

ROGUE



User Manual



Model ID: ROGUER2ESPOT


CHAUVET
PROFESSIONAL

Edition Notes

The Rogue R2E Spot User Manual includes a description, safety precautions, installation, programming, operation, and maintenance instructions for the Rogue R2E Spot as of the release date of this edition.

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

Intended Audience

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

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Document Revision

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

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Before You Begin

1. Before You Begin

What Is Included

- Rogue R2E Spot
- (2) 140D Omega brackets with mounting hardware
- Seetronic Powerkon IP65 power cable
- Quick Reference Guide

Claims

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

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

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

Text Conventions

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

Symbols

Symbol	Meaning
	Critical installation, configuration, or operation information. Not following these instructions may make the product not work, cause damage to the product, or cause harm to the operator.
	Important installation or configuration information. The product may not function correctly if this information is not used.
	Useful information.

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



Connection of the control signal: DMX line

- The product has XLR sockets for DMX input and output.
- **Notice:** This control circuit is isolated and belongs to the Class 2 data port. The control circuit has a cumulative leakage current of less than 3.5 mA.

Safety Notes

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



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



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

- The luminaire is intended for professional use only.
- The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 16.4 ft (5 m) is not expected.
- If the external flexible cable or cord of this luminaire is damaged, it shall be replaced by a special cord or cord exclusively available from the manufacturer or its service agent.
- The light source contained in this luminaire shall only be replaced by the manufacturer or its service agent or a similar qualified person.
- **CAUTION:**
 - This product's housing may be hot when operating. Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
 - When transferring the product from extreme temperature environments, (e.g., cold truck to warm humid ballroom) condensation may form on the internal electronics of the product. To avoid causing a failure, allow the product to fully acclimate to the surrounding environment before connecting it to power.
 - Flashing light is known to trigger epileptic seizures. User must comply with local laws regarding notification of strobe use.
- **ALWAYS:**
 - Disconnect from power before cleaning the product or replacing the fuse.
 - Replace the fuse with the same type and rating.
 - Use a safety cable when mounting this product overhead.
 - Connect this product to a grounded and protected circuit.
- **DO NOT:**
 - Open this product. It contains no user-serviceable parts.
 - Look at the light source when the product is on.
 - Leave any flammable material within 20 cm of this product while operating or connected to power.
 - Connect this product to a dimmer or rheostat.
 - Operate this product if the housing, lenses, or cables appear damaged.
- **ONLY** use the handles or the hanging/mounting brackets to carry this product.
- The maximum ambient temperature is 113 °F (45 °C). Do not operate this product at higher temperatures.
- The minimum startup temperature is -4°F (-20°C). Do not start the product at lower temperatures.
- The minimum ambient temperature is 14°F (-10°C). Do not operate the product at lower temperatures.
- To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.
- In the event of a serious operating problem, stop using immediately.



If a Chauvet product requires service, contact Chauvet Technical Support.

Before You Begin

FCC Statement of Compliance

This device complies with Part 15 Part B of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Expected LED Lifespan

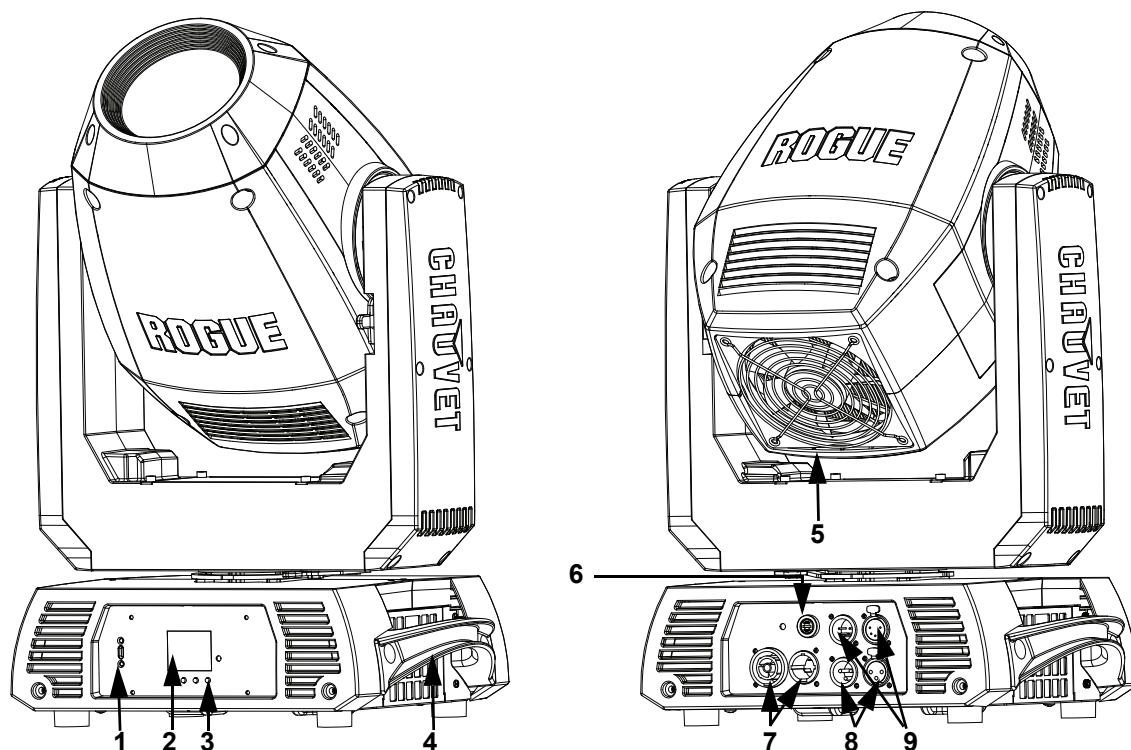
Over time, use and heat will gradually reduce LED brightness. Clustered LEDs produce more heat than single LEDs, contributing to shorter lifespans if always used at full intensity. The average LED lifespan is 40,000 to 50,000 hours. To extend LED lifespan, maintain proper ventilation around the product, and limit the overall intensity.

2. Introduction

Features

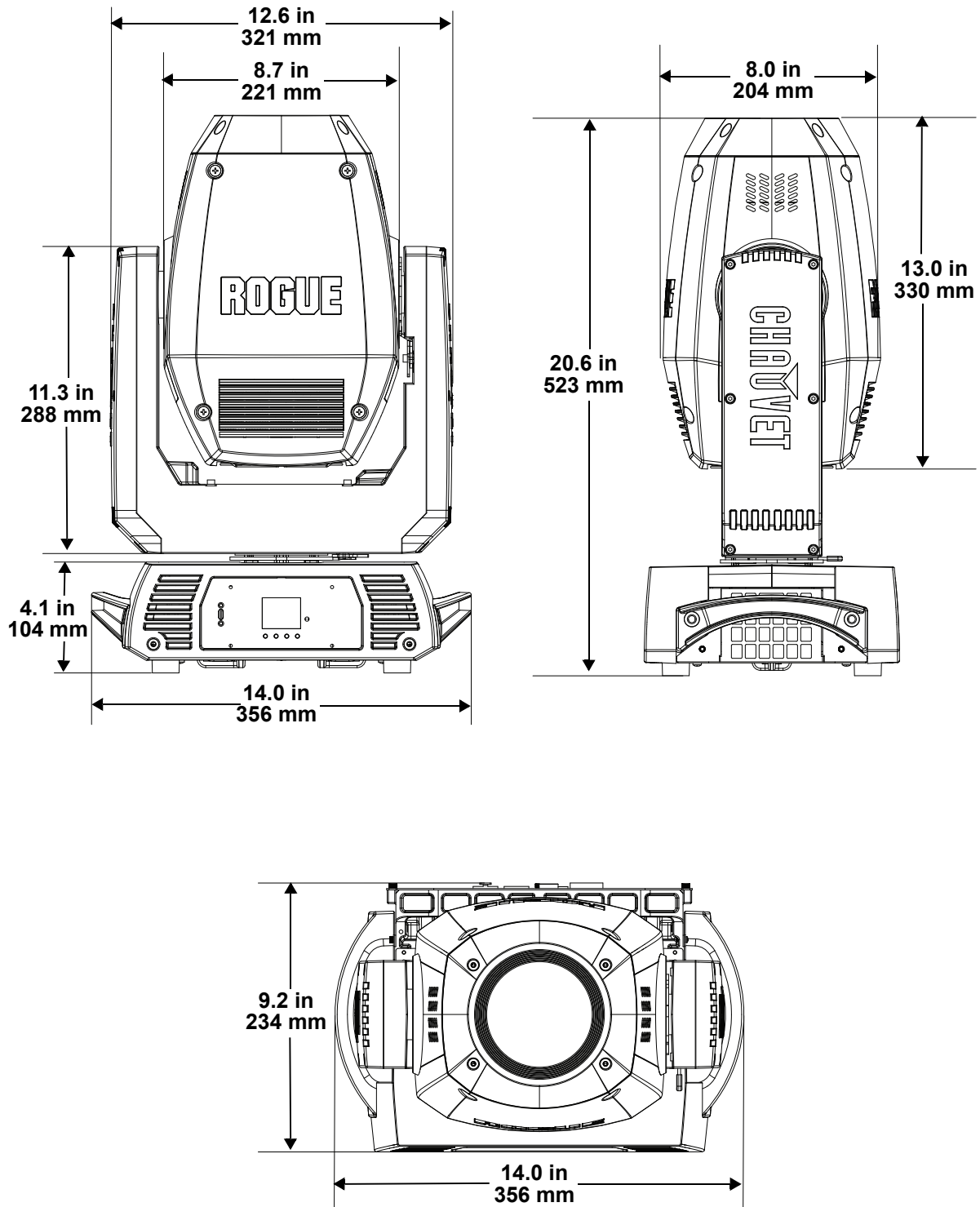
- Fully featured compact and light weight moving yoke spot fixture with an Intense 350 W LED light engine, two gobo wheels, one rotating, and one static, a 3-facet prism wheel, frost, and two color wheels.
- 16-bit dimming of master dimmer for smooth control of fades
- Perfect gobo morphing between gobo wheels
- Two color wheels with 7 colors, split color ability, and continuous variable speed scrolling
- Two gobo wheels: one fixed scrolling wheel and one rotating, interchangeable, scrolling wheel
- Iris, 3-facet prism, and frost for beam control
- True 1 compatible power input/output connections for power linking
- 3- and 5-pin DMX input/output connections
- RDM enabled for remote addressing and trouble shooting
- Selectable LED maximum output to match legacy Rogue R2X Spots
- Selectable PWM settings to maintain flicker-free operation on camera.
- Simple and complex DMX channel profiles for programming versatility

Product Overview



#	Name
1	USBC Port
2	LCD display
3	Menu buttons
4	Carry handle (x2)
5	Fans
6	Fuse holder
7	Power in/out
8	3-pin DMX in/out
9	5-pin DMX in/out

Product Dimensions



3. Setup

AC Power

The Rogue R2E Spot has an auto-ranging power supply, and it can work with an input voltage range of 100 to 240 VAC, 50/60 Hz.

To determine the product's power requirements (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or refer to the product's specifications chart.

The listed current rating indicates the product's average current draw under normal conditions.



- **Always connect the product to a protected circuit (a circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.**
- **To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.**



Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

AC Plug

The Rogue R2E Spot comes with a power input cable terminated with a Seetronic Powerkon A connector on one end and bare wire on the other end (U.S. market). Use the table below to wire a plug.

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

Power Linking

This product comes with a power input cord. Power-linking cables are available from Chauvet for purchase. It is possible to power link Rogue R2E Spot products. See the table below for the current draw at each voltage and frequency:

	100 V, 60 Hz	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz	240 V, 50 Hz
Current Draw	4.92 A	4.05 A	2.32 A	2.13 A	2.03 A

Never exceed 12 A on a single circuit. Power-linking cables can be purchased separately.

Fuse Replacement

1. Disconnect this product from the power outlet.
2. Using a flat-head screwdriver, unscrew the fuse holder cap from the housing.
3. Remove the blown fuse and replace with another fuse of the same type and rating (F 10 A, 250 V).
4. Screw the fuse holder cap back in place and reconnect power.

DMX Linking

The Rogue R2E Spot can be linked to a DMX controller using a 3-pin and 5-pin DMX connection. If using other DMX-compatible products with this product, each can be controlled individually with a single DMX controller. For more information about DMX, read the DMX primer at:

https://www.chauvetprofessional.com/wp-content/uploads/2016/06/DMX_Primer.pdf.

DMX Personalities

The Rogue R2E Spot uses a 3-Pin and 5-pin DMX data connection for the 18- and 21-channel DMX personalities.

- Refer to the [Operation](#) chapter to learn how to configure the Rogue R2E Spot to work in these personalities.
- The [DMX Values](#) section provides detailed information regarding the DMX personalities.

Remote Device Management

Remote Device Management (RDM) is a standard for allowing DMX-enabled devices to communicate bi-directionally along existing DMX cabling. Check the DMX controller's User Manual or with the manufacturer as not all DMX controllers have this capability. The Rogue R2E Spot supports RDM protocol that allows feedback to make changes to menu map options.

USB Update

The Rogue R2E Spot allows for software update through USB using the built-in USB port. To update the software using a USB type C flash drive, do the following:

1. Power on the fixture and plug the flash drive into the USB port.
2. Once the flash drive has been detected, the message **"USB UPDATE"** will be displayed. Select **YES**.
3. The next screen will show the software versions available for this fixture on the USB drive. For multiple versions of the software for the same fixture, use **<UP>** or **<DOWN>** to select the desired version. Press **<ENTER>**.
4. The **"USB UPDATE"** screen will re-appear. Select **YES**.
5. The upgrade will start. **DO NOT** turn off the power or disconnect the USB while the USB LED is still blinking during the process. The screen display will read: **"USB UPDATE WAIT"**. USB update can take several minutes to complete.



When the USB stops blinking, all the motors will power down and the display will go blank. DO NOT turn off the power. The fixture will automatically reboot when the update is done.

6. Go to the Fixture Information on the product's menu map and confirm the firmware revision
7. When the boot-up process is finished, restart the product.



- Place the .chl file in the root directory of the USB drive.
- The product's USB port supports up to 32GB capacity and only works with FAT32 file format.



Turning off the power or removing the USB while still blinking during the update will cause partial or total firmware failure in the targeted fixture(s). If this occurs, the user will need the UPLOAD 08 device to fix this. Please contact Chauvet regarding this device.

Mounting

Before mounting the product, read and follow the safety recommendations indicated in the Safety Notes. For the Chauvet Professional line of mounting clamps, go to <http://trusst.com/products/>.

Orientation

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

Rigging

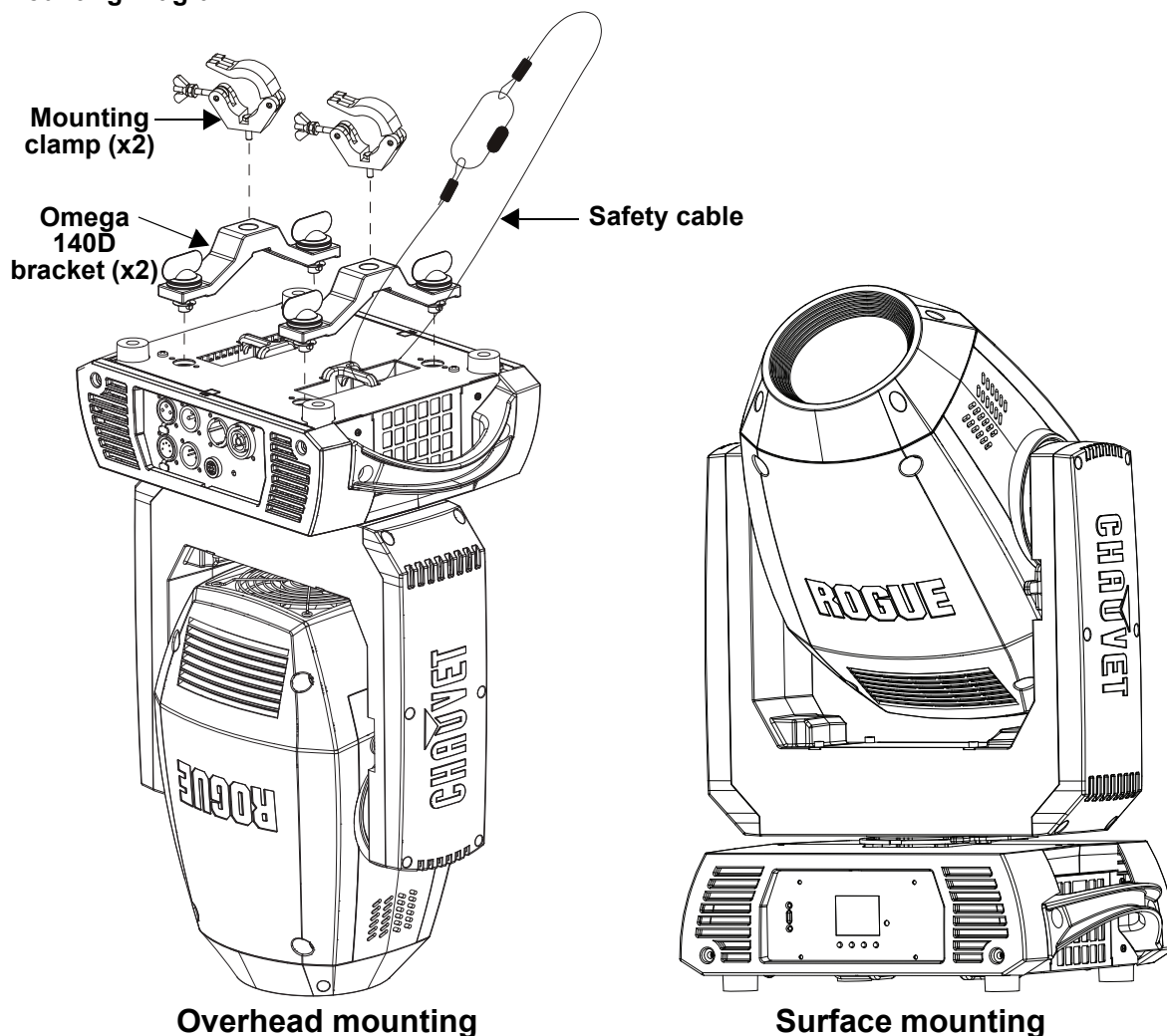
Chauvet recommends using the following general guidelines when mounting this product.

- Before deciding on a location for the product, make sure there is easy access to the product for maintenance and programming purposes.
- Make sure that the structure and attachment points can support the weight before hanging the product (see [Technical Specifications](#)).
- When mounting the product overhead, always use a safety cable. Mount the product securely to a rigging point, whether an elevated platform or a truss.
- When rigging the product onto a truss, use a mounting clamp of appropriate weight capacity.

Procedure

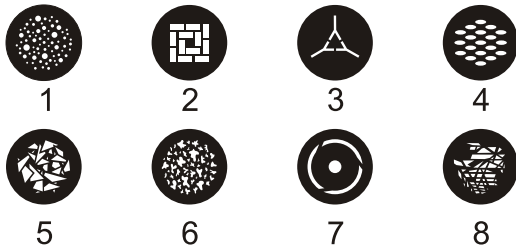
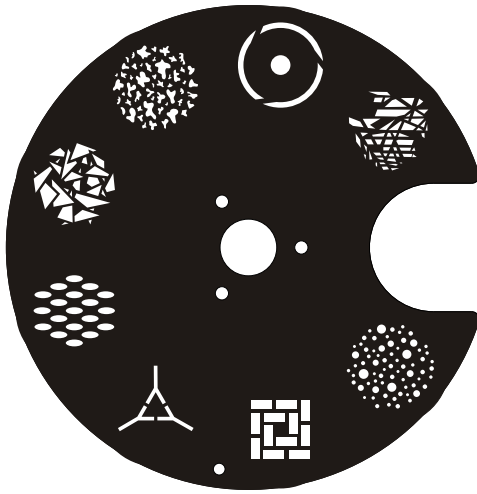
The Rogue R2E Spot comes with 2 (140D) Omega brackets to which the user can directly attach the mounting clamps (sold separately). Make sure the clamps are capable of supporting the weight of this product. Use at least two mounting points per product.

Mounting Diagram

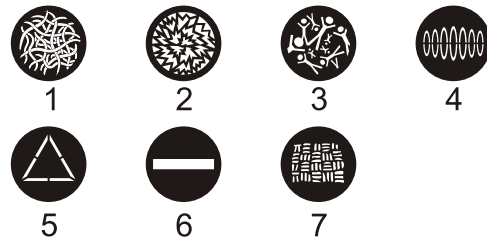
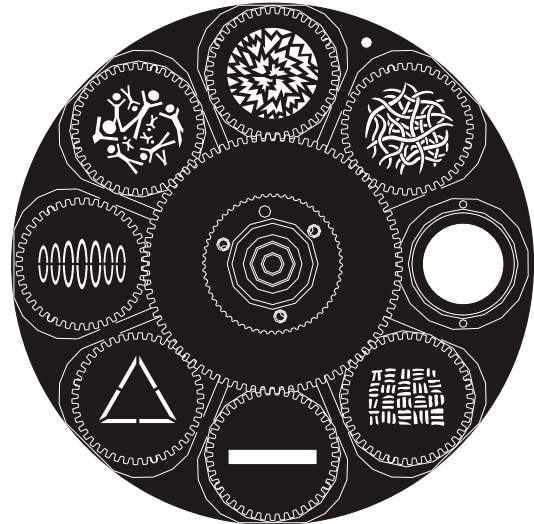


Gobo Wheels

Static Gobo Wheel

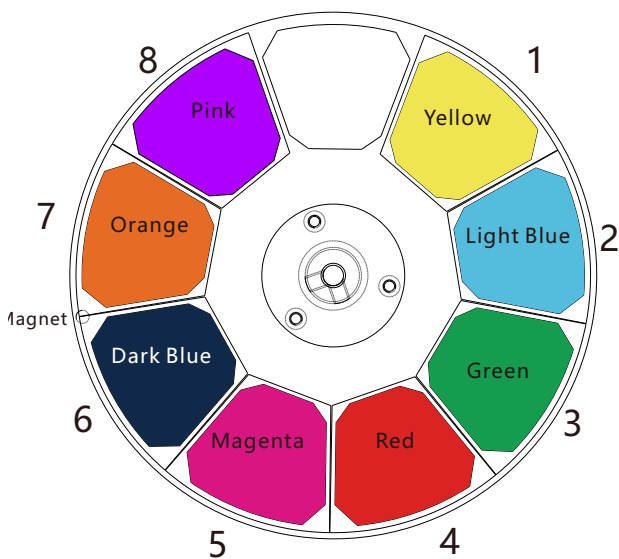


Rotating Gobo Wheel

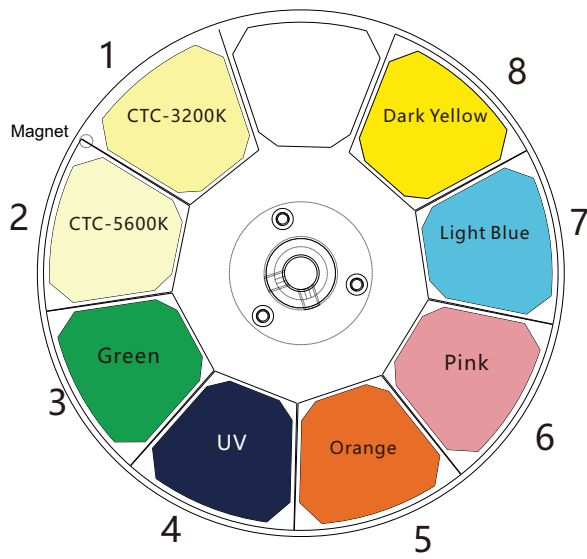


Gobo Wheel	Gobo #	Description	Gobo Wheel	Gobo #	Description
Static gobo wheel	1	Dots breakup	Rotating gobo wheel	1	Tribal breakup
	2	Bricks		2	Shattered
	3	Triangle rays		3	Stickmen
	4	Grouped ovals		4	Linear ovals
	5	Triangle breakup		5	Laser triangle
	6	Foliage breakup		6	Line
	7	Circle dot		7	Thatched breakup
	8	Mosaic breakup			

Color Wheels

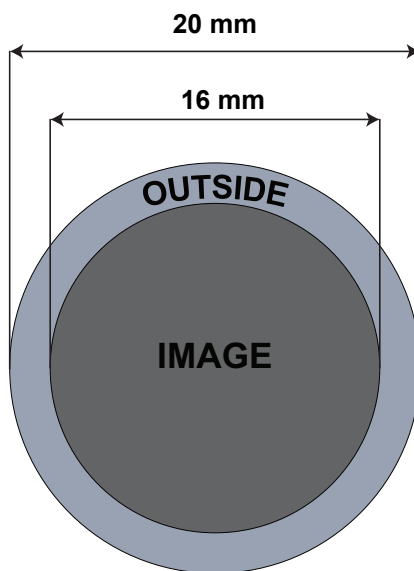


Color Wheel 1



Color Wheel 2

Rotating Gobo Dimensions



Gobo Replacement

The gobos in the Rogue R2E Spot are removable from their gobo holders.



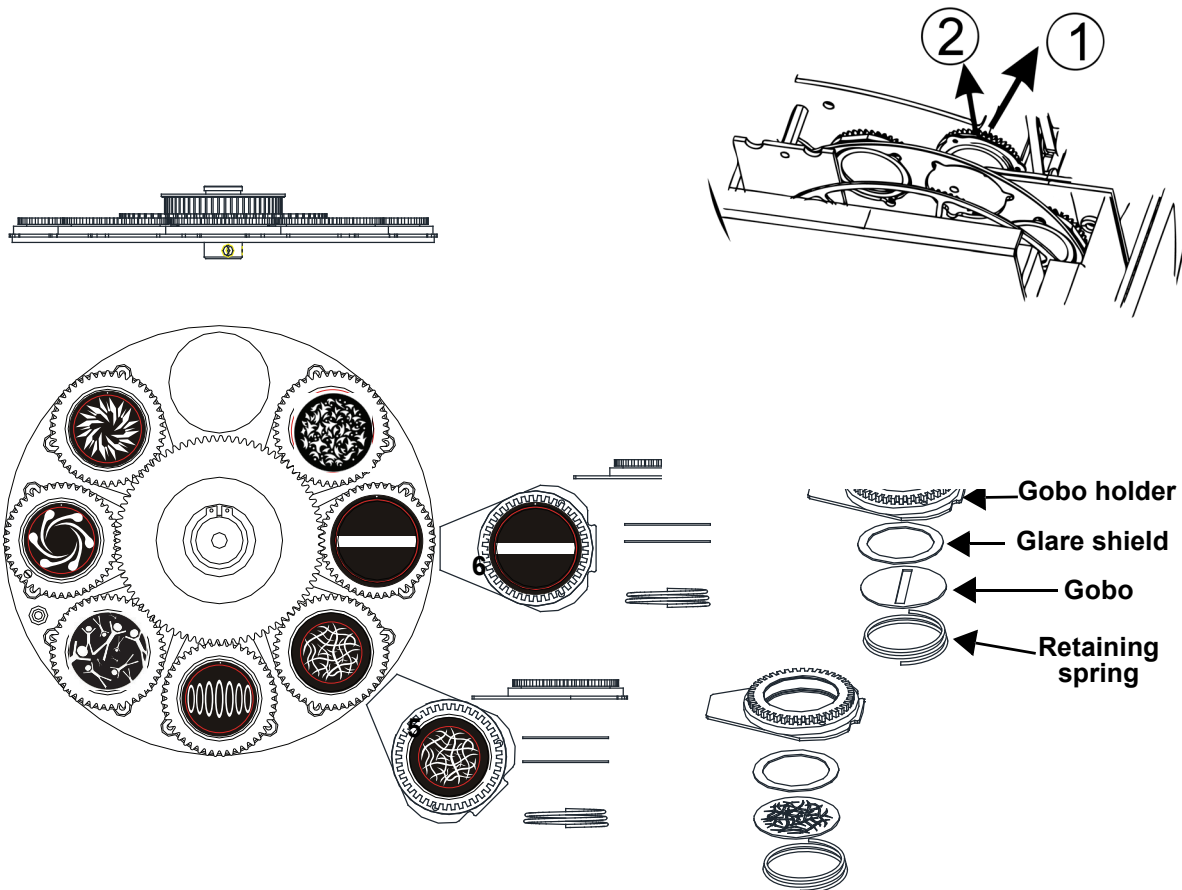
- **Make sure to disconnect the product's power cable before replacing a gobo.**
- **Always replace a gobo with a gobo of the same dimensions.**
- **When inserting a glass gobo, always make sure that the shiny side of the gobo (glass base) faces the lamp. This provides a layer of protection against the high temperature from the lamp.**
- **All custom gobos in the Rogue R2E Spot gobo wheel 1 must be aluminum or glass.**

Procedure

Follow the recommended procedure below to remove or replace the gobos:

1. Turn the product off and disconnect it from the power outlet.
2. Open the head cover by loosening the 4 Phillips-head ¼-turn screws on the sides of the top cover.
3. Separate the gobo holder away from the gobo wheel by pushing it toward the front of the moving head (see direction 1 in the diagram). Be careful not to push the gobo out of the gobo holder.
4. Extract the gobo holder by pulling it outward (see 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 holder.
6. Insert a new gobo and hold it in place with the expansion ring.
7. Slide the tip of the gobo holder under the pressure plate near the center of the gobo wheel.
8. Push the gobo holder inwards. **DO NOT** force the gobo holder into the gobo wheel slot. If correctly installed, the gobo plate should easily slide itself into the gobo wheel slot.

Gobo Replacement Diagrams



- The gobos on gobo wheel 2 are not removable.
- Gobo illustrations are for reference purposes only. Gobo designs may differ from those installed in the product.
- See [Gobo Maintenance](#) for instructions on how to clean the gobos and gobo holder.

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 into the selected function
<UP>	Navigates upwards through the menu list or increases the numeric value when in a function
<DOWN>	Navigates downwards through the menu list or decreases the numeric value when in a function

Menu Map

Refer to the Rogue R2E Spot product page on www.chauvetprofessional.com for the latest software and menu map.

Main Level	Programming Levels		Description
Address	001–512		Sets the starting address
Run Mode	DMX	18CH	Selects the DMX personality
		21CH	
	Auto Test		Auto test all functions
	Manual Test	Pan	0–255 Manually control and test all settings through the control panel
		Pan Fine	
		Tilt	
		Tilt Fine	
		P/T Speed	
		Dimmer	
		Dimmer Fine	
		Shutter	
		Virtual Shaking	
		Color1	
		Color2	
		Gobo	
		Gobo Rot	
		Gobo2	
		Focus	
		Prism	
		R-Prism	
		Iris	
		Frost	
		P/T Macro	
		P/T Ma. Speed	
		Special Function	
Setup	Pan Reverse	YES	Reverse pan operation
		NO	Normal pan operation
	Tilt Reverse	YES	Reverse tilt operation
		NO	Normal tilt operation
	Screen Reverse	YES	Rotates control screen view 180°
		NO	Normal control screen view
	Pan Angle	540	Selects the 540° pan angle range
		360	Selects the 360° pan angle range
		180	Selects the 180° pan angle range
	Tilt Angle	270	Selects the 270° tilt angle range
		180	Selects the 180° tilt angle range
		90	Selects the 90° tilt angle range
	BL. O. P/T Move	YES	Defines the pan/tilt move-in-black delay
		NO	

Main Level	Programming Levels		Description
Setup (cont.) Sys Info	BL. O. Color Move	YES	Defines the color change move-in-black delay
		NO	
	BL. O. Gobo Move	YES	Define the gobo change move-in-black delay
		NO	
	LED Power	50–100	Sets LED power
	Fans	Auto	Change the fan speed mode
		ECO	
	PWM Option	600Hz	Sets the Pulse Width Modulation frequency
		1200Hz	
		2000Hz	
		6000Hz	
		15000Hz	
	Reset Function	Pan/Tilt	Reset individual functions or all functions from start-up
		Prism	
		Color/ Frost	
		Gobo/ GoboRot /Gobo2	
		Focus/ Iris	
		All	
	Factory Settings	YES	Reset to factory default settings
		NO	
	Ver	V_ _ _ _ _	Shows current software version
	Running Mode	_ _ _	Shows current running mode
	DMX Address	_ _ _	Shows current DMX address
	Temperature	_ _	Shows the product's temperature in Celsius
	UID	_ _ _ _ _	Shows product UID

DMX Configuration

Use control configurations to operate the product with a DMX controller.

Control Personalities

To set the control personality:

1. Go to the **Run Mode** main level.
2. Select the **DMX** option.
3. Select the desired personality, from **18CH** or **21CH**.



- See the [Starting Address](#) section for the highest selectable starting address for each personality.
- Make sure that the starting addresses on the various products do not overlap due to the new personality setting.

Starting Address

Each product will respond to a unique starting address from the controller. All products with the same starting address will respond in unison. To set the starting address:

1. Go to the **Address** main level.
2. Select the starting address (**001–512**).
 - The highest recommended starting address for **18CH** is **495**.
 - The highest recommended starting address for **21CH** is **492**.

Control Channel Assignments and Values

18CH	21Ch	Function	Value	Percent/Setting
1	1	Pan	000 ⇔ 255	0–100%
2	2	Fine pan	000 ⇔ 255	Fine control (16-bit)
3	3	Tilt	000 ⇔ 255	0–100%
4	4	Fine tilt	000 ⇔ 255	Fine control (16-bit)
5	5	Pan/tilt speed	000 ⇔ 255	Fast to slow
6	6	Dimmer	000 ⇔ 255	0–100%
–	7	Fine dimmer	000 ⇔ 255	Fine control (16-bit)
7	8	Strobe	000 ⇔ 003	No function
			004 ⇔ 007	On
			008 ⇔ 076	Synchronized strobe, slow to fast
			077 ⇔ 145	Pulse strobe, slow to fast
			146 ⇔ 215	Random strobe, slow to fast
			216 ⇔ 255	On
8	9	Color wheel 1 (see Color Wheels)	000 ⇔ 006	Open (White)
			007 ⇔ 013	Yellow
			014 ⇔ 020	Light Blue
			021 ⇔ 027	Green
			028 ⇔ 034	Red
			035 ⇔ 041	Magenta
			042 ⇔ 048	Dark Blue
			049 ⇔ 055	Orange
			056 ⇔ 063	Pink
			064 ⇔ 127	Split colors
			128 ⇔ 191	Clockwise color scroll, slow to fast
			192 ⇔ 255	Counterclockwise color scroll, slow to fast
9	10	Color wheel 2 (see Color Wheels)	000 ⇔ 006	Open (White)
			007 ⇔ 013	CTC-3200K
			014 ⇔ 020	CTC-5600K
			021 ⇔ 027	Green
			028 ⇔ 034	UV
			035 ⇔ 041	Orange
			042 ⇔ 048	Pink
			049 ⇔ 055	Light Blue
			056 ⇔ 063	Dark Yellow
			064 ⇔ 127	Split colors
			128 ⇔ 191	Clockwise color scroll, slow to fast
			192 ⇔ 255	Counterclockwise color scroll, slow to fast

18CH	21Ch	Function	Value	Percent/Setting
10	11	Rotating gobo wheel (see Gobo Wheels)	000 ⇔ 007	Open
			008 ⇔ 015	Gobo 1
			016 ⇔ 023	Gobo 2
			024 ⇔ 031	Gobo 3
			032 ⇔ 039	Gobo 4
			040 ⇔ 047	Gobo 5
			048 ⇔ 055	Gobo 6
			056 ⇔ 063	Gobo 7
			064 ⇔ 071	Gobo 7 shaking, slow to fast
			072 ⇔ 079	Gobo 6 shaking, slow to fast
			080 ⇔ 087	Gobo 5 shaking, slow to fast
			088 ⇔ 095	Gobo 4 shaking, slow to fast
			096 ⇔ 103	Gobo 3 shaking, slow to fast
			104 ⇔ 111	Gobo 2 shaking, slow to fast
			112 ⇔ 119	Gobo 1 shaking, slow to fast
			120 ⇔ 127	Open
			128 ⇔ 191	Clockwise gobo scroll, slow to fast
			192 ⇔ 255	Counterclockwise gobo scroll, slow to fast
11	12	Gobo rotation	000 ⇔ 063	Gobo index
			064 ⇔ 146	Clockwise gobo rotation, slow to fast
			147 ⇔ 148	Stop
			149 ⇔ 231	Counterclockwise gobo rotation, slow to fast
			232 ⇔ 255	Gobo rotation back and forth
12	13	Static gobo wheel (see Gobo Wheels)	000 ⇔ 006	Open
			007 ⇔ 013	Gobo 1
			014 ⇔ 020	Gobo 2
			021 ⇔ 027	Gobo 3
			028 ⇔ 034	Gobo 4
			035 ⇔ 041	Gobo 5
			042 ⇔ 048	Gobo 6
			049 ⇔ 055	Gobo 7
			056 ⇔ 063	Gobo 8
			064 ⇔ 079	Gobo 8 shaking, slow to fast
			072 ⇔ 087	Gobo 7 shaking, slow to fast
			079 ⇔ 095	Gobo 6 shaking, slow to fast
			086 ⇔ 103	Gobo 5 shaking, slow to fast
			093 ⇔ 111	Gobo 4 shaking, slow to fast
			100 ⇔ 119	Gobo 3 shaking, slow to fast
			107 ⇔ 127	Gobo 2 shaking, slow to fast
			114 ⇔ 191	Gobo 1 shaking, slow to fast
			121 ⇔ 255	Open
			128 ⇔ 191	Clockwise gobo scroll, slow to fast
			192 ⇔ 255	Counterclockwise gobo scroll, slow to fast
13	14	Focus	000 ⇔ 255	Far to near
14	15	Prism	000 ⇔ 004	No function
			005 ⇔ 255	Prism

18CH	21Ch	Function	Value	Percent/Setting
15	16	Prism rotation	000 ⇔ 127	Prism index
			128 ⇔ 189	Clockwise prism rotation, fast to slow
			190 ⇔ 193	Stop
			194 ⇔ 255	Counterclockwise prism rotation, slow to fast
16	17	Iris	000 ⇔ 063	0–100%
			064 ⇔ 127	Auto change, slow to fast
			128 ⇔ 191	Slow open - fast close, slow to fast
			192 ⇔ 255	Slow close - fast open, slow to fast
17	18	Frost	000 ⇔ 007	No function
			008 ⇔ 255	Frost effect
–	19	Movement macro	000 ⇔ 007	No function
			008 ⇔ 015	Movement macro 1
			016 ⇔ 023	Movement macro 2
			024 ⇔ 031	Movement macro 3
			032 ⇔ 039	Movement macro 4
			040 ⇔ 047	Movement macro 5
			048 ⇔ 055	Movement macro 6
			056 ⇔ 063	Movement macro 7
			064 ⇔ 071	Movement macro 8
			072 ⇔ 079	Movement macro 9
			080 ⇔ 087	Movement macro 10
			088 ⇔ 095	Movement macro 11
			096 ⇔ 103	Movement macro 12
			104 ⇔ 111	Movement macro 13
			112 ⇔ 126	Movement macro 14
			120 ⇔ 127	Movement macro 15
			128 ⇔ 135	Movement macro 16
			136 ⇔ 143	Movement macro 17
			144 ⇔ 151	Movement macro 18
			152 ⇔ 159	Movement macro 19
			160 ⇔ 167	Movement macro 20
			168 ⇔ 177	Movement macro 21
			176 ⇔ 183	Movement macro 22
			184 ⇔ 191	Movement macro 23
			192 ⇔ 199	Movement macro 24
			200 ⇔ 207	Movement macro 25
			208 ⇔ 215	Movement macro 26
			216 ⇔ 223	Movement macro 27
			224 ⇔ 231	Movement macro 28
			232 ⇔ 239	Movement macro 29
			240 ⇔ 247	Movement macro 30
			248 ⇔ 255	Movement macro 31
–	20	Movement macro speed	000 ⇔ 255	Fast to slow

18CH	21Ch	Function	Value	Percent/Setting
18	21	Control	000 ⇔ 007	No function
			008 ⇔ 015	Pan/tilt blackout
			016 ⇔ 023	Color blackout
			024 ⇔ 031	Gobo blackout
			032 ⇔ 039	Pan/tilt/color blackout
			040 ⇔ 047	Pan/tilt/gobo blackout
			048 ⇔ 055	Pan/tilt/color/gobo blackout
			056 ⇔ 059	PWM 600Hz
			060 ⇔ 063	PWM 1200Hz
			064 ⇔ 067	PWM 2000Hz
			068 ⇔ 071	PWM 4000Hz
			072 ⇔ 075	PWM 6000Hz
			076 ⇔ 079	PWM 1500Hz
			080 ⇔ 095	No function
			096 ⇔ 103	Pan reset
			104 ⇔ 111	Tilt reset
			112 ⇔ 126	Color reset
			120 ⇔ 127	Gobo reset
			128 ⇔ 135	Gobo rotation reset
			136 ⇔ 143	Prism reset
			144 ⇔ 151	Focus reset
			152 ⇔ 159	All reset
			160 ⇔ 167	Iris reset
			168 ⇔ 175	Frost reset
			176 ⇔ 191	No function
			192 ⇔ 199	Fan ECO
			200 ⇔ 207	Fan full
			208 ⇔ 215	Fan auto
			216 ⇔ 255	No function

Operation

Test Mode

Auto Test

To have the Rogue R2E Spot automatically test all functions one after the other:

1. Go to the **Run Mode** main level.
2. Select the **Auto Test** option.



The Auto Test will end after one full cycle. Press <MENU> at any time to stop.

Manual Test

To manually test an individual function of the Rogue R2E Spot:

1. Go to the **Run Mode** main level.
2. Select the **Manual Test** option.
3. Select a function to test, from **Pan, Pan Fine, Tilt, Tilt Fine, P/T Speed, Dimmer, Dimmer Fine, Shutter, Virtual Shaking, Color1, Color2, Gobo, Gobo Rot, Gobo2, Focus, Prism, R-Prism, Iris, Frost, P/T Macro, P/T Ma. Speed, or Special Function.**
4. Increase or decrease the value of the selected function from **000–255** to test it.



When exiting the Manual Test level, the values of all tested channels will go back to zero.

Setup Configuration

This programming level control's the head movement, lamp adjustments, and maintenance timer of the Rogue R2E Spot.

Pan Reverse

To set the orientation of the pan:

1. Go to the **Setup** main level.
2. Select the **Pan Reverse** option.
3. Select from **NO** (normal pan motion) or **YES** (reversed pan motion).

Tilt Reverse

To set the orientation of the tilt:

1. Go to the **Setup** main level.
2. Select the **Tilt Reverse** option.
3. Select from **NO** (normal tilt motion) or **YES** (reversed tilt motion).

Screen Reverse

To invert the control panel screen:

1. Go to the **Setup** main level.
2. Select the **Screen Rev** option.
3. Select from **NO** (right-side up) or **YES** (upside-down).

Pan Angle

To set the maximum angle of the pan:

1. Go to the **Setup** main level.
2. Select the **Pan Angle** option.
3. Select from **540** (540°), **360** (360°), or **180** (180°).

Tilt Angle

To set the maximum angle of the tilt:

1. Go to the **Setup** main level.
2. Select the **Tilt Angle** option.
3. Select from **250** (250°), **180** (180°), or **90** (90°).

Pan and Tilt Movement Blackout

To engage the shutter to block all light output whenever the product's head is in motion:

1. Go to the **Setup** main level.
2. Select the **BL.O. P/T Move** option.
3. Select from **NO** (deactivates blackout on pan/tilt) or **YES** (activates blackout on pan/tilt).

Color Movement Blackout

To engage the shutter to block all light output whenever the product's color wheel is in motion:

1. Go to the **Setup** main level.
2. Select the **BL.O. P/T Color Move** option.
3. Select from **NO** (deactivates color movement blackout) or **YES** (activates color movement blackout).

Gobo Movement Blackout

To engage the shutter to block all light output whenever the product's gobo wheel is in motion:

1. Go to the **Setup** main level.
2. Select the **BL.O. P/T Gobo Move** option.
3. Select from **NO** (deactivates gobo movement blackout) or **YES** (activates gobo movement blackout).

LED Power

To enable the product to match the light intensity of the original Rogue R1 Spot:

1. Go to the **Setup** main level.
2. Select the **LED Power** option.
3. Choose the LED intensity from **0** to **100**.

Fan Mode

To set the fan speed mode:

1. Go to the **Settings** main level.
2. Select the **Fans** option.
3. Select the fan mode, from **Auto** (fan speed adjusts to product temperature), **Full** (fan speed at maximum), or **ECO** (quiet mode).

LED Frequency

To adjust the Pulse Width Modulation (PWM) frequency of the LED:

1. Go to the **Setup** main level.
2. Select the **PWM Option** option.
3. Select the frequency, from **600Hz**, **1200Hz**, **2000Hz**, **4000Hz**, **6000Hz**, or **15000Hz**.

Reset Function

To reset specific functions to the home position or to reset the entire product:

1. Go to the **Setup** main level.
2. Select the **Reset Function** option.
3. Select the functions to reset, from **Pan/Tilt**, **Prism**, **Color/Frost**, **Gobo/Gobo Rot/Gobo2**, **Focus/Iris**, or **All**.
4. Select **NO** (to cancel) or **YES** (to reset the selected functions).

Factory Reset

To reset the product to original factory settings:

1. Go to the **Setup** main level.
2. Select the **Factory Reset** option.
3. Select **NO** (to cancel) or **YES** (to reset the product configuration).

Operation

System Information

The information section of the menu displays statistics and the current status of the product's various functions. To view this information:

1. Go to the **Sys Info** main level.
2. Use **<UP>** and **<DOWN>** to view all information:
 - **Ver**: The current software version is displayed on the screen.
 - **Running Mode**: The current running mode is displayed on the screen.
 - **DMX Address**: The current DMX address is displayed on the screen.
 - **Temperature**: The current product temperature is displayed on the screen.
 - **UID**: The product UID number is displayed on the screen.

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. When selected, the moving parts do not show any border or reduce the light output when set to the home position. To adjust these options:

1. From the main level screen, press and hold **<MENU>** until the passcode screen appears.
2. Use **<UP>** (increase value) and **<DOWN>** (next value) to enter the passcode: **0920** and press **<ENTER>**.
3. Select the "zero" position to adjust, from **PAN**, **TILT**, **GOBO**, **GOBO ROT**, **GOBO2**, **COLOR1**, **COLOR2**, **PRISM**, **FOCUS**, **FOCUS-IRIS**, **IRIS**, **FROST**, **DIMMER**, **MAC4**, **MAC5**, or **MAC6**.
4. Adjust the "zero" position for the selected function from **000–255**.

Error Codes

See the table below for error codes and recommended solutions:

Error Code	Possible Reason	Potential Solution
AFAN1 J	A Fan 1 J is damaged	Replace A fan 1 J
	Fan wires have poor connection	Check fan wire connection
AFAN4 J	A Fan 4 J is damaged	Replace A fan 4 J
	Fan wires have poor connection	Check fan wire connection
AFAN5 J	A Fan 5 J is damaged	Replace A fan 5 J
	Fan wires have poor connection	Check fan wire connection
Base Fan1	Base Fan 1 is damaged	Replace base fan 1
	Fan wires have poor connection	Check fan wire connection
COLOR	Sensor board is damaged for color wheel 1	Replace color sensor board
	The magnetic rod of COLOR sensor board is dropped or installed upside down	Check the magnetic rod
COLOR2	Sensor board is damaged for color wheel 2	Replace color sensor board
	The magnetic rod of COLOR sensor board is dropped or installed upside down	Check the magnetic rod
CPU-A	The display PCB is damaged	Replace the display board
	CPU-A software upload failed	Re-upload the CPU-A software
CPU-B	The pan/tilt driver PCB is damaged	Replace the pan/tilt driver board
	CPU-B software upload failed	Re-upload the CPU-B software
CPU-C	The gobo/color motor driver PCB is damaged	Replace the gobo/color motor driver PCB
	CPU-C software upload failed	Re-upload the CPU-C software
CPU-D	The zoom/focus motor driver PCB is damaged	Replace the zoom/focus motor driver PCB
	CPU-D software upload failed	Re-upload the CPU-D software

Error Code	Possible Reason	Potential Solution
Focus	Sensor board is damaged	Replace the focus sensor board
	The magnetic rod of the focus sensor board is dropped or installed upside down	Check the magnetic rod
Gobo	Sensor board is damaged	Replace the gobo sensor board
	The magnetic rod of the gobo sensor board is dropped or installed upside down	Check the magnetic rod
Gobo.R	Sensor board is damaged	Replace the gobo rotation sensor board
	The magnetic rod of the gobo rotation sensor board is dropped or installed upside down	Check the magnetic rod
Gobo2	Sensor board is damaged	Replace the gobo2 sensor board
	The magnetic rod of the gobo2 sensor board is dropped or installed upside down	Check the magnetic rod
LIGHT BLOCK	Sunshield error	Check to ensure that the sunshield has moved out of the light path
		Check motor
Prism	Prism sensor board is damaged	Replace the prism sensor board
	The magnetic rod of the prism 1 sensor board is dropped or installed upside down	Check the magnetic rod
Thermistor Hot	Overheated LED	Do a factory reset
		Update software
		Check connections
		Check fan functions
Thermistor Open	Thermistor open	Do a factory reset
		Update software
		Check connection
		Replace thermistor
Thermistor Short	Thermistor short	Do a factory reset
		Update software
		Check connection
		Replace thermistor
XFan1	X Fan 1 is damaged	Replace X fan 1
	Fan wires have poor connection	Check fan wire connection
XFan2	X Fan 2 is damaged	Replace X fan 2
	Fan wires have poor connection	Check fan wire connection
X_cm	Pan magnetic locating board is damaged	Replace the pan magnetic locating board
	Pan/tilt driver board is damaged	Replace the pan/tilt driver board
X_op	Pan optocoupler board is damaged	Replace the pan optocoupler board
	Pan/tilt driver board is damaged	Replace the pan/tilt driver board
Y_cm	Tilt magnetic locating board is damaged	Replace the tilt magnetic locating board
	Pan/tilt driver board is damaged	Replace the pan/tilt driver board
Y_op	Tilt optocoupler board is damaged	Replace the tilt optocoupler board
	Pan/tilt driver board is damaged	Replace the pan/tilt driver board

Error Code	Possible Reason	Potential Solution
Zoom	Sensor board is damaged	Replace the zoom sensor board
	The magnetic rod of the zoom sensor board is dropped or installed upside down	Check the magnetic rod

5. Maintenance

Product Maintenance

Dust build-up reduces light output performance and can cause overheating. This can lead to reduction of the light source's life and/or mechanical wear. To maintain optimum performance and minimize wear, clean all lighting products at least twice a month. However, be aware that usage and environmental conditions could be contributing factors to increase the cleaning frequency.

To clean the product, follow the instructions below:

1. Unplug the product from power.
2. Wait until the product is at room temperature.
3. Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external surface/vents.
4. Clean all transparent surfaces with a mild soap solution, ammonia-free glass cleaner, or isopropyl alcohol.
5. Apply the solution directly to a soft, lint free cotton cloth or a lens cleaning tissue.
6. Softly drag any dirt or grime to the outside of the transparent surface.
7. Gently polish the transparent surfaces until they are free of haze and lint.



Always dry the transparent surfaces carefully after cleaning them.



Do not spin the cooling fans with compressed air. Damage may result.

Gobo Maintenance

To ensure optimal operation, 1) inspect and 2) clean gobos every four months. More frequent maintenance may be necessary if usage is higher.

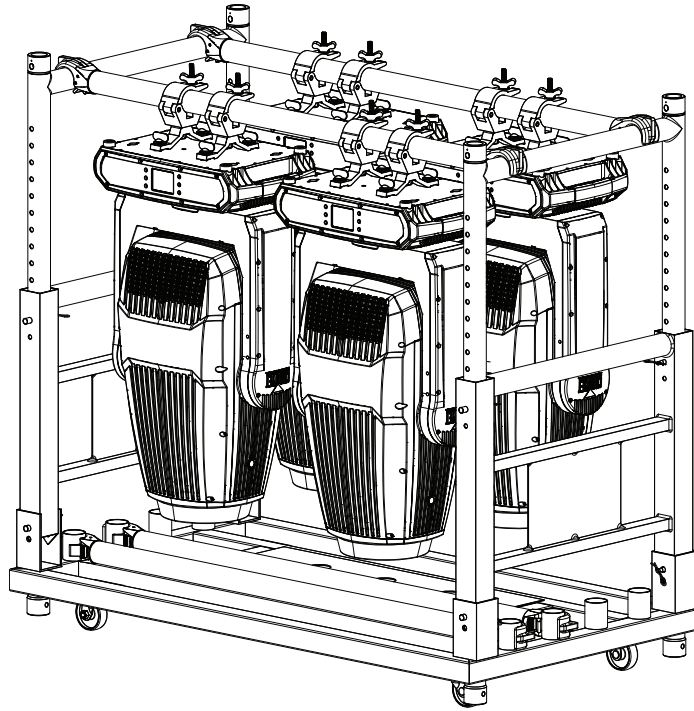
To inspect, remove each gobo holder and check if:

- the holders are clean (free of dirt, grime, or gunk).
- the gobos are properly installed in the holders.
- all the bearings are in place.
- the holders are rotating freely.

To clean the gobos and the gobo holder, follow the instructions below:

1. Remove the gobos from the holder.
2. Clean the gobos with a soft, lint-free cotton cloth. Use an ammonia-free glass cleaner sprayed to a piece of lint-free cotton cloth to clean glass gobos.
3. Submerge the gobo holder (without the gobo installed) in a container with a liquid lubricant (i.e., WD40) and let it rest for a couple of minutes.
4. Shake the container with the gobo holder inside to help release/loosen any gunk/grime/dirt.
5. Take the gobo holder out of the container and clean it using a small nylon brush.
6. Wipe off all the lubricant from the gobo holder using a piece of lint-free cotton cloth.
7. Apply a small coat of synthetic oil (i.e., Liquid Bearings) to the bearings and rotate it thoroughly in both directions (needle tip applicator recommended). Make sure the gobo holder is rotating freely and is not making any abnormal noise.
8. Reinstall the gobos in the gobo holder. Make sure the gobos are in the correct positions.
9. Reinstall the gobo holder in the unit

Transporting on Truss or Racks



When transporting fixtures in pre-rigged truss and transportation racks, mount fixtures in the vertical position with the lenses facing down and the pan and tilt locks engaged. This is to prevent undue stress on the tilt locks and limit the amount of off-axis bounce on internal components.

6. Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
14.01 in (356 mm)	9.44 in (240 mm)	20.47 in (520 mm)	31.2 lb (14.2 kg)

Note: Dimensions in inches are rounded.

Power

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

Parameter	100 V, 60 Hz	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz	240 V, 50 Hz
Consumption	484 W	481 W	472 W	469 W	467W
Operating current	4.92 A	4.05 A	2.32 A	2.13 A	2.03 A
Power-linking current (products)	12 A (2 products)	12 A (2 products)	12 A (5 products)	12 A (5 products)	12 A (5 products)
Fuse/Breaker	10 A, 250 V	10 A, 250 V	10 A, 250 V	10 A, 250 V	10 A, 250 V

Power I/O	U.S./Worldwide	UK/Europe
Power Input Connector	Seetronic PowerKon IP65	Seetronic PowerKon IP65
Power Output Connector	Seetronic PowerKon IP65	Seetronic PowerKon IP65
Power Cable Plug	Local plug	Local plug

Light Source

Type	Color	Quantity	Power	Current	Lifespan
LED	Cool white	1	350 W	5 A	50,000 hours

Photometrics

Beam Angle	Field Angle	Cutoff Angle	Illuminance @ 5 m	Color Temperature
15.9°	18.1°	20.3°	11,345 lux	7057K

Thermal

Maximum External Temperature	Cooling System
113 °F (45 °C)	Fan-assisted convection

DMX

I/O Connector	Channel Range
3-pin & 5-pin XLR	18 or 21

Ordering

Product Name	Item Name	Item Code	UPC Number
Rogue R2E Spot	ROGUER2ESPOT	08012215	781462225636



UL 1573
CSA C22.2 No. 166
E113093



RoHS



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Warranty & Returns

For warranty terms and conditions and return information, please visit our website.

For customers in the United States and Mexico: www.chauvetlighting.com/warranty-registration.

For customers in the United Kingdom, Republic of Ireland, Belgium, the Netherlands, Luxembourg, France, and Germany: www.chauvetlighting.eu/warranty-registration.