gloworm™

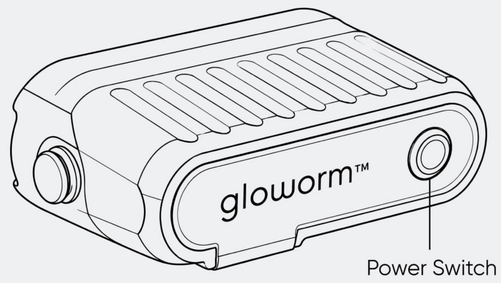
CX Core Light System (G2.1) User Guide

1. Light Head Operation

1. On/Off

Power the light on/off via the Power Switch (on the light's rear panel), or with the TX Remote (BT)

- One click to Power ON
- Press and hold (5 Seconds) to Power OFF



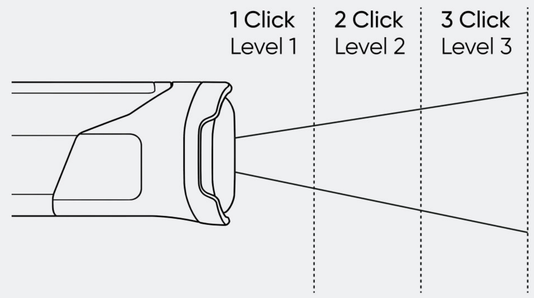
2. Power Status

The Power Switch indicates the light's Power Status by color

- Red = Power Fault/Low Power
- Blue (flashing) = Pairing Mode Active
- Green (flashing) = Charging
- Green = ON/ Fully Charged (100-50%)

3. Light Levels

Click through light levels with the Power Switch or TX Remote (BT). There are 3 Light Levels available by default. A 4th Light Level can be added in the Gloworm Link App when a Custom Light Profile is created.



4. Special Mode (Flashing/Dim)

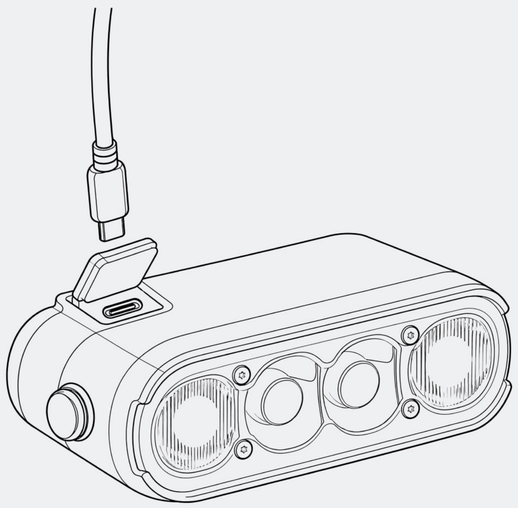
- To Activate: Depress the Power Switch or TX Remote (BT) for 3 seconds and release
- To Exit: Click Power Switch or TX Remote (BT) once

2. Charging

1. Locate the USB-C Port.

The Port is on the underside of the light head, behind a rubber seal.

- Open seal
- Connect your Gloworm USB-C Charging Cable



2. Connect USB-C Charger

Works with any USB-C PD-rated charger (20W minimum)

3. Monitor Charging/Charge Levels

The Power Switch (on the rear panel) indicates charging and charge levels

- Flashing = charging
- Solid = ON/ Fully Charged
- Green = 100% - 50%
- Yellow = 50% - 25%
- Red (flashing) = 24% - 0%
- (Below 11%, the light will progressively dim until 0%)

Charge Time

- 1h 25min 45W USB PD Charger 0-100%
- 1hr 50min 20W USB PD Charger 0-100%

Pass-Through Charging — Connect a Gloworm Power Pack G2.x while riding. Adds up to +4 hours at max power.

3. Gloworm Link App

1. Download the App
2. Enable the phone's Bluetooth
3. Pairing the Light to the App

- Phone Bluetooth "On"
- Connect X-Series light head to Power Pack via 3 Pin -> USB Battery Cable
- Depress and hold Power Switch until Power Pack OLED displays "Phone"
- Open the Gloworm Link App
- Click + Symbol and follow the on-screen prompts
- Select your light from the Available Devices list
- Select "Pair"
- Your light will appear in the Device List in the App's home screen (click ✎ to rename)

4. Select your Light
5. Pair your Light
6. Custom Output and Runtime

Click the GEAR icon next to your light's name in the Device list to access Saved Profiles.

Default - Default Profile Light Levels cannot be customized

- 3 Fixed Light Levels (20%, 70%, 100%) and 1 Special Mode (Flashing).

Custom - Custom Profile(s) will allow you to customize Light Level outputs and runtimes. You can create as many Custom Profiles as you like.

- Click **Create Your Light Profile (Default)**
- Click **New Profile**
- Add **New Profile** name
- Adjust output of each of the 3 Fixed Light Levels to any level 0-100%.
- Click the + icon add a 4th Fixed Light Level, if desired
- Click Special Mode and choose from one of three Flashing Modes (High/Low, On/Off or Disrupted) or Dim Mode (1%).

7. Monitor Battery Charge Level (LED)

Click the battery icon in the Paired Device screen to view:

- Battery Life % indication
- Battery Diagnostics Information
- Battery Voltage
- Current

8. Update Firmware

- When open, the App will automatically prompt you to install firmware when the updates when available
- To manually search for firmware updates, click "Check for Device Updates" from the Device screen. The app will search for firmware updates and prompt you to install, when available.

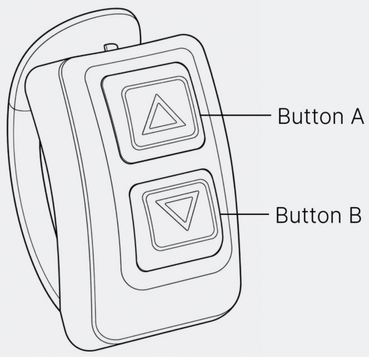
4. TX (BT) Remote

1. Pair the TX (BT) Remote with your Light

- Place the CX Core in Pairing Mode: With your Light powered OFF, depress and hold the Power Switch until FLASHING BLUE (~15 seconds)
- Click Button A (↑) once. The light will flash once
- The TX (BT) Remote is now paired in **Single Button Mode**

2. Single Button Mode

- Once your Light is in Pairing Mode, Click Button A (↑) once. Your light will flash once
- The TX (BT) Remote is now paired in **Single Button Mode**
- In Single Button, the light will scroll up, ascending, through light levels, bottom to top, and around again (1,2,3 and return to 1)



3. Dual Button Mode

- With Button A (↑) paired, power your Light "On"
- Depress and hold Button A (↑)
- While depressing and holding Button A (↑), double-click Button B (↓)
- Your light will Flash once
- The TX (BT) Remote is now paired in **Dual Button Mode**
- In Dual Button, the light will scroll up, ascending light levels, as you click Button A (↑), and scroll down, descending light levels, as you click Button B (↓)

4. Pair Multiple Gloworm lights to a single TX (BT) Remote

- Follow the above steps for each Gloworm light you'd like to pair to your remote. Both Single Button and/or Dual Button Mode.
- You can pair multiple lights simultaneously, or one at a time

TX (BT) Remote
Bluetooth remote, handlebar mountable.

Pair and control multiple Gloworm Lights with a single remote, separately or in sync

5. Mounting Options

Helmet Mount (Included)

Low Profile Helmet Mount Adapter (CX) and Universal Helmet Mount Base Plate



Universal Helmet Mount (Sold Separately)

Helmet Mount Adapter, with action-camera style mount and Universal Helmet Mount Base Plate



Adhesive Base Plate (Included)

Curved adhesive base for smooth or vented helmets. No holes required.



Universal Light Mount (Included)

Versatile action camera-style mount. Attaches to the 4-bolt pattern on the underside of the CX Core Light Head



Quarter-Turn Mount and Base (Sold Separately)

Tools-free twist and lock mount and interface. Swap between setups in seconds.



QR Handlebar Mount 31.8 & 35mm (Sold Separately)

A stable, tools free quick release connection for Gloworm lights. Fits 31.8mm/35mm handlebar diameter.



6. Accessories & Interchangeable Optics

- CX Core includes Standard Optic - Spot optic optimized for helmet mount use.
- Wide Optic is also available and sold separately or as part of the Bar Mount Upgrade Kit - Wide-angle optic optimized for handlebar mount use.

Bar Mount Upgrade Kit

Includes QR Handlebar Mount 31.8 &25mm, Quarter-Turn Mount and Base, Wide-Angle Optic



3-Pin to USB-C Battery Cable (G2.1)

Connect your CX Core Light Head to a Gloworm Power Pack (G2.x). Secure, weather-proof connection via the keyed 3-Pin connector. Available in 24cm and 100cm lengths. Sold Separately



Power Pack (G2.x)

USB-C fast-chargeable power bank to extend the runtime of your CX Core Light Head. Available in 5000mAh and 10000mAh. Sold Separately.



⚠ Battery Disposal
This product contains a rechargeable lithium-ion battery. **Do not dispose of in household or curbside recycling bins** — damaged or improperly discarded batteries pose a fire risk. Recycle through an approved collection point:
US: Call2Recycle® (call2recycle.org) · **EU**: return free of charge to your retailer/distributor per EU Regulation (EU) 2023/1542 · **AU**: B-cycle (bcycle.com.au) or your local council · **NZ**: your local council battery drop-off or an approved recycler
If the battery is damaged or swollen, tape the terminals and keep it away from heat before recycling.