GLOWORM

GENERAL OPERATING INSTRUCTIONS

XTrail
1300 LUMENS

Contents (click to view)

Kit Contents

The following items are included in your light box:

1 x Light

(Installed with battery)

1 x Battery

(not pictured/insisde light)

1 x Bar Mount Assembly

Mount Plate

(attaches to base of light)

QR Clamp

(31.8mm/Installed with Quarter Turn Mount)

Quarter Turn Mount

(compaitble with Garmin/Magellan)

Bolt/o-rings

(attaches clamp to quarter turn mount)

1 x Helmet Mount Assembly

Mount Plate

(attaches to base of light)

Base Plate

(attaches to helmet)

Helmet Mount Clip

(slides into base plate)

Helmet Mount Velcro

(attaches base plate to helmet)

Helmet Mount Bolt/Nut

(attaches mount plate to clip)

4 x Adhesive Velcro Squares

(attaches button to button mount ot helmet)

1 x Button Mount/Rubber Shim

(attaches to bar using zip ties)

4 x Mount Plate Screws

(attaches to bar using zip ties)

1 x Micro USB Charge Cable

(to charge battery)

1 x Spare Optic (Wide/Spot)

2 x Hex Tools (1.5mm/3mm)

(1.5mm - Optic/Mount Plate. 3mm - Bar Mount Bolt)

8 x Zip Ties

(attaches button mount to handlebar)

1 x Remote Button

(attaches button mount to handlebar)

1 x OTG Cable

(to charge other devices using the CX Battery)

1 x Generic Instructions

Light

Helmet Mount Assembly

Bar Mount Assembly

Remote Button

Hex Tools and Mount Plate Screws

OTG Cable

Spare Optic

Charge Cable

Bar Mount Bolt and O-rings

Adhesive Velcro Squares

Helmet Mount Velcro

Button Mount and Rubber Shim

Congratulations! You are now the owner of a new Gloworm Light

Quick Start and Operation

Your Gloworm Light is controlled through 3 different types of button press:

CLICK	quick CLICK, less than 1 second
DOUBLE CLICK	2 CLICKS (similar to that used with a computer mouse)
PRESS	2 to 3 seconds
HOLD	long press. 5-20 seconds (depending on function)

The CX Trail is pre-loaded with two default programmes, each of which can be customised (detailed in the online instructions). Each programme features 'Normal Operation Modes' NOM (Low, Med, High) and one 'Special Mode' SM (Flash, Dim, Beacon)

Quick Start

Once the battery is connected, the CX is ready to be used. **CLICK** to start the light in **TRAIL** programme (Default 1 - 3 light levels). **DOUBLE CLICK** to start in **COMMUTER** programe (Default 2 - 2 light levels). NOMs (High, Low, etc) are changed using a **CLICK**. The SM is accessed with a **PRESS** of the button from any NOM. A **CLICK** will return the Gloworm Light to NOM.

To turn off the CX, **HOLD** the button for about 5 seconds. The light will change to SM, then turn off.

To reset the CX to factory settings, turn off the light then **HOLD** the button for approximately 20 seconds. The light will emmit a flash when the reset is

START HERE
Light Off (UNLOCKED)

HOLD for greater than 3 seconds from any mode to turn off – light will cycle through Special Mode if initiated from Normal Operation Mode.

Trail Programme (Default 1)

Commuter Programme (Default 2)

LOW

MED

HIGH

Special Mode
DIM

LOW

HIGH

Special Mode
FLASH

Master Reset (HOLD for 15 seconds)

Click

Double Click

Press

Hold

CUSTOMISE BRIGHTNESS

DOUBLE CLICK FROM ANY NOM (2 quick flashes will indicate ready for customisation)

CLICK to increase brightness of selected mode in 10% intervals (1 quick flashes will indicate 100% brightness). HOLD to dim light level.

DOUBLE CLICK to return to NOM when desired brightness is reached

CUSTOMISE SPECIAL MODE

DOUBLE CLICK FROM ANY SM (2 quick flashes will indicate ready for customisation)

CLICK to cycle through options of DIM, FLASH, BEACON.

DOUBLE CLICK to return to SM when desired mode is selected

TURN ON SAFETY LOCK - HOLD for 15 sec from any mode. Conitnue to hold after light has powered off, Light will give a quick flash when is has locked, then the button will flash red. **TURN OFF SAFETY LOCK** - HOLD for 15 sec. Light will give a quick flash when it has unlocked. When button is released it will flash green to indicate it has unlocked. It will flash red if still locked. **Light cannot be locked or unlocking using the remote button.**

IMT and Programming

Intelligent Mode Technology (IMT) allows the CX to be refined for any adventure. The CX is loaded with two programmes that can be customised on the fly.

DEFAULT 1 - Special Mode and three light level modes
DEFAULT 2 - Special Mode and two light level modes

The user can adjust the brightness of each light level mode in addition to being able to select the type of SM for each programme (DIM, FLASH or BEACON).

Light Level Brightness Customisation (NOM)

1. Switch the light to the NOM (light level) you wish to adjust. 2. **DOUBLE CLICK**. The light will give 2 quick flashes indicating you can commence customisation. 3. Increase the brightess in 10% increments using a **CLICK** (when 100% brightness is reached the light will give 1 quick flashes), dim the brightness by **HOLDING** the button. 4. Once the desired brightness has been reached, **DOUBLE CLICK** to return to normal operation.

Special Mode Customisation (SM)

1. When in SM, **DOUBLE CLICK** the button. 2. The light will give 2 quick flashes indicating you can select your preffered SM. 3. Cycle through the three options using a **CLICK. DIM** is inidcated by a dim light, **FLASH** is indicated by two flashes every 1 sec and **BEACON** is indicated by a quick bright flash at 2 second intervals. 4. Once the desired SM has been selected, **DOUBLE CLICK** to return to normal operation.

Master Reset

When the light is off, **HOLD** the button for 15 seconds to restore to factory settings. After 15 seconds the light will flash rapidly 10 times and then turn off. This indicates factory settings have been restored.

Programme Matrix (Factory Settings)

	Special Modes	Normal Operation Modes		
Trail Programme (Default 1) **CLICK** to start	Special Mode DIM 20 Lumens 10 days runtime	LOW 350 Lumens 11.5hrs runtime	MED 850 Lumens 4.5 hrs runtime	HIGH 1300 Lumens 2.5 hrs runtime
Commuter Programme (Default 2) **DOUBLE CLICK** to start	Special Mode FLASH 400/1100 Lumens 5hrs runtime	LOW 750 Lumens 5 hrs runtime	HIGH 1300 Lumens 2.5 hrs runtime	

Light Level/Runtime Matrix (Customised)

10% 60hrs	20% 26hrs	30% 13hrs	40% 9hrs	50% 6.5hrs	60% 5hrs	70% 4.25hrs	80% 3.5hrs	90% 3hrs	100% 2.5hrs
70lm	150lm	300lm	425lm	625lm	750lm	900lm	1100lm	1200lm	1300 lm

Special Modes (SM)

DIM (like a flashlight, good for reading, small closeup tasks)	10 days	**FLASH** (light flashes high-low-high-low every second)	5hrs	**BEACON** (1 bright flash, followed by a 3 second pause)	2 days

Mounting

Helmet Mounting

The CX uses a quick release (QR) helmet mount system, which can also be used with similar GoPro mounting systems. The mount consists of the QR Base and a QR Clip with a prong pivot The base is mounted to the helmet with the supplied Velcro (or cable ties) and the clip is attached to the light. The clip then slides securely into the base and is removed by gently squeezing the two arms. Prior to using the helmet mount, the mount plate must be secured to the light.

Bar Mounting

The bar mount utilises a quarter design in conjunction with a quick release clamp. Attach the clamp to the bar in the desired position. Rotate the quarter turn mount into position to allow the placement of the CX. The CX can be placed in any position above or below the bar. The CX can even be positioned upside down. Ensure the quarter turn bolt is tightened sufficently so that the CX does not move whilst in use. Prior to using the helmet mount, the quarter turn mount plate must be secured to the light.
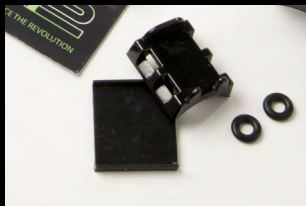
Remote Button and Button Mount

The CX features a wired remote button that connects to the light using the micro USB port. The remote button can perform all functions of light operation with the exception of 'Factory Reset' and 'Travel Lock'.

The remote button can be connected at anytime and doing so will not affect the operation of the light.

The remote button can be attached to the handlebar using the supplied button mount (pictured) or to the helmet using a velcro pad (supplied).
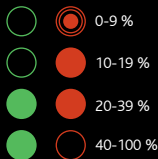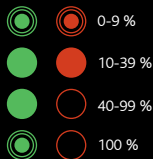
Battery

Battery Status Indication

The CX button illuminates to indicate battery status. The combination of a red and green LEDs, fixed and flashing communicates the status of the battery when the light is being charged, when in use and when utilising the OTG (On The Go) mode. The indication is based on what power level is being used at the time and the time remaining based on that power level (or charge status).
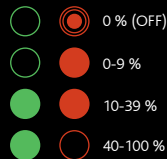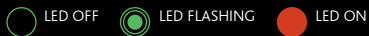
Light On		Charging - Light Off		OTG - Light Off	
○ ◎	0-9 %	◉ ◎	0-9 %	○ ◉	0 % (OFF)
○ ●	10-19 %	● ●	10-39 %	○ ●	0-9 %
● ●	20-39 %	● ○	40-99 %	● ●	10-39 %
● ○	40-100 %	◉ ○	100 %	● ○	40-100 %

Legend

○ LED OFF   ◉ LED FLASHING   ● LED ON

'Light On' indication has priority. If the light is on whilst charging or utilising OTG functionality, 'Light On' indication will be shown.

Battery Charging

The battery is charged utilising the included micro USB cable. It can be charged via a USB port on a computer or via a wall charger (not included). Charge time can vary from 5 - 17 hrs depending on charging device.

The battery is protected against overcharging and overdischarging.

Battery Removal

The CX battery can be replaced by removing the back plate of the light.

Once the back plate has been removed, simply slide the battery from the light.

OTG (On The Go) Charging

The CX has the ability to charge other devices utilising it's OTG capability. This is not a primary function and is not designed to fully charge another device but to provide power in a situation where no other power source is available and charging is necessary.

To use OTG, attach the OTG Cable to your device charge cable then connect to the CX via the USB port. Charging will commence after 2-3 seconds.

If the light is 'OFF', the OTG will provide 5V at 1A. If the light is 'ON', the OTG will provide 5V at 0.5A. As every device is different, charging times will vary.

OTG Cable

Safety Instructions

An alternative light source should be carried at all times.

Light, battery and mounts should be checked prior to each ride to ensure correct operation.

Heat Generation

The aluminium light is designed to draw heat from the LED. The process works effectively when air is flowing over the light. The light can become hot if left stationary on higher settings. It is recommended that the light is set to a lower setting when stationary for more than a few minutes.

Important! If the light is being used when stationary and it begins to become hot it will automatically lower the output (2% increments) as a measure to reduce the light's temperature and protect the electronics. Constant operation at maximum power is only possible with continuous air flow.

Battery Care Instructions

- Never leave light unattended whilst charging,
- The light/battery should never be exposed to direct heat,
- Only use the supplied charging cable when charging the battery,
- When storing your light, ensure it is at charged to at least 50% capacity.
- Store in a cool dry environment inside an airtight container.

Safety Lock

To avoid accidental operation whilst in transit, the CX has a built in lock function. Details of how to 'LOCK' and 'UNLOCK' the light included on the OPERATION CHART (Click to go).

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Changing the Optics

The CX is supplied with one installed optic. An additional optic is included in the light system kit. To change optics follow to the process below:

1. Turn off the light.

2. Remove the two screws that secure the optic (hex tool provided).

3. Carefully remove the optic (the optic seal may also be removed); you will now see the LEDs – TAKE CARE: Do not touch the LED or the electronic board/connections, doing so will leave body oils on the surfaces and potentially damage the light.

4. Replace the optic seal then place the new optic onto the CX.

5. Replace and tighten the screws (max 3Nm) Do not over tighten.

ANY OTHER DISASSEMBLY OR MODIFICATION OF THE LIGHTHEAD/BATTERY/CHARGER WILL RESULT IN VOIDING THE MANUFACTURER'S WARRANTY.

Video Tutorials

Gloworm tutorials can be found at www.youtube.com/glowormproducts

Tell us what you think!

We would really like to hear what you think about your Gloworm .

You can provide feedback by posting a review on www.mtbr.com or by sending an email to reviews@glowormlites.co.nz.

www.glowormlites.co.nz