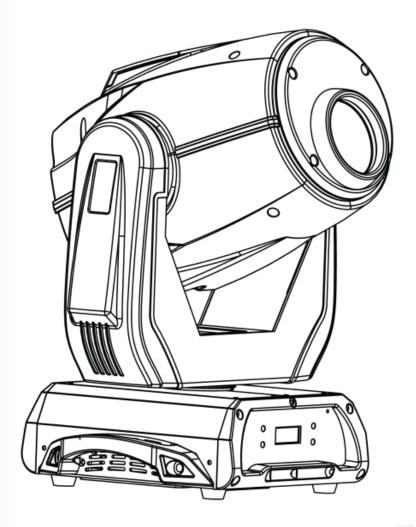


User Manual







Edition Notes

The Q-Spot[™] 460-LED User Manual Rev. 5 covers the description, safety precautions, installation, programming, operation, and maintenance of the Q-Spot[™] 460-LED. CHAUVET® released this edition of the Q-Spot[™] 460-LED User Manual in May 2013.

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Document Revision

The Q-Spot[™] 460-LED User Manual, Rev. 5, 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
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1. Before You Begin

What Is Included

- Q-Spot[™] 460-LED
 - 2 Omega Brackets
 - Power Cable
 - Warranty Card
 - Quick Reference Guide

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

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

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

Manual Conventions

Convention	Meaning	
1~512	A range of values in the text	
50/60	A set of mutually exclusive values in the text	
<set></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	

Symbols

Symbols	Meaning
<u> </u>	Critical installation, configuration, or operation information. Failure to comply with this information may cause the product not to work, damage third-party equipment, or cause harm to the operator.
\mathbf{i}	Important installation or configuration information. Failure to comply with this information may keep the product from working.
	Useful information.



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



Product at a Glance

Use on Dimmer	×	Auto Programs	Р
Outdoor Use	×	Auto-Ranging Power Supply	Р
Sound Activated	Р	Replaceable Fuse	Р
DMX	Р	User Serviceable	X
Master/Slave	Р	Duty Cycle	X

Safety Notes

Please read the following Safety Notes carefully before starting to work with the product. These notes provide important safety information about the installation, usage, and maintenance.



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



Please refer to all applicable local codes and regulations for the proper installation of the 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 during operation 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 it is operating.
- When hanging this product, always secure to a fastening device using a safety cable (not included).
- Always carry this product by the handles. Do not carry from the head.

Power and Wiring

- Always make sure you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- 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. Have the damaged parts replaced by an authorized technician at once.
- Do not cover the ventilation slots when 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 40,000 to 50,000 hours. If extending this lifespan is vital, lower the operating temperature by improving the ventilation around the product and reducing the ambient temperature to an optimal operating range. In addition, limiting the overall projection intensity may also help to extend the LEDs' lifespan.



2. Introduction

Product Description

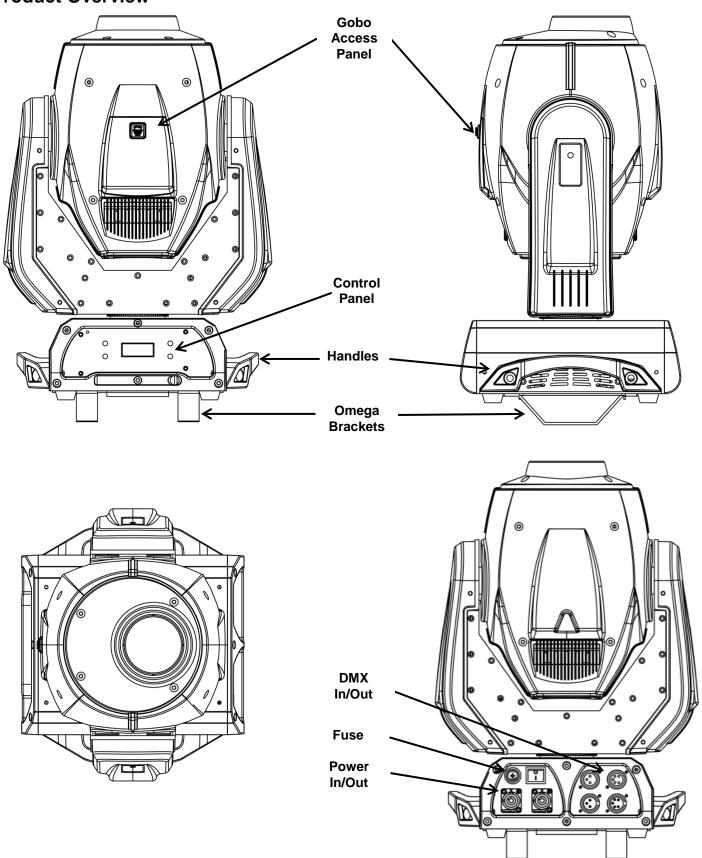
The Q-Spot[™] 460-LED is a high-power moving yoke product equipped with 7 10-watt white LEDs. This product includes a color wheel with 7 colors, plus white, and 2 gobo wheels. Gobo wheel #1 has 7 fixed gobos, plus open. Gobo Wheel #2 has 6 rotating slot-n-lock gobos, plus open. In addition, the Q-Spot[™] 460-LED includes remote focus and a rotating 3-facet prism.

Features

- Patented optical and lens path for superior output
- · Crisp focus provides stunning gobo images
- Lightweight and easy to hang
- Quiet operation for the most discerning of installations
- · DMX channels: 11 or 14
- Pan: 540°
- Tilt: 270°
- Colors Wheel:
 - 7 colors plus white
 - · Continuous scroll at variable speeds
- Gobo wheel (static):
 - 7 gobos,
 - Continuous scroll at variable speeds
- Gobo wheel (rotating):
 - 6 gobos
 - Interchangeable
 - Slot-n-lock
 - Continuous scroll at variable speed
- · 3-facet rotating prism
- Variable electronic dimmer (0~100%)
- Remote fixture reset
- Move-in-black for pan/tilt
- Built-in automated programs
- Built-in sound activated programs
- 255 user-programmable steps without DMX controller
- · High-powered, 7 (10 W) LEDs
- User-selectable pan/tilt ranges
- Automatic pan/tilt correction
- Reset to factory settings option
- User-selectable basic or advanced operating modes
- · Easy access door for gobo change

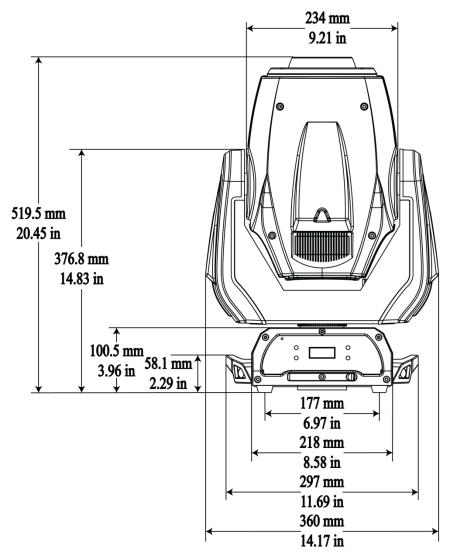


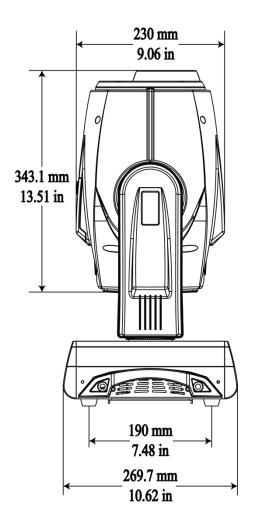
Product Overview





Product Dimensions







3. Setup

AC Power

Each Q-Spot[™] 460-LED has an auto-ranging power supply that works with an input voltage range of 100~240 VAC, 50/60 Hz. To determine the power requirements for each Q-Spot[™] 460-LED, refer to the label affixed to the product. You can also refer to the Technical Specifications chart in this manual.

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



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



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[™] 460-LED comes with a power input cord terminated with a Neutrik® powerCON® A connector on one end and an Edison plug on the other end (U.S. market). If the power input cord that came with your product has no plug, or if you need to change the Edison plug, use the table below to wire the new plug.

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



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

Power Linking

The Q-Spot[™] 460-LED supports power linking. You can power link up to 7 products at 120 VAC or 14 products at 230 VAC. This product comes with a power input cord. This product does not come with a power linking cable; however, a power linking cable is available as an option.

Fuse Replacement

- 1. Disconnect this product from the power outlet.
- 2. Using a Phillips #2 head screwdriver, unscrew the fuse holder cap from the housing.
- 3. Remove the blown fuse and replace with a good fuse of the same type and rating (T 3.15 A, 250 V).
- 4. Screw the fuse holder cap back in place and reconnect power.



DMX Linking

You can link the Q-Spot[™] 460-LED to a DMX controller using a standard DMX serial connection. If using other DMX compatible products with the Q-Spot[™] 460-LED, you can control each individually with a single DMX controller.

DMX Modes

The Q-Spot[™] 460-LED uses the standard DMX data connection for the 11 and 14 channel DMX modes.

- · Refer to the Introduction chapter for a brief description of these modes.
- Refer to the <u>Operation</u> chapter to learn how to configure the Q-Spot[™] 460-LED to work in these modes.
- The <u>DMX Values</u> section will provide you with detailed information regarding the DMX modes.

Master/Slave Connectivity

The Master/Slave mode allows a Q-Spot[™] 460-LED (the "master product") to control one or more Q-Spot[™] 460-LEDs (the "slave products") without a DMX controller. One Q-Spot[™] 460-LED becomes the master product when running an Auto or Custom program.

You must configure each slave product's control panel to operate in SLAVE mode. During Master/Slave operation, the slave products will operate in unison with the master product.



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



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



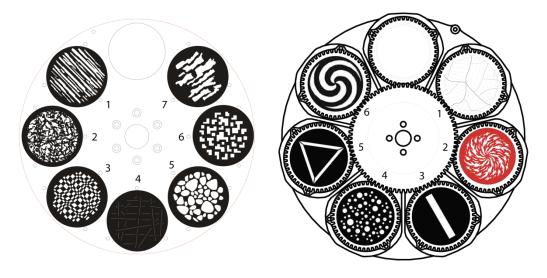
If you are not familiar with or need more information about DMX standards, Master/Slave connectivity, or the DMX cables needed to link this product to a DMX controller, download the DMX Primer from the CHAUVET® website: www.chauvetpro.com.

Q-Spot[™] 460-LED User Manual Rev. 5



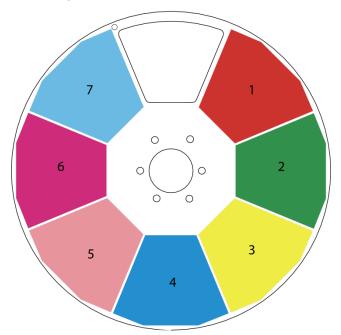
Gobo Wheels

The Q-Spot[™] 460-LED includes 2 gobo wheels Gobo wheel #1 has 7 fixed gobos, while gobo wheel #2 has 6 rotating gobos. The diagrams show each wheel, as per the DMX Values tables.



Color Wheel

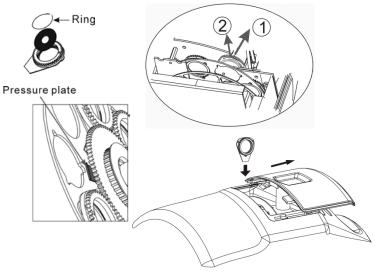
The Q-Spot[™] 460-LED includes one color wheel with 7 fixed colors. The diagram shows the color on the wheel, as per the <u>DMX Values</u> tables.





Gobo Replacement

- 1. Turn the product off and disconnect from power.
- 2. Unlock the gobo cover and slide it away.
- 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 easily snap itself into the gobo wheel slot.



Gobo Plate #1 contains a magnet used by the product for positioning purposes. When replacing gobos, be sure to return gobo plate #1 to position #1 on the wheel.



Mounting

Before mounting this product, read and follow the <u>Safety Notes</u> in this manual.

Orientation

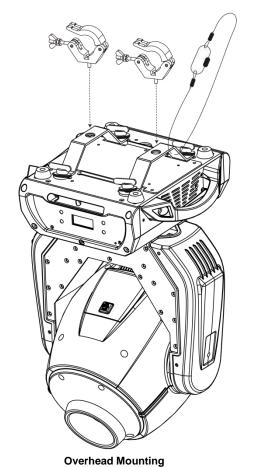
Always mount this product in a safe position and make sure there is adequate room for ventilation, configuration, and maintenance.

Rigging

CHAUVET® recommends using the following general guidelines 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 <u>Safety Notes</u>.
- Never mount in places where rain, high humidity, extreme temperature changes, or restricted ventilation may affect the product.
- If hanging this product, make sure that the mounting location can support the
 product's weight. Refer to the <u>Technical Specifications</u> chart for the weight-bearing
 requirements of this product.
- When hanging this product, always secure to a fastening device using a safety cable (not included).

The Q-Spot™ 460-LED 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 product. In addition, you will have to use a safety cable (not included) to link the product to the structure.



Floor Mounting

Product Mounting Diagram



4. Operation

Control Panel Description

Button	Function
<menu></menu>	Exits from the current menu or function
<enter></enter>	Enables the currently displayed menu or sets the currently selected value in to the current function
<up></up>	Navigates upward through the menu list and increases the numeric value when in a function
<down></down>	Navigates downward through the menu list and decreases the numeric value when in a function

Control Options

You can set the Q-Spot[™] 460-LED start address in the 001~512 DMX range. This allows for the control of up to 36 products in the 14-channel PERSON1 mode. The Q-Spot™ 460-LED works with any compatible DMX controller using standard DMX cables.

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 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. If there is another programming level, you will see the next option or you will see the selected
- To exit to the previous menu level, press **<MENU>**.

DMX Address

- Select ADDRESS.
- 2. To change the current address, press **<ENTER>**.
 - a. Change the starting address (001~512).
 - b. Press **<ENTER>**.

- DMX Mode 1. Select PERSON.
 - 2. To change the current mode, press **<ENTER>**.
 - a. Select a DMX mode (PERSON1/PERSON2).
 - b. Press <ENTER>.



Product Settings

- Pan/Tilt Speed 1. Select SETTINGS > PERFORM > PT SPEED.
 - Select FAST for fast movement or SLOW to use the normal speed.
 - b. Press <ENTER>.

- Reverse Pan Direction 1. Select SETTINGS > PERFORM > PAN INV.
 - 2. To reverse the pan direction, press **<ENTER>**.
 - Select INVERT to reverse the pan direction or NORM to use the normal pan direction.
 - b. Press **<ENTER>**.

- Reverse Tilt Direction 1. Select SETTINGS > PERFORM > TILT INV.
 - To reverse the tilt direction, press <ENTER>.
 - Select INVERT to reverse the tilt direction or NORM to use the normal tilt direction.
 - b. Press <ENTER>.

- Reverse Dimmer Direction 1. Select SETTINGS > PERFORM > DIM INV.
 - 2. To reverse the dimmer direction, press **<ENTER>**.
 - Select INVERT to reverse the dimmer direction or NORM to use the normal dimmer direction.
 - b. Press **<ENTER>**.

- Optics Speed 3. Select SETTINGS > PERFORM > OP SPEED.
 - a. Select **FAST** for fast movement or **SLOW** to use the normal speed.
 - b. Press **<ENTER>**.

- Head Motion Black Out 1. Select SETTINGS > PERFORM > BLACK D.
 - 2. To black out the output when the head moves, press **<ENTER>**.
 - a. Select INSTANT to black out the output when the head tilts or pans, or **DELAY** to keep the output on while the head moves.
 - b. Press <ENTER>.

- Dimmer Curve 1. Select **SETTINGS > PERFORM > DIMMER**.
 - 2. To set the dimming curve, press **<ENTER>**.
 - a. Select DIM4 (slowest) to DIM1 (Fastest) or OFF (linear).
 - b. Accept the selected option.

- Loss Of Signal 1. Select **SETTINGS > PERFORM > DMXERROR**.
 - 2. To choose what happens to the product when signal is lost, press **<ENTER>**.
 - Select **BLACK** to black out the output during signal loss or **SAVE** to keep the last output when the signal was lost.
 - b. Press **<ENTER>**.

- Product Reset 1. Select **SETTINGS > PERFORM > DMXRESET**.
 - 2. To choose whether to reset the product from the control panel or the DMX controller, press <ENTER>.
 - a. Select DMX to reset the product from a DMX controller or DISPLAY to reset the product from the control panel.
 - b. Press **<ENTER>**.

- Display Backlight 1. Select SETTINGS > PERFORM > DISPLAY.
 - 2. To choose how long the backlight stays on after the last action is performed on the control panel, press **<ENTER>**.
 - a. Select LONG, SHORT, or ALWAYS.
 - b. Press **<ENTER>**.



Lockout 1. Select SETTINGS > PERFORM > KEY LOCK.

- 2. To choose activate the password function on the control panel, press **<ENTER>**.
 - a. Select YES or NO.
 - b. Press **<ENTER>**.

Homepage Setting

- 1. Select **SETTINGS > PERFORM > HOMEPAGE**.
- 2. To choose what to show on the home screen on the control panel, press **<ENTER>**.
 - a. Select DMX, to show only the DMX Channel or NAME+DMX to display what is programmed via the **CONTENT** level.
 - b. Press <ENTER>.

- Limit Pan/Tilt Range 1. Select SETTINGS > RANGE.
 - 2. To set the start and end points of the pan and tilt ranges, press **<ENTER>**.
 - a. Select P.START and set the pan starting point between 000~255.
 - b. Press **<ENTER>**.
 - c. Select P.END and set the pan ending point between 000~255.
 - d. Press **<ENTER>**.
 - e. Select T.START and set the tilt starting point between 000~255.
 - f. Press **<ENTER>**.
 - g. Select **T.END** and set the tilt ending point between **000~255**.
 - h. Press <ENTER>.

- Product Defaulting 1. Select **SETTINGS > DEFAULT**.
 - 2. To reset the product to original factory settings, press **<ENTER>**.
 - a. Select YES or NO.
 - b. Press **<ENTER>**.

Program Send

- 1. Select **SETTINGS > SEND**.
- 2. To send all settings in the Q-Spot[™] 460 LED to other Q-Spot[™] 460 LED products connected via Master/Slave, press **<ENTER>**.
 - a. Select YES or NO.
 - b. Press **<ENTER>**.

Run Mode Settings

- Run Mode 1. Select RUNMODE > RUN.
 - 2. To enable DMX mode:
 - a. Select DMX512, press <ENTER>.
 - 3. To enable Auto modes:
 - a. Select AUTO1 or AUTO2, press <ENTER>.
 - 4. To enable Sound-Active modes:
 - a. Select SOUND1 or SOUND2, press <ENTER>.
 - 5. To enable Custom Program mode:
 - a. Select CUSTOM, press <ENTER>.
 - 6. To enable Testing mode:
 - a. Select **TEST**, press **<ENTER>**.
 - 7. To assign the product to Slave mode:
 - a. Select **SLAVE**, press **<ENTER>**.



Custom Programming

- Select RUNMODE > EDIT > STEP.
- 2. Select 01~49, press <ENTER>.
 - a. Select PAN, press <ENTER>.
 - i. Set 000~255 to assign the Pan position.
 - b. Select TILT, press <ENTER>.
 - i. Set **000~255** to assign the Tilt position.
 - Select COLOR, press <ENTER>.
 - i. Set **000~255** to assign the Color Wheel value.
 - Select GOBO1, press <ENTER>.
 - i. Set **000~255** to assign the Gobo 1 Wheel value.
 - e. Select GOBO2, press <ENTER>.
 - i. Set **000~255** to assign the Gobo 2 Wheel value.
 - Select GOBO2ROT, press <ENTER>.
 - i. Set 000~255 to assign the Gobo 2 Rotation value.
 - Select PRI&ROT, press <ENTER>.
 - i. Set **000~255** to assign the Prism value.
 - Select **FOCUS**, press **<ENTER>**.
 - i. Set 000~255 to assign the Focus position.
 - Select **DIMMER**, press **<ENTER>**.
 - i. Set 000~255 to assign the Dimmer value.
 - Select **STROBE**, press **<ENTER>**. j.
 - i. Set 000~255 to assign the Strobe value.
 - k. Select TIME, press <ENTER>.
 - i. Set 000~255 to assign the Step duration.
 - Select **USE**, press **<ENTER>**.
 - i. Select **YES** to save the settings, **NO** to discard them.

- Program Send 1. Select RUNMODE > SEND.
 - 2. To send Run mode settings in the Q-Spot[™] 460 LED to other Q-Spot[™] 460 LED products connected via Master/Slave, press <ENTER>.
 - a. Select YES or NO.
 - b. Press <ENTER>.

Manual Settings

Reset Custom Settings

- Select MANUAL > RESET.
- 2. To reset the custom, press **<ENTER>**.
 - Select YES to turn the LCD around or NO to keep the normal LCD view.
 - b. Accept the selected option.



- Manual Control 1. Select MANUAL > DMXvalue.
 - Select PAN, press <ENTER>.
 - i. Set **000~255** to assign the Pan position.
 - b. Select **TILT**, press **<ENTER>**.
 - i. Set **000~255** to assign the Tilt position.
 - Select COLOR, press <ENTER>.
 - i. Set **000~255** to assign the Color Wheel value.
 - d. Select GOBO1, press <ENTER>.
 - i. Set 000~255 to assign the Gobo 1 Wheel value.
 - e. Select GOBO2, press <ENTER>.
 - i. Set 000~255 to assign the Gobo 2 Wheel value.
 - Select GOBO2ROT, press <ENTER>.
 - i. Set 000~255 to assign the Gobo 2 Rotation value.
 - Select PRI&ROT, press <ENTER>.
 - i. Set **000~255** to assign the Prism value.
 - h. Select **FOCUS**, press **<ENTER>**.
 - i. Set **000~255** to assign the Focus position.
 - Select **DIMMER**, press **<ENTER>**.
 - i. Set **000~255** to assign the Dimmer value.
 - Select STROBE, press <ENTER>.
 - i. Set **000~255** to assign the Strobe value.

Service Menu

Settings Menu Lock-Out 1.

- Select SERVICE > ACCESS > SETTLOCK.
- To set the Settings Menu level lock-out, press **<ENTER>**.
 - a. Select YES to enable or NO to disable.
 - b. Press <ENTER>.

- Service Menu Lock-Out 1. Select SERVICE > ACCESS > SERVLOCK.
 - 2. To set the Service Menu level lock-out, press **<ENTER>**.
 - a. Select YES to enable or NO to disable.
 - b. Press **<ENTER>**.

- Software Version 1. Select SERVICE > INFO > VERSION.
 - a. Press <ENTER>.

- Home Screen 1. Select SERVICE > CONTENT > DISPLAY1.
 - 2. Use the **<UP>** and **<DOWN>** keys to select the first of 8 characters to show on the home screen, press <ENTER>.

Content Send

- Select SERVICE > CONTENT > SEND.
- To send Content mode settings in the Q-Spot[™] 460 LED to other Q-Spot[™] 460 LED products connected via Master/Slave, press **<ENTER>**.
 - a. Select YES or NO.
 - b. Press **<ENTER>**.



Menu Map

Main Level	Pro	ogrammiı	ng Lev	els	Description
ADDRESS		001~5	512		Selects a starting DMX address
PERSON		PERSON 1			Selects the 14-channel DMX mode
PERSON	SON		ON 2		Selects the 11-channel DMX mode
		PT SP	EED	FAST	Defines the pan/tilt speed
		FISE	LLD	SLOW	Defines the parituit speed
		PAN IN		NORM	Defines the direction of pan function
		I AII		INVERT	Defines the direction of pair function
		TILT I	INV	INVERT Defines the direction of tilt fur	Defines the direction of tilt function
			1121 1111		Defined the direction of the removed
		OP SP	EED	FAST	Defines the optics speed
				SLOW	
		BLAC	K D	INSTANT	Defines the move-in black delay
				DELAY	,
				DIM4	1
				DIM3	Slow (DIM4) to fast (DIM1) dimmer curves
		DIMM	IER	DIM2	
			DIM1		1
	PERFORM			OFF NORM	Linear dimmer
		DIM I	NV	INVERT	Defines the direction of the dimmer function
		DMXER	DMXERROR SAVE		Save the last look when DMX signal is lost
SETTINGS		DIVIXEN		BLACK	All LEDs off when DMX signal is lost
OLI IIII		DMXRESET	SET	DMX	The DMX controller can reset the fixture
				DISPLAY	The control panel can reset the fixture
				LONG	Defines the amount of time the display backlight
		DISPL	_AY	SHORT	is on
				ALWAYS	
		KEY LO	оск	YES	Activates the control panel password
				NO	· · ·
		HOMEP	PAGE	DMX	Sets the display to show only the DMX channel when idle
		11011121	AGE	NAME+DMX	Display what is programmed via CONTENT leve when idle
		P.STA	ART		Sets the pan start point (restricted range)
	RANGE	P.EN	ND	000~255	Sets the pan end point (restricted range)
	KANGE	T.STA	ART	000~255	Sets the tilt start point (restricted range)
		T.EN	1D		Sets the tilt end point (restricted range)
	DEFAUL	т	NO		Sate unit back to default factory settings
	DEFAUL	. 1		YES	Sets unit back to default factory settings
		\Box		YES	Sends all settings of this product to all other Q-
	SEND		NO		Spot™ 460 LED products connected via master/slave



Menu Map (cont.)

Main Level		Pr	ogramming Levels				Description
					DMX512		Selects DMX512-A running mode
		RUN		AUTO1		1	Selects the first automatic program
				AUTO2		2	Selects the second automatic program
				SOUND1		D1	Selects the first sound-activated program
				;	SOUNI)2	Selects the second sound program
					CUSTO	M	Selects the user-customizable program
					TEST		Selects the fixture's test sequence
					SLAV	E	Selects the Slave running mode
				PAI	N		Selects the pan position
				TIL	Τ		Selects the tilt position
				COL	OR .		Selects the color (color wheel)
RUNMODE				GOBO1			Selects a fixed gobo (static or shake)
KOMMODE				GOB	02		Selects a rotating gobo (static or shake)
				GOBO2	ROT	000~	Selects the gobo rotation mode
	EDIT	STEP	01~49	PRI&F	OT	255	Selects the prism rotation mode
				FOCI	JS		Selects a focus point
			_	DIMM	ER		Selects the dimmer value
				STRO	BE		Selects the strobe value
				TIM	E		Selects the step duration
						YES	
				USI		NO	Activates the changes
		SEND			NO YES		Sends RUNMODE settings of this product to all other Q-Spot [™] 460 LED products connected vi master/slave
		RESET			NO YES		Resets the product's custom settings
				PAN			Selects the pan position
				ILT			Selects the tilt position
			СО	LOR	1		Selects the color (color wheel)
			GO	BO1			Selects a fixed gobo (static or shake)
MANUAL			GO	BO2			Selects a rotating gobo (static or shake)
	DMX	Kvalue	GOB	D2ROT	00	00~255	Selects the gobo rotation mode
			PRI	&ROT			Selects the prism rotation mode
			FO	CUS			Selects a focus point
			DIM	IMER			Selects the dimmer value
			STR	ROBE			Selects the strobe value
					(OFF	Activates/deactivates the SETTINGS main leve
			SETT	ETTLOCK		ON	passcode
	AC	CESS				OFF	Activates/deactivates the SERVICE main level
		SE		/LOCK		ON	passcode
SERVICE		INFO	1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	L /ERSIC		Shows the version of the installed software
-			DISF	PLAY1		****	Allows 8 characters of text to be displayed on the control panel
	CON	CONTENT		SEND NO		NO	Sends CONTENT settings to all other Q-Spot™
	1					-	460 LED products connected via master/slave



DMX Values

Person 1

Channel	Function	Value	Percent/Setting
1	Pan	000 Ó 255	0~540°
2	Pan Fine	000 Ó 255	Fine pan control 0~3°
3	Tilt	000 Ó 255	0~270°
4	Tilt Fine	000 Ó 255	Fine tilt control 0~3°
5	Pan/Tilt Speed	000 Ó 255	Fast to Slow
6	Color Wheel	000 \(\phi \) 009 010 \(\phi \) 019 020 \(\phi \) 029 030 \(\phi \) 039 040 \(\phi \) 059 060 \(\phi \) 069 070 \(\phi \) 079 080 \(\phi \) 039 100 \(\phi \) 119 120 \(\phi \) 139 140 \(\phi \) 159 160 \(\phi \) 179 180 \(\phi \) 199 200 \(\phi \) 219 220 \(\phi \) 255	No Function Red Green Yellow Blue Orange Magenta Light Blue Light Blue/Magenta Magenta/Orange Orange/Blue Blue/Yellow Yellow/Green Green/Red Red/Open Rainbow or Linear Effect
7	Gobo Wheel 1	000 Ó 010 011 Ó 020 021 Ó 030 031 Ó 040 041 Ó 050 051 Ó 060 061 Ó 070 071 Ó 080 081 Ó 095 096 Ó 110 111 Ó 125 126 Ó 140 141 Ó 155 156 Ó 170 171 Ó 185 186 Ó 255	No gobo Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Shaking gobo 7 Shaking gobo 6 Shaking gobo 5 Shaking gobo 4 Shaking gobo 3 Shaking gobo 1 Flow effect
8	Gobo Wheel 2	000 6 010 011 6 020 021 6 030 031 6 040 041 6 050 051 6 060 061 6 070 071 6 085 081 6 100 096 6 115 111 6 130 126 6 145 141 6 160 156 6 255	No gobo Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Shaking gobo 6 Shaking gobo 5 Shaking gobo 4 Shaking gobo 3 Shaking gobo 2 Shaking gobo 1 Flow effect



DMX Values (cont.)

Person 1

Channel	Function	Value	Percent/Setting
9	Gobo Wheel 2 Rotation	000 \(\times \) 060 061 \(\times \) 150 151 \(\times \) 165 166 \(\times \) 255	360° Indexing Clockwise Rotation ~ Slow to Fast No Function Counter-Clockwise Rotation ~ Slow to Fast
10 Prism Rotation		000 \(\phi \) 004 005 \(\phi \) 009 010 \(\phi \) 127 128 \(\phi \) 132 133 \(\phi \) 255	No Function No Rotation Counter-clockwise rotation ~ Slow to Fast No Rotation Clockwise rotate ~ Slow to Fast
11	Focus	000 Ó 255	0~100%
12	Dimmer	000 Ó 255	0~100%
13	Strobe	000 \(\phi \) 031 032 \(\phi \) 063 064 \(\phi \) 095 096 \(\phi \) 127 128 \(\phi \) 159 160 \(\phi \) 191 192 \(\phi \) 223 224 \(\phi \) 255	Close Open Strobe 0~20 Hz Open Pulse Effect Open Random Effect Open
14	Control	000 6 019 020 6 039 040 6 059 060 6 139 140 6 149 150 6 169 170 6 179 180 6 189 190 6 199 200 6 219 220 6 235 236 6 239 240 6 243 244 6 247 248 6 251 252 6 255	No function Pan/tilt black activation Pan/tilt black deactivation No function Auto program 1 (3 sec activation delay) Auto program 2 (3 sec activation delay) Test (3 sec activation delay) Custom program (3 sec activation delay) Sound 1 Sound 2 Reset (3 sec activation delay) Dim setting as set in product DIM0 (3 sec activation delay) DIM1 (3 sec activation delay) DIM2 (3 sec activation delay) DIM3 (3 sec activation delay) DIM3 (3 sec activation delay) DIM4 (3 sec activation delay)



DMX Values (cont.) Person 2 Channel

Channel	Function	Value	Percent/Setting		
1	Pan	000 ර 255	0~540°		
2	Tilt	000 Ó 255	0~270°		
3	Color Wheel	000 6 009 No Function 010 6 019 Red 020 6 029 Green 030 6 039 Yellow 040 6 049 Blue 050 6 059 Orange 060 6 069 Magenta 100 6 119 Light Blue 120 6 139 Orange/Blue 140 6 159 Blue/Yellow 160 6 179 Yellow/Green 180 6 199 Green/Red 200 6 219 Red/Open Rainbow or Linear Effect			
4	Gobo Wheel 1	000 \(\) 010 011 \(\) 020 021 \(\) 030 031 \(\) 040 041 \(\) 050 051 \(\) 060 061 \(\) 070 071 \(\) 080 081 \(\) 095 096 \(\) 110 111 \(\) 125 126 \(\) 140 141 \(\) 155 156 \(\) 170 171 \(\) 185 186 \(\) 255	No gobo Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Shaking gobo 7 Shaking gobo 5 Shaking gobo 5 Shaking gobo 4 Shaking gobo 3 Shaking gobo 2 Shaking gobo 1 Flow effect		
5	Gobo Wheel 2	000 \(\circ\) 010 011 \(\circ\) 020 021 \(\circ\) 030 031 \(\circ\) 040 041 \(\circ\) 050 051 \(\circ\) 060 061 \(\circ\) 070 071 \(\circ\) 085 081 \(\circ\) 100 096 \(\circ\) 115 111 \(\circ\) 130 126 \(\circ\) 145 141 \(\circ\) 160 156 \(\circ\) 255	No gobo Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Shaking gobo 6 Shaking gobo 5 Shaking gobo 4 Shaking gobo 3 Shaking gobo 2 Shaking gobo 1 Flow effect		



DMX Values (cont.)

Person 2

Channel	Function	Value	Percent/Setting		
6	Gobo Wheel 2 Rotation	000 Ó 060 061 Ó 150 151 Ó 165 166 Ó 255	360° Indexing Clockwise Rotation ~ Slow to Fast No Function Counter-Clockwise Rotation ~ Slow to Fast		
7	Prism Rotation	000 \(\phi \) 004 005 \(\phi \) 009 010 \(\phi \) 127 128 \(\phi \) 132 133 \(\phi \) 255	No Function No Rotation Counter-Clockwise Rotation ~ Slow to Fast No Rotation Clockwise rotate ~ Slow to Fast		
8	Focus	000 Ó 255	0~100%		
9	Dimmer	000 Ó 255	0~100%		
10	Strobe	000 \(\phi \) 031 032 \(\phi \) 063 064 \(\phi \) 095 096 \(\phi \) 127 128 \(\phi \) 159 160 \(\phi \) 191 192 \(\phi \) 223 224 \(\phi \) 255	Close Open Strobe 0~20 Hz Open Pulse Effect Open Random Effect Open		
11	Control	000 6 019 020 6 039 040 6 059 060 6 139 140 6 149 150 6 159 160 6 169 170 6 179 180 6 189 190 6 199 200 6 219 220 6 235 236 6 239 240 6 243 244 6 247 248 6 251 252 6 255	No function Pan/tilt black activation Pan/tilt black deactivation No function Auto program 1 (3 sec activation delay) Auto program 2 (3 sec activation delay) Test (3 sec activation delay) Custom program (3 sec activation delay) Sound 1 Sound 2 Reset (3 sec activation delay) Dim setting as set in product DIM0 (3 sec activation delay) DIM1 (3 sec activation delay) DIM2 (3 sec activation delay) DIM3 (3 sec activation delay) DIM4 (3 sec activation delay)		



5. Technical Information

Product Maintenance

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

As a rule, 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 your product:

- Unplug the product from power.
- · Wait until the product 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 optics and glass/plastic surfaces with a mild solution of nonammonia glass cleaner or isopropyl alcohol.
- Apply the solution directly to a soft, lint-free cotton cloth or a lens cleaning tissue.
- · Wipe any dirt or grime to the outside edges of the lens, glass, or plastic surface.
- Gently polish the lenses until they are free of haze and lint.



Always dry the external optics, glass, and plastic surfaces thoroughly after cleaning them.



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

Returns

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

The user must clearly label the package with an 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 please 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(s)

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be the customer's responsibility. Proper FedEx packing or double-boxing are recommended packaging methods.



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



6. Technical Specifications

mensions and	Length	Width	Height	Weight	
Weight	14.2 in (360 mm) 1	0.6 in (270 mm)	20.5 in (520 mm)	26.5 lbs (12 kg)	
	Note: Dimensions in inche	s rounded to the nea	rest decimal digit.		
Electrical	Power Supply Type	Rang	je \	/oltage Selection	
	Switching (internal)	100~240 V,	50/60 Hz	Auto-ranging	
	Parameter	120 V, 60 Hz	208 V 60 Hz	230 V, 50 Hz	
	Consumption	196 W	198 W	202 W	
	Operating	1.78 A	1.00 A	.920 A	
	Power Linking Maximum		13	14	
	Fuse/Breaker	T 3.15 A, 250 \	/ T 3.15 A, 250	V T 3.15 A, 250 V	
	Power I/O	U.S./Worl	dwide	Europe	
	Power input connector	Neutrik® powe		utrik® powerCON® A	
	Power output connector	•		Neutrik® powerCON® B	
	Power cord plug	Edison (U.S.)	Local plug	
Gobo Sizes	Gobo Wheel 2	Gobo Dime	ensions		
	Outside	32.7 m	nm		
	Image	27.5 m	nm		
	Thickness	1.45 m	nm		
Light Source	Туре	Powe	er	Lifespan	
	LED	10 W	<i>l</i>	50,000 hours	
	Color	Quant	ity	Current	
	White	7		3 A	
Photo Optic	Parameter	Standard	Optics		
	Illuminance @ 5 m	2240	lx		
	Beam angle	16º			
Thermal	Max. External Temperatu	re Cooling S	ystem		
	104° F (40° C)	Fan Assisted (Convection		
DMX	I/O Connectors	Connecto	r Туре	Channel Range	
	3- and 5-pin XLR	Socke	ets	11,14	
Ordering	Product Name	Item Co	ode	UPC Number	
	Q-Spot™ 460-LED	010105	565	781462209131	



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