



## EL1000RGB

1000 mW RGB Mini Animation Laser

## USER MANUAL



**For your safety, please read this user manual carefully before use.**

Event Lighting reserves the right to revise the manual at any time. Information and specifications within this manual are subject to change without notice. Event Lighting assumes no liability or responsibility for any errors or omissions. Please consult Event Lighting for any clarification or information regarding this item.

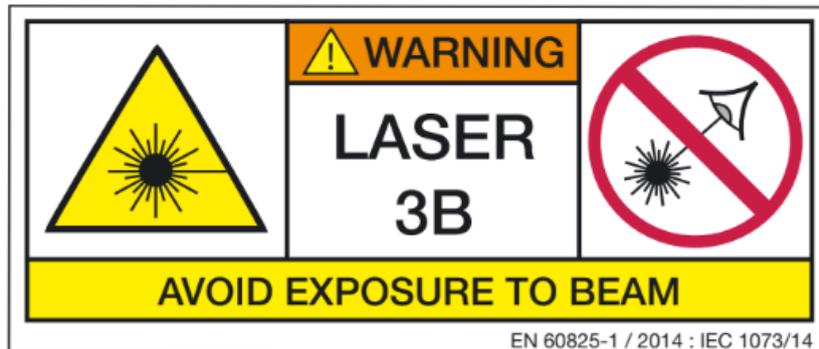
Version 1.0

# Safety Instructions

## Warning

- Do not open this fixture, there are no user serviceable parts inside. Risk of electric shock.
- Do not look directly at the light source.
- Avoid contact with the unit during operation, as the housing may become hot. Allow the fixture to cool for at least 15 minutes after turning off before touching.
- Install this fixture in a location with adequate ventilation, at least 50cm from adjacent surfaces.
- Do not operate this fixture, or connect this device to power, within 50cm of any flammable material.
- Use a safety chain when mounting this fixture overhead.
- Do not operate this fixture outdoors where excessive dust, heat, water or humidity may affect it.
- Do not operate this fixture if the housing, lenses, or cables appear damaged.
- Do not connect this fixture to a dimmer or rheostat.
- Do not operate this fixture at temperatures higher than 40°C (104°F).
- **Only** connect this fixture to a grounded and protected circuit.
- **Only** use the hanging bracket to carry this fixture.
- Stop using this fixture immediately if a serious operating problem becomes apparent.

## Laser Warning



Laser light can cause instant eye injury if the product is not set up and used correctly. Avoid direct eye contact with the laser light. Never intentionally expose your eyes or others to direct laser light. This laser product can potentially cause instant eye damage or blindness if laser light directly strikes the eyes. The heat from a laser cannot be felt, but it can still injure or cause blindness. This can occur even with very small amounts of exposure at a long distance.

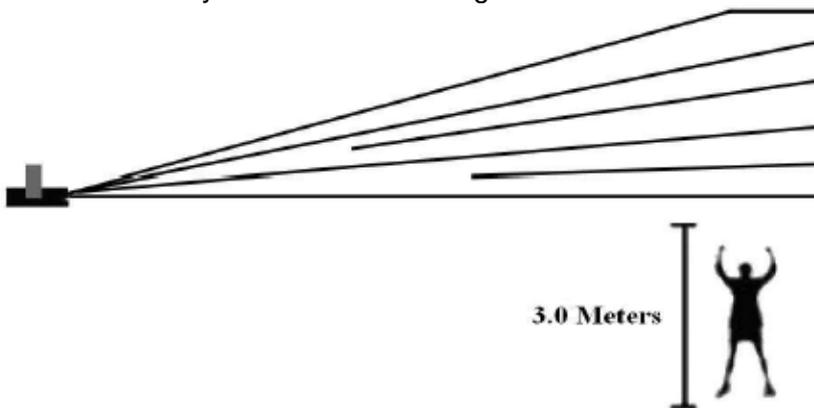
This product contains a Class 3B Laser. It is critical to prevent the possibility of ANY direct eye exposure.

- Do not operate the laser without reading and understanding the safety information contained in this manual.
- Test the product before public use to ensure the lasers are functioning correctly, and that eye exposure is impossible.
- Do not assume exposure to an individual laser beam is safe.
- Do not assume a moving laser light is safe. Eye injury can occur instantly.
- EL1000RGB must be installed at least 3 metres above ground level and 3 metres from any person. See the Product Installation section for details.

- Do not point the laser at any person or animal.
- Do not point the laser towards any area where people could be exposed to them.
- Do not point the laser towards any reflective surfaces, such as windows, mirrors and shiny metals. Laser reflections can also cause injury.
- Do not point the laser towards any area where you or the operator do not know where the beams are being directed.
- Do not point the laser into the sky or towards any aircraft.
- The legal requirements for operating laser products vary between jurisdictions. It is the user's responsibility to meet the legal requirements in the location/country of use.

## Product Installation

- EL1000RGB can be mounted in many orientations, provided each individual device is secured by the use of the correct mounting bracket.
- This device should be directed above the heads of people. Do not direct this device towards the line of sight of anyone. Refer to the diagram below.
- A minimum of 3 meters vertical separation is required between the floor and the laser device.
- A minimum of 3 metres horizontal separation is required between the laser light and any person or public space.
- Use a safety chain when mounting EL1000RGB overhead.



## Menu

Menu	Values	Function
Addr	1-512	Set DMX address
AUTO	0-9	Auto mode 0-9
SOUN	0-9	Sound active mode 0-9
VERSION	Ver1.1	Software version

## DMX Chart

Channel	Function	Min DMX	Max DMX	Description
1	Laser on/off	0	9	Laser off
		10	255	Laser on
2	Colour control	0	69	Static colours, white-red-blue-pink-cyan-yellow-green
		70	79	Colour change (speed controlled by Ch. 3)
		80	89	Default colour (speed controlled by Ch. 3)
		90	99	Rainbow colour (speed controlled by Ch. 3)
		100	224	Segment colour, 5 data stepping (speed controlled by Ch. 3)
		225	229	Dynamic colour 1 (speed controlled by Ch. 3)
		230	234	Dynamic colour 2 (speed controlled by Ch. 3)
		235	239	Dynamic colour 3 (speed controlled by Ch. 3)
		240	244	Dynamic colour 4 (speed controlled by Ch. 3)
		245	249	Dynamic colour 5 (speed controlled by Ch. 3)
3	Colour speed	0	9	No function
		10	127	Clockwise, slow to fast
		128	255	Anticlockwise, slow to fast
4	Pattern option	0	255	Pattern option
5	Patterns group optoin	0	50	Inner patterns group 1
		51	101	Inner patterns group 2
		102	152	Inner patterns group 3
		153	203	Inner patterns group 4
		204	255	Inner patterns group 5
6	Pattern size	0	255	Manual pattern size option
7	Pattern auto zoom	0	15	Manual zoom
		16	55	Zoom, small to large, speed slow to fast
		56	95	Zoom, large to small, speed slow to fast
		96	135	Cycle zoom large to small, speed slow to fast

		136	175	Cycle zoom 1, speed slow to fast
		176	215	Cycle zoom 2, speed slow to fast
		216	255	Cycle zoom 3, speed slow to fast
8	Centre rotation	0	127	Rotation angle
		128	191	Clockwise rotation speed
		192	255	Anticlockwise rotation speed
9	Horizontal rotation	0	127	Flip horizontal location
		128	255	Flip horizontal speed
10	Vertical rotation	0	127	Flip vertical location
		128	255	Flip vertical speed
11	Horizontal remove	0	127	Horizontal location
		128	255	Horizontal auto location, speed slow to fast
12	Verical remove	0	127	Vertical rotation
		128	255	Vertical auto location, speed slow to fast
13	Wave	0	9	No function
		10	255	Wave range and speed (range small to large, speed slow to fast)
14	Patterns drawing	0	1	No function
		2	63	Drawing by manual adjustment 1
		64	127	Drawing by manual adjustment 2
		128	153	Automatic drawing (increasing)
		154	179	Automatic drawing (decreasing)
		180	205	Automatic drawing (increasing to decreasing, reverse)
15	Inner dynamic effect	0	2	No function
		3	229	Single group dynamic effect, speed and colour controlled by Ch. 16
		230	249	Random auto effect, speed and colour controlled by Ch. 16
16	Inner dynamic effect speed	0	127	Inner effect speed, fast to slow, colour determined by inner program
		128	255	Inner effect speed, fast to slow, colour determined by DMX

## Technical Specifications

- Light source: 1000mW RGB laser
- Total power: 22W
- Control mode: Auto/Sound/DMX512/Master-slave/ILDA
- Channels : 16CH
- Scanning system: 15Kpps Scanner,  $\pm 30^\circ$
- 51 internal patterns for show
- Surface temp:  $T_b=45^\circ\text{C}$  ( when the environment temp is  $30^\circ\text{C}$ )
- Working temp:  $10^\circ\text{C}$ -- $65^\circ\text{C}$
- Modulation: TTL
- Input voltage: AC100-240V, 50/60Hz
- Fuse: BGDG  $\phi$  5x20mm 250VAC F2A
- Product size: 188\*193\*173mm
- Weight: 2.4Kg

## Warranty

Please refer to your local dealer or contact Event Lighting.