

EL5000RGBPRO

5W RGB Laser

USER MANUAL



For safety, please read this user manual carefully before initial 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.

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 4 Laser. Potential hazards:

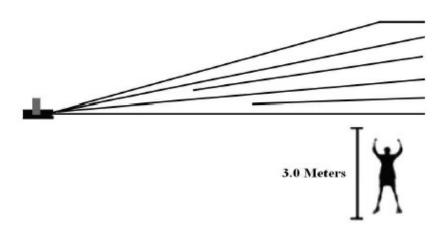
- Skin and eye hazards from exposure to direct and reflected beams.
- Eye hazard from diffuse reflections (light reflects at many angles).
- Potential fire hazard when in contact with combustible materials. Production of laser generated air contaminants is possible (for example, chemical fumes).

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.
- EL5000RGBPRO 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

- EL5000RGBPRO 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 metres 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 EL5000RGBPRO overhead.



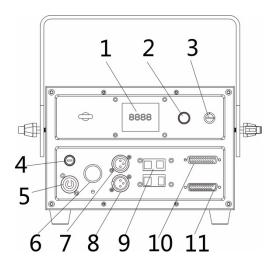
Menu

Level 1	Level 2	Default	Function
DMX ADDR	1-512	1	DMX address setting
	21CH		21CH
	32CH		32CH (Hold)
CHANNEL		-21CH	
	64CH	-	64CH(Hold)
	ILDA		ILDA mode, display shows in ILDA file circularly (file's expanded-name is ILD)
	AUTO		Auto
	SOUND		Sound
MODE	SLAVE	1	Slave
	BREAK	BREAK	Standby
	ILD X		ILD X, random play
	ILD 0ILD 255		ILD files single play
SPEED	0-100	100	Auto speed from slow to fast
SENSE	0-100	90	Sound sensitivity adjust
SIZE	10-100	100	Set pattern size
	X+ Y+		X+ Y+
PHASE XY	X- Y+	X+ Y+	X- Y+
	X+ Y-		X+ Y-
	X- Y-		X- Y-
SCANER	20K-40K	30K	Scanner speed
DIM R	0-100	100	Red dimmer
DIM G	0-100	100	Green dimmer
DIM B	0-100	100	Blue dimmer
LANGUAGE	CH/EN	EN	Language option

Menu Operation

Rotate the knob on the right side of the display to scroll through the menu and press the knob to enter a sub-menu or exit a menu. After an operation, double press the knob to save the option and exit the menu.

- 1. Display
- 2. Knob
- 3. Safety Key
- 4. Fuse
- 5. Power in
- 6. Power switch
- 7. DMX out
- 8. DMX in
- 9. ILDA-RJ45/DMX-RJ45
- 10. 25-pin ILDA out
- 11. 25-pin ILDA in



Channel	Function	Min DMX	Max DMX	Description
1	Dimmer	0	255	Dimmer, 0-100%
2	Colour	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	94	Rainbow colour (speed controlled by Ch. 3)
		95	114	2-segment colour option, 5 data stepping (speed controlled by Ch. 3)
		115	139	3-segment colour option, 5 data stepping (speed controlled by Ch. 3)
		140	164	4-segment colour option, 5 data stepping (speed controlled by Ch. 3)
		165	189	8-segment colour option, 5 data stepping (speed controlled by Ch. 3)
		190	224	16-segment colour option, 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)

DMX Chart

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	245	249	Dynamic colour 5 (speed controlled by Ch. 3)
	250	255	Dynamic colour 6 (speed controlled by Ch. 3)
Colour	0	9	No function
speed	10	127	Clockwise, slow to fast
	128	255	Anticlockwise, slow to fast
Light dot colour	0	255	White-red-blue-pink-cyan-yellow-green
Strobe	0	2	No function
	3	255	Strobe, slow to fast
Pattern	0	255	Pattern options (controlled by Ch. 7)
Pattern	0	24	Built in group 1
group	25	49	Built in group 2
option	50	74	Built in group 3
	75	99	Built in group 4
	100	124	Built in group 5
	125	149	ILDA animation group 1
	150	174	ILDA animation group 2
	175	199	ILDA animation group 3
	200	224	ILDA animation group 4
	225	255	ILDA animation group 5
Pattern	0	63	Size options
zoon	64	127	Speed option, small to large
	128	191	Speed option, large to small
	192	255	Zoom speed
Centre	0	127	Angle option
rotation	128	191	Clockwise speed option
	192	255	Anticlockwise speed option
Horizontal	0	127	Flip horizontal direction option
rotation	128	255	Flip horizontal speed option
Vertical	0	127	Flip vertical direction option
rotation	128	255	Flip vertical speed option
Pan	0	255	
Tilt	0	255	
Horizontal	0	9	No function
wave	10	255	Wave range and speed (range small to large, speed slow to fast)
Vertical	0	9	No function
wave	10	255	Wave range and speed (range small to large, speed slow to fast)
Gradual	0	1	No function
Oraduar	U		
	speedLight dot colourStrobePattern group optionPattern 	Colour speed250Colour speed010128Light dot colour0Strobe0Pattern group option0Pattern group option25507510012550751001251001251001251001251001251001251001251001251001251001251001251001281021021011281021281021281011281021281011281011010110Vertical wave01010Vertical wave01010	Colour speed250255Colour speed0910127128255Light dot colour0255Strobe02Pattern group option02425495074759910012412514950747599100124125149150174175199200224225255Pattern coon6364127128191192255Pattern rotation0128191192255Pattern rotation0128255Pattern rotation0128255Pan0128255Pan0128255Pan010255Vertical wave010255Vertical wave091010255102551091025510255101025510102551025510255102551025510255102551025510255

		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)
		206	255	Automatic drawing (increasing to decreasing)
17	Location	0	15	No function
	tracking	16	47	Tracking 1, range and speed controlled by Ch. 18
		48	79	Tracking 2, range and speed controlled by Ch. 18
		80	111	Tracking 3, range and speed controlled by Ch. 18
		112	143	Tracking 4, range and speed controlled by Ch. 18
		144	175	Tracking 5, range and speed controlled by Ch. 18
		176	207	Tracking 6, range and speed controlled by Ch. 18
		208	239	Tracking 7, range and speed controlled by Ch. 18
		240	255	Tracking 8, range and speed controlled by Ch. 18
18	Tracking	0	63	Small tracking, slow to fast
	range and	64	127	Medium tracking, slow to fast
	speed	128	191	Large tracking, slow to fast
		192	255	Maximum tracking, slow to fast
19	Pattern	0	2	No function (original pattern)
	mirroring	3	63	X mirroring
		64	127	Y mirroring
		128	191	XY mirroring 1
		192	255	XY mirroring 2
20	Built in	0	1	No function
	dynamic	2	213	Built in dynamic option, speed and colour controlled by Ch 21
		214	255	Auto random, speed and colour controlled by Ch 21
21	Built in	0	127	Speed, fast to slow, built in fixed colour
	speed	128	255	Speed, fast to slow, colour controlled by console

32CH

		Value	Function
CH1	Pattern A dimmer	0-255	0-100%
		0-69	White-Red-Blue-Pink-Cyan-Yellow-Green(fixed color option)
		70-79	Color change (eotic speed controlled by CH3)
		80-89	Default color (eotic speed controlled by CH3)
		90-94	Rainbow color (eotic speed controlled by CH3)
		95-114	2 segement color option, 5 data stepping (eotic speed controlled by CH3)
		115-139	3 segement color option, 5 data stepping (eotic speed controlled by CH3)
CH2	Pattern A Color control	140-164	4 segement color option, 5 data stepping (eotic speed controlled by CH3)
		165-189	8 segement color option, 5 data stepping (eotic speed controlled by CH3)
		190-224	16 segement color option, 5 data stepping (eotic speed controlled by CH3)
		225-2 29	Color dynamic eotic 1(eotic speed controlled by CH3)
		230-234	Color dynamic eotic 2(eotic speed controlled by CH3)
		235-239	Color dynamic eotic 3(eotic speed controlled by CH3)
		3240-244	Color dynamic eotic 4(eotic speed controlled by CH3)
		245-249	Color dynamic eotic 5(eotic speed controlled by CH3)
		250-255	Color dynamic eotic 6(eotic speed controlled by CH3)
	Pattern A Color	0-9	Without eotic
CH3	eotic speed	10-127	Color clockwise eotic, speed from slow to fast
	•	128-255	Color anti-clockwise eotic, speed from slow to fast
CH4	Pattern A strobe	0-2	No strobe
		3-255	Strobe from slow to fast
CH5	Pattern A option	0-255	Pattern option (controlled by CH6)
	-	0-24	Built-in group 1
		25-49	Built-in group 2
CH6	Pattern A group	50-74	Built-in group 3
	option	75-99	Built-in group 4
		100 - 124	Built-in group 5
		125-255	Hold
		0-63	Pattern size option
		64-127	Speed option from small to larger

CH7	Pattern A zoom	128-191	Speed option from larger to small
	Į Į	192-255	Zoom speed option
	5	0-127	Angle option
CH8	Pattern A center rotation	128-191	Clockwise speed option
		192-255	Anti-Clockwise speed option
	Pattern A	0-127	Flip horizontal direction option
CH9	Horizontal rotation	128-255	Flip horizontal speed option
	Pattern A	0-127	Flip vertical direction option
CH10	Vertical rotation	128-255	Flip vertical speed option
CH11	A Pan move	0-255	vertical direction option
CH12	A Tilt move	0-255	vertical centre location
		0-9	No wave
CH13	A Horizontal		Wave range and speed adjust(range from small to big,
Ciric	wave	10-255	speed from slow to fast, every 32 data as one group, total 8
			group)
	A gradual drawing	0-1	no drawing
		2-63	gradual drawing by manual adjust 1
CH14		64-127	gradual drawing by manual adjust 2
CH 14		128-153	auto gradual drawing (increasing)
		154-179	auto gradual drawing (decreasing)
		180-205	Auto gradual drawing(increasing to decreasing, reverse)
		206-255	Auto gradual drawing(increasing to decreasing, syntropy)
	A Location tracking option	0-15	No tracking
		16-47	Tracking 1, range and speed controlled by CH18
		48-79	Tracking 2, range and speed controlled by CH18
CH15		80-111	Tracking 3, range and speed controlled by CH18
onno		112-143	Tracking 4, range and speed controlled by CH18
		144-175	Tracking 5, range and speed controlled by CH18
		176-207	Tracking 6, range and speed controlled by CH18
		208-239	Tracking 7, range and speed controlled by CH18
		240-255	Tracking 8, range and speed controlled by CH18
	A Tracking range - and speed	0-63	Small tracking, speed from slow to fast
CH16		64-127	Middle tracking, speed from slow to fast
		128-191	Big tracking, speed from slow to fast
		192-255	Max tracking, speed from slow to fast
CH17-CH32	Pattern B		Function same with Pattern A CH1CH16

64CH

			Function
CH1	Pattern A dimmer	0-255	0-100%
		0-69	White-Red-Blue-Pink-Cyan-Yellow-Green(fixed color option)
		70-79	Color change (eotic speed controlled by CH3)
CH2	Pattern A Color	80-89	Default color (eotic speed controlled by CH3)
CHZ	control	90-94	Rainbow color (eotic speed controlled by CH3)
		05.444	2 segement color option, 5 data stepping
		95-114	(eotic speed controlled by CH3)
		445 400	3 segement color option, 5 data stepping
		115-139	(eotic speed controlled by CH3)
			4 segement color option, 5 data stepping
		140-164	(eotic speed controlled by CH3)
			8 segement color option, 5 data stepping
		165-189	(eotic speed controlled by CH3)
			16 segement color option, 5 data stepping
		190-224	(eotic speed controlled by CH3)
		225-2	
		29	Color dynamic eotic 1(eotic speed controlled by CH3)
		230-234	Color dynamic eotic 2(eotic speed controlled by CH3)
		235-239	Color dynamic eotic 3(eotic speed controlled by CH3)
		3240-244	Color dynamic eotic 4(eotic speed controlled by CH3)
		245-249	Color dynamic eotic 5(eotic speed controlled by CH3)
		250-255	Color dynamic eotic 6(eotic speed controlled by CH3)
	Pattern A Color	0-9	Without eotic
CH3	eotic speed	10-127	Color clockwise eotic, speed from slow to fast
		128-255	Color anti-clockwise eotic, speed from slow to fast
CH4	Pattern A strobe	0-2	No strobe
CH4		3-255	Strobe from slow to fast
CH5	Pattern A option	0-255	Pattern option (controlled by CH6)
		0-24	Built-in group 1
	Pattern A group option	25-49	Built-in group 2
01.10		50-74	Built-in group 3
CH6		75-99	Built-in group 4
		100-1	
		24	Built-in group 5
		125-255	Hold
		0-63	Pattern size option
CH7	Pattern A zoom	64-127	Speed option from small to larger
	Falleni A 20011	128-191	Speed option from larger to small

]	192-255	Zoom speed option
		0-127	Angle option
CH8	Pattern A - center rotation	128-191	Clockwise speed option
		192-255	Anti-Clockwise speed option
	Pattern A	0-127	Flip horizontal direction option
CH9	Horizontal rotation	128-255	Flip horizontal speed option
	Pattern A	0-127	Flip vertical direction option
CH10	Vertical rotation	128-255	Flip vertical speed option
CH11	A Pan move	0-255	vertical direction option
CH12	A Tilt move	0-255	vertical centre location
		0-9	No wave
CH13	A Horizontal wave	10-255	Wave range and speed adjust(range from small to big, speed from slow to fast, every 32 data as one group, total 8 group)
CH14	A gradual	0-1	no drawing
01114	drawing	2-63	gradual drawing by manual adjust 1
		64-127	gradual drawing by manual adjust 2
	-	128-153	auto gradual drawing (increasing)
		154-179	auto gradual drawing (decreasing)
		180-205	Auto gradual drawing(increasing to decreasing, reverse)
		206-255	Auto gradual drawing(increasing to decreasing, syntropy)
	A Location tracking option	0-15	No tracking
		16-47	Tracking 1, range and speed controlled by CH18
		48-79	Tracking 2, range and speed controlled by CH18
CH15		80-111	Tracking 3, range and speed controlled by CH18
onno		112-143	Tracking 4, range and speed controlled by CH18
		144-175	Tracking 5, range and speed controlled by CH18
		176-207	Tracking 6, range and speed controlled by CH18
		208-239	Tracking 7, range and speed controlled by CH18
		240-255	Tracking 8, range and speed controlled by CH18
	A Tracking range - and speed _	0-63	Small tracking, speed from slow to fast
CH16		64-127	Middle tracking, speed from slow to fast
		128-191	Big tracking, speed from slow to fast
		192-255	Max tracking, speed from slow to fast
CH17-CH32	Pattern B		Function same with Pattern A CH1CH16
CH33-CH48	Pattern C		Function same with Pattern A CH1CH16
CH49-CH64	Pattern D		Function same with Pattern A CH1CH16

Technical Specifications

- Light source: 5W RGB
- Wavelength:
 - Red: 638nm
 - Green: 520nm
 - Blue: 450nm
- Pulse duration and repetition/refresh rate: 1-100Hz
- Maximum power output of each colour, and total for laser:
 - Red: 1500mW Green: 1000mW Blue: 2500mW Total power for laser: 5000mW
- Power consumption: 70W
- Control mode: Auto/Sound/DMX512/ILDA/RJ45
- Channels : 21CH /32CH /64CH
- Scanning system: 30Kpps Scanner, ±30°
- Surface temp: Tb=45°C (when the environment temp is 30°C)
- Working temp: 10°C--65°C
- Modulation: Analog
- Input voltage: AC100-240V, 50/60Hz
- Fuse: BGDP ¢ 5x20mm 250VAC F5A
- N.W: 8.5Kg
- G.W: 16.5Kg
- Outer packing size: 38.5*38.5*32cm

Warranty

Please refer to your local dealer or please contact Event Lighting Pty Ltd.