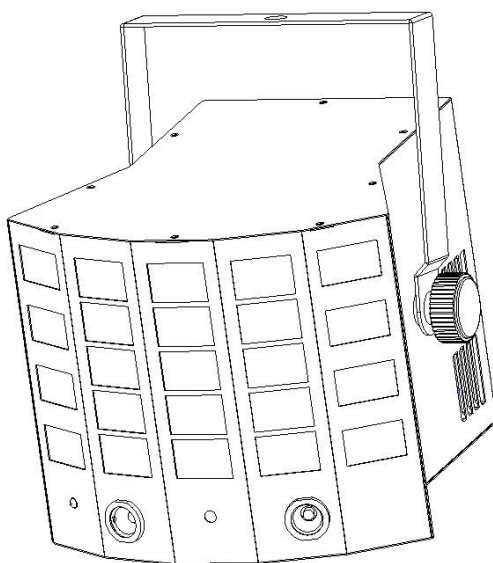




www.lightemotion.com.au

DERBY4

4-in-1 Entertainment Lighting 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

V1.01



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Introduction

Thank you for the purchase of your DERBY4 4-in-1 Lighting 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 DERBY4 fixture
- Power cable
- Laser safety switch key
- IR remote control
- 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 centre.
- 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 unit directly or via the hanging bracket.



- 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.
- Never look directly into the LED light or laser sources of the product.
- For indoor use only – do not use outdoors.
- To avoid electrical shock, keep away from rain and moisture.

3. Features

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

- Derby LED: 8 x 3W RGBY LED, 2 of each colour
- UV LED: 8 x 3W UV LED
- White LED: 2 x 3W cool white LED
- Laser: Red 80mW/650nm + green 30mW/532nm
- Control: Sound activated, auto, DMX, master/slave, IR remote control
- DMX channels: 2 / 10ch selectable profile
- Power input: 100-240VAC, 50/60Hz.
- Power consumption: 55W
- DMX connections: 3 pin male and female XLR
- Dimensions: 240 x 220 x 250mm
- Weight: 2kg

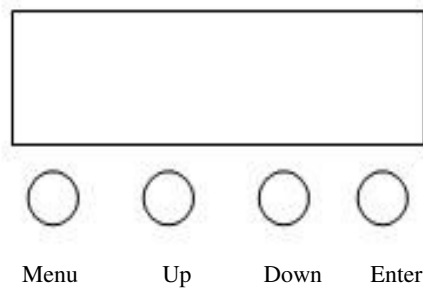
4. Operation

Because this light features a laser, there is the mandatory key operated laser safety switch on the rear of the unit. This is independent of the power on/off switch. The laser will not operate until the safety switch is placed into the on position using the included key. All other functions of the product will work regardless, when the power switch is on.

The four button LED menu control on the rear of the product allows you to access all features of the product including how it is to be controlled.



LED Four Digit Display:



Using the four button LED menu control, press the menu button repeatedly until you reach your desired mode. You can also scroll through the modes using the up and down buttons. Press enter to access being able to vary the settings for that mode or feature. Using the up and down buttons, adjust to the desired setting, then press enter again to save your setting.

The following table shows each of the modes and the settings able to be varied in each mode:

	MENU	UP/DOWN	DEFAULT VALUE	FUNCTION
1	Addr	1-512	1	Set DMX address
2	ChMd	10Ch	10Ch	10CH mode
		2Ch		2CH mode
3	ShNd	Sh 1	Sh 4	Show 1
		Sh 2		Show 2
		Sh 3		Show 3
		Sh 4		Show 4 (by random)
4	SPEE	0-100	90	Sh 1-Sh4 speed
5	SLMD	MASt	MASt	Master mode
		SLAV		Slave mode
6	SoUn	ON/OFF	ON	Sound ON/OFF
7	SoSE	1-100	90	Set Sensitivity
8	DNST	MASt	MASt	When no DMX, run master /slave mode
		BLNd		When no DMX, stand by
		LAST		When no DMX, keep the last scene
9	LED	ON/OFF	ON	LED display back light ON/OFF
10	Test			Test light function
11	DISP			LED display reverse
12	Fhrs			Total working time
13	Ver	V10		Software version
14	Rset			Light reset



Explanation of Menu items.

Addr – DMX address

ChMd – DMX profile 2 or 10 channel mode

ShNd – Built in show

SPPE – Speed setting for shows 1-4 if not sound activated

SLMD – Chose between master or slave mode

SoUn – Sound activation on or off

SoSe – Sets sound sensitivity

DNST – Sets what the light does if there is loss of DMX signal

LED – LED display on or off – When you chose off, the LED display will turn itself off after 10 seconds of not being used. Pressing mode turns on the LED display.

TEST – Test mode

DISP – Turns the LED display upside down

Fhrs – shows the number of hours the light has been used for

Ver – shows the software version of the light

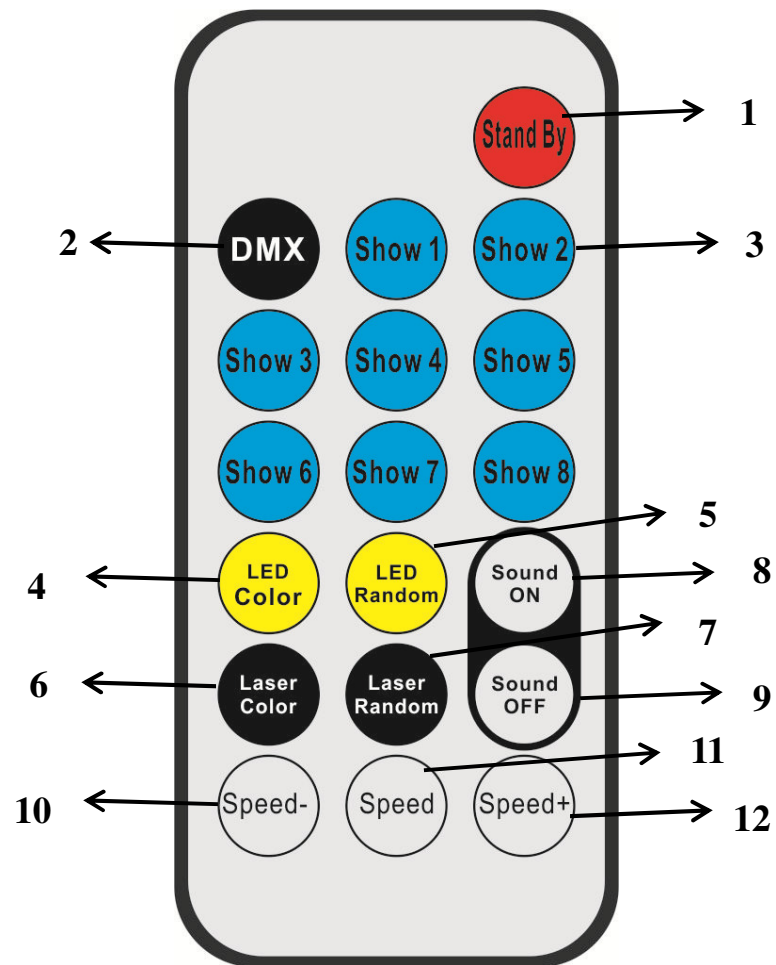
Rset – Resets the light.

Notes:

- DMX takes priority over all other mode settings. If there is a DMX lead connected and a DMX signal received, the light will immediately be controlled by DMX.
- After using the LED menu, hold down the menu button for 2 seconds for the light to resume normal operation. Otherwise normal operation will resume after 10 seconds (as in light effects output).



5. Infra Red remote control.



NO	BUTTON	FUNCTION
1	Stand By	Standby mode – no light output
2	DMX	No function
3	Show 1-Show 8	Show 1-Show 4(available) Show 5-Show8(no function)
4	LED Color	LED colour choose – press repeatedly to cycle colours
5	LED Random	LED colour random
6	Laser Color	Laser colour choose
7	Laser Random	Laser colour random
8	Sound ON	Sound control ON
9	Sound OFF	Sound control OFF
10	Speed -	Decrease Show speed
11	Speed	Set Show's speed at middle speed
12	Speed+	Increase Show speed



6. DMX Control

Using DMX you can control each of the four effects built into this light individually. You can also use DMX to call upon built in programs and shows. This fixture has 2 DMX profiles – 2 and 10 channels modes. The 10 channel mode allows individual control of all the effects while the 2 channel mode is a simpler way to control the light by DMX simply calling upon built in programs and features.

10 Channel DMX chart:

		DMX value	Function
CH1	Control mode	0-9	No function
		10-69	Show 1: Gobo Derby Show
		70-129	Show 2: White LED and UV show
		130-179	Show 3: Laser show
		180-255	Show 4: Random combination
CH2	LED Gobo Derby Control	0-9	Gobo Derby off (no LED)
		10-198	Colour selection (15 options, 13 DMX values for each option)
		199-225	Colour flowing 1 (single colour) slow to fast
		226-255	Colour flowing 2 (several colours) slow to fast
CH3	Gobos LED strobe control	0-9	Gobo Derby LED strobe OFF
		10-244	Gobo Derby strobe speed (slow to fast)
		245-255	Gobo Derby strobe with sound control
CH4	Gobos LED control	0-127	Gobo Derby position
		128-255	Gobo Derby scanning (slow to fast)
CH5	White LED dimmer	0-255	White LED dimmer (0-100%)
CH6	White LED strobe	0-244	White LED strobe speed (slow to fast)
		245-255	White LED strobe with sound control
CH7	UV LED dimmer	0-255	UV LED dimmer
CH8	UV LED strobe	0-244	UV LED strobe speed (slow to fast)
		245-255	UV LED strobe with sound control
CH9	Laser colour	0-9	Laser closed
		10-63	Red
		64-127	Green
		128-255	Red+Green
CH10	Laser motor control	0-9	No function
		10-127	Motor clockwise rotation
		128-255	Motor anti-clockwise rotation



2 channel DMX Chart:

		DMX value	Function
CH1	Control mode	0-9	No function
		10-69	Show 1: Gobo Derby LED show
		70-129	Show 2: White LED + UV show
		130-179	Show 3: Laser show
		180-255	Show 4: Random effects
CH2	Show speed/sound control	0-247	Show 1-Show 4 Speed from slow to fast
		248-255	Show 1-Show 4 sound control

7. 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:



8. 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.

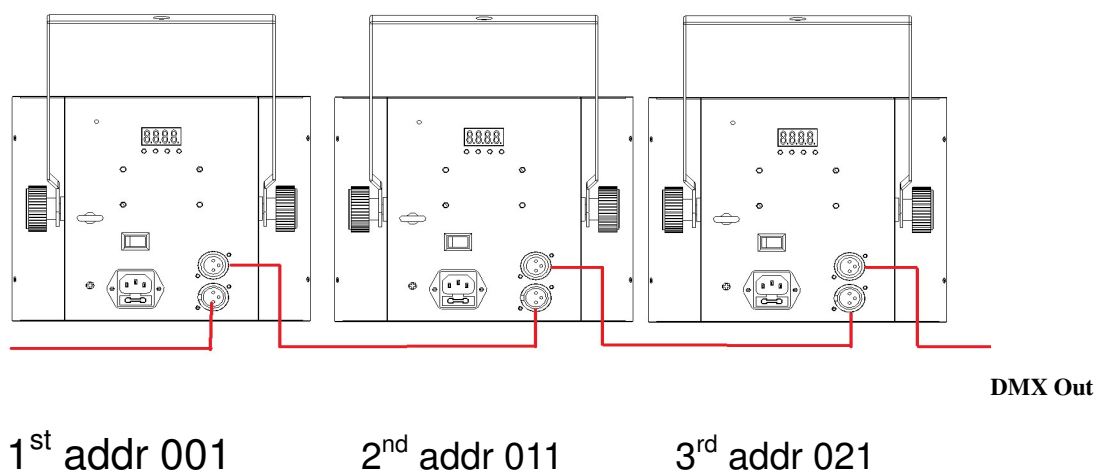
For simplicity, the user can use the same address for multiple fixtures but this will result in each fixture providing exactly the same output and fixtures with the same DMX address cannot be individually controlled.

To control each fixture individually via DMX, each fixture must have its own unique DMX address. If this fixture is in 10 channel DMX mode then each address must be 10 channels apart. For example, if the first unit is on DMX channel 1, the 2nd must be on DMX channel 11, the 3rd on channel 21 and so on.



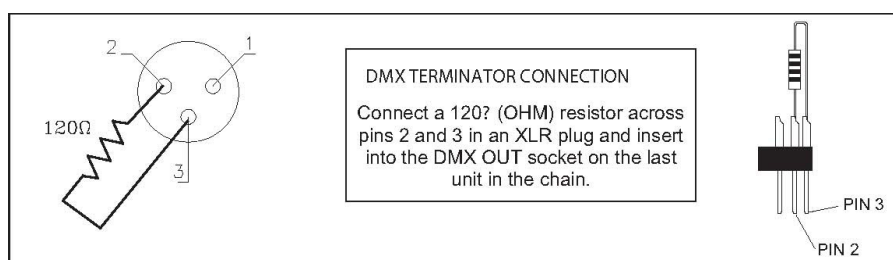
Similarly, for 2 channel DMX mode, the DMX channels would be 1,3,5,7 and so on.

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.



9. 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:



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. Please note that 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

- Derby LED: 8 x 3W RGBY LED, 2 of each colour
- UV LED: 8 x 3W UV LED
- White LED: 2 x 3W cool white LED
- Laser: Red 80mW/650nm + green 30mW/532nm
- Control: Sound activated, auto, DMX, master/slave, IR remote control
- DMX channels: 2 / 10ch selectable profile
- Power input: 100-240VAC, 50/60Hz.
- Power consumption: 55W
- DMX connections: 3 pin male and female XLR
- Dimensions: 240 x 220 x 250mm
- Weight: 2kg
- Fuse BGDG 5x20mm 250VAC T2A
- working temperature 10-40 degrees C

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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