



# Lumicycle

High Powered Cycle Lights

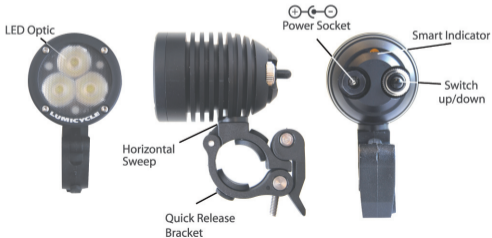
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## Welcome

Congratulations on purchasing a Lumicycle System. This is a high-powered, performance cycle light, designed for the ultimate riding experience. By spending a little time familiarising yourself with the light and reading this manual, you will soon be up and running. The light has 6 power modes and a fuel gauge that can be configured for use with Lumicycle Lithium-Ion and NiMH batteries. The Toggle-switch on the back, navigates the different operating modes. The SMART-INDICATOR also on the back, provides continuous information on battery level and the current power mode. Additionally, it indicates the system test on start-up. The rear power socket has been designed to hold the battery cable firmly, whilst allowing it to be pulled free should you accidentally catch a cable when using the light. The included thermal control monitors running temperatures, whilst Lumicycles SMART-BOOST technology provides a unique high-level control. It also includes our unique swivel quick release bracket.



## Quick Setup

First, fully charge your battery ( Lumicycle battery charging and storage instructions, page 11 ) Your light is fitted with a QRB (quick release bracket) which can be configured for larger bars by adding the supplied link. Simply push the pin through using a pointed tool, add the link and then push the pin back. The picture shows the bracket with and without the link. Adjust the bracket to fit securely to your bar. When fully charged, fit your battery to your bike in a suitable position, threading any cables along your frame. Depending on your battery choice, you may need to change a setting before proceeding (see Battery types and how to change the settings) When done, connect your battery to the light by pushing the cable plug securely into the light socket. Switch on by holding the switch upwards for two seconds, it will light, you are ready to go!



**Standard Quick Release**  
22-27mm bars

**Link**

**Large Quick Release**  
27-32mm bars

## Battery types and how to change the settings

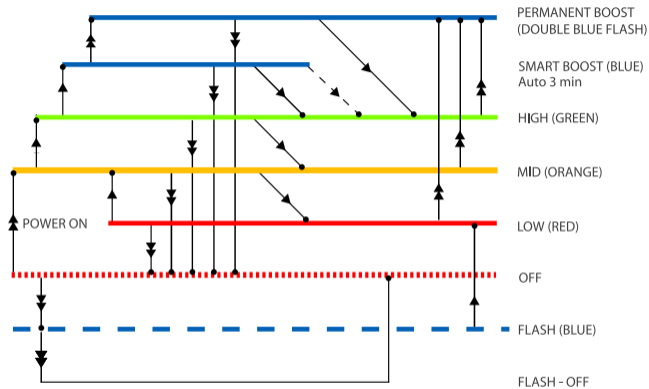
LED3 systems will run using either a Lumicycle NiMH or Lithium-Ion batteries. LED4 systems will only run on Lithium-Ion batteries. Your LED light is factory-set for Lithium-Ion battery use. You will need to change the setting for a NiMH battery. The setting only affects the way the fuel gauge monitors your battery, it does not affect the way it runs. To change the setting, with your battery disconnected from the lamp, hold the switch **DOWN** whilst plugging the battery in. The rear SMART-INDICATOR will flash one of two, 4 colour sequences - BLUE, GREEN, ORANGE, RED for Lithium-Ion (default) or RED, ORANGE, GREEN, BLUE for NiMH mode. If the sequence is incorrect, repeat the action and the setting will toggle. The setting is held in memory, even when you unplug the battery. After the initial self-test, the light will enter standby mode, indicated by a constant RED flashing. It is now ready to use.

## Switching

The rear switch, operates by pushing the switch either upwards or downwards. A series of *SHORT* or *LONG* presses guide you through the different power modes. A *SHORT* press is defined as an immediate press and release. A *LONG* press as a count of 2 - then release. All *SHORT* upward presses increase brightness immediately, whereas *SHORT* downward presses decrease the brightness with a gentle fade. You switch the unit off by pressing down for a *LONG* press (2 sec) , this is for your safety.

*Flash* mode is accessed by pressing a *LONG* down when the light is OFF. When in flash mode, a *SHORT* up will take you straight to *LOW* mode, and *LONG* down will switch the light off.

# Switching Diagram



## Smart-Indicator

The Smart Indicator displays the power-level mode and the battery condition. It displays constant coloured lights to indicate fuel and flashing coloured light to indicate the power mode.

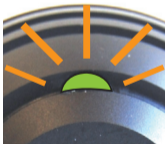
After selecting a new power mode, the flashing colour is displayed for an extra 1 second to confirm the mode choice.

Examples below:

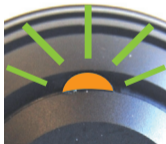
A constant *GREEN* light with a single *BLUE* flash indicates a good battery and that you are in *SMART-BOOST* mode. Should you be in a power mode that is identical in colour to the fuel gauge colour, i.e. *GREEN* mode with a *GREEN* fuel gauge indication, then the flash will be seen as an *OFF* interrupting the steady *GREEN* fuel indication.



Fuel Gauge Green in  
Boost Mode



Fuel Gauge Green in  
Mid Mode



Fuel Gauge Orange in  
High Mode

## Power mode – Flashing colour

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There are 6 power modes – **FLASH** (Blue flash), **LOW** (Red), **MID** (Orange), **HIGH**(Green), **SMART-BOOST** (Blue) and **PERMENANT-BOOST** (Blue double flash).

**FLASH** offers good visibility to other road users, where the ambient light is sufficient to ride by. It also offers extremely long run times.

**LOW** is very suitable for urban riding as well as some off-road work.

**MID** and **HIGH** give considerable amounts of high definition light, suitable for the most demanding of rides and long runtimes.

**SMART-BOOST** delivers a unique, enhanced timed light.

**PERMENANT-BOOST** enhanced light - untimed

### **SMART-BOOST MODE - what's this all about?**

You always need extra light when riding in challenging terrain. With **SMART-BOOST** you benefit from increased brightness when you need it most. The human eye is quick to adjust and so your perception of what is bright continually changes. With **SMART-BOOST** you achieve increase in brightness - then, after 3 minutes it gently fades back to **HIGH** allowing your eyes to re-adjust to the high mode without really noticing. This leaves you able to select **SMART-BOOST** again when you next need it. Of course, there may be times when you require the extra brightness for longer periods. This is easily achieved by pressing a **SHORT** up which will give an additional 3 minutes . You can repeat this as often as you need or by pressing a **SHORT** down, you will return to **HIGH** mode. **PERMANENT-BOOST** provides the same level of light as **SMART-BOOST**, but without fading back to **HIGH** after three minutes. This mode is achieved by a **LONG UP** from any mode. In this mode you will use the maximum charge from your battery thereby reducing runtimes achievable in other modes.

Please note: The lamp unit will not run in **PERMANENT-BOOST** mode continuously if testing indoors. This is not indicative of a problem, the thermal control cuts in to prevent overheating. Should this occur, leaving the lamp to cool will automatically reset the control and you will be able to use it again as normal.

## Fuel Gauge - Steady Colour

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The Smart Indicator provides three battery condition states.

**GREEN:** The battery is healthy and all power levels (including **BOOST**) can be selected.

**ORANGE:** All power modes can be selected. Moderating the use of higher power modes will ensure you have sufficient time to complete your ride safely.

**RED:** Close to being empty - it does not indicate a reserve tank! You will not be able to select a power mode higher than MID and are advised to switch to LOW immediately.

As individual batteries will be of a different age and life cycle, we advise everyone to familiarise themselves with their own battery operation and use the fuel gauge levels accordingly. Accuracy will become more apparent as you use the system 2 or 3 times. Riding conditions vary and can affect your runtimes.

## Run-times



Run-times for single lamphead and 2.6Ah batteries. Multiply by 2 for 5.2Ah

## Temperature Protection

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In situations where insufficient cooling is available; at very slow speeds, when stopped, or when using or testing the light indoors, the ambient temperature of the LED lamp head may increase, especially when the higher power modes (*HIGH* or *BOOST*) are selected. Your LED continuously monitors its internal temperature, protecting its components. If it reaches its preset safety temperature threshold, the light will automatically reduce its power mode to *MID* (*ORANGE* flashing on the Smart Indicator) and not allow further selection of higher power modes until the light has cooled by at least 3°C.

At a normal ambient temperature (25°C) and in still air, your LED light will run continuously in *MID*, remaining below its maximum operating temperature. Under the same conditions, *HIGH* or *BOOST* will eventually raise the temperature until the protection circuit is triggered.

## Lumicycle Battery Charging and Storage Instructions

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### Lithium-Ion batteries

Your Li-Ion (Lithium-Ion) battery is a handmade, quality product that should give you many years of service. You are advised to carefully read these instructions to help keep your battery in good condition and prolong its useful life.

Lithium-Ion bag batteries are fitted with protection circuitry. The cells have an orientation label indicating how they should be returned to the battery bag, should riders remove the bag for washing. Please make sure when returning the battery to the bag, that you orientate the battery correctly. Failure to do so could damage the protection circuit. Excess cable may be folded and tucked inside your battery bag.

## *Charging*

When charging your battery for the first time, connect any lead from your battery to the lead of the charger, then plug the charger into a mains socket and switch the socket on. The charger LED will indicate **RED** if the battery does not have a full charge (likely with a new battery). The battery should be left to charge until the LED indicator changes to **GREEN**, this indicates a fully charged battery. A charge can take anywhere between 2 and 7 hours according to the size of your battery and how discharged it is.

Once the LED has turned **GREEN** the charger no longer continues to charge. You should disconnect the charger from the mains socket and unplug your battery from the charger.

Please observe the following recommendations:

- \* Disconnect the charger from the mains when not in use.
- \* Do not use charger outside or in damp conditions.
- \* Do not operate charger if dropped or damaged.

## *Storage during summer months*

When not using your system, always disconnect your lamp unit from the battery. If it is not used for long periods, store your battery fully charged in a cool place. We recommend you recharge it fully at least once every three months during storage.

## NiMH batteries

### *Charging*

When charging your battery for the first time, connect any lead from your battery to the lead of the charger, then plug the charger into a mains socket and switch the socket on. Depending on your purchase choice, you will either have a **NiMH FAST** charger or a **NiMH STANDARD** charger. Please use the appropriate instructions below.

### *Standard Charger*

The first charge should be for 24 Hours to condition the battery (irrespective of charge in battery). After its first charge, the charge time should be adjusted to be proportional to your battery use. If you have used half of its runtime then charge it for only half the time it takes to fully charge the battery (20 hours = full charge). We recommend purchasing a mains timer to manage your charging and so avoid overcharging which will shorten its life.

### *Fast Charger*

With a fast charger you will achieve a 95% charge in 1- 4 hours

The following indicators identify the charging order:

Orange	Initialization
Red	Fast charge
Green/Orange	Top off charge
Green	Trickle charge
Red/Green	Indicates an error

It is safe to leave the battery on trickle charge for up to 24 Hours - recommended, but not longer than 24 hours.

### *Further useful NiMH battery information*

When using your lights, never allow your battery to run flat. Turn off, or unplug your lamps immediately they start to fade and do not continue to use them when dim, or this could damage the battery. Recharge as soon as possible. Unlike Ni-Cad batteries, they do not require discharging before charging. Charge and store your battery in a cool environment (5-20°C).

### *Storage during summer months*

When not using your system, always disconnect your lamp unit from the battery. If it is not used for long periods, store your battery fully charged in a cool place. We recommend you recharge it fully at least once every three months during storage.

## **Bottle Batteries**

If you have purchased a bottle battery you will find additional cable length coiled in the bottle. This can be released by unscrewing the bottle lid and then pulling the additional cable through carefully.

## Safety and General Information

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Please observe this safety advice when operating your Lumicycle LED.

- Position your light so as not to dazzle others
- Be aware of your lights output and brightness
- Your lamp may become hot when used. Be careful when handling, and in the company of children
- Always disconnect your battery from the lamp when not in use, especially in a bag or rucksack.
- Be aware that improper use could lead to a fire, leakage or explosion.
- Fit your light securely using the additional link supplied for large bars, if necessary. (see Links)
- When stationary and using the flashing mode, be aware of other people who may be affected by strobe lights.

## Maintenance

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There are no serviceable parts inside the LED light, battery or charger. Should your LED system not work or you have any general operating problems, then please contact Lumicycle UK Ltd immediately. Disassembly of the LED light or battery will invalidate the warranty.

## Warranty

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Mechanical parts, batteries and chargers have a 1 year return to base warranty against faulty parts or workmanship. The warranty does not cover any damage which results from accident, abuse, misuse, natural or personal disaster or any unauthorised disassembly, repair or modification. Lumicycle (UK) Ltd will not be responsible for any consequential loss arising from failure or malfunction of the product.

## Use and Care

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Your light and batteries are fully sealed for use in inclement weather. If used in extreme conditions, dry naturally in a warm room after your ride. Do not dry in front of a fire or place in a microwave oven. If your light becomes muddy, use a soft toothbrush to remove dried on mud before using a soft cloth to wipe clean. Be careful not to drop your LED light.

## Recycling and Caring for the Environment

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Your light, battery and charger should give you many years of exceptional use. Should you need to dispose of them, do so in accordance with collection and recycling schemes operated by your local authority. This also applies to all packaging and user guides. You can find further information from your local authority website.

## Trouble shooting:

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Q. My light does not work?

A. Check that your battery is charged, plugged fully into the LED and the Smart Indicator is flashing RED

Q. I've done that but it still doesn't work?

A. Check you are holding the switch up for long enough to power on

Q. I have checked everything but still it does not work?

A. Contact your supplier

Q. When I put my battery on charge the charger does not go RED but stays GREEN?

A. Your battery is fully charged

Q. Why do my burn times seem short?

A. Your battery is not fully charged - recharge

A. Your battery is new and needs to be charged and discharged 2 to 3 times

A. Your battery is old and needs to be replaced

A. You have not used the battery for a long period, try charging and discharging a few times



Steve



Jon



Alan



Mark



Peter



Elijah

At Lumicycle we want you to be confident that you have the full support of our technical team when making a purchase. If any product is faulty we will ensure it is repaired and returned to you with the least disruption.

You should email or call us as soon as you are aware of any problem.

Give us as much detail as you can. One of our technicians will then discuss with you the best course of action.

This of course, does not affect your statutory rights.

Steve Young  
Managing Director



manufactured in a facility that also produces smiles.....



# Lumicycle

High Powered Cycle Lights

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