



LANTA  
PROFESSIONAL LIGHTING

# Owner Handbook



# Fireball Par 64S<sup>TM</sup>

Colour Mixing Slimline Par Can

## For your Safety

- Follow all instructions to maintain Manufacturer Warranty and for your own safety.
- There are no user replacement parts inside the product. Do not open the product for any reason. This will invalidate your Manufacturer Warranty and may impair the safety features of the product.
- Do not expose this product to moisture, rain or other fluids.
- Do not use this product near water or other fluids.
- Do not use if the product if you suspect it has been damaged in any way, including being dropped, is malfunctioning, or has been exposed to liquids or moisture. The unit must be repaired by an authorised service centre only. Manufacturer Warranty is void if unit is opened or adapted in any way. Operator safety may be compromised if this product is not operated and maintained in accordance with the details contained in this Owner Handbook.
- This appliance must be earthed. Do not remove the earth connection in the plug or any other location- it is essential for user safety.
- Be aware that products are mains powered and may be capable of producing high voltages from its outputs and has mains voltages inside the cabinet.

## Product Installation, Use & Maintenance

- Keep this Owner Handbook safe for future reference.
- Clean the product with a clean and dry, non-abrasive cloth. Do not use solvents or liquids to clean the product.
- To prevent overheating, do not obstruct any ventilation opening, fan cover or vent. Do not install near any sources of heat such as radiators, heaters, other heat producing items such as amplifiers, power units etc.
- Power connection to the product is via a UK 240 Volt AC three-pin mains plug. Do not remove or adapt this plug. If necessary, only replace the plug top fuse with one of the same type, size and value.
- The mains lead must not be crushed or damaged. If any damage occurs, disconnect from the mains immediately. Replace the damaged cable, or if the mains lead is captive, return the product to an authorised repair centre for cable replacement. Do not attempt to repair the cable - it must be discarded and destroyed.
- To maintain the Manufacturer Warranty, only attach authorised accessories and external devices. This includes cables, connectors and other electrical and/or mechanical devices.
- Unplug the product from the mains during lightning storms or periods of mains fluctuations. If the product is going to be unused for long periods, unplug from the mains.

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Revision 1

## Product Quality & Compliance

Products from Lanta Lighting meet all required safety standards in force at the time of manufacture and are fully compliant with them.

## Unpacking & Inspection

- Inspect the packaging before opening. If the packaging appears to have sustained significant damage, please take extra care before using the product. If you are in any doubt, consult a suitably qualified professional.
- If you suspect the product has been damaged, do not use it. Return it to your original supplier without delay.
- Keep all packaging in a safe place for storage or transport in future.

## Manufacturer Warranty

- This Manufacturer Warranty is valid in the UK only.
- Lanta Lighting warrants that this product is free from workmanship defects and material failure during normal use and operation for a period of 12 months from first use or from original date of sale (whichever is the earliest) providing all of the terms indicated in the warranty section have been fully complied with.
- Expressly excluded is our liability for any directly connected or indirectly connected item or items or any consequential loss associated with the failure of the product howsoever caused.
- If the product has been opened, modified, tampered with, incorrectly connected, used inappropriately or in conflict with the instructions herein, or the product model or serial number has been damaged, removed, tampered with, obliterated or made partly unreadable by any person or persons, the Manufacturer Warranty is irrevocably null and void.
- No extension, adaption, alteration or modification to the terms of this Manufacturer Warranty will be permitted, unless expressly authorised in writing (excluding email and fax) by a Director of Lanta Lighting. Warranty is transferrable during the Warranty period.

## For Further Information about Lanta Lighting

Our website can be found at [www.lantalighting.com](http://www.lantalighting.com) and is available for the benefit of customers worldwide. Please consult for information, advice and support on this and other high quality products from Lanta.

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## About Lanta Lighting™

Based in the UK, Lanta are committed to providing high quality products at cost-effective prices to the professional lighting market. Since the first product was launched in 2006, Lanta has established a reputation for reliability, common sense design and customer support that has become the envy of others. All Lanta products are specifically designed for UK operation and are optimized for 240VAC 50Hz UK mains power.

The Lanta Lighting range includes:-

### Professional Lighting

Focussing on the use of LED technology, Lanta offer distinctive lighting effects for install and mobile applications. From washes to floods, spots to projectors, LED technology now outperforms traditional lights while at the same time requiring significantly lower power and generating far less unwanted heat.

### Performance Lasers

Recent advances have reduced the costs of Lasers, made them more portable and brought improved performance and reliability. With step and animation lasers in multi and single colour formats for mobile DJs and static installs, Lanta promise Lasers that won't burn a hole in your pocket.

### Atmospheric Effects

When you need special atmospheric effects, Lanta have everything from bubble machines to fake snow, hazers and foggers. There's also a range of fluids and consumables specially designed to get the best from the range.

### Control Gear

Lightweight and portable, Lanta Control Gear is robust enough to survive life on the road and smart enough to control DMX kit whatever the venue.

Visit us at [www.lantalighting.com](http://www.lantalighting.com) for more details.

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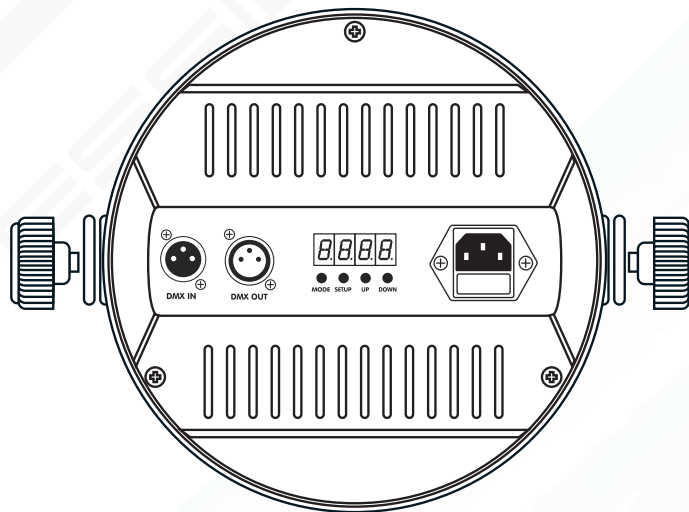
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Revision 1

# Features of the Lanta Fireball Par64S™

The Lanta Fireball Par 64S™ lighting fixture features Single colour Red, Green and Blue 10mm LEDs. It has a built in colour switching, fading and pattern sequencing facilities and can also be sound activated. A range of features can be DMX controlled from any of the LANTA DMX controllers or equivalent products.

<b>LEDs</b>	59 x Red, 59 x Green, 59 x Blue
<b>DMX Control</b>	User selectable: 1, 3, 4 or 6 Channel
<b>Control Connections</b>	3 Pin Female XLR socket, 3 Pin Male XLR socket
<b>Power Requirement</b>	240 Volt AC 50/60Hz
<b>Power Consumption</b>	30 Watts
<b>Dimensions W x D x H</b>	290mm x 295mm x 10mm
<b>Weight</b>	1.6Kg



Power & Control Connections

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# Operation of the Lanta Fireball Par64S™

To select the various different modes of operation, there is a 4 button keypad and a 4 digit LED display on the rear of the product.

To begin, press the button marked "MODE". Each press will choose one of the working modes described below. Once the desired mode has been selected, the button marked "ENTER" will allow the user to select a parameter that they wish to change (such as speed etc). To choose a value of the parameter, press either the "UP" or "DOWN" buttons until the desired setting is achieved.

Note: There is no need to have a "store" button, as this is automatically done for you.

Note: The LED display will enter power saving mode after 20 seconds after the last button press. It will turn on again after pressing any button.

Note: When first powered on, the display will briefly show the firmware version programmed into the memory of the controller. This is displayed as a "U" followed by the version number. (e.g. "U3.01")

## 1- Built-in PROGRAM Mode

To use the built-in program mode – a library of exciting and vibrant colour changes, keep pressing the "MODE" button until the LED display shows "PR" followed by a 2-digit number (e.g. PR07). The "UP" and "DOWN" buttons allow the selection of a program.

Program 01 is a static colour mode. By pressing "ENTER" the desired colour can be selected by using the "UP" and "DOWN" buttons. There are seven static colours:-

- 1- Red (Red)
- 2- Red & Green (yellow)
- 3- Green (Green)
- 4- Green & Blue (Cyan)
- 5- Blue (Blue)
- 6- Red & Blue (Magenta)
- 7- Red & Green & Blue (White)

### Special Effects:

- (1) Press ENTER again to set the BRIGHTNESS of your chosen static colour. This is from 000 (off) to 255 (full brightness)
- (2) Press ENTER again for FLASH mode. "FS00" is static through to "FS99", the fastest flash rate of your chosen static colour.

Program "PR02" to "PR10" are pre-programmed patterns that either colour switch or colour fade. After selecting the desired pattern, the special effects shown in (1) and (2) can be selected.

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## 2- AUTO Mode

To use the built-in Auto mode – a library of exciting colour changes, keep pressing the “MODE” button until the LED display shows “AUTO”. In this mode the unit will run pattern two for a period of time, then automatically run pattern three and so on until pattern ten is reached. It will then restart with pattern two. This creates an ever-changing light show without the need for the operator to intervene.

Note: The special effects shown in (1) and (2) can be selected.

## 3- DMX Mode

It is possible to operate the Lanta Fireball Par 64S™ from a remote location by using either a DMX controller or a PC or laptop with a DMX interface. Lanta products use a 3 pin XLR style connector and usually have an input and output DMX connector. This allows multiple lighting products to be “daisy-chained” together to build a display controlled by just one cable back to the DMX controller.

NOTE: In larger installations, there may be limitations regarding the maximum length of DMX cables and the maximum number of devices that can be used in one daisy-chain (or node).

NOTE: It is often desirable to terminate the last device on the node to minimize noise and interference. Interference on a DMX network can make some lighting products to behave erratically; this is most noticeable with moving head or other motorized products. This is not a fault with the lighting product.

Please see your DMX controller handbook for further details.

To use the built-in DMX function, it is necessary to set the DMX address. To do so, first choose the correct mode by pressing the “MODE” button until the LED display shows “d” followed by a 3-digit number (e.g. d007). The “UP” and “DOWN” buttons allow the selection of the DMX address and can be selected between 001 and 512.

The Lanta Fireball Par 64S™ uses several adjacent CHANNELs of DMX and the first will be determined by the DMX address setting - as described above - and the second CHANNEL will be one CHANNEL higher and so on. E.g. if the DMX address has been set to 105, then the Lanta Fireball Par 64S™ will be operated by channels 105 and 106 etc. In most applications, it is sufficient to set the DMX address to 001 as shown in the table below.

When the Lanta Fireball Par 64S™ is connected to the DMX controller, each CHANNEL will be controlled by a slider or similar control. When the slider is at the bottom the VALUE is 0. When the slider is at maximum, the VALUE is 256. The value can be set at any level at any time.

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In addition, the Lanta Fireball Par 64S™ can operate in a number of different DMX modes. This facility will make the Lanta Fireball Par 64S™ compatible with a huge range of controllers and applications. The Lanta Fireball Par 64S™ can operate in 1 channel, 3,4 and 6 channel modes, each offering a wealth of functionality.

The following tables explain what the Lanta Fireball Par 64S™ will do when the value of each CHANNEL are set:-

### DMX Mode 1: 1-channel

CH1		
No.	DMX Value	Function
1	0	Off
2	1-22	Red
3	23-45	Green
4	46-68	Blue
5	69-91	Cyan
6	92-114	Yellow
7	115-137	Orange
8	138-160	Pink
9	161-183	Purple
10	184-206	Dark Blue
11	207-229	Light Green
12	230-252	White
13	253-255	Warm White

### DMX Mode 2: 3-channels

Channel	Value	Function
Ch1	0-255	Red
Ch2	0-255	Green
Ch3	0-255	Blue

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## DMX Mode 3: 4-channels

Channel	Value	Function
Ch1	0-255	Master Dimmer
Ch2	0-255	Red
Ch3	0-255	Green
Ch4	0-255	Blue

## DMX Mode 4: 6-channels

Channel	Value		Function
Ch1	0-255		Master Dimming
Ch2	Red Dimming	0-255	Red Dimming 55
	Different static colour choice when CH6 0-24 is available	0-8	R(255)
		9-17	R(255) G(50)
		18-26	R(255) G(150)
		27-35	R(255) G(255)
		36-44	R(200) G(255)
		45-53	R(100) G(255)
		54-62	R(40) G(255)
		63-71	G(255)
		72-80	G(255) B(50)
		81-89	G(255) B(150)
		90-98	G(255) B(255)
		99-107	G(150) B(255)
		108-116	G(50) B(255)
		126-134	R(50) B(255)
		135-143	R(150) B(250)
		144-152	R(255) B(255)
153-161	R(220) B(50)		
162-170	R(150) G(50) B(100)		
171-179	R(50) G(180) B(220)		

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## DMX Mode 4: 6-channels continued

Channel	Value	Function
Ch2	117-125	B(255)
	180-188	R(50) G(220) B(100)
	189-197	R(150) G(220)
	198-206	R(150) B(220)
	207-215	G(180) B(220)
	216-233	G(100) B(50)
	225-233	R(220) G(100) B(50)
	234-242	R(220) G(200) B(100)
	243-251	R(255) G(200) B(150)
	252-255	R(255) G(255) B(255)
		Different static colour choice when CH6 0-24 is available
	Speed adjustment control Ch6 (25-249)	0-255 0-255 Slow-Quick
	When Ch6 is within the range 250-255 the sound active sensitivity can be set	0-255 Sound active sensitivity adjustment
Ch3	0-255	Green Dimming 0-255
Ch4	0-255	Blue Dimming 0-255
Ch5	0-9	No Function
	10-255	Strobe (Slow-Fast)
Ch6	0-24	To choose 29 static colours through Ch2
	25-49	Pr02 (seven colours gradual change)
	50-74	Pr03 (three colours gradual change)
	75-99	Pr04 (seven colours step change)

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## DMX Mode 4: 6-channels continued

Channel	Value	Function
Ch6	100-124	Pr05 (three colours step change)
	125-149	Pr06 (illusion 1)
	150-174	Pr07 (illusion 2)
	175-199	Pr08 (red gradual change)
	200-224	Pr09 (green gradual change)
	225-249	Pr10 (blue gradual change)
	250-255	Sound active mode

### 4- MASTER /SLAVE Mode

This is a great way of making two or more Lanta Fireball Par 64S™ units do the same things at the same time, without the need for a DMX controller. The Lanta Fireball Par 64S™ has a DMX controller of its own, built inside and when a second Lanta Fireball Par 64S™ (set as SLAVE) is connected to a Lanta Fireball Par 64S™ (set as MASTER) the SLAVE will follow all of the activity of the MASTER. It is possible to connect several SLAVES to a master, creating a magnificent light show!

To use the built-in MASTER/SLAVE function, keep pressing the "MODE" button until the LED display shows "SLAu". Then join this SLAVE unit to another Lanta Fireball Par 64S™ that is in either Program, Auto or sound mode – this acts as the MASTER.

NOTE: The DMX OUT connector of the MASTER should be connected to the DMX IN of the slave using a 3 pin DMX cable.

### 5- SOUND Mode

This mode will really bring your Lanta Fireball Par 64S™ to life. The built-in microphone is designed to react to the bass notes – the "beat" of the music. Each time the microphone detects a bass note, it will advance the pattern in time to the music.

To operate the SOUND mode, press the "MODE" button until the LED display shows "SU" followed by two digits. The numbers represent the microphone's sensitivity setting. This will range from SU00-SU31. The louder the music, the lower the sensitivity required to operate the sound function – and the lower the number the operator needs to select. If set too high, the Lanta Fireball Par 64S™ will seem to run continuously and not in time with the beat.

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The logo for LANTA Professional Lighting. The word "LANTA" is written in a large, bold, white, sans-serif font. Below it, the words "PROFESSIONAL LIGHTING" are written in a smaller, white, sans-serif font. The logo is centered on a black background with green light rays and patterns.

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