

EVENT LIGHTING ORBIT2 3-in-1 LED Effect Light with Derby RGBW User Manual

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EVENT LIGHTING ORBIT2 3-in-1 LED Effect Light with Derby RGBW



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.

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www.event-lighting.com.au

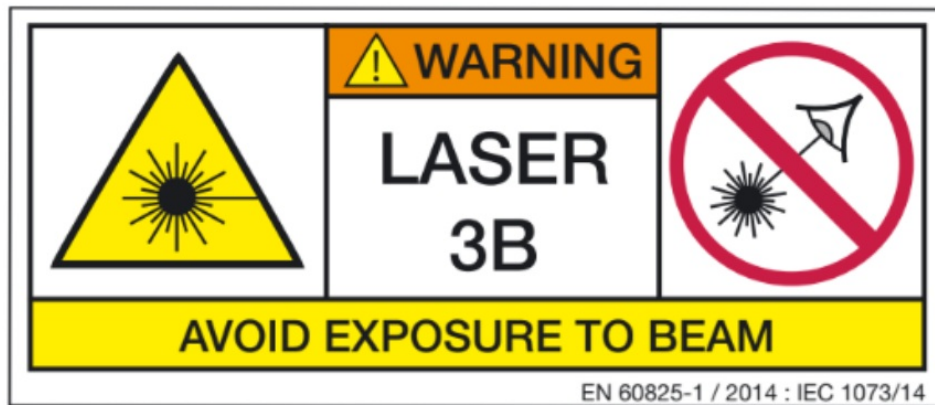
Safety Instructions

Warning

- Do not open this device, there are no user-serviceable parts inside. The laser power inside the housing can start fires or burn skin and will cause eye injury.
- Do not look at the light source when the device is on.
- This unit's housing may be hot during and after operation.
- Install this device in a location with adequate ventilation, at least 20 inch (50 cm) from adjacent surfaces.
- Do not leave any flammable material within 50 cm of this unit while operating or connected to power.
- Do not operate this device outdoors or in any location where dust, excessive heat, water, or humidity may affect it.
- Do not operate this device if the housing, lenses, or cables appear damaged.
- Do not connect this device to a dimmer or rheostat.
- ONLY connect this device to a grounded and protected circuit.

- ONLY use the hanging bracket to carry this device.
- In case of a serious operating problem, stop using immediately.
- The maximum ambient temperature is 104° F (40° C). Do not operate this device at higher temperatures.
- Do not leave the product running unattended. Use the key to lock the laser to avoid unauthorised use.
- Use aperture cover when the laser is not in use.

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 blind people. 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.
- 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.
- ORBIT2 must be installed at least 3 metres above ground level and at least 3 metres horizontally 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 it.
- Do not point the laser towards any reflective surfaces, such as windows, mirrors and metals. Laser reflections can also cause injury.
- Do not point the laser towards any area where you or the operator do not know where it is 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.

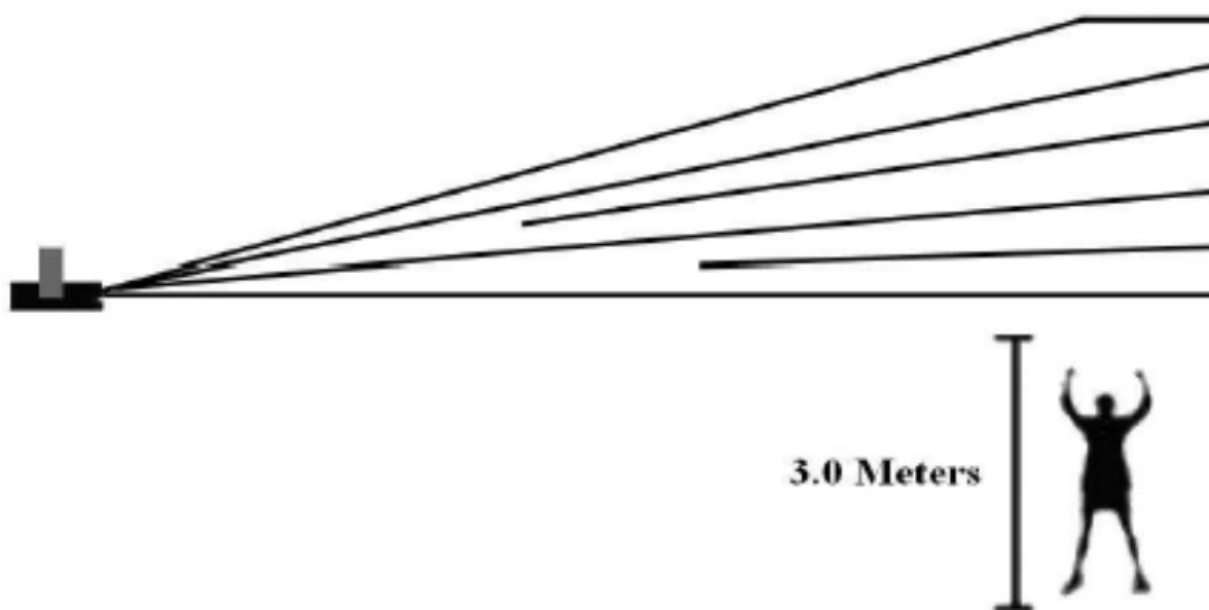
Additional laser warning stickers (pictured above) are included with this user manual. Please attach these to the power supply.

Power Input

This device has an auto-switching power supply work with input voltage range of 100~240 VAC, 50/60 Hz.

Product Installation

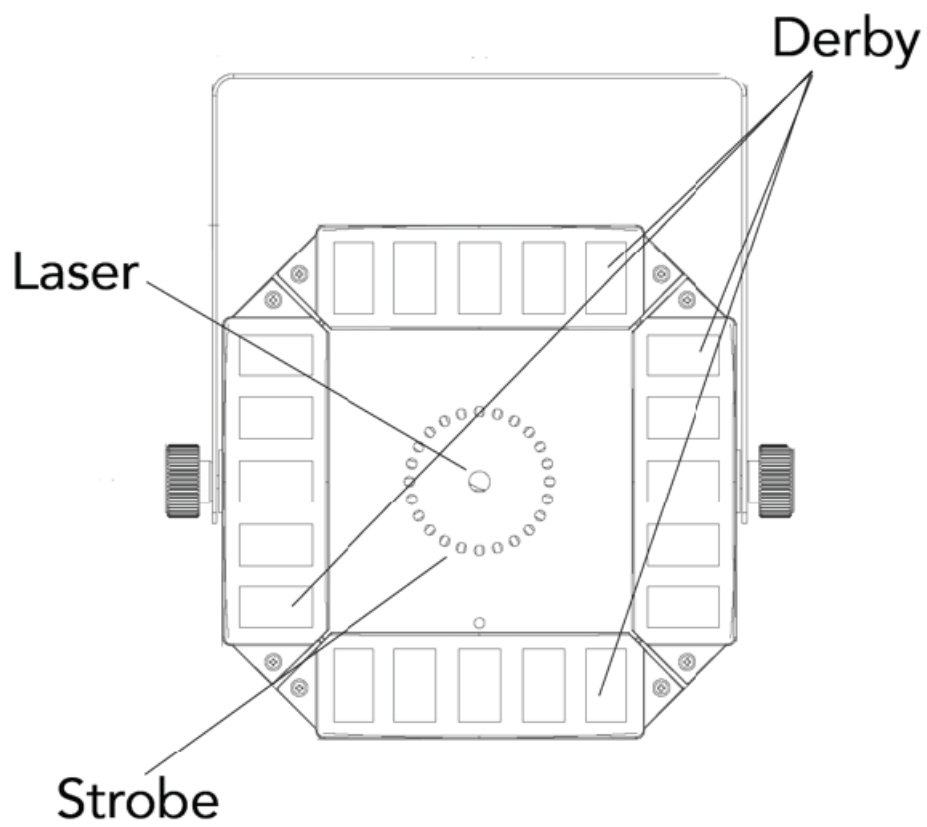
- This device can be mounted in many orientations provided each individual device is secured by the use of correct mounting bracket.
- This device should be directed above the heads of people. Do not direct this device towards the line of sight of anyone.
 - Refer to the diagram below.
- A minimum of 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 this device overhead.



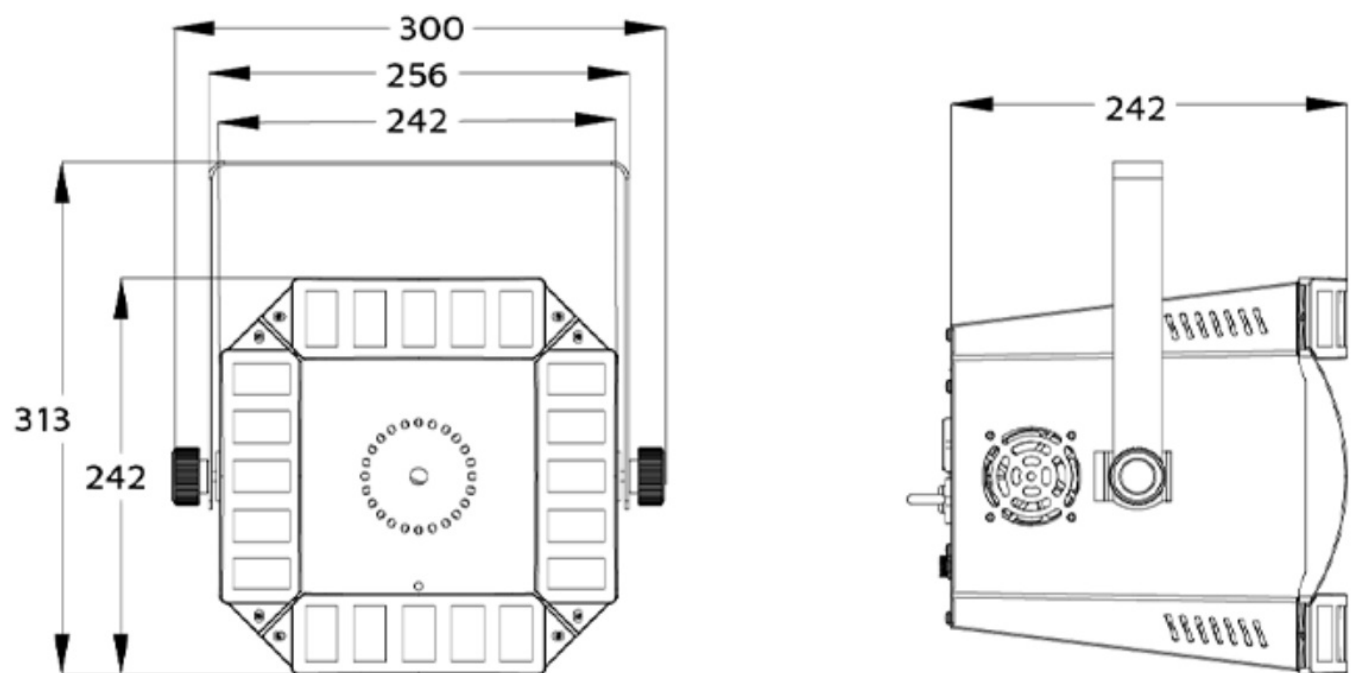
Laser Interlock

The use of the laser is controlled by an interlock and key located on the back of the unit. In order for the laser to operate, the interlock must be inserted, and the key switched to the unlocked position. If these conditions are not met, only the LEDs will be operational.

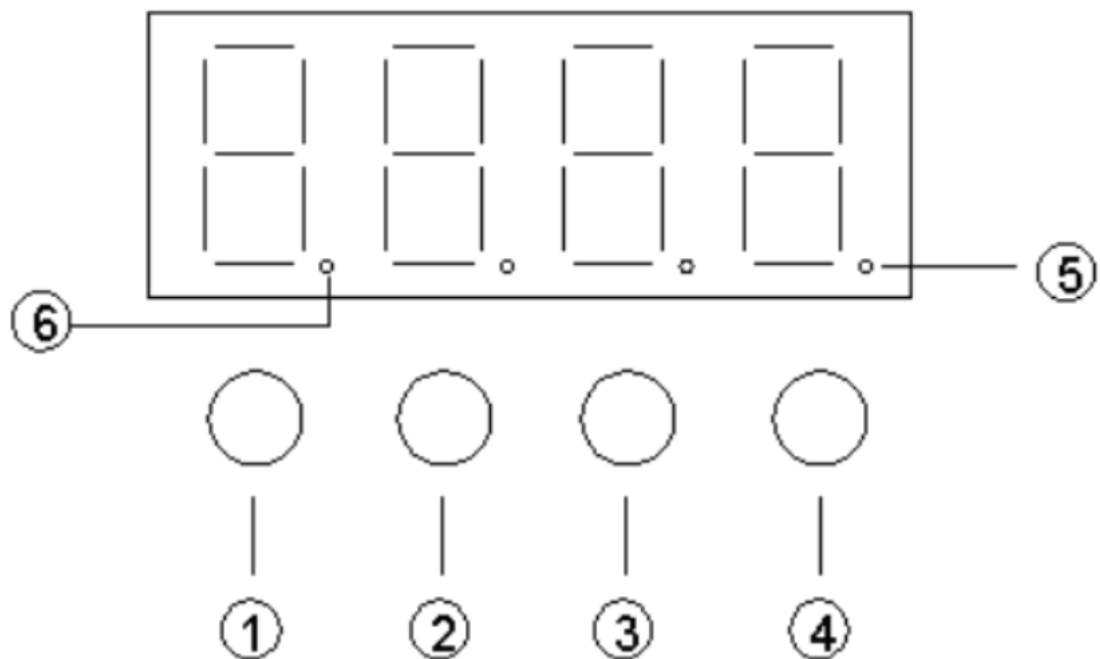
Overview



Dimensions



Menu Operation



1. Menu – Move up a level.
2. Up – Move selection up one item.
3. Down – Move selection down one item.
4. Enter – Select / Move down a level.
5. DMX Signal LED indicator. LED will flash when DMX connected.
6. Master/Slave mode indicator. LED will flash when in Slave mode.

Menu

Display	Function	Description
Addr	DMX Address	Change DMX Address (A001- A512).
ChNd	DMX Channels	Change DMX Channel Mode (2Ch / 11Ch).

SLNd	Master/Slave Mode	<p>Change between Master (NAsT) and Slave (SL1/SL2) mode.</p> <p>In Slave Mode 1 (SL1), slave fixtures will follow the Master fixture when in Sound Active Mode.</p> <p>In Slave Mode 2 (SL2), each slave fixture will use its own microphone and behave independently when in Sound Active Mode.</p> <p>When not in Sound Active Mode, SL1 and SL2 function identically.</p>
Soun	Sound Mode and Sound Sensitivity	Change between Sound Active Modes (So0-So8) and Sound Sensitivity (Se00- Se99)
Auto	Auto-run Mode	Change between Auto-run Modes (Aut0-Aut8) and Auto run Speed (SP1-SP9)
Led	Display backlight	Turn the display backlight on or off.
diSP	Display normal/inverted.	Switch between normal or inverted display mode.
Ver	Software Version	Display the current software version.

IR Remote

Button	Description
Black Out	Turn on/off
Auto	Autoplay
Sound	Sound Active mode
Strobe	Strobe mode
Fade/ Jump	No Function
Sensitivity	Adjust sound sensitivity
R/G/B/W/A/UV/W	No Function
+	Increase parameter (strobe speed, sound sensitivity, auto speed)
–	Decrease parameter (strobe speed, sound sensitivity, auto speed)
0-8	Switch between functions in Auto Mode and Sound Active Mode
9	No Function

DMX Chart

The device is controlled by universal DMX 512 protocol, DMX address is the start channel used to receive instructions from the external controller. For independent control, each fixture must be assigned its unique address control channels. For example, this device has three channel modes: 2/11, if we set the mode to standard 2 channels mode, and there are several models that need to be independently controlled, we just simply address first fixture at 1, and second fixture at 3, third one at 5, etc.

- If the devices have the same address, they will behave synchronically.
- Display is flashing when no DMX signal is received.

2 Channel Mode

Channel	Value	Function
1	5-20	Auto 0 (combined effect)
	21-35	Auto 1 (Derby effect 1)
	36-50	Auto 2 (Derby effect 2)
	51-65	Auto 3 (Laser + strobe)
	66-80	Auto 4 (Derby + strobe)
	81-95	Auto 5 (Laser + Derby 1)
	96-110	Auto 6 (Laser + Derby 2)
	111-125	Auto 7 (Laser effect)
	126-130	Auto 8 (Strobe effect)
	131-144	Sound 0 (Combined effect)
	145-159	Sound 1 (Derby effect 1)
	160-174	Sound 2 (Derby effect 2)
	175-189	Sound 3 (Laser + strobe)
	190-204	Sound 4 (Derby + strobe)
	205-219	Sound 5 (Laser + Derby 1)
	220-234	Sound 6 (Laser + Derby 2)
	235-249	Sound 7 (Laser effect)
	250-255	Sound 8 (Strobe effect)
2	0-255	Run speed and sound sensitivity adjust

11 Channel Mode

Channel	Value	Description	Function
	0-13		None
	14-27		Red

1	28-41	Derby 1	Green
	42-55		Blue
	56-69		White
	70-83		Red + Green
	84-97		Red + Blue
	98-111		Red + White
	112-125		Green + Blue
	126-139		Green + White
	140-153		Blue + White
	154-167		Red + Green + Blue
	168-181		Red + Green + White
	182-195		Red + Blue + White
	196-209		Green + Blue + White
	210-223		Red + Green + Blue + White
	224-237		Jump change with Derby effect 1
	238-255		Jump change with Derby effect 2

2	0-250	Derby 1 Strobe Effect	Speed from slow to fast
	251-255		Sound strobe
3	0-13	Derby 2	None
	14-27		Red
	28-41		Green
	42-55		Blue
	56-69		White
	70-83		Red + Green
	84-97		Red + Blue
	98-111		Red + White
	112-125		Green + Blue
	126-139		Green + White
	140-153		Blue + White
	154-167		Red + Green + Blue
	168-181		Red + Green + White

	182-195		Red + Blue + White
	196-209		Green + Blue + White
	210-223		Red + Green + Blue + White
	224-237		Jump change with Derby effect 1
	238-255		Jump change with Derby effect 2
4	0-250	Derby 2 Strobe Effect	Speed from slow to fast
	251-255		Sound strobe
5	0-7	Laser effect	None
	8-47		Red
	48-87		Green
	88-127		Red + Green
	128-167		Red + Green Strobe
	168-207		Green + Red strobe
	208-255		Alternate strobe

6	0-250	Laser Strobe effect	Speed from slow to fast

	251-255		Sound activated
7	0-7	Laser rotation	No rotation
	8-87		Backwards rotation, slow to fast
	88-167		Forwards rotation, fast to slow
	168-255		Random rotation
8	0-7	Strobe mode (centre, can add effects on top)	No function
	8-36		No Strobe
	37-66		Strobe effect 1
	67-96		Strobe effect 2
	97-126		Strobe effect 3
	127-156		Strobe effect 4
	157-186		Strobe effect 5
	187-216		Strobe effect 6
	217-246		Strobe effect 7

	246-255		Strobe effect 8
9	0-255	Strobe effect speed	Ch. 8 effect speed, slow to fast
10	0-7	Strobe effect	No Strobe
	8-240		Strobe speed, slow to fast
	241-255		Sound activated
11	0-9	Derby Rotation	None
	10-255		Motor rotation, slow to fast

Technical Specifications

Photometric

- Light Source:
 - Derby: 2pcs 12W 4-in-1 RGBW LEDs
 - Strobe: 24pcs 0.2w SMD White LEDs
 - Laser: 532nm/30mW (Green) laser diode, 650nm/100mW (red) laser diode
- Lifetime: 50,000 hours

Power

- Input Voltage: 100-240V AC, 50/60Hz
- Power consumption: 45W
- Connection: IEC in/out

Control

- Protocol: DMX512
- Operation Modes: DMX, auto, manual, sound active, IR remote, master/slave
- DMX Channels: 2 / 11
- Interface: 3-pin XLR in/out

- Display: 4-button 4-digit LED display control panel

Housing

- Materials: Metal
- Finishing: Matte black
- IP Rating: IP20
- Cooling: no fan
- Weight: 3.35kg
- Dimensions: 335x335x345 (package)

Warranty

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



Documents / Resources

The image shows the cover of the user manual for the Event Lighting ORBIT2 3-in-1 LED Effect Light with Derby RGBW. It features the Event Lighting logo, the product name, and a small image of the light fixture.	<p>EVENT LIGHTING ORBIT2 3-in-1 LED Effect Light with Derby RGBW [pdf] User Manual ORBIT2, 3-in-1 LED Effect Light with Derby RGBW, LED Effect Light with Derby RGBW, LED Effect Light, Derby RGBW Lighting Effect</p>
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References

- [Australia Entertainment Lighting Wholesaler | Event Lighting](#)