Shaking
			068 ↷ 077	Gobo 10 Shaking
			078 ↷ 087	Gobo 11 Shaking
			088 ↷ 097	Gobo 12 Shaking
			098 ↷ 107	Gobo 13 Shaking
			108 ↷ 117	Gobo 14 Shaking
			118 ↷ 127	Gobo 15 Shaking
			128 ↷ 189	Fast~Slow CW rotation
			190 ↷ 193	Stop
			194 ↷ 255	Slow~Fast CCW rotation
	15	Focus	000 ↷ 255	Near~Far
	16	Zoom	000 ↷ 255	0~100%
	17	Prism	000 ↷ 008	Normal
			009 ↷ 255	Prism effect
	18	R-Prism	000 ↷ 127	Index
			128 ↷ 189	Fast~Slow CW rotation
			190 ↷ 193	Stop
			194 ↷ 255	Slow~Fast CCW rotation
	19	Iris	000 ↷ 255	0~100%
	20	Frost	000 ↷ 255	0~100%
	21	Function	000 ↷ 069	No function
			070 ↷ 079	Enable BO during Pan or Tilt
			080 ↷ 089	Disable BO during Pan or Tilt
			090 ↷ 099	Enable BO during color change
			100 ↷ 109	Disable BO during color change
			110 ↷ 119	Enable BO during gobo change
			120 ↷ 129	Disable BO during gobo change
			130 ↷ 139	Lamp on
			140 ↷ 149	Pan / Tilt reset
			150 ↷ 159	Color / CMY reset
			160 ↷ 169	Gobo 1 / Gobo 2 reset
			170 ↷ 179	Shutter reset
			180 ↷ 189	Focus / zoom. / prism / frost reset
			190 ↷ 199	Iris / flatb reset
			200 ↷ 209	Reset all
			210 ↷ 229	No function
			230 ↷ 239	Lamp off
			240 ↷ 249	Enable flatb
			250 ↷ 255	Disable flatb

Mode 2	Channel	Function	Value	Percent/Setting
	1	Pan	000 – 255	0~540º
	2	Pan Fine	000 – 255	0~100%
	3	Tilt	000 – 255	0~270º
	4	Tilt Fine	000 – 255	0~100%
	5	Pan/Tilt Speed	000 – 255	Fast~Slow
	6	Dimmer	000 – 255	0~100%
	7	Dimmer Fine	000 – 255	0~100%
	8	Shutter	000 – 007	Black out
			008 – 015	Open
			016 – 131	Slow~Fast
			132 – 167	Slow open / fast close
			168 – 203	Fast open / slow close
			204 – 239	Slow open / slow close
			240 – 247	Random strobe
			248 – 255	Open
	9	Color	000 – 007	White
			008 – 015	Red
			016 – 023	Orange
			024 – 031	3,200 K
			032 – 039	5,600 K
			040 – 047	Pink
			048 – 055	Green
			056 – 063	Dark Blue
			064 – 127	Color Mix
			128 – 189	Fast~Slow CW rotation
			190 – 193	Stop
			194 – 255	Slow~Fast CCW rotation
	10	Cyan	000 – 255	0~100%
	11	Magenta	000 – 255	0~100%
	12	Yellow	000 – 255	0~100%
	13	CMY Speed	000 – 255	Fast~Slow
	14	Gobo 1	000 – 007	Open
			008 – 014	Gobo 1
			015 – 021	Gobo 2
			022 – 028	Gobo 3
			029 – 035	Gobo 4
			036 – 042	Gobo 5
			043 – 049	Gobo 6
			050 – 057	Gobo 7
			058 – 067	Gobo 1 Shaking
			068 – 077	Gobo 2 Shaking
			078 – 087	Gobo 3 Shaking
			088 – 097	Gobo 4 Shaking
			098 – 107	Gobo 5 Shaking
			108 – 117	Gobo 6 Shaking
			118 – 127	Gobo 7 Shaking
			128 – 189	Fast~Slow CW rotation
			190 – 193	Stop
			194 – 255	Slow~Fast CCW rotation
	15	R-Gobo 1	000 – 127	Index
			128 – 189	Fast~Slow CW rotation
			190 – 193	Stop
			194 – 255	Slow~Fast CCW rotation
	16	R-Gobo 1 Fine	000 – 255	0~100%

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	Channel	Function	Value	Percent/Setting
Mode 2 (Cont.)	17	Gobo 2	000 ↔ 005 006 ↔ 010 011 ↔ 015 016 ↔ 020 021 ↔ 026 027 ↔ 031 032 ↔ 036 037 ↔ 041 042 ↔ 047 048 ↔ 057 058 ↔ 067 068 ↔ 077 078 ↔ 087 088 ↔ 097 098 ↔ 107 108 ↔ 117 118 ↔ 127 128 ↔ 189 190 ↔ 193 194 ↔ 255	Open Gobo 8 Gobo 9 Gobo 10 Gobo 11 Gobo 12 Gobo 13 Gobo 14 Gobo 15 Gobo 8 Shaking Gobo 9 Shaking Gobo 10 Shaking Gobo 11 Shaking Gobo 12 Shaking Gobo 13 Shaking Gobo 14 Shaking Gobo 15 Shaking Fast~Slow CW rotation Stop Slow~Fast CCW rotation
	18	Focus	000 ↔ 255	Near~Far
	19	Zoom	000 ↔ 255	0~100%
	20	Prism	000 ↔ 008 009 ↔ 255	Normal Prism effect
	21	R-Prism	000 ↔ 127 128 ↔ 189 190 ↔ 193 194 ↔ 255	Index Fast~Slow CW rotation Stop Slow~Fast CCW rotation
	22	R-Prism Fine	000 ↔ 255	0~100%
	23	Iris	000 ↔ 255	100~0%
	24	Frost	000 ↔ 007 008 ↔ 255	Normal Frost
	25	Pan/Tilt Macro	000 ↔ 007 008 ↔ 015 016 ↔ 023 024 ↔ 031 032 ↔ 039 040 ↔ 047 048 ↔ 055 056 ↔ 063 064 ↔ 071 072 ↔ 079 080 ↔ 087 088 ↔ 095 096 ↔ 103 104 ↔ 111 112 ↔ 119 120 ↔ 127 128 ↔ 135 136 ↔ 143 144 ↔ 151 152 ↔ 159 160 ↔ 167 169 ↔ 175 176 ↔ 183 184 ↔ 191 192 ↔ 199 200 ↔ 207 208 ↔ 215 216 ↔ 223 224 ↔ 231 232 ↔ 239 240 ↔ 247 248 ↔ 255	Off Macro 1 Macro 2 Macro 3 Macro 4 Macro 5 Macro 6 Macro 7 Macro 8 Macro 9 Macro 10 Macro 11 Macro 12 Macro 13 Macro 14 Macro 15 Macro 16 Macro 17 Macro 18 Macro 19 Macro 20 Macro 21 Macro 22 Macro 23 Macro 24 Macro 25 Macro 26 Macro 27 Macro 28 Macro 29 Macro 30 Macro 31

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Mode 2 (Cont.)	Channel	Function	Value	Percent/Setting
	26	P/T Macro Speed	000 ↔ 255	Fast~Slow
	27	**Preset Color**	000 ↔ 021	White
			022 ↔ 042	Color 1
			043 ↔ 063	Color 2
			064 ↔ 085	Color 3
			086 ↔ 106	Color 4
			107 ↔ 127	Color 5
			128 ↔ 148	Color 6
			149 ↔ 170	Color 7
			171 ↔ 191	Color 8
			192 ↔ 212	Color 9
			213 ↔ 233	Color 10
			234 ↔ 255	Color 11
	28	**Color Macro**	000 ↔ 007	Open
			008 ↔ 028	Macro 1
			029 ↔ 049	Macro 2
			050 ↔ 069	Macro 3
			070 ↔ 090	Macro 4
			091 ↔ 110	Macro 5
			111 ↔ 131	Macro 6
			132 ↔ 152	Macro 7
			153 ↔ 173	Macro 8
			174 ↔ 194	Macro 9
			195 ↔ 215	Macro 10
			216 ↔ 235	Macro 11
			236 ↔ 255	Macro 12
	29	**Function**	000 ↔ 069	No function
			070 ↔ 079	Enable BO during Pan or Tilt
			080 ↔ 089	Disable BO during Pan or Tilt
			090 ↔ 099	Enable BO during color change
			100 ↔ 109	Disable BO during color change
			110 ↔ 119	Enable BO during gobo change
			120 ↔ 129	Disable BO during gobo change
			130 ↔ 139	Lamp on
			140 ↔ 149	Pan / Tilt reset
			150 ↔ 159	Color / CMY reset
			160 ↔ 169	Gobo 1 / Gobo 2 reset
			170 ↔ 179	Shutter reset
			180 ↔ 189	Focus / zoom / prism / frost reset
			190 ↔ 199	Iris / flatb reset
			200 ↔ 209	Reset all
			210 ↔ 229	No function
			230 ↔ 239	Lamp off
			240 ↔ 249	Enable Flatb
			250 ↔ 255	Disable Flatb

5. Technical Information

General Maintenance

To maintain optimum performance and minimize wear, the user should clean the light fixtures frequently. Usage and environment are contributing factors in determining the cleaning frequency. As a rule, the user should clean the fixtures 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.

CHAUVET® recommends cleaning the fixture's external optics with a soft cloth using normal glass cleaning fluid.

To clean a fixture, follow the recommendations below:

· Unplug the fixture from power.

· Wait until the fixture is cold.

· Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external vents and reachable internal components.

· Clean all external optics and glass surfaces with a mild solution of glass cleaner or isopropyl alcohol, and a soft, lint free cotton cloth or a lens cleaning tissue.

· Apply the solution directly to the cloth or tissue and drag any dirt and grime to the outside of the lens.

· Gently polish the external glass surfaces until they are free of haze and lint.

· When cleaning units with a movable mirror, you should keep the contact with the mirror surface to a minimum to avoid scratching or damaging it.

Always dry the external optics and glass surfaces carefully after cleaning them.

If the fixture has one or more fans, refrain from spinning them using compressed air.

Photometrics

Illuminance (lux)

Zoom @ 35º	2,800	695	315
Zoom @ 16º	12,200	3,070	1,400
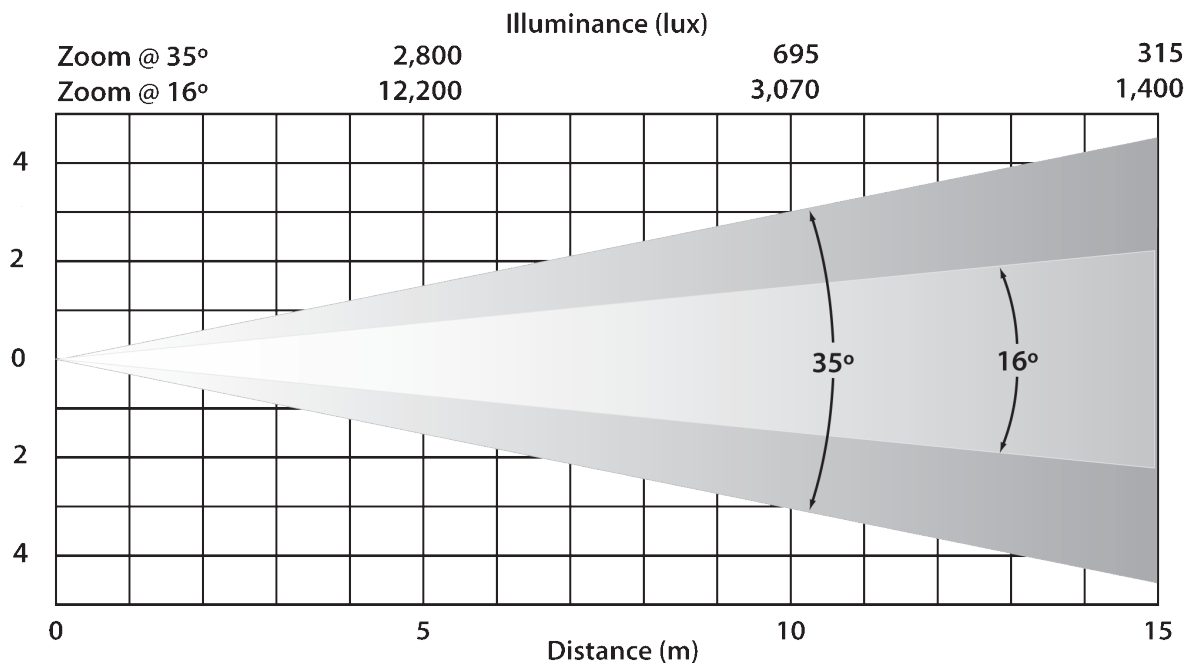
Error Messages

Message	Cause(s)	Action(s)
Lamp Startup Fail	The lamp has not started after being struck	· Check lamp · Check lamp socket and wiring · Check ballast and igniter
Temperature Sense Error	No communication with temperature sensor	· Check sensor wiring · Check sensor integrity · Check control board
Lamp too Hot Low Power	Ambient temperature higher than 105º C; lamp in low power for safety	· Check fans · Check fan wiring · Clean vents
Lamp Too Hot Power Off	Ambient temperature higher than 110º C; lamp off for safety	· Check fans · Check fan wiring · Clean vents
Maintenance Fixture	Fixture Maintenance timer expired	· Proceed with maintenance and reset timer
Lamp On Over 700 Hour	Lamp change is overdue	· Change lamp
Memory Initial Fail	Memory chip error	· Change main board
CPU-B Error **CPU-C Error** **CPU-D Error**	No communication with auxiliary CPU	· Check sensors wiring and position · Check stepper motor, belt, and driver board · Check control boards
Pan Reset Error **Pan Encode Error** **Tilt Reset Error** **Tilt Encode Error**	Moving head failed going to home position after power up or fixture reset	· Check moving head's free movement · Check sensors' wiring and position · Check stepper motor, belt, and driver board · Check the corresponding control board · Check main control board
Shutter Reset Fail **Dimmer Reset Fail** **Color Reset Fail** **Cyan Reset Fail** **Magenta Reset Fail** **Yellow Reset Fail** **Gobo Reset Fail** **R-Gobo Reset Fail** **Effect Reset Fail** **R-Effect Reset Fail** **Frost Reset Fail**	Indicated moving part failed going to home position after power up or fixture reset	· Check part's free movement and integrity · Check sensors' wiring and position · Check stepper motor, belt, and driver board · Check the corresponding control board · Check main control board

Troubleshooting Guide

Symptom	Cause(s)	Action(s)
Fixture does not power up	· No power on outlet	· Repair outlet problem or use another outlet
	· Blown fuse	· Replace blown fuse with same type and rating fuse
	· Bad power cord/plug	· Repair or replace power cord/plug
	· Bad power switch	· Replace power switch
	· Bad power supply	· Replace power supply
	· Bad main controller	· Replace main controller
Fixture powers up but lamp does not ignite	· State/Power On parameter set to NO	· Change parameter to YES
	· Lamp temperature problems	· Check error messages and follow instructions
	· Lamp problems	· Check error messages and follow instructions
Lamp ignited but has low intensity/color temperature	· Dimmer not at full output	· Adjust dimmer value
	· Lamp still cold	· Wait for lamp to come up with full output temperature
	· CTC or CMY filter interfering	· Set color wheel or filter to home position
	· Defective or old lamp	· Replace lamp
	· Misaligned lamp	· Realign lamp
	· Defective lamp wires or socket	· Repair/change wiring or socket
	· Defective ballast	· Replace ballast
Lamp flickers or turns off by itself	· Defective or old lamp	· Replace lamp
	· Temperature problems	· Check error messages and follow instructions
	· Defective lamp wires or socket	· Repair/change wiring or socket
	· Defective ballast	· Replace ballast
Circuit breaker/fuse keeps tripping/blowing	· Excessive circuit load	· Check total load placed on the electrical circuit
	· Short circuit along the power wires	· Check for a short in the electrical wiring
Fixture does not respond to DMX when nearby fixtures on the same universe do	· Wrong DMX addressing	· Check DMX mode and starting DMX address
	· Damaged DMX cables	· Check DMX cables
	· Wrong polarity on the controller	· Check polarity switch settings on the controller
	· Loose DMX cables	· Check cable connections
	· Faulty DMX interface	· Replace the Main board
	· Faulty Display/Main board	· Replace the Main board
DMX signal problems (see *Appendix > DMX Primer*)	· Non DMX cables	· Use only DMX compatible cables
	· Bouncing signals	· Install terminator as suggested
	· Long cable / low level signal	· Install an optically coupled DMX splitter right after the fixture with the strong signal
	· Too many fixtures	· Install an optically coupled DMX splitter after unit #32 or before
	· Interference from AC wires	· Keep DMX cables separated from power cables or fluorescent/black lights

If you still experience technical problems after trying the above solutions, contact CHAUVET® Technical Support.

Returns Procedure

The user must send the merchandise prepaid, in the original box, and with its original packing and accessories. CHAUVET® will not issue call tags.

Call CHAUVET® and request a Return Merchandise Authorization Number (RMA #) before shipping the fixture. Be prepared to provide the model number, serial number, and a brief description of the cause for the return.

The user must clearly label the package with a Return Merchandise Authorization Number (RMA #). CHAUVET® will refuse any product returned without an RMA #.

DO NOT write the RMA # directly on the box. Instead, write it on a properly affixed label.

Once you receive the RMA #, please include the following information on a piece of paper inside the box:

· Your name
· Your address
· Your phone number
· The RMA #
· A brief description of the problem

Be sure to pack the fixture properly. Any shipping damage resulting from inadequate packaging will be the customer's responsibility. As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

CHAUVET® reserves the right to use its own discretion to repair or replace returned product(s).

Claims

The carrier is responsible for any damage incurred during shipping. Therefore, if the received merchandise appears to have damages caused during shipping, the customer must submit the damage report and any related claims with the carrier, not CHAUVET®. The customer must submit the report upon reception of the damaged merchandise. Failure to do so in a timely manner may invalidate the customer's claim with the carrier.

For other issues such as missing components or parts, damage not related to shipping, or concealed damage, the customer must make claims to CHAUVET® within seven (7) days of receiving the merchandise.

Contact Us

World Headquarters

General Information

CHAUVET®
5200 NW 108th Avenue
Sunrise, FL 33351
Voice: (954) 929-1115
Fax: (954) 929-5560
Toll free: (800) 762-1084

Technical Support

Voice: (954) 929-1115 (Press **4**)
Fax: (954) 756-8015

World Wide Web

www.chauvetlighting.com

Technical Specifications

Weight & dimensions
Length .... 14.5 in (370 mm)
Width .... 17.9 in (456 mm)
Height .... 23.7 in (601 mm)
Weight ....47.5 lbs (21.55 kg)

Power
Auto-ranging ....100~240 V, 50/60 Hz
Operating current @ 120 V, 60 Hz..4.12 A
Operating current @ 230 V, 50 Hz..3.1 A
Inrush current @ 120 V, 60 Hz ....3.1 A
Inrush current @ 230 V, 50 Hz ....1.6 A
Power consumption @ 120 V, 60 Hz...477 W
Power consumption @ 230 V, 50 Hz...468 W
Power factor @ 120 V, 60 Hz... 0.99
Power factor @ 230 V, 50 Hz... 0.95
Fuse .... Glass, 20 mm, T 10 A, 250 V (external)

Light source
Type .... 300 W, HID lamp
Approved lamp..Philips MSR Gold 300/2, 8,400 K, 750 hrs
Socket ....MiniFastFit™

Head Motion Range
Pan 540º
Tilt 270º

Thermal
Maximum ambient temperature ....104° F (40° C)
Maximum surface temperature ....135° F (57° C)

Photo Optic
Illuminance at 5 m (16º zoom) .... 12,200 lux
Illuminance at 5 m (35º zoom) .... 2,800 lux

Gobo Wheel 1
Outer diameter..26.83 mm
Image diameter ....23.29 mm
Thickness...4.32 mm
Material ....glass

Gobo Wheel 2
Outer diameter..31.42 mm
Image diameter ....23.04 mm
Thickness...0.80 mm
Material ....steel

Control & Programming
Data input.. locking 3 and 5-pin XLR male socket
Data output .... locking 3 and 5-pin XLR female socket
Data pin configuration..pin 1 shield, pin 2 (-), pin 3 (+)
Protocols ....DMX-512 USITT
DMX Channels...21 and 29

Ordering Information
Legend 300E Spot...LEGEND300SPOT
Two Legend 300E Spot units in a single road case................................... LEGEND300SPOTX2

Warranty Information
Warranty duration ....2-year limited warranty