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DERBY2

2-in-1 Laser and Derby Effect.



User's instruction manual

This manual contains important information about the safe installation and use of this product

Please read this instruction manual carefully before installing or operating

Please keep these instructions in a safe place for future reference

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Introduction

Thank you for the purchase of your DERBY2 2-in-1 Laser and Derby effect by Light Emotion. We are confident you will be satisfied with your purchase and enjoy many years of use from this Professional Light Emotion product. Please read these instructions carefully to ensure the product is well look after and used correctly to avoid any potential problems.

Please note that as part of our ongoing commitment to continuous improvement and product development, the specifications in this manual are subject to change without notice. Whilst every care has been taken in the preparation of this manual we reserve the right to change specifications in the course of product improvement.

What is in the box:

- 1 x DERBY2 Lighting Effect
- 1 x Power Cable
- 1 x IR remote control
- 1 set laser key and remote plug
- This user manual

1. Safety Instructions:

Please read these instructions carefully. It includes important information about the installation usage and maintenance of this product.

- Please keep this User Manual 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 the sticker 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 surface. Be sure that no ventilation slots are blocked.
- Always disconnect from power source before servicing.
- Secure fixture to stands, trussing and the like using a safety chain.
- Maximum ambient temperature is 40°C. 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.
- Make sure power cord is never crimped or damaged.

- Never disconnect power cord by pulling or tugging on the cord.
- Never carry the fixture directly from the cord. Carry by holding the base of the unit, and only move when unit is upright.
- Avoid direct eye exposure to the light source while it is on.

2. Installation:

Caution: For safe mounting of this product, please read the following carefully.

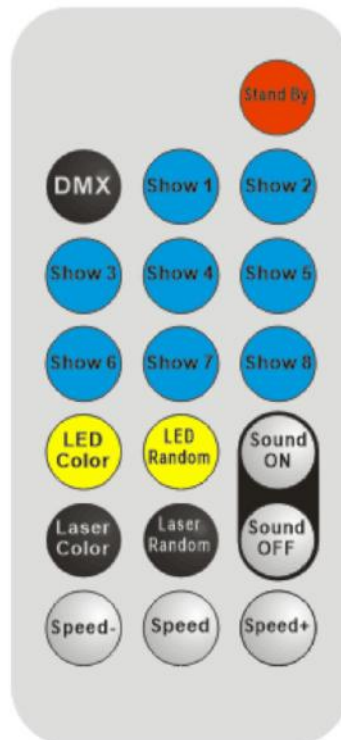
- Use a suitable clamp to attach to lighting stand, trussing or bar, together with safety chain.
- When mounting the product, do not stand directly underneath the product
- Always use a safety chain when mounting the product on stands, trussing or bars. Make sure the breaking strain rating of the chain is at least 10 times the weight of the product.
- Make sure there is adequate ventilation around the product.
- This product is designed to be mounted and used in the upright position. Using in any other orientation could cause damage to the internal motors for both the LED and laser. When transporting, it is also best to keep the product upright.
- Never look directly into the LED light sources of the product.
- For indoor use only – do not use outdoors.
- To avoid electrical shock, keep away from rain and moisture.
- Keep out of reach of children.

3. Features

This product is designed as an LED lighting effect and is only intended to be used as an LED lighting effect for entertainment and display applications. Due to our ongoing commitment to constantly reviewing and improving products, features and specifications are subject to change without prior notice.

- LEDs: 1 x 30w 4-in-1 RGBW LED with average 50000 hours lifespan
- Laser: 150mW red laser diode 650nm, 50mW green laser diode 532nm
- Lenses: 48
- Control: DMX, Sound Activation, Stand Alone, Master/Slave
- Key switch and interlock on rear panel
- DMX Channels: 13
- Audio sensitivity knob
- 3 pin XLR male and female DMX sockets
- Functions: Combined laser and derby effect, Individually controllable effects, Strobing.
- Built in programs using laser and derby together, laser alone and derby alone
- Weight: 1.7kg net, 2.0kg packed
- Packed Dimensions 310x250x180mm

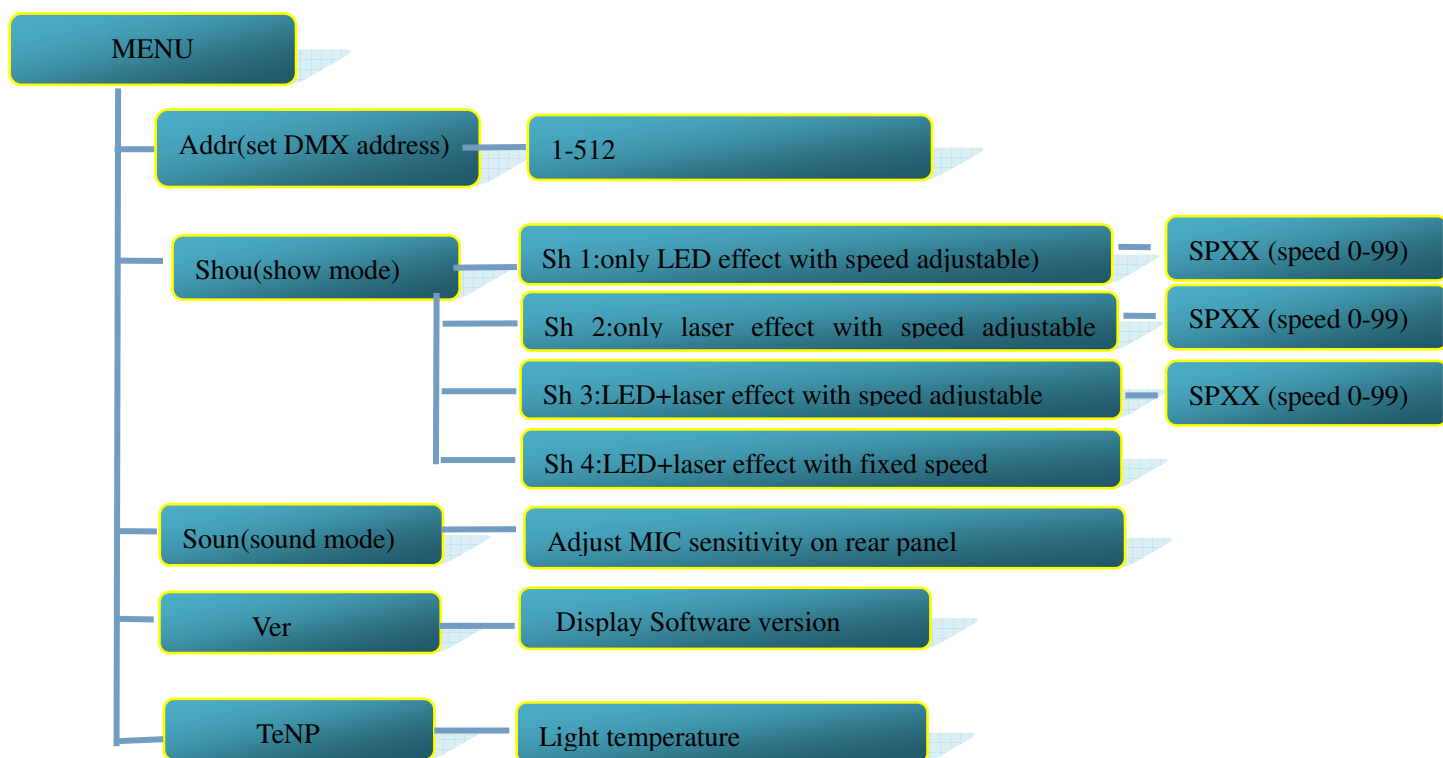
4. Remote Control Operation



Functions:

- 1) Stand By: Standby mode for whole light
- 2) DMX: Enter DMX mode
- 3) Show 1: LED show with adjustable speed
- 4) Show 2: Laser show with adjustable speed
- 5) Show 3: LED & Laser show with adjustable speed
- 6) Show 4: LED & Laser show with fixed speed
- Show 5- Show 8: no function
- 7) LED Color: choose LED colour
- 8) LED Random: LED random colour
- 9) Laser Color: Chose from red, green or both on.
- 10) Laser Random: Laser with random colour
- 11) Sound ON, Sound OFF: Turns on or off sound activation for shows 1-4. When sound is off, the shows run in auto mode.
- 12) Speed: Increase or decrease speed of shows.

5. Menu Operation



6. DMX Channel Allocation and functions table

CH	Function	DMX value	Details
CH1	Red dimming	0-255	Red dimming
CH2	Green dimming	0-255	Green dimming
CH3	Blue dimming	0-255	Blue dimming
CH4	White dimming	0-255	White dimming
CH5	LED strobe control	0-9	No strobe
		10-255	Strobe speed from slow to fast
CH6	Master dimming	0-255	Master dimming
CH7	Laser color control	0-9	OFF
		10-127	Red
		128-199	Green
		200-255	Red and green
CH8	Laser strobe control	0-9	No strobe
		10-255	Strobe speed from slow to fast
CH9	LED motor control	0-127	Beam position
		128-255	Motor speed from slow to fast

CH10	Laser motor control	0-127	Laser position
		128-255	Laser motor speed from slow to fast
CH11	Mode control	0-9	DMX mode
		10-100	Show 1, LED (speed controlled by CH12)
		101-150	Show 2, Laser (speed controlled CH12)
		151-200	Show 3, LED+Laser (speed controlled by CH12)
		201-255	Show 4, LED+Laser (at fixed speed)
CH12	Show speed	0-255	From slow to fast
CH13	Sound ON/OFF	0-127	Sound sensitivity OFF (for shows set by CH11)
		128-255	Sound sensitivity ON (for shows set by CH11)

DMX-512 Control Connection

Using a 3 pin XLR cable, you can connect the product to a DMX controller and then to other fixtures with 3 pin XLR inputs and outputs. When not using DMX, multiple fixtures can be connected together and operate under master/slave control. The signal cable should have two core with shielded cable, the signal connectors are XLR input and output connectors. Please refer to the below diagram:



7. DMX Address Setting

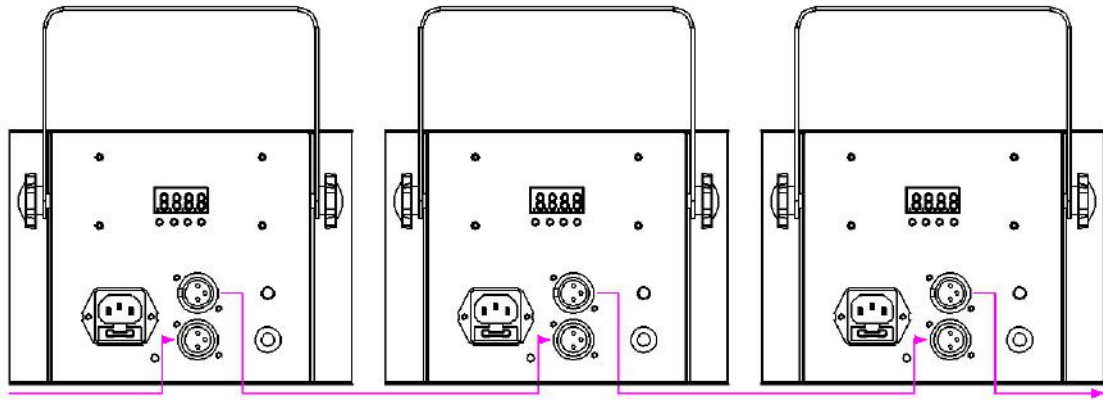
When being used in conjunction with a DMX controller, each fixture must be set a specific starting address. When receiving signal, fixture will receive channel control signals of this address from the DMX controller.

For simplicity, the user can use the same address for multiple fixtures but this will result in each fixture providing exactly the same output and fixtures with the same DMX address cannot be individually controlled.

To control each fixture individually via DMX, each fixture must have its own unique DMX address. As this fixture uses 13 DMX channels, each address must be at least 13 apart.

So for example – assuming the first fixture is DMX channel 1, the second fixture would need to be on channel 14, then the 3rd channel 27 and so on. Some DMX controllers may group

fixtures in lots of 16 channels – so in that case, fixture 1 on channel 1, fixture 2 on channel 17, 3 on 33, and so on. Refer to your DMX controllers’ instruction manual on how best to manage your DMX channel allocation.



DMX Input

First Address 001

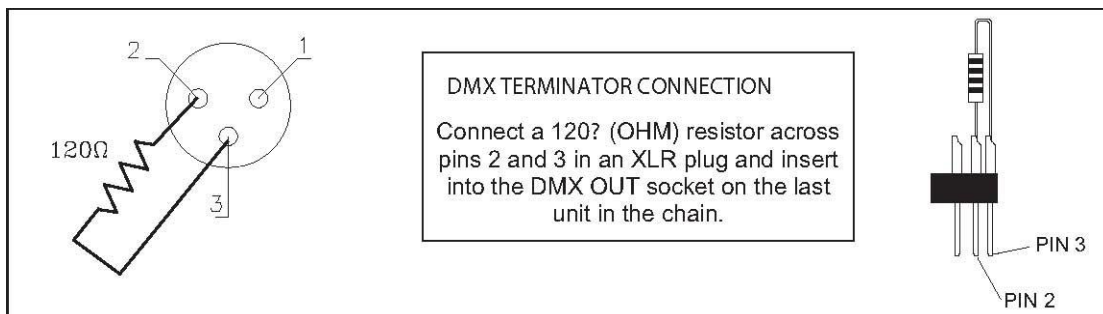
Second Address 014

DMX Output

Third Address 027

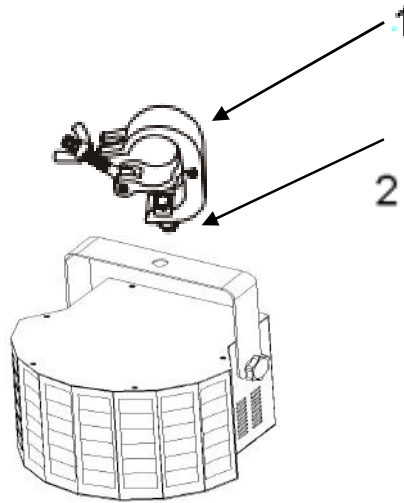
8. DMX-512 connection with DMX terminator

A DMX terminator helps to reduce ‘noise’ on the DMX chain, and makes the light respond to control more accurately. It should be plugged in to the last fixture in any chain. For Terminator connections please see below:



9. Rigging:

1. Clamp
2. DERBY2 Yoke/handle



Use a suitable clamp to attach to the hanging bracket / yoke of the product. The mounting bracket can then be attached to a stand, trussing or lighting bar securely. Be sure to use a safety chain which connects through the lug on the back of the unit. The safety chain should have a breaking strain more than ten times the weight of the product.

10. Cleaning and maintenance

From time to time it is recommended the product is cleaned to ensure maximum light output and performance. Use a wet cloth to clean the housing as well as the lenses and base. Glass cleaner is also suitable but alcohol based cleaners and solvents cannot be used as they will cause damage to the product.

When used in a fixed long term installation such as a venue or club, the unit should be periodically taken down from the installation and professionally cleaned. Dust build-up within the unit can cause damage and ultimately failure of components.

11. Technical Data

Input Voltage: AC100-240V 50/60Hz

LED: 1 x 30w 4-in-1 RGBW LED

Laser: 150mW red laser 650nm & 50mW green laser 532nm

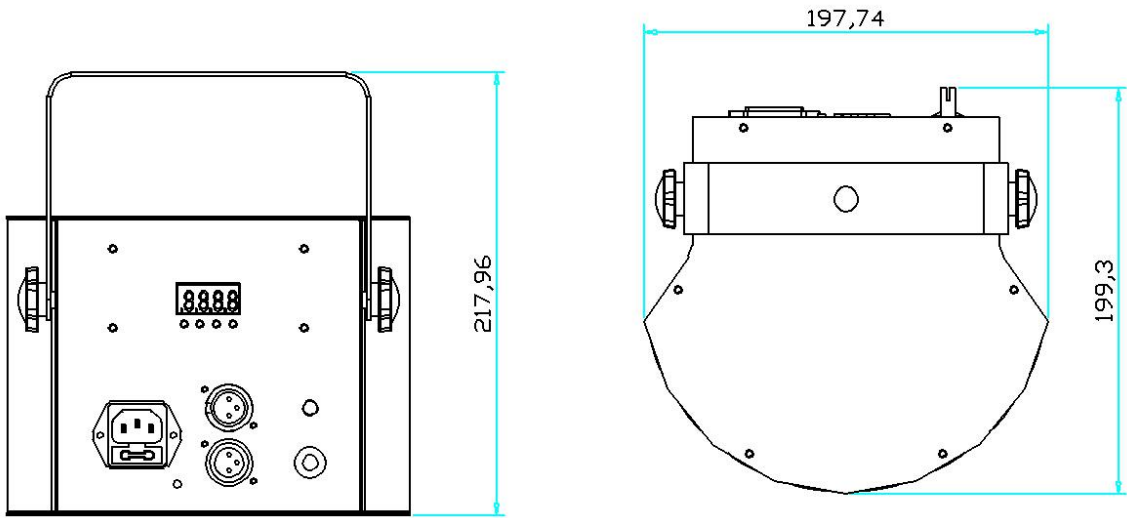
Power Consumption: 35w

Max ambient temp: 40°C

Max surface temp: 65°C

Net Weight: 1.70Kg

Packed Dimensions: 310x250x180mm



12. Warranty

This product is warranted for 2 years from your purchase date. We are confident that this product will give many years of trouble-free operation but should an unlikely problem arise, warranty claims must be via the original place of purchase, together with the original purchase receipt. Please keep both your original purchase receipt and this instruction manual together and in a safe place for future reference. Should the product be sold within the warranty period, be sure to pass on both to the new purchaser so they are able to claim warranty should they need to. We recommend you register your warranty online at www.industrygear.com.au.

Purchased from: _____

Contact Details: _____

Date Purchased: _____

Invoice/Receipt Number: _____

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