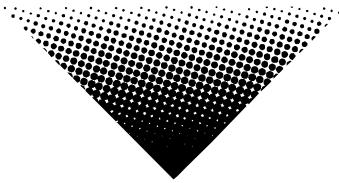


# LG-3355 Scorpion™ LGX

*USER MANUAL*



CHAUVET, 3000 N 29<sup>th</sup> Ct, Hollywood, FL 33020 U.S.A  
(800) 762-1084 – (954) 929-1115  
FAX (954) 929-5560  
[www.chauvetlighting.com](http://www.chauvetlighting.com)

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# BEFORE YOU BEGIN

## What is included

- 1 x Scorpion™ LGX
- 1 x LC-10 Wireless Remote Controller
- Linking cable
- Warranty Card
- User Manual

## Unpacking Instructions

Immediately upon receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

## AC Power

To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixture's specifications chart. A fixture's listed current rating is its average current draw under normal conditions. All fixtures must be powered directly off a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch. Before applying power to a fixture, check that the source voltage matches the fixture's requirement.

Check the fixture or device carefully to make sure that if a voltage selection switch exists that it is set to the correct line voltage you will use.

Figure 1 - AC Voltage Switch



Not all fixtures have a voltage select switch. Please be sure to connect to the proper voltage.

### Warning!

**Verify that the power select switch on your unit matches the line voltage applied. All fixtures must be connected to circuits with a suitable Earth Ground.**



**CAUTION:** Do not use Optical Instruments such as binoculars, telescopes, or extreme prescription glasses to view the laser. These instruments may intensify the laser power and cause serious injury to your eyes

## Safety Instructions



**Please read these instructions carefully, which includes important information about the installation, usage and maintenance?**

- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Always make sure that you are connecting to the proper voltage and that the line voltage you are connecting to is not higher than that stated on decal or rear panel of the fixture.
- This product is intended for indoor use only!
- To prevent risk of fire or shock, do not expose fixture to rain or moisture. Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Always disconnect from power source before servicing or replacing lamp or fuse and be sure to replace with same lamp source.
- Secure fixture to fastening device using a safety chain. Never carry the fixture solely by its head. Use its carrying handles.
- Maximum ambient temperature is Ta: 40°. Do not operate fixture at temperatures higher than this.
- In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- Don't connect the device to a dimmer pack.
- Make sure power cord is never crimped or damaged.
- Never disconnect power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to lamp while it is on.

**Caution!**

***There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact CHAUVET.***

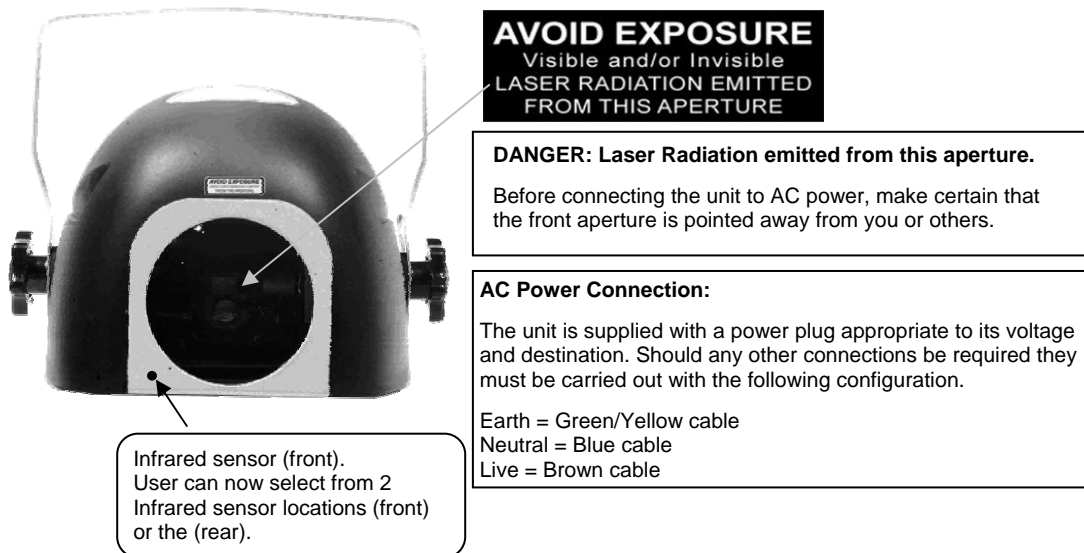
# INTRODUCTION

Your LG-3355 is very unique! You may notice that the beams coming out of the projector are larger than the 4.95mW projectors. There is a very distinct reason for this. Unlike 4.95mW projectors the output of the CHAUVET laser projectors with Fatbeam™ technology inside outputs <20mW for each beam. Normally outputs greater than 4.95mW require a variance from the FDA. This product has been designed to meet a special classification of ClassIIIa. Under this classification with the Fat Beam technology the acceptable energy levels (AEL) have been met. Therefore the maximum potential exposure to the unaided eye is less than 4.95mW for a static beam. Additionally the (MPE) or Maximum Permissible Exposure with this product is below acceptable levels for hum ocular or tissue exposure.

## Features

- 10mW Fatbeam™ Laser technology produces 10-14mm beam which complies with IEC Safety Standards under ClassIIIa
- 276 preset patterns, 9 of the most popular patterns triggered by the remote
- Operating modes; Auto, Sound Active & Master/Slave  
- Linking cable included
- Wireless remote included for Manual mode operation
- Scanning motors (micro stepping)
- Sound sensitivity control
- Rugged construction
- European design plastic case

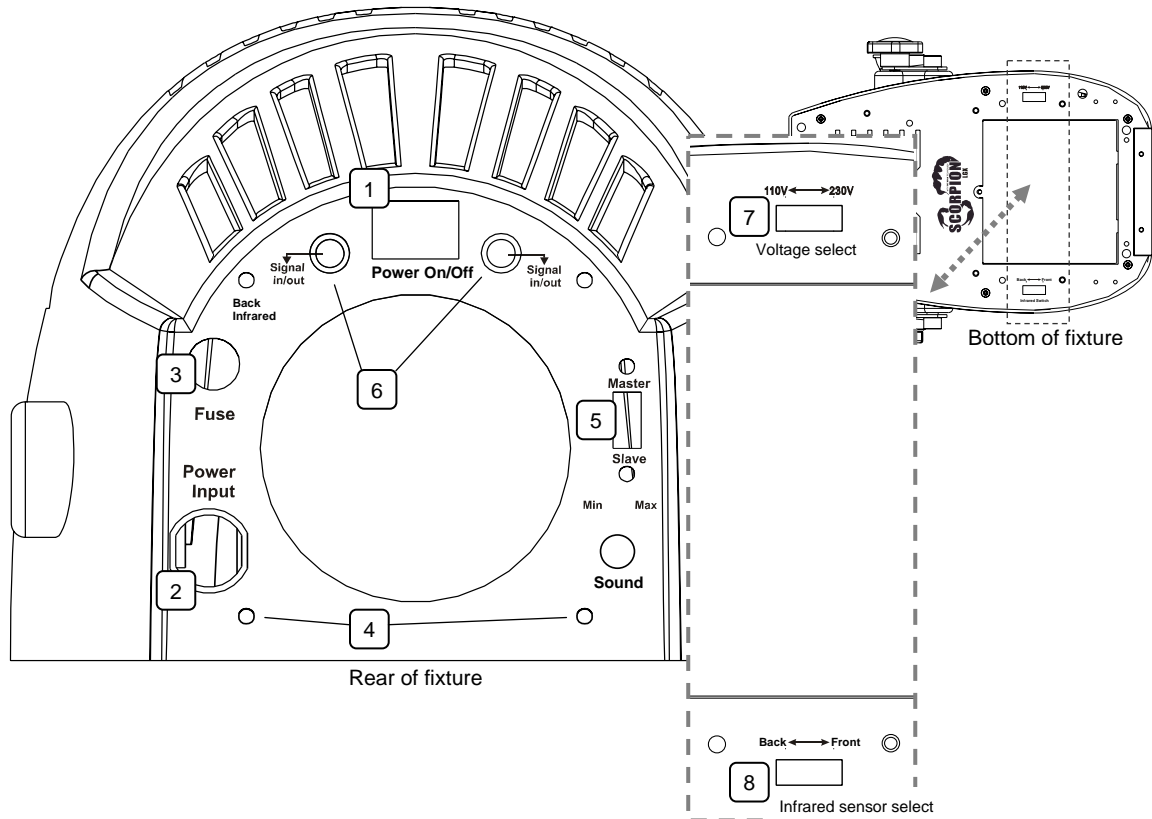
## Product Overview



## General Instructions

This fixture is designed to operate as a stand-alone unit or master/slave link. Linking the units in master/slave connection, the first unit will control the other units to give an automatic sound activated synchronized light show. This function is good when you want an instant show. Plug in the unit and turn the ON/OFF switch to ON position, the unit will work. It will turn off the laser diode automatically when the music stops after 7 seconds or no signal input.

## Rear Panel Control Details



- 1) On/Off switch: Turn on/off the unit.
- 2) Power cord: This connection supplies main power to the fixture. Be sure the main power matches the required power of your fixture.
- 3) Fuse holder: This housing stores the protective fuse. Always replace with the extra same type fuse. Replacement with anything other than the specified part may damage your unit.
- 4) Red LED: Power indicator, Blue LED: Sound indicator.
- 5) Master/Slave Mode: Select the master/slaver mode.
- 6) Signal input/output: uses a 3.5mm stereo microphone cable to link the unit together for master/slave link.
- 7) AC voltage selector switch
- 8) Infrared sensor (rear or front) selector switch

## Master/Slave Operation

**Note:** Maximum linking in Master/Slave mode is 8 fixtures.

- 1) Turn Off all projectors.
- 2) Connect up to 8 fixtures using a daisy chain method. From the signal output of the first projector to the signal input of the following projector and then repeat for the following projectors.
- 3) Set the Master/Slave switch on the first unit in the daisy chain to Master and turn this projector ON before all other projectors.  
**Important:** Turn Master unit On First otherwise link will not be consistent.
- 4) On all remaining units set the Master/Slave switch to Slave then turn those projectors on.

## Wireless Controller

This unit comes with a wireless remote controller.

- 1) Laser ON/OFF: Turn on/off the laser beam.
- 2) Sound active: 10 programs. Press **Sound** button, 10 patterns run to the sound. 9 of the 10 patterns are selectable by pressing corresponding button but will not remain active.
- 3) Auto: 10 programs. Press **Auto** button, 10 patterns run automatically. 9 of the 10 patterns are selectable by pressing corresponding button but will not remain active.
- 4) Pattern: Press **Pattern** button, Select any one of 9 patterns. Pattern will remain active until another number is pressed.



### List of available patterns to the Remote

1. Tunnel
2. Tunnel (slow)
3. Square tunnel
4. Liquid Sky
5. Liquid Sky (oscillating effect)
6. Wave
7. Star
8. Zig Zag
9. Zig Zag (fast)

VALUE	STATIC PATTERNS	VALUE	STATIC PATTERNS	VALUE	STATIC PATTERNS
1		2		3	
4		5		6	
7		8		9	

# COMPLIANCE STATEMENT

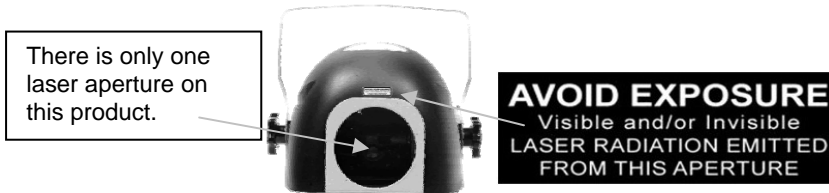
Your LG-3355 complies with FDA/CDRH 21CFR1040 and Laser Notice 50 as well as IEC 60825-1:2003. Due to a unique optic design, this product does not exceed output powers that exceed its classification and output levels government agencies have determined to be appropriate for the products function.

## Laser Safety and Compliance Information

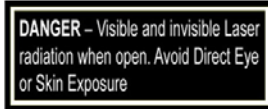
This product is manufactured to comply with the IEC 60825-1 and in accordance with U.S. Food and Drug Administrations (FDA) Standards listed under FDA Document 21 CFR 1040 and subsequent laser notices.

Product Classification and Manufacturing Label Identification

<b>Laser Classification</b>	Class IIIa
<b>Laser Medium</b>	DPSS YVO4 532nm
<b>Cooling</b>	Fan Cooled
<b>Output</b>	<20mW
<b>Beam Diameter at aperture</b>	10 – 14mm
<b>Beam Divergence</b>	Optically adjusted for compliance
<b>Radiant Exposure at Aperture</b>	<4.95mW (7mm Human Limiting Aperture)



**CAUTION:** AVOID EXPOSURE TO BEAM: Avoid direct eye contact with laser light. Never intentionally expose your eyes or others to direct laser radiation,



**Non-Interlocked Housing Warning Labels.** This unit contains an embedded laser device that exceeds the output of the intended class internally. Exposure to unsafe levels of laser radiation when opened.

**DANGER**

VISIBLE OR INVISIBLE LASER RADIATION  
AVOID EYE OR SKIN EXPOSURE  
TO DIRECT OR SCATTERED RADIATION

LASER OUTPUT: <5mW  
WAVELENGTH: 532nm DPSS YVO4  
CLASS IIIa LASER PRODUCT

CHAUVET Lighting  
 3000 N. 29th Court  
 Hollywood, FL 33020  
 1-954.929.1115

Complies with 21CFR 1040.10 and 1540.11 and Laser Notice 50

**Chauvet Lighting-Product Information**  
 MODEL   
 Date of Manufacturing   
 Serial Number



**Additionally there are no user serviceable parts inside.** Tampering or removing warranty seals will void your products limited warranty.

**CAUTION:**

The use of corrective eye wear or optics for viewing at distances such as telescopes or binoculars within a distance of 100mm may pose an eye hazard.

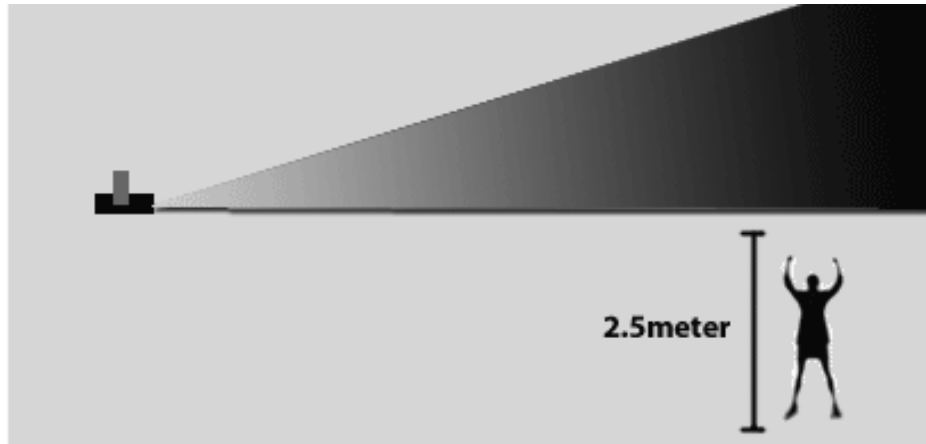


## Proper Usage

This unit has been designed to be hung. It is recommended that, for safety purposes, your lighting effect are properly mounted using a suitable hanging clamp and safety cable. **CHAUVET** offers a range of items, which are ideal for safe mounting.

It is the responsibility of the manufacturer to provide useful instruction on the proper use of this product.

According to FDA Regulations you should operate the product in the fashion illustrated below.



**CAUTION: Use of controls, adjustments, or performance of procedures other than what is specified herein may result in hazardous radiation exposure**

# APPENDIX

## General Maintenance

To maintain optimum performance and minimize wear fixtures should be cleaned frequently. Usage and environment are contributing factors in determining frequency. As a general rule, fixtures should be cleaned at least twice a month. Dust build up reduces light output performance and can cause overheating. This can lead to reduced lamp life and increased mechanical wear. Be sure to power off fixture before conducting maintenance.

Unplug fixture from power. Use a vacuum or air compressor and a soft brush to remove dust collected on external vents and internal components. Clean all glass when the fixture is cold with a mild solution of glass cleaner or Isopropyl Alcohol and a soft lint free cotton cloth or lens tissue. Apply solution to the cloth or tissue and drag dirt and grime to the outside of the lens. Gently polish optical surfaces until they are free of haze and lint.

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics. Clean with soft cloth using normal glass cleaning fluid. - Always dry the parts carefully. - Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.













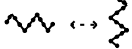








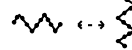





























## Returns Procedure

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Merchandise Authorization Number (RA #). Products returned without an RA # will be refused. Call CHAUVET and request RA # prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. CHAUVET reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

## Claims

Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise. It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Any other claim for items such as missing component/part, damage not related to shipping, and concealed damage, must be made within seven (7) days of receiving merchandise.












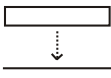


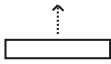





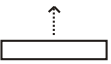





























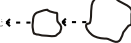
## Patterns Chart ( 1 ~ 51 )

VALUE	STATIC PATTERNS	VALUE	STATIC PATTERNS	VALUE	STATIC PATTERNS
1		18		35	
2		19		36	
3		20		37	
4		21		38	
5		22		39	
6		23		40	
7		24		41	
8		25		42	
9		26		43	
10		27		44	
11		28		45	
12		29		46	
13		30		47	
14		31		48	
15		32		49	
16		33		50	
17		34		51	

## Patterns Chart ( 52 ~ 103 )

VALUE	STATIC PATTERNS	VALUE	STATIC PATTERNS	VALUE	STATIC PATTERNS
52		69		86	
53		70		87	
54		71		89	
55		72		90	
56		73		91	
57		74		92	
58		75		93	
59		76		94	
60		77		95	
61		78		96	
62		79		97	
63		80		98	
64		81		99	
65		82		100	
66		83		101	
67		84		102	
68		85		103	

## Patterns Chart ( 104 ~ 154 )

VALUE	STATIC PATTERNS	VALLE	STATIC PATTERNS	VALUE	STATIC PATTERNS
104		121		138	
105		122		139	
106		123		140	
107		124		141	
108		125		142	
109		126		143	
110		127		144	
111		128		145	
112		129		146	
113		130		147	
114		131		148	
115		132		149	
116		133		150	
117		134		151	
118		135		152	
119		136		153	
120		137		154	


















## Patterns Chart ( 155 ~ 206 )

VALUE	STATIC PATTERNS	VALUE	STATIC PATTERNS	VALUE	STATIC PATTERNS
155		173		190	
156		174		191	
157		175		192	
158		176		193	
159		177		194	
160		178		195	
161		179		196	
162		180		197	
163		181		198	
164		182		199	
165		183		200	
167		184		201	
168		185		202	
169		186		203	
170		187		204	
171		188		205	
172		189		206	

## Patterns Chart ( 207 ~ 258 )


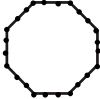







VALUE	STATIC PATTERNS	VALUE	STATIC PATTERNS	VALUE	STATIC PATTERNS
207		224		242	
208		225		243	
209		226		244	
210		227		245	
211		228		246	
212		229		247	
213		230		248	
214		231		249	
215		232		250	
216		234		251	
217		235		252	
218		236		253	
219		237		254	
220		238		255	
221		239		256	
222		240		257	
223		241		258	

## Patterns Chart ( 259 ~ 277 )

VALUE	STATIC PATTERNS	VALUE	STATIC PATTERNS	VALUE	STATIC PATTERNS
259		277			
260					
261					
262					
263					
264					
265					
267					
268					
269					
270					
271					
272					
273					
274					
275					
276					



## Patterns for Remote Controller

VALUE	STATIC PATTERNS	VALUE	STATIC PATTERNS	VALUE	STATIC PATTERNS
1		2		3	
4		5		6	
7		8		9	

## Technical Specifications

### WEIGHT & DIMENSIONS

Length..... 270 mm (10.63 in)  
 Width ..... 220 mm (8.66 in)  
 Height ..... 170 mm (6.7 in)  
 Weight ..... 3 Kg (6.6 lbs)

### POWER

Switch-selectable power settings ..... 120V 60Hz AC or 230V 50Hz AC  
 Fuse..... 1A 125V

### LASER

Diode ..... 1 x 10mW green laser  
 Wavelength..... 532 nm  
 Part No ..... 10mW Green  
 Laser Type..... DPSS  
 Laser Output..... <20mW  
 Cooling ..... Fan Cooled  
 Optic ..... Optically Stabilized

### ORDERING INFORMATION

Scorpion™ LGX..... LG-3355

## Technical Support

Address: Service Dept.  
 3000 N 29<sup>th</sup> Ct, Hollywood, FL 33020 (U.S.A.)  
 Support (Email): [tech@chauvetlighting.com](mailto:tech@chauvetlighting.com)  
 Telephone: (954) 929-1115 - (Press 4)  
 Fax: (954) 929-5560 - (Attention: Service)  
 Website: <http://www.chauvetlighting.com>

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