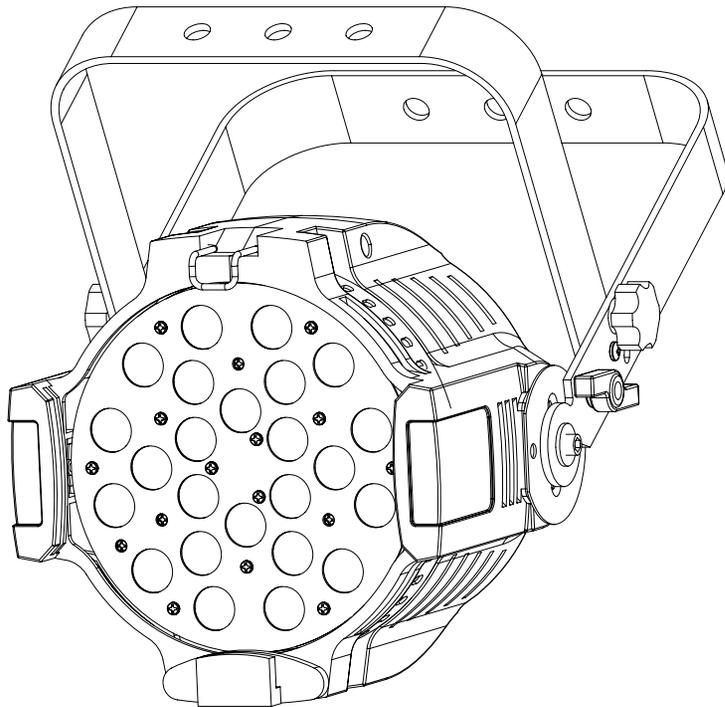




ELED PAR RGB ZOOM



User Instructions

©Elation Professional®
6122 S. Eastern Ave.
Los Angeles CA. 90040
www.elationlighting.com

ELED Par RGB Zoom

Introduction

Unpacking: Thank you for purchasing the ELED Par RGB Zoom by Elation Professional®. Every ELED Par RGB Zoom has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all accessories necessary to operate the unit has arrived intact. In the case damage has been found or parts are missing, please contact our customer support number for further instructions. Do not return this unit to your dealer without first contacting customer support.

Introduction: The ELED Par RGB Zoom is part of Elation Professional's® continuing pursuit for creating high quality affordable intelligent fixtures. The ELED Par RGB Zoom is a powerful, bright DMX intelligent LED wash. This unit can be used as a stand alone unit or in a master-slave configuration. The unit has nine operating modes to choose from, as well as a zoom adjustment feature. The zoom adjustment allows you to control the range or size of the wash output.

Customer Support: ©Elation® provides a customer support line, to provide set up help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at www.elationlighting.com for any comments or suggestions. Service Hours are Monday through Friday 9:00 a.m. to 5:00 p.m. Pacific Standard Time.

Voice: (323) 582-3322
Fax: (323) 832-9142
E-mail: support@elationlighting.com

Warning! To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

Caution! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact ©Elation customer support.

PLEASE recycle the shipping carton when ever possible.

ELED Par RGB Zoom

General Instructions

To optimize the performance of this product, please read these operating instructions carefully to familiarize yourself with the basic operations of this unit. These instructions contain important safety information regarding the use and maintenance of this unit. Please keep this manual with the unit, for future reference.

ELED Par RGB Zoom

Features

- Multi-Colors
- Adjustable Zoom
- Built in Microphone
- Nine Operating Modes
- DMX-512 protocol
- 4 DMX Channel Modes: 3 Channel Mode, 5 Channel Mode, 6 Channel Mode, & 7 Channel Mode
- Daisy Chain Units Together in DMX Mode

ELED Par RGB Zoom

Warranty Registration

The ELED Par RGB Zoom carries a two year limited warranty. Please fill out the enclosed warranty card to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper included in the shipping carton. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. You may obtain a R.A. number by contacting our customer support team on our customer support number. All packages returned to the service department not displaying a R.A. number on the outside of the package will be returned to the shipper.

ELED Par RGB Zoom

Safety Precautions

- To reduce the risk of electrical shock or fire, do not expose this unit rain or moisture
- Do not spill water or other liquids into or on to your unit.
- Be sure that the local power outlet match that of the required voltage for your unit.
- Do not attempt to operate this unit if the power cord has been frayed or broken. Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover under any conditions. There are no user serviceable parts inside.
- Never operate this unit when it's cover is removed.
- Never plug this unit in to a dimmer pack
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Do not attempt to operate this unit, if it becomes damaged.
- This unit is intended for indoor use only, use of this product outdoors voids all warranties.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point they exit from the unit.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See page 17 for cleaning details.
- Heat -The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The fixture should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the appliance.
 - C. The appliance has been exposed to rain or water.
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance.

Power Supply: The Elation ELED Par RGB Zoom contains an electronic ballast, which will auto sense the voltage when it is plugged into the power source. With the electronic ballast you do not need to worry about wall voltage, this unit can be plugged in anywhere. Also be sure to only use the included I.E.C. power cable supplied with the unit.

DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA “IN” and DATA “OUT” XLR terminals located on all DMX fixtures (most controllers only have a DATA “OUT” terminal).

DMX Linking: DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

Data Cable (DMX Cable) Requirements (For DMX Operation):

The ELED Par RGB Zoom can be controlled via DMX-512 protocol. The ELED Par RGB Zoom has 4 DMX channel modes. A 3 Channel Mode, 5 Channel Mode, 6 Channel Mode, & 7 Channel Mode. The DMX address is set electronically using the controls on the rear panel of the unit. Your unit and your DMX controller require a approved DMX-512 110 Ohm Data cable for data input and data output. We recommend Accu-Cable DMX cables. If you are making your own cables, be sure to use standard 110-120 Ohm shielded cable (This cable may be purchased at almost all professional sound and lighting stores). Your cables should be made with a male and female XLR connector on either end of the cable. Also remember that DMX cable must be daisy chained and cannot be split.

Special Note: Line Termination. When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will decrease the possibilities of erratic behavior.



Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

5-Pin XLR DMX Connectors. Some manufactures use 5-pin DMX-512 data cables for DATA transmission in place of 3-pin. 5-pin DMX fixtures may be implemented in a 3-pin DMX line. When inserting standard 5-pin data cables in to a 3-pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The chart below details a proper cable conversion.

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Do Not Use
Not Used		Do Not Use

Operating Modes: The ELED Par RGB Zoom has nine modes of operation with zoom control:

- Static Mode - Choose one of 32 colors to remain static.
- RGB Mode - Adjust the intensity of each RGB color.
- Three Color Change mode - In this mode the unit will scroll through RGB colors. The speed of the scroll is adjustable.
- Seven Color Change mode - In this mode the unit will scroll through the seven available colors. The speed of the scroll is adjustable.
- Three Color Fade mode - In this mode the unit will fade through RGB colors. The speed of the fade is adjustable.
- Seven Color Fade mode - In this mode the unit will fade through the seven available colors. The speed of the fade is adjustable.
- Auto Mode - In this mode the scroll mode and fade mode will both run. The amount of program cycles can be adjusted and set.
- Sound-Active mode - The unit will react to sound, chasing through the available colors.
- DMX control mode - This function will allow you to control each individual fixture's traits with a standard DMX 512 controller such as the Elation® Show Designer™.

Zoom Adjustment:

With this feature you can adjust the wash output. The output is adjustable between 10° - 60°.

1. Plug the fixture in and press the MODE button for at least 3 seconds, until "O.T.O.r." is displayed.
2. After "O.T.O.r." is displayed the unit will display "C.X.X.X.". Press the UP or DOWN buttons to adjust the wash output (zoom). The zoom can be adjusted between 000-190.
3. To exit this setting, press the MODE button for at least 3 seconds.

Master-Slave Operation:

This function will allow you to link units together to run in a Master-Slave mode. In Master-Slave operation one unit will act as the controlling unit and the others will react to the controlling unit's built-in programs. Any unit can act as a Master or as a Slave however, only one unit can be programmed to act as the "Master."

Master-Slave Connections and Settings:

1. Daisy chain your units via the XLR connector on the rear of the unit. Use standard XLR microphone cables to link your units together. Remember that the Male XLR connector is the input and the Female XLR connector is the output. The first unit in the chain (master) will use the female XLR connector only. The last unit in the chain will use the male XLR connector only.

1. Plug the fixture in and press the MODE button until "nector only."
2. Set the "Master" unit to your desired operating mode.
3. For the "Slave" unit(s), press the UP or DOWN buttons until "SLAv." is displayed.
4. Connect the "Slave" unit or units and they will automatically start to follow the "Master."

Auto Mode:

1. Plug the fixture in and press the MODE button until "AUTO" is displayed. The unit will now run its auto program.
2. Press the SET UP button and the display will show n.xxx. Press the UP or DOWN button to adjust the amount of program cycles.

Sound Active Mode:

1. Plug the fixture in and press the MODE button until "SU.XX" is displayed.
2. Use the UP or DOWN buttons to adjust the sound sensitivity. "00" being the least sensitive, "31" the most sensitive.
3. The fixture will now change via sound.

Static Mode:

1. Plug the fixture in and press the MODE button until "CL.XX" is displayed.
2. There are 32 colors to choose from. Select your desired color by pressing the UP and DOWN buttons.

RGB Mode:

1. Plug the fixture in and press the MODE button until "r.XXX" is displayed. You are now in RGB mode. Press the SET UP button to scroll through the RGB mode. "r.XXX" is red, "g.XXX" is green, and "b.XXX" is blue.
2. Adjust the intensity of each individual color by pressing the UP and DOWN buttons.

Three Color Change Mode: Note:

1. Plug the fixture in and press the MODE button until "JPXX" is displayed.
2. Use the UP or DOWN buttons to adjust the scroll speed.

Seven Color Change Mode: Note:

1. Plug the fixture in and press the MODE button until "JPXX" is displayed. Press the SET UP button, and "JP.XX" will be displayed. Notice the period between the letters and numbers, this lets you know you are in Seven Color Change Mode.
2. Use the UP or DOWN buttons to adjust the scroll speed.

Three Color Fade Mode: Note:

1. Plug the fixture in and press the MODE button until "FdXX" is displayed.
2. Use the UP or DOWN buttons to adjust the fade speed.

Seven Color Fade Mode: Note:

1. Plug the fixture in and press the MODE button until “FdXX” is displayed. Press the SET UP button, and “Fd.XX” will be displayed. Notice the period between the letters and numbers, this lets you know you are in Seven Color Fade Mode.
2. Use the UP or DOWN buttons to adjust the fade speed.

DMX Mode:

Operating through a DMX controller gives the user the freedom to create their own programs tailored to their own individual needs. The ELED Par RGB Zoom has 4 DMX channel modes. See pages 10-12 for the DMX channel modes traits and values.

1. This function will allow you to control each individual fixture’s traits with a standard DMX 512 controller such as the Elation® Show Designer™ or the Elation® DMX Operator™.
2. To run your fixture in DMX mode, plug in the fixture via the XLR connections to any standard DMX controller.
3. Press the MODE button until “dP.-X” is displayed. “X” represents the number that is displayed.
4. Press the UP or DOWN buttons to find your desired DMX Mode. The DMX Modes are as follows: “dP.-1” is 3 Channel Mode, “dP.-2” is 5 Channel Mode, “dP.-3” is 6 Channel Mode, & “dP.-4” is 7 Channel Mode.
5. Once you have found your desired DMX mode press the SET UP button. The DMX addressing will now be displayed, press the UP or DOWN buttons to adjust the DMX address.
6. When you have set your desired DMX address connect XLR cable to the DMX In jack. You are now ready to run in DMX mode.
7. Please see pages 10-12 for DMX values and traits

Channel	Value	Function
1	0	COLOR MACROS OFF
	1 - 7	BASTARD AMBER
	8 - 15	MEDIUM AMBER
	16 - 23	PALE AMBER GOLD
	24 - 31	GALLO GOLD
	32 - 39	GOLDEN AMBER
	40 - 47	LIGHT RED
	48 - 55	MEDIUM RED
	56 - 63	MEDIUM PINK
	64 - 71	BROADWAY PINK
	72 - 79	FOLLIES PINK
	80 - 87	LIGHT LAVENDER
	88 - 95	SPECIAL LAVENDER
	96 - 103	LAVENDER
	104 - 111	INDIGO
	112 - 119	HEMSLEY BLUE
	120 - 127	TIPTON BLUE
	128 - 135	LIGHT STEEL BLUE
	136 - 143	LIGHT SKY BLUE
	144 - 151	SKY BLUE
	152 - 159	BRILLIANT BLUE
	160 - 167	LIGHT GREEN BLUE
	168 - 175	BRIGHT BLUE
	176 - 183	PRIMARY BLUE
	184 - 191	CONGO BLUE
	192 - 199	PALE YELLOW GREEN
	200 - 207	MOSS GREEN
208 - 215	PRIMARY GREEN	
216 - 223	DOUBLE CTB	
224 - 231	FULL CTB	
232 - 239	HALF CTB	
240 - 247	DARK BLUE	
248 - 255	WHITE	
2	0 - 255	ZOOM
		10° - 60°
3	1 - 255	MASTER DIMMER 0% - 100%

ELED Par RGB Zoom		5 Channel - DMX Traits
Channel	Value	Function
1	1 - 255	RED 0% - 100%
2	1 - 255	GREEN 0% - 100%
3	1 - 255	BLUE 0% - 100%
4	0 - 255	ZOOM 10° - 60°
5	1 - 255	MASTER DIMMER 0% - 100%

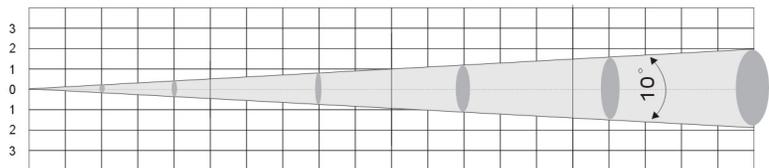
ELED Par RGB Zoom		6 Channel - DMX Traits
Channel	Value	Function
1	1 - 255	RED 0% - 100%
2	1 - 255	GREEN 0% - 100%
3	1 - 255	BLUE 0% - 100%
4	1 - 255	COLOR MACROS PLEASE SEE CHANNEL 1 MODE
5	0 - 255	ZOOM 10° - 60°
6	1 - 255	MASTER DIMMER 0% - 100%

ELED Par RGB Zoom		7 Channel - DMX Traits
Channel	Value	Function
1	1 - 255	RED 0% - 100%
2	1 - 255	GREEN 0% - 100%
3	1 - 255	BLUE 0% - 100%
4	1 - 255	COLOR MACROS PLEASE SEE CHANNEL 1 MODE
5	1 - 255	STROBING SLOW - FAST
6	0 - 255	ZOOM 10° - 60°
7	1 - 255	MASTER DIMMER 0% - 100%

ELED Par RGB Zoom 10° Degree Photometric Charts

Red

R 3950 — 2420 — 760 — 348 — 196 — 116 lux

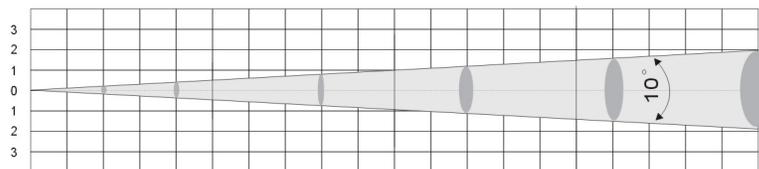


1.64'	3.28'	6.56'	9.84'	13.11'	16.39'	Distance(Feet)
0.5	1	2	3	4	5	Distance(Meters)
1.39'	2.79'	5.57'	8.36'	11.15'	13.93'	Diameter(Feet)
0.425	0.85	1.7	2.55	3.4	4.25	Diameter(Meters)

ELED Par RGB Zoom 10° Degree Photometric Charts

Blue

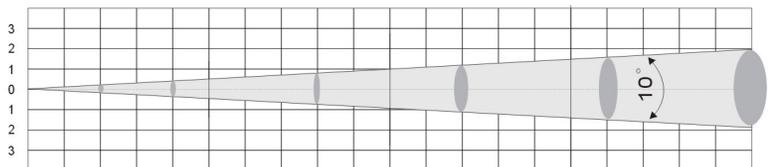
B 4890 — 2490 — 1650 — 797 — 451 — 298 lux



1.64'	3.28'	6.56'	9.84'	13.11'	16.39'	Distance(Feet)
0.5	1	2	3	4	5	Distance(Meters)
1.39'	2.79'	5.57'	8.36'	11.15'	13.93'	Diameter(Feet)
0.425	0.85	1.7	2.55	3.4	4.25	Diameter(Meters)

Green

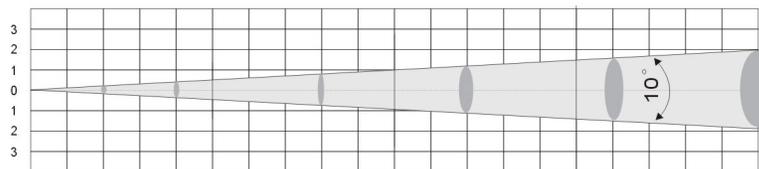
G 5780 — 3450 — 1270 — 564 — 357 — 210 lux



1.64'	3.28'	6.56'	9.84'	13.11'	16.39'	Distance(Feet)
0.5	1	2	3	4	5	Distance(Meters)
1.39'	2.79'	5.57'	8.36'	11.15'	13.93'	Diameter(Feet)
0.425	0.85	1.7	2.55	3.4	4.25	Diameter(Meters)

RGB Full On

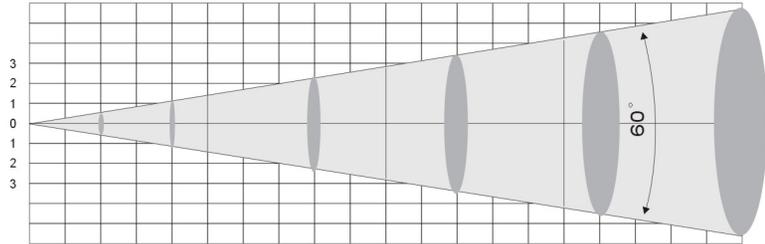
RGB 14300 — 7650 — 3390 — 1360 — 920 — 655 lux



1.64'	3.28'	6.56'	9.84'	13.11'	16.39'	Distance(Feet)
0.5	1	2	3	4	5	Distance(Meters)
1.39'	2.79'	5.57'	8.36'	11.15'	13.93'	Diameter(Feet)
0.425	0.85	1.7	2.55	3.4	4.25	Diameter(Meters)

Red

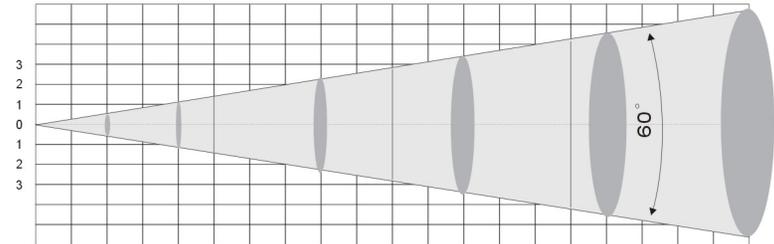
R 1290 — 272 — 64 — 26 — 14 — 9.5 lux



1.64'	3.28'	6.56'	9.84'	13.11'	16.39'	Distance(Feet)
0.5	1	2	3	4	5	Distance(Meters)
1.39'	2.79'	5.57'	8.36'	11.15'	13.93'	Diameter(Feet)
0.425	0.85	1.7	2.55	3.4	4.25	Diameter(Meters)

Blue

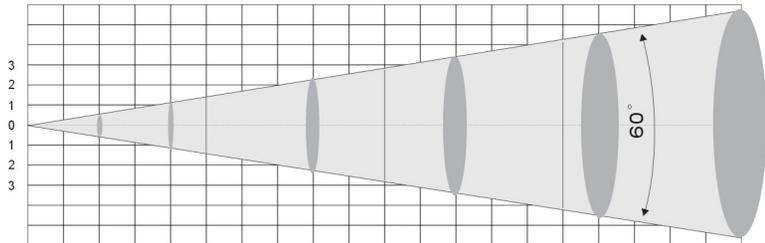
B 1750 — 382 — 110 — 45 — 27 — 16 lux



1.64'	3.28'	6.56'	9.84'	13.11'	16.39'	Distance(Feet)
0.5	1	2	3	4	5	Distance(Meters)
1.39'	2.79'	5.57'	8.36'	11.15'	13.93'	Diameter(Feet)
0.425	0.85	1.7	2.55	3.4	4.25	Diameter(Meters)

Green

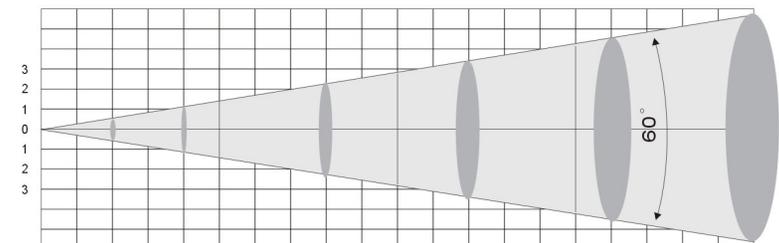
G 2040 — 431 — 114 — 47 — 26 — 17 lux



1.64'	3.28'	6.56'	9.84'	13.11'	16.39'	Distance(Feet)
0.5	1	2	3	4	5	Distance(Meters)
1.39'	2.79'	5.57'	8.36'	11.15'	13.93'	Diameter(Feet)
0.425	0.85	1.7	2.55	3.4	4.25	Diameter(Meters)

RGB Full On

RGB 5530 — 1220 — 301 — 119 — 65 — 45 lux



1.64'	3.28'	6.56'	9.84'	13.11'	16.39'	Distance(Feet)
0.5	1	2	3	4	5	Distance(Meters)
1.39'	2.79'	5.57'	8.36'	11.15'	13.93'	Diameter(Feet)
0.425	0.85	1.7	2.55	3.4	4.25	Diameter(Meters)

ELED Par RGB Zoom

Fuse Replacement

The fuse holder is located at the rear of the unit above the power cord. Disconnect from the main power supply. Insert a standard flat head screw driver in to the fuse holder housing, turn the screwdriver in counter-clockwise direction to remove the fuse holder. Remove the old fuse and discard it, replace the fuse with the same type. Insert the fuse back into it's housing.

ELED Par RGB Zoom

Cleaning

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew).

ELED Par RGB Zoom

Trouble Shooting

Listed below are a few common problems the user may encounter, with solutions.

Unit not responding to DMX:

1. Check that the DMX cables are connected properly and are wired correctly (pin 3 is "hot"; on some other DMX devices pin 2 may be 'hot'). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.

Unit does not respond to sound:

1. Quiet or high pitched sounds will not activate the unit.

ELED Par RGB Zoom

Warranty

2-YEAR LIMITED WARRANTY

A. Elation Professionals® hereby warrants, to the original purchaser, Elation Professionals® products to be free of manufacturing defects in material and workmanship for a period of two years (730 days) from the date of purchase. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the Elation Professionals® factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professionals® will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, Elation Professionals® shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.

C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which Elation Professionals® concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation Professionals® factory unless prior written authorization was issued to purchaser by Elation Professionals®; if the product is damaged because not properly maintained as set forth in the instruction manual.

D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up. During the period specified above, Elation Professionals® will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Elation Professionals® under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation Professionals®. All products covered by this warranty were manufactured after January 1, 1990, and bear identifying marks to that effect.

E. Elation Professionals® reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by Elation Professionals® in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Elation Professionals® be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

G. This warranty is the only written warranty applicable to Elation Professionals® Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

Model: ELED Par RGB ZoomSPECIFICATIONS:

Working Position:	Any safe working position
Voltage:	90V ~ 240V/50~60Hz
LED's:	24 x 3 Watt LED's (8 Red, 8 Green, and 8 Blue)
Power Consumption:	80W
Fuse:	2 Amp
Beam Angle:	10-60 Degrees
Weight:	12lbs./ 5.5Kgs.
Dimensions:	15" (L) x 10.15" (W) x 8.15" (H) 370 x 270 x 220mm
Colors:	RGB Color Mixing
DMX Channels:	4 DMX Channel Modes: 3 Channel Mode, 5 Channel Mode, 6 Channel Mode, & 7 Channel Mode.
Warranty:	2 Year (730 days)

Auto Sensing Voltage: *This fixture contains a electronic ballast, which will auto sense the voltage when it is plugged into the power source.*

Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.