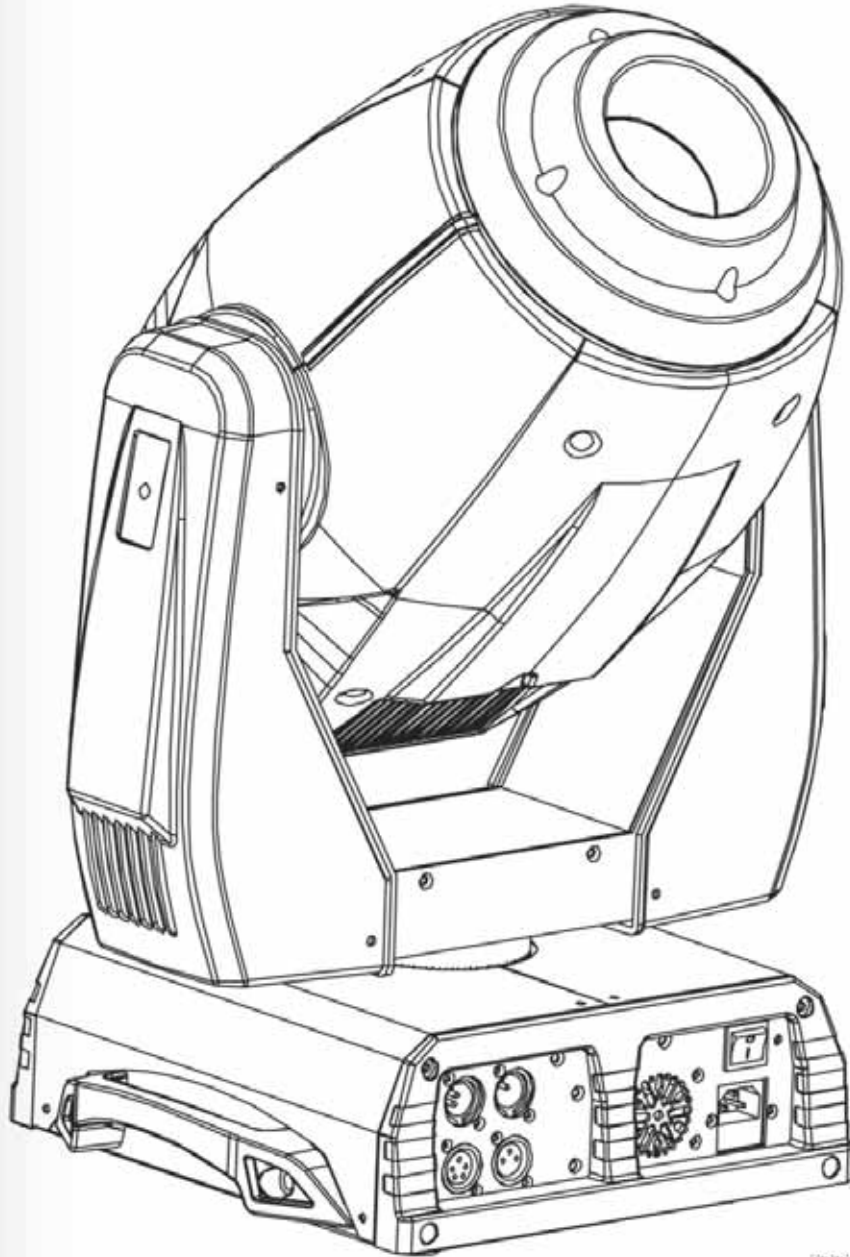# Q-SPOT™ 560-LED

User Manual

CHAUVET®

Edition Notes

The Q-Spot™ 560-LED User Manual Rev. 06 covers the description, safety precautions, installation, programming, operation, and maintenance of the Q-Spot™ 560-LED. CHAUVET® released this edition of the Q-Spot™ 560-LED User Manual in November 2011.

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Document Printing

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 accordingly.

Intended Audience

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

Disclaimer

CHAUVET® believes that the information contained in this manual is accurate in all respects. However, CHAUVET® assumes no responsibility for any error or omissions in this document. CHAUVET® reserves the right to revise this document and to make changes from time to time in the content hereof without obligation of CHAUVET® to notify any person or company of such revision or changes. This does not constitute in any way a commitment by CHAUVET® to make such changes. CHAUVET® may issue a revision of this manual or a new edition of it to incorporate such changes.

Document Revision

The Q-Spot™ 560-LED User Manual Rev. 06 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.

Author	Date	Editor	Date
D.Couppe	11/02/11	B. Pillow	11/9/11

Table of Contents

1. Before You Begin

What Is Included	• One Q-Spot™ 560-LED • One IEC Power Cord with Edison Plug (US Market) • Two Omega Brackets • One Safety Cable • Warranty Card • Quick Reference Guide
Unpacking Instructions	Immediately upon receiving this product, carefully unpack and check the container. Make sure you have received all the parts indicated above and all the parts are in good condition.
Claims	If the container or the material inside the container (the product and included accessories) appear damaged from shipping, or show signs of mishandling, upon receipt notify the carrier immediately, not CHAUVET®,. Failure to do so in a timely manner may invalidate your claim with the carrier. In addition, keep the container and all the packing material 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 seven (7) days of receiving the merchandise.

Typographic Conventions

Convention	Meaning
1~512	A range of values in the text
50/60	A set of mutually exclusive values in the text
Claims	A new term, another document reference, or section or chapter in this document
<**SET**>	A button on the product's control panel
Settings	A product 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 be entered or selected 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 product partially or completely inoperative, damage third-party equipment, or cause harm to you.
ⓘ	This icon indicates important installation or configuration information. Failure to comply with this information may prevent the product 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.

Product at a Glance

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

Safety Notes

Read all these Safety Notes before starting to work with this product. These notes include important safety information about the installation, usage, and maintenance of this product.

⚠️ **There are no user serviceable parts in this product. Any reference to servicing you find in this User Manual only applies 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 product 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.
- 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 (included).
- Do not carry this product from the head. Always use the handles.

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.
- Never connect this 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 you see damage on the housing, lenses, or cables. In any of these cases, have the damaged parts replaced by an authorized technician at once.
- Do not cover the ventilation slots when this product is operating to avoid internal overheating.
- Do not aim this product toward the Sun. The lenses could concentrate the solar energy and cause internal overheating.
- The maximum ambient temperature 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 CHAUVET® product may require service, contact CHAUVET® Technical Support.

Expected LED Lifespan

LEDs gradually decline in brightness over time, mostly because of heat. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal, single LED conditions. For this reason, using clustered LEDs at their fullest intensity significantly reduces the LEDs' lifespan. Under normal conditions, this lifespan can be of 40,000 to 50,000 hours. If extending this lifespan is vital, lower the operational temperature by improving the product's ventilation and reducing the external temperature. In addition, limiting the overall projection intensity may also help to extend the LEDs' lifespan.

2. Introduction

Product Description

The Q-Spot™ 560-LED is a high-power moving yoke product equipped with three (3) 60-watt white LEDs. This product includes a color wheel with seven slots plus white, and two gobo wheels. One gobo wheel has seven fixed gobos, plus open. The other gobo wheel has six rotating slot-n-lock gobos, plus open. In addition, the Q-Spot™ 560-LED includes remote focus and a rotating 3-facet prism.

Features

- 13 or 17-channel DMX-512 LED moving yoke
- Pan: 540° / tilt: 270°
- Color wheel:
    - 7 colors + white
    - Split colors
    - Rainbow color spin at variable speeds
- Gobo wheel 1:
    - Gobo shake
    - 7 gobos + open
    - Gobo wheel spin at variable speeds
- Gobo wheel 2:
    - Indexed, rotating gobo wheel with gobo shake
    - 6 slot-n-lock gobos + open
    - 2 glass, 4 metal
    - Rotating gobo wheel spin at variable speeds
- Extremely bright with 19 degree beam angle for big looks
- 3-facet, high-speed rotating prism at variable speeds
- Variable focus
- Variable iris
- Variable electronic shutter (for strobing)
- Remote fixture reset and vector speed channel
- 255 user-programmable steps without DMX controller
- Move-in-black for pan/tilt
- Built-in automated programs
- Built-in sound activated programs
- 3 high-powered, 60 W (14 A) LEDs
- User-selectable pan/tilt ranges
- Automatic pan and tilt correction
- Quiet operation

Additional Features

- 3-pin and 5-pin DMX connections

Product Overview

DMX In   Power Switch

Rear View

DMX Out

Control Panel

Front View
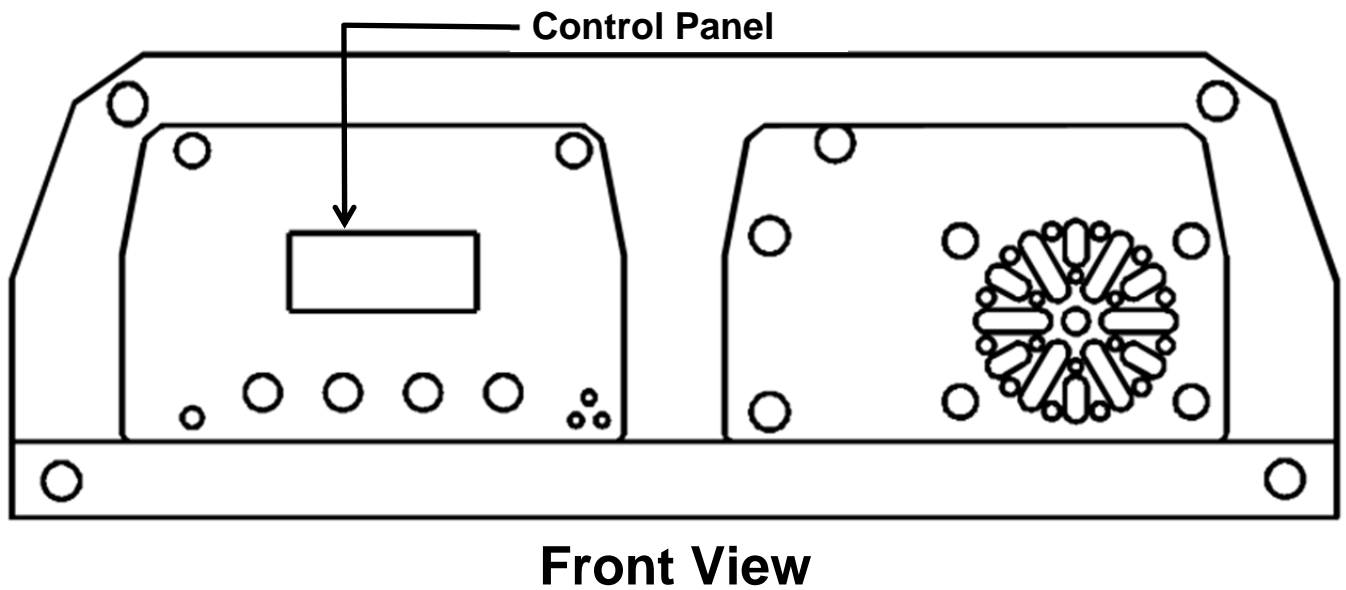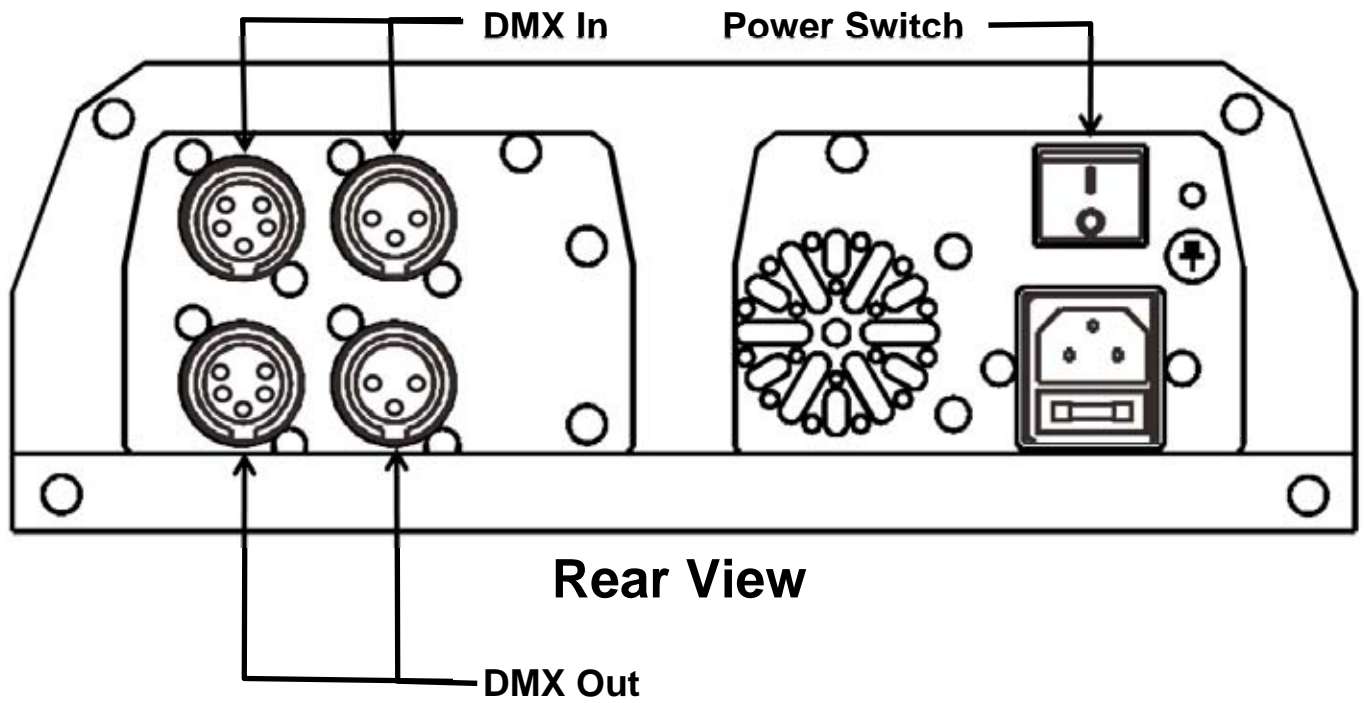
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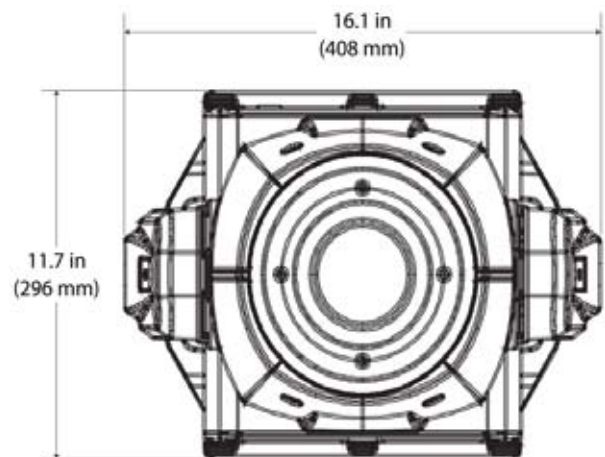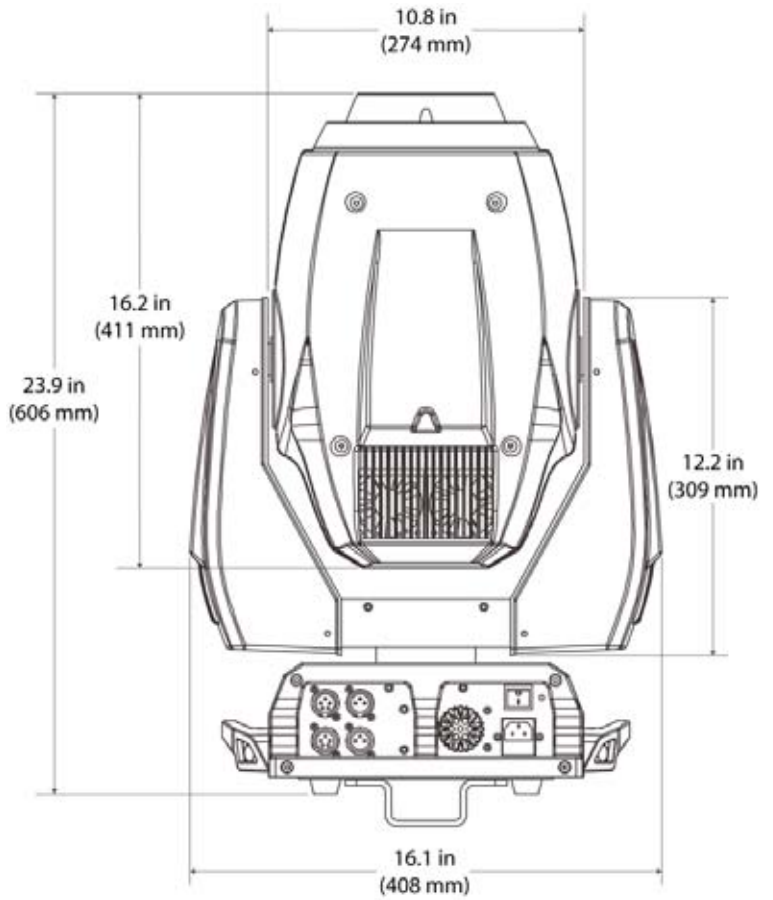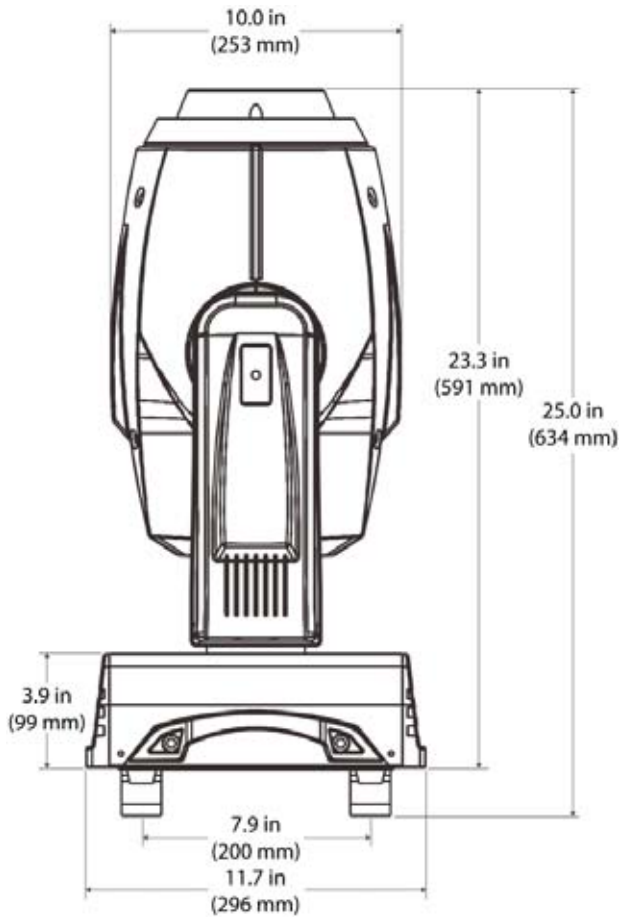
3. Setup

AC Power

The Q-Spot™ 560-LED has an auto-ranging power supply that works 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 manual or on the product's sticker.

⚠ **Always connect this product to a protected circuit with an appropriate electrical ground to avoid the risk of electrocution or fire.**

To determine the power requirements for the Q-Spot™ 560-LED, refer to the label affixed to the side of the product. You can also refer to the Technical Specifications chart in the *Technical Information* chapter of this manual.

The listed current rating indicates the maximum current draw during normal operation. For more information, you may download the document *Sizing the Circuit Breakers* from the CHAUVET® website: www.chauvetpro.com.

ⓘ **Never connect this 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 Q-Spot™ 560-LED comes with a power input cord terminated with an IEC connector on one end and an Edison plug on the other end (US market). If the power input cord that came with your product has no plug or you need to change the Edison plug, use the table below to wire the new plug.

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

Fuse Replacement

This product uses a T 5 A, 250 V fuse.

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

1. Disconnect the product from the power outlet.
2. Wedge the tip of a flat head screwdriver into the slot of the fuse holder.
3. Pry the safety cap out of the housing to pull out the installed fuse.
4. Remove the blown fuse from the safety cap and replace with a fuse of the exact same type and rating (T5 A, 250 V).
5. Insert the fuse holder back in place and reconnect power.

Installed fuse (held by plastic clip)

Safety cap

Spare fuse (inside safety cap)
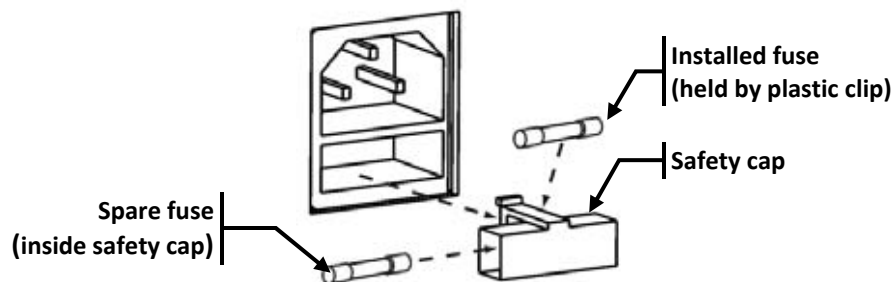
DMX Linking

You may link the Q-Spot™ 560-LED to a DMX controller using a standard DMX serial connection. If using other DMX compatible products with the Q-Spot™ 560-LED, you can control each product individually with a single DMX controller.

DMX Modes

The Q-Spot™ 560-LED uses the standard DMX data connection for its DMX personalities, **Basic** and **Advanced**. You will find information about these DMX modes in this manual. Refer to the Introduction chapter for a brief description, the Operation chapter for configuration details, and the DMX Values section for individual channel values.

Master/Slave Connectivity

The Master/Slave mode enables a Q-Spot™ 560-LED (the "master unit") to control one or more Q-Spot™ 560-LED's (the "slave units") without a DMX controller. A Q-Spot™ 560-LED becomes the master unit when running an **AUTO**, **SOUND**, **TEST**, or **CUSTOM** program.

You must configure the slave units to operate in **SLAVE** mode from their respective control panels. During the master/slave operation, the slave units will operate in unison with the master unit.

If you are not familiar with the DMX standard, master/slave connectivity, or if you need information about the DMX cables needed to link this product to a DMX controller, you may download the document *DMX Primer* from the CHAUVET® website: www.chauvetpro.com.

DO NOT connect a DMX controller to the products operating in Master/Slave mode. The DMX controller signals may interfere with the signals from the master unit.

The *Operation* chapter of this manual provides detailed instructions on how to configure the Master and Slave units.

Gobo Replacement

1. Turn the product off and disconnect 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 from the gobo wheel by pushing the gobo plate 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. Take out the gobo plate by pulling the gobo plate outward (direction 2 in the diagram).
5. On a flat surface, remove the expansion ring that holds the gobo in place.
6. Remove the gobo from the gobo plate.
7. Insert a new gobo and hold in place with the expansion ring.
8. Slide the tip of the gobo plate under the pressure plate near the center of the gobo wheel.
9. Push the gobo plate inward. DO NOT force the gobo plate into the gobo wheel slot.

   Note: If correctly installed, the gobo plate should easily snap into the gobo wheel slot.
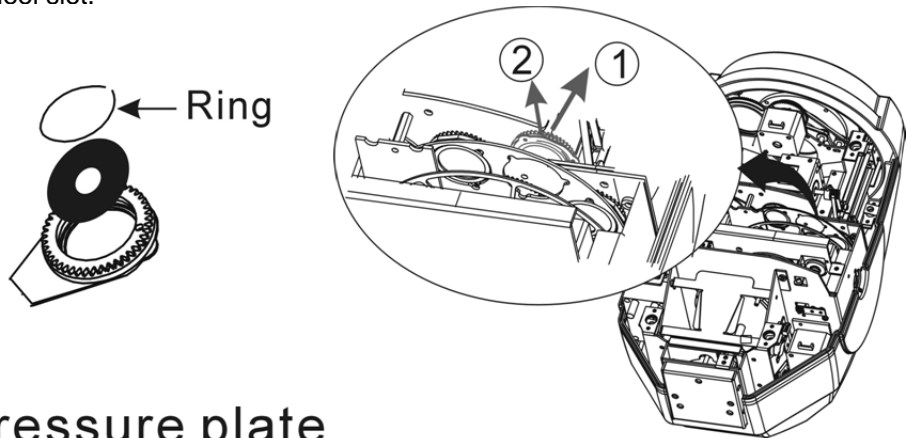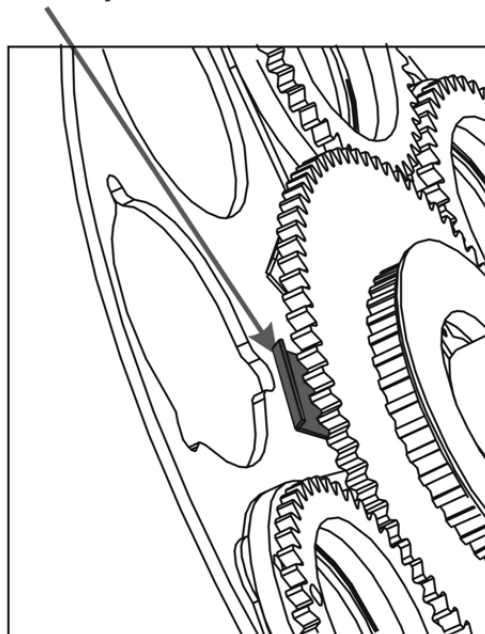
Mounting

Before mounting this product, read and follow the Safety Notes in the Before You Begin chapter of this manual.

Orientation

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

Rigging

CHAUVET® recommends following the general guidelines below when mounting this product.

- When selecting an installation location, consider easy access to this product for operation, programming adjustments, and routine maintenance.
- Make sure to mount this product away from any flammable material as indicated in the *Safety Notes* section.
- Never mount the product in places where rain, high humidity, extreme temperature changes, or restricted ventilation may affect it.
- If hanging this product, make sure that the mounting location can support the product's weight. Please see the Technical Specifications section of this manual for the weight requirement of this product.

Procedure

The Q-Spot™ 560-LED comes with two (2) omega brackets to which you can attach clamps. You must supply your own clamps. Make sure the clamps are capable of supporting the weight of this product. You must use two mounting points per unit.

Product Mounting Diagram

Safety Cable

Omega Brackets
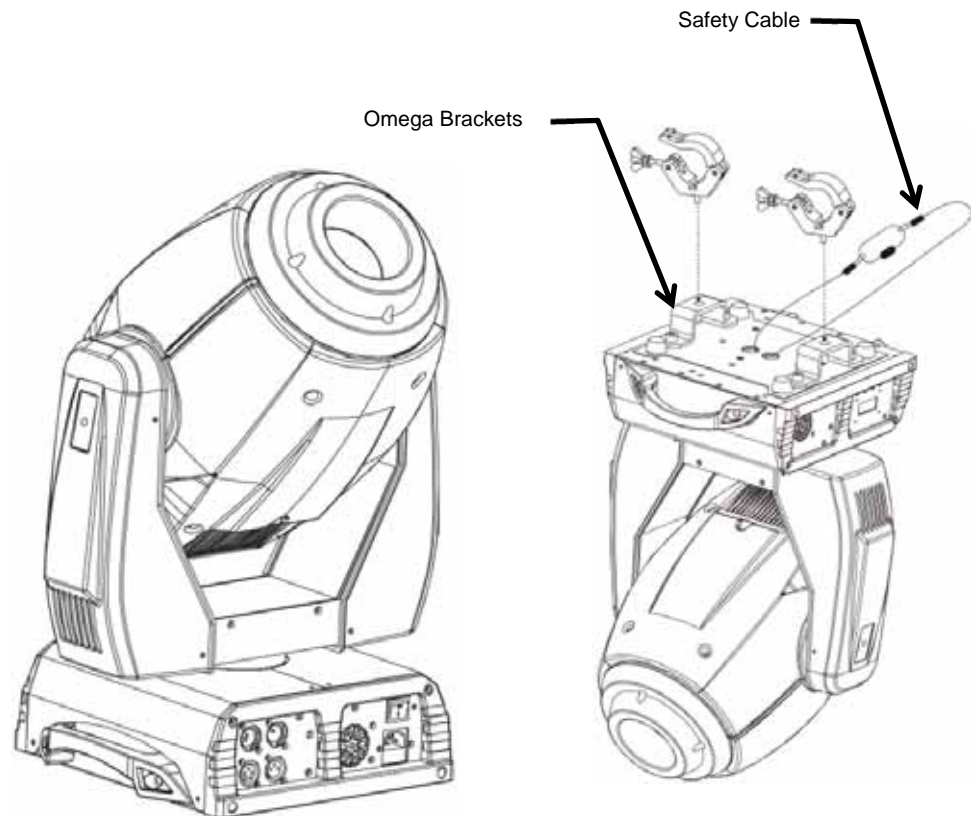
Floor Mounting

Overhead Mounting

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

Control Options

You can set the Q-Spot™ 560-LED start address in the 001~512 DMX range. This enables control of up to 30 units in the 17-channel **ADVANCED** personality.

Programming

Refer to the Menu Map to learn about the menu options. The *Menu Map* has a Menu Level and a variety of programming levels for each option.

- To go to an option in the Menu 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.
- To exit to the previous menu level, press **<MENU>**.

In the EDIT menu, <UP> and <DOWN> will only change the value of the current option. To change to the next option, press <ENTER>.

DMX Operation

1. Select DMX operation.
   a) Go to **MENU > INTRO > RUN**.
   b) Select **DMX 512**.
2. Select a DMX mode.
   a) Go to **MENU > INTRO > PERSON**.
   b) Select **BASIC** or **ADVANCED**.
3. Select the starting address.
   a) Go to **MENU > INTRO > ADDRESS**.
   b) Select a starting address, **001~496** (**Advanced**) or **001~500** (**Basic**).

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

DMX Mode	DMX Address
Basic	500
Advanced	496

Stand-alone Operation	1. Go to **MENU > INTRO > RUN**. 2. Select a stand-alone operation mode (**AUTO 1, AUTO 2, CUSTOM**, **SOUND 1**, **SOUND 2**, or **TEST**).

Of all the stand-alone operation modes indicated above, only CUSTOM is editable (see Edit Custom).

Master/Slave

The Master/Slave mode enables one or more Q-Spot™ 560-LED products (the slaves) to simultaneously duplicate the output of another Q-Spot™ 560-LED (the master), without a DMX controller, whether in auto/custom or static modes,.

1. Set the master unit:
   a) Select a stand-alone mode, as indicated above.
2. Set each of the slave units:
   a) Go to **MENU > INTRO > RUN**.
   b) Select **SLAVE**.

- **Do not connect a DMX controller to the master or slave products.**
- **The master unit should be the first unit in the DMX daisy chain.**

Display Mode

1. Go to **MENU > INTRO > DISPLAY**.
2. Select a display mode (**60 CLOSE** or **BRIGHT**).

- **When in the "60 CLOSE" setting, the LCD's backlight will turn off after 60 s.**
- **When in the "BRIGHT" setting, the LCD's backlight will stay on.**

Software Version

1. Go to **MENU > INTRO > INFO**.
2. The display will show **Edition**.
3. Press **<ENTER>** to see the installed software version.

Keylock   Locks or unlocks the product's display.
1.   Go to **MENU > INTRO > KEYLOCK**.
2.   Select **YES** or **NO**.

When Keylock is in the YES setting, you will have to enter the password after 30 seconds of control panel inactivity or each time you turn the product on.

The default (non-modifiable) password is <UP>, <DOWN>, <UP>, <DOWN>, and <ENTER>.

Reset   Reset all custom settings to their default values.
1.   Go to **MENU > INTRO > RESET**.
2.   Select **YES** or **NO**.

Dimmer Curve   This option defines the output speed when you modify the dimmer fader values. You have four different options to simulate the dimming curve of an incandescent lighting product.
1.   Go to **MENU > INTRO > DIMMER**.
2.   Select **DIMMER 0~4**.

DIMMER 0:   The output is proportional (linear) to the dimmer channel.

DIMMER 1~4:   The output follows the dimmer channel values based on the corresponding dimmer curve, being **DIM1** the fastest and **DIM4** the slowest.

Fader Reversal
Define how the pan, tilt, and dimmer increase.
1. Go to **MENU > INVERT > PAN**.
2. Select a fader direction (**NORMAL** or **REVERSE**).
3. Go to **MENU > INVERT > TILT**.
4. Select a fader direction (**NORMAL** or **REVERSE**).
5. Go to **MENU > INVERT > DIMMER**.
6. Select a fader direction (**NORMAL** or **REVERSE**).
7. Go to **MENU > INVERT > USE**.
8. Select **YES** to activate the new settings or **NO** to stop using them.

- **When in NORMAL, the pan, tilt, and dimmer values will <u>increase</u> as the position of the respective fader increases.**
- **When in REVERSE, the pan, tilt, and dimmer values will <u>decrease</u> as the position of the respective fader increases.**

Range Limitation
Limit the pan or tilt range.
1. Go to **MENU > RANGE > P/START**.
2. Select the starting point for the limited pan (**000~255**).
3. Go to **MENU > RANGE > P/FINISH**.
4. Select the finishing point for the limited pan (**000~255**).
5. Go to **MENU > RANGE > T/START**.
6. Select the starting point for the limited tilt (**000~255**).
7. Go to **MENU > RANGE > T/FINISH**.
8. Select the finishing point for the limited tilt (**000~255**).
9. Go to **MENU > RANGE > USE**.
10. Select **YES** to activate the new settings or **NO** to stop using them.

Reset Control
Select how you reset the product, either using the DMX controller or from the control panel.
1. Go to **MENU > SPECIAL > RESET**.
2. Select **DMX** or **SYSTEM**.

    DMX: Enables the DMX controller to reset the product (**Control** function).

  SYSTEM: Restricts the reset function to the control panel.

Move-in Black
Activate or deactivate the move-in black 3-second delay.
1. Go to **MENU > SPECIAL > BLACKD.**
2. Select **YES** to enable the 3 seconds delay or **NO** to make the blackout immediate.

Loss of DMX Settings
Define the product's response to a DMX failure.
1. Go to **MENU > SPECIAL > DMXERROR.**
2. Select **SAVE** to show the last look when DMX is lost or **BLAK** to make the product blackout immediately.

Fan Wait   Stop the fan during a blackout.
1.   Go to **MENU > SPECIAL > FAN_WAIT**.
2.   Select **ON** or **OFF**.

System Default Default all product parameters to their default values.
1.   Go to **MENU > EXTRA**.
2.   Press **<ENTER>** (**PASSWORD**) will show on the display.
3.   Press **<ENTER>** (******** will show on the display).
4.   Enter the password, as explained in **Keylock.**
5.   Use **<UP>** to select **DEFAULT**.
6.   Press **<ENTER>** (**NO** will show on the display).
7.   Select **YES** and press **<ENTER>** to default the product or press **<MENU>** to exit.

Edit Custom   Program up to 255 steps in a single custom program.
1.   Go to **MENU > EDIT**.
2.   Press **<ENTER>** to go to **STEP**.
3.   Press **<ENTER>** to select a value. The current value (**001~255**) will show on the LCD.
4.   Press **<UP>** or **<DOWN>** to select a new value.
5.   Press **<ENTER>** to accept the value.
6.   Press **<ENTER>** to go to **PAN**.
7.   Repeat steps "1" through "6" for **TILT**, **SPEED**, **COLOR**, **GOBO1**, **GOBO2**, **GOBO2ROT**, **PRISM**, **PRISMT**, **IRIS**, **FOCUS**, **DIMMER**, **STROBE**, and **TIME**.
8.   Press **<ENTER>** to go to **USE**.
9.   Select **YES** to save the settings for this step or **NO** to delete them.
10. Repeat steps "3" to "8" for the other steps.

The product will execute all the steps in the CUSTOM program and stop.
To make the product start over, add a last step whose duration is 0 seconds.

Example:

Step 1:	**Time = 5**	**Use = Yes**	
Step 2:	**Time = 4**	**Use = Yes**	
Step 3:	**Time = 6**	**Use = Yes**	
Step 4:	**Time = 0**	**Use = Yes**	**(This step creates a loop)**
Step 5:	**Time = 0**	**Use = No**	
			(Unused steps)
Step 255	**Time = 0**	**Use = No**	

Menu Map

Main Level	Programming Levels		Description
INTRO	ADDRESS	001~512	Selects a starting DMX address
	RESET	YES	Resets the product's custom settings
		NO	
	RUN	DMX512	Selects DMX512-A running mode
		AUTO 1	Selects the first automatic program
		AUTO 2	Selects the second automatic program
		SOUND 1	Selects the first sound activated program
		SOUND 2	Selects the second sound program
		CUSTOM	Selects the user customizable program
		TEST	Selects the fixture's test sequence
		SLAVE	Selects the Slave running mode
	PERSON	BASIC	Selects the 13-channel DMX mode
		ADVANCED	Selects the 17-channel DMX mode
	DISPLAY	60 CLOSE	Turns off the display after 60 s
		BRIGHT	Keeps the display on
	KEYLOCK	YES	Activates the control panel password
		NO	
	DIMMER	DIMMER 0	Linear dimmer
		DIMMER 1	Slow (**DIM 4**) to fast (**DIM1**) dimmer curves
		DIMMER 2	
		DIMMER 3	
		DIMMER 4	
	INFO	EDITION / VERSION NUMBER	Shows the version of the installed S/W
INVERT	PAN	NORMAL	Defines the direction of the pan function
		REVERSE	
	TILT	NORMAL	Defines the direction of the tilt function
		REVERSE	
	DIMMER	NORMAL	Defines the direction of the dimmer function
		REVERSE	
	USE	YES	Activates the changes
		NO	
RANGE	P/START	000~255	Sets the pan start point (restricted range)
	P/FINISH		Sets the pan end point (restricted range)
	T/START		Sets the tilt start point (restricted range)
	T/FINISH		Sets the tilt end point (restricted range)
	USE	YES	Activates the changes
		NO	
SPECIAL	BLACKD	YES	Activates the move-in black delay (3 s)
		NO	
	RESET	DMX	The DMX controller can reset the product
		SYSTEM	The control panel can reset the product
	FAN_WAIT	ON	Forces the fan to stop during a blackout
		OFF	
	DMXERROR	SAVE	Save the last look when DMX is lost
		BLAK	Goes to black when DMX is lost

Continued on next page

Main Level	Programming Levels		Description
EDIT	STEP		Selects the program step
	PAN		Selects the pan position
	TILT		Selects the tilt position
	SPEED		Selects the pan/tilt speed
	COLOR		Selects the color wheel position
	GOBO1		Selects the fixed gobo wheel position
	GOBO2		Selects the rotating gobo wheel position
	GOBO2ROT	000~255	Selects the gobo rotation mode
	PRISM		Selects the prism rotation mode
	PRISMT		Selects the prism rotation fine adjustment
	IRIS		Selects the iris position
	FOCUS		Selects the focus position
	DIMMER		Selects the dimmer value
	STROBE		Selects the strobe frequency and mode
	TIME		Selects the step duration
	USE	YES	Activates the changes
		NO	
Extra	Password	* * * *	Opens the **Default** menu level
Default	Default	YES	Sets unit back to default factory settings
		NO	

DMX Values

Basic	Channel	Function	Value	Percent/Setting
	1	Pan	000 ⇔ 255	0~540°
	2	Tilt	000 ⇔ 255	0~270°
	3	Color wheel	000 ⇔ 009	No Function
			010 ⇔ 019	Red
			020 ⇔ 029	Green
			030 ⇔ 039	Yellow
			040 ⇔ 049	Blue
			050 ⇔ 059	Orange
			060 ⇔ 069	Magenta
			070 ⇔ 079	Light Blue
			080 ⇔ 099	Light Blue/Magenta
			100 ⇔ 119	Magenta/Orange
			120 ⇔ 139	Orange/Blue
			140 ⇔ 159	Blue/Yellow
			160 ⇔ 179	Yellow/Green
			180 ⇔ 199	Green/Red
			200 ⇔ 219	Red/Open
			220 ⇔ 255	Rainbow or Linear Effect
	4	Gobo Wheel 1	000 ⇔ 010	No gobo
			011 ⇔ 020	Gobo 1
			021 ⇔ 030	Gobo 2
			031 ⇔ 040	Gobo 3
			041 ⇔ 050	Gobo 4
			051 ⇔ 060	Gobo 5
			061 ⇔ 070	Gobo 6
			071 ⇔ 080	Gobo 7
			081 ⇔ 095	Shaking gobo 7
			096 ⇔ 110	Shaking gobo 6
			111 ⇔ 125	Shaking gobo 5
			126 ⇔ 140	Shaking gobo 4
			141 ⇔ 155	Shaking gobo 3
			156 ⇔ 170	Shaking gobo 2
			171 ⇔ 185	Shaking gobo 1
			186 ⇔ 255	Flow effect
	5	Gobo Wheel 2	000 ⇔ 010	No gobo
			011 ⇔ 020	Gobo 1
			021 ⇔ 030	Gobo 2
			031 ⇔ 040	Gobo 3
			041 ⇔ 050	Gobo 4
			051 ⇔ 060	Gobo 5
			061 ⇔ 070	Gobo 6
			071 ⇔ 085	Shaking gobo 6
			086 ⇔ 100	Shaking gobo 5
			101 ⇔ 115	Shaking gobo 4
			116 ⇔ 130	Shaking gobo 3
			131 ⇔ 145	Shaking gobo 2
			146 ⇔ 160	Shaking gobo 1
			161 ⇔ 255	Flow effect
	6	Gobo Wheel 2 Rotation	000 ⇔ 060	360° Indexing
			061 ⇔ 150	Clockwise Rotation ~ Slow to Fast
			151 ⇔ 165	No Function
			166 ⇔ 255	Counter-Clockwise Rotation ~ Slow to Fast

Continues on the next page

Basic (Cont.)

Channel	Function	Value	Percent/Setting
7	**Prism**	000 ⇔ 009	No Function
		010 ⇔ 039	Prism
		040 ⇔ 049	Effect1
		050 ⇔ 059	Effect2
		060 ⇔ 069	Effect3
		070 ⇔ 079	Effect4
		080 ⇔ 089	Effect5
		090 ⇔ 099	Effect6
		100 ⇔ 109	Effect7
		110 ⇔ 119	Effect8
		120 ⇔ 129	Effect9
		130 ⇔ 139	Effect10
		140 ⇔ 149	Effect11
		150 ⇔ 159	Effect12
		160 ⇔ 169	Effect13
		170 ⇔ 179	Effect14
		180 ⇔ 189	Effect15
		190 ⇔ 199	Effect16
		200 ⇔ 209	Effect17
		210 ⇔ 219	Effect18
		220 ⇔ 229	Effect19
		230 ⇔ 239	Effect20
		240 ⇔ 255	Prism
8	**Prism Rotation**	000 ⇔ 009	No Function
		010 ⇔ 119	Clockwise rotate ~ slow to fast
		120 ⇔ 129	No Function
		130 ⇔ 255	Counter-clockwise rotation ~ slow to fast
9	**Iris**	000 ⇔ 199	Linear Iris
		200 ⇔ 209	Iris Effect1
		210 ⇔ 219	Iris Effect2
		220 ⇔ 229	Iris Effect3
		230 ⇔ 239	Iris Effect4
		240 ⇔ 255	Random
10	**Focus**	000 ⇔ 255	0~100%
11	**Dimmer**	000 ⇔ 255	0~100%
12	**Strobe**	000 ⇔ 031	Close
		032 ⇔ 063	Open
		064 ⇔ 095	Strobe 0~20Hz
		096 ⇔ 127	Open
		128 ⇔ 159	Pulse Effect
		160 ⇔ 191	Open
		192 ⇔ 223	Random Effect
		224 ⇔ 255	Open

Continues on the next page

Basic (Cont.)

Channel	Function	Value	Percent/Setting
13	Control	000 ⇔ 019	Dim setting as set in product
		020 ⇔ 039	Pan/tilt black activation
		040 ⇔ 059	Pan/tilt black deactivation
		060 ⇔ 139	No Function
		140 ⇔ 149	Auto program 1 (3 s activation delay)
		150 ⇔ 159	Auto program 2 (3 s activation delay)
		160 ⇔ 169	Test (3 s activation delay)
		170 ⇔ 179	Custom program (3 s activation delay)
		180 ⇔ 189	Sound1
		190 ⇔ 199	Sound2
		200 ⇔ 219	Reset (3 s activation delay)
		220 ⇔ 235	No Function
		236 ⇔ 239	DIM0 (3 s activation delay)
		240 ⇔ 243	DIM1 (3 s activation delay)
		244 ⇔ 247	DIM2 (3 s activation delay)
		248 ⇔ 251	DIM3 (3 s activation delay)
		252 ⇔ 255	DIM4 (3 s activation delay)

Advanced

Channel	Function	Value	Percent/Setting
1	Pan	000 ⇔ 255	0~540°
2	Pan Fine	000 ⇔ 255	Fine movement control
3	Tilt	000 ⇔ 255	0~270°
4	Tilt Fine	000 ⇔ 255	Fine movement control
5	Pan/Tilt Speed	000 ⇔ 255	Fast~Slow
6	Color wheel	000 ⇔ 009	No Function
		010 ⇔ 019	Red
		020 ⇔ 029	Green
		030 ⇔ 039	Yellow
		040 ⇔ 049	Blue
		050 ⇔ 059	Orange
		060 ⇔ 069	Magenta
		070 ⇔ 079	Light Blue
		080 ⇔ 099	Light Blue/Magenta
		100 ⇔ 119	Magenta/Orange
		120 ⇔ 139	Orange/Blue
		140 ⇔ 159	Blue/Yellow
		160 ⇔ 179	Yellow/Green
		180 ⇔ 199	Green/Red
		200 ⇔ 219	Red/Open
		220 ⇔ 255	Rainbow or Linear Effect
7	Gobo Wheel 1	000 ⇔ 010	No gobo
		011 ⇔ 020	Gobo 1
		021 ⇔ 030	Gobo 2
		031 ⇔ 040	Gobo 3
		041 ⇔ 050	Gobo 4
		051 ⇔ 060	Gobo 5
		061 ⇔ 070	Gobo 6
		071 ⇔ 080	Gobo 7
		081 ⇔ 095	Shaking gobo 7
		096 ⇔ 110	Shaking gobo 6
		111 ⇔ 125	Shaking gobo 5
		126 ⇔ 140	Shaking gobo 4
		141 ⇔ 155	Shaking gobo 3
		156 ⇔ 170	Shaking gobo 2
		171 ⇔ 185	Shaking gobo 1
		186 ⇔ 255	Flow effect

Continues on the next page

	Channel	Function	Value	Percent/Setting
Advanced (Cont.)	8	**Gobo Wheel 2**	000 ⇔ 010	No gobo
			011 ⇔ 020	Gobo 1
			021 ⇔ 030	Gobo 2
			031 ⇔ 040	Gobo 3
			041 ⇔ 050	Gobo 4
			051 ⇔ 060	Gobo 5
			061 ⇔ 070	Gobo 6
			071 ⇔ 085	Shaking gobo 6
			086 ⇔ 100	Shaking gobo 5
			101 ⇔ 115	Shaking gobo 4
			116 ⇔ 130	Shaking gobo 3
			131 ⇔ 145	Shaking gobo 2
			146 ⇔ 160	Shaking gobo 1
			161 ⇔ 255	Flow effect
	9	**Gobo Wheel 2 Rotation**	000 ⇔ 060	360° Indexing
			061 ⇔ 150	Clockwise Rotation ~ Slow to Fast
			151 ⇔ 165	No Function
			166 ⇔ 255	Counter-Clockwise Rotation ~ Slow to Fast
	10	**Prism**	000 ⇔ 009	No Function
			010 ⇔ 039	Prism
			040 ⇔ 049	Effect1
			050 ⇔ 059	Effect2
			060 ⇔ 069	Effect3
			070 ⇔ 079	Effect4
			080 ⇔ 089	Effect5
			090 ⇔ 099	Effect6
			100 ⇔ 109	Effect7
			110 ⇔ 119	Effect8
			120 ⇔ 129	Effect9
			130 ⇔ 139	Effect10
			140 ⇔ 149	Effect11
			150 ⇔ 159	Effect12
			160 ⇔ 169	Effect13
			170 ⇔ 179	Effect14
			180 ⇔ 189	Effect15
			190 ⇔ 199	Effect16
			200 ⇔ 209	Effect17
			210 ⇔ 219	Effect18
			220 ⇔ 229	Effect19
			230 ⇔ 239	Effect20
			240 ⇔ 255	Prism
	11	**Prism Rotation**	000 ⇔ 009	No Function
			010 ⇔ 119	Clockwise rotate ~ slow to fast
			120 ⇔ 129	No Function
			130 ⇔ 255	Counter-clockwise rotation ~ slow to fast
	12	**Iris**	000 ⇔ 199	Linear Iris
			200 ⇔ 209	Iris Effect1
			210 ⇔ 219	Iris Effect2
			220 ⇔ 229	Iris Effect3
			230 ⇔ 239	Iris Effect4
			240 ⇔ 255	Random
	13	**Focus**	000 ⇔ 255	0~100%
	14	**Focus Fine**	000 ⇔ 255	Fine movement control
	15	**Dimmer**	000 ⇔ 255	0~100%

Continues on the next page

Advanced (Cont.)	16	Strobe	000 ⇔ 031	Close
			032 ⇔ 063	Open
			064 ⇔ 095	Strobe 0~20Hz
			096 ⇔ 127	Open
			128 ⇔ 159	Pulse Effect
			160 ⇔ 191	Open
			192 ⇔ 223	Random Effect
			224 ⇔ 255	Open
	17	Control	000 ⇔ 019	Dim setting as set in product
			020 ⇔ 039	Pan/tilt black activation
			040 ⇔ 059	Pan/tilt black deactivation
			060 ⇔ 139	No Function
			140 ⇔ 149	Auto program 1 (3 s activation delay)
			150 ⇔ 159	Auto program 2 (3 s activation delay)
			160 ⇔ 169	Test (3 s activation delay)
			170 ⇔ 179	Custom program (3 s activation delay)
			180 ⇔ 189	Sound1
			190 ⇔ 199	Sound2
			200 ⇔ 219	Reset (3 s activation delay)
			220 ⇔ 235	No Function
			236 ⇔ 239	DIM0 (3 s activation delay)
			240 ⇔ 243	DIM1 (3 s activation delay)
			244 ⇔ 247	DIM2 (3 s activation delay)
			248 ⇔ 251	DIM3 (3 s activation delay)
			252 ⇔ 255	DIM4 (3 s activation delay)

5. Technical Information

Product Maintenance

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

As a rule, you should 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 a product, follow the recommendations below:

- Unplug the unit from power.
- Wait until the unit has cooled.
- Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external vents and accessible internal components.
- Clean all external glass lenses with a mild solution of non-ammonia glass cleaner or isopropyl alcohol.
- Apply the solution directly to a soft, lint-free cotton cloth or a lens cleaning tissue.
- Drag any dirt or grime to the outside of the glass lens.
- Gently polish the glass lens until it is free of haze and lint.

Always dry the external glass lens carefully after cleaning it.

Refrain from spinning this product's fans using compressed air.

Troubleshooting Guide

Symptom	Cause(s)	Action(s)
Product does not light up	Dimmer fader set to "0"	Increase the value of the dimmer channel
	color fader set to "0"	Increase the value of the color channel
	All colors in CUSTOM mode are set to "0"	Increase the values of the colors
	No power	Verify external power circuit and wiring
	Faulty internal power supply	Send unit for repair
	Faulty main control board	
One of the LEDs does not work	Faulty LED	Send unit for repair
	Faulty LED module	
	Faulty LED driver	
Circuit breaker/fuse keeps tripping/blowing	Excessive circuit load	Reduce total load placed on the electrical circuit
	Short circuit along the power wires	Check electrical wiring
Unit does not power up	No power	Check for voltage on outlet
	Loose or damaged power cord	Check power cord
	Blown fuse	Replace fuse
	Faulty internal power supply	Send unit for repair
Unit does not respond to wired DMX or responds erratically	Wrong DMX addressing	Check unit addressing
	Damaged DMX cables	Check DMX cables
	Wrong polarity on the controller	Check polarity switch settings on the controller
	Loose DMX cables	Check cable connections
	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 before a long section of cable or right after the unit with the strong signal
	Too many units	Install an optically coupled DMX splitter after unit #32
	Interference from AC wires	Keep DMX cables separated from power cables or fluorescent/black lights
	Faulty DMX interface board	Send unit for repair
	Faulty Display/Main board	Send unit for repair

If you still experience technical problems after trying the above solutions or if you need to send the unit for repair, contact CHAUVET® Technical Support.

Returns Procedure

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 (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause for the return.

Clearly label the package with a Return Merchandise Authorization (RMA) number. CHAUVET® will refuse any product returned without an RMA number.

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

Once you have received the RMA number, include the following information on a piece of paper inside the box:

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

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be the customer's responsibility. As a suggestion, proper FedEx packing or double-boxing is the method CHAUVET® recommends.

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

Contact Us

World Headquarters		**United Kingdom & Ireland**	
CHAUVET®		CHAUVET® Europe Ltd.	
General Information		**General Information**	
Address:	5200 NW 108th Avenue	Address:	Unit 1C
	Sunrise, FL 33351		Brookhill Road Industrial Estate
Voice:	(954) 929-1115		Pinxton, Nottingham, UK
Fax:	(954) 929-5560		NG16 6NT
Toll free:	(800) 762-1084	Voice:	+44 (0)1773 511115
		Fax:	+44 (0)1773 511110
Technical Support		**Technical Support**	
Voice:	(954) 929-1115 (Press **4**)	Email:	uktech@chauvetlighting.com
Fax:	(954) 756-8015		
Email:	tech@chauvetlighting.com		
World Wide Web		**World Wide Web**	
	www.chauvetpro.com		www.chauvetlighting.co.uk

Technical Specifications

Dimensions and Weight	Length	Width	Height	Weight
	11.7 in (296 mm)	16.1 in (408 mm)	25.0 in (634 mm)	44.1 lbs (20.0 kg)

Note: Dimensions in inches rounded to the nearest decimal digit.

Electrical	Power Supply Type	Range	Voltage Selection
	Switching (internal)	100~240 V, 50/60 Hz	Auto-ranging

	Parameter	120 V, 60 Hz	230 V, 50 Hz
	Consumption	318 W	302 W
	Operating	2.60 A	1.30 A
	Fuse	T5 A, 250 V	T5 A, 250 V

	Power I/O	US/Worldwide	Europe
	Power input connector	IEC	IEC
	Power output connector	N/A	N/A
	Power cord plug	Edison (US)	Local plug

Light Source	Type	Power	Lifespan
	LED	60 W	50,000 hours

	Color	Quantity	Current
	White	3	14 A

Photo Optic	Parameter	Standard Optics	
	Illuminance @ 5 m	1,929 lux	
	Beam angle	19º	
	Field angle	N/Aº	

Head Movement	Pan Range	Tilt Range	Fine Adjustment Option
	0~540º	0~270º	Yes (Advanced Mode)

Gobos	Gobo 1 External Diameter	Image Diameter	Thickness
	35.8 mm	31.78 mm	1.0 mm max.
	Gobo 2 External Diameter	**Image Diameter**	**Thickness**
	32.5 mm	27 mm	1.0 mm max.

Thermal	Max. External Temperature	Cooling System	
	104° F (40° C)	Fan Cooled	

DMX	I/O Connectors	Connector Type	Channel Range
	3- and 5-pin XLR	Sockets	13,17

Ordering	Product Name	Item Code	Item Number
	Q-Spot 560-LED	01620436	QSPOT560LED

CE

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CONFORMS TO UL STD. 1573
CERTIFIED TO CSA STD. C22.2 No. 166
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