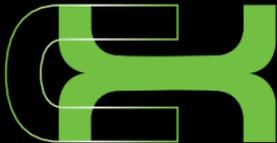


gloworm

GENERAL OPERATING INSTRUCTIONS

 urban
900 LUMENS

Contents [\(click to view\)](#)

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Kit Contents

The following items are included in your light box:

1 x Light

(Installed with battery)

1 x Bar Mount Assembly

Mount Plate

(attaches to base of light)

QR Clamp

(31.8mm/Installed with Quarter Turn Mount)

Quarter Turn Mount

(compatible with Garmin/Magellan)

Bolt/o-rings

(attaches clamp to quarter turn mount)

4 x Adhesive Velcro Squares

(attaches button to button mount of 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)

1 x Battery

(not pictured/inside light)

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)

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

(inserts into USB port for control of light)

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** programme (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 emit 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.

Master Reset (HOLD for 15 seconds)

Trail Programme (Default 1)

Commuter Programme (Default 2)

LOW

LOW

MED

HIGH

HIGH

Special Mode DIM

Special Mode FLASH

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

Click

Double Click

Press

Hold

TURN ON SAFETY LOCK - HOLD for 15 sec from any mode. Continue to hold after light has powered off, Light will give a quick flash when it 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 brightness 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 preferred SM. 3. Cycle through the three options using a **CLICK**. **DIM** is indicated 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 200 Lumens 14hrs runtime	MED 600 Lumens 4hrs runtime	HIGH 900 Lumens 2hrs runtime
Commuter Programme (Default 2) DOUBLE CLICK to start	Special Mode FLASH 300/700 Lumens 5hrs runtime	LOW 550 Lumens 5hrs runtime	HIGH 700 Lumens 3hrs runtime	

Light Level/Runtime Matrix (Customised)

10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
70hrs	30hrs	14hrs	9.5hrs	6.5hrs	5hrs	4hrs	3hrs	2.5hrs	2hrs
40lm	130lm	200lm	320lm	450lm	550lm	600lm	720lm	800lm	900 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
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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. (**CX Trail shown in images**)



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 sufficiently 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. (**CXTrail shown in images**)

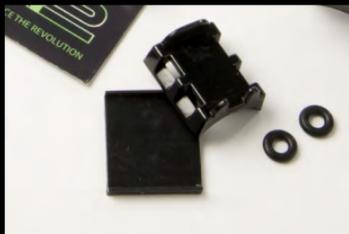


Remote Button and Button Mount

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). (**CX Trail shown in images**)

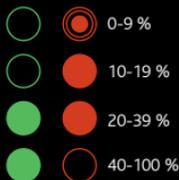


Battery

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).

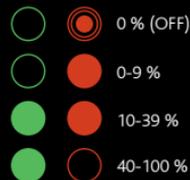
Light On



Charging - Light Off



OTG - Light Off



Legend



'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).

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.



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