gloworm™

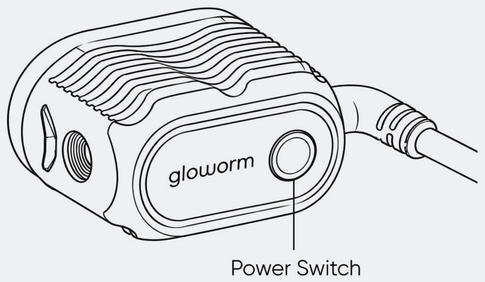
X2e Light System (G2.1) User Guide

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



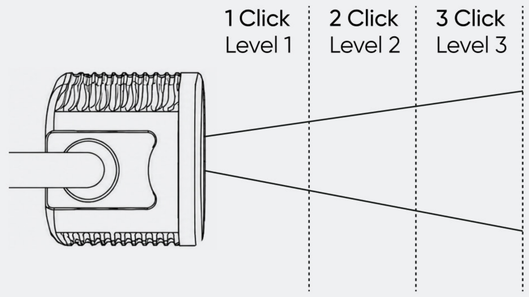
2. Power Status

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

- Red = Power Fault
- Red → Yellow → Green → Blue = Start Up Sequence
- Blue = Pairing Mode Active
- Green = ON / Full Power

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: With the light powered OFF, double-click the Power Switch or TX Remote (BT)
- To Exit: Click Power Switch or TX Remote (BT) once

2. Light Head/Motor Connection

1. **Enable Power Output Port on motor via dealer (if applicable)**
2. **Route the X2e Power Cable through the available head tube cable port, leaving the barrel connector end with enough length to comfortably connect the X2e light head. Ensure sufficient length to turn handlebars through the full range of motion both ways.**
3. **If required, join the Power Cable and Motor Specific Adaptor using the included gel connectors.**
4. **Connect the Power cable or the Motor-Specific Adaptor to the motor light port.**
5. **Plug the X2e barrel connector into the power cable barrel connector**
6. **Power on the light and ride!**

⚠ **Safety Note:** Professional installation strongly recommended. An incorrect connection can permanently damage your Light System. The X2e must be connected following the specific wiring instructions for your motor system. If you're not confident with electrical connections, please have your light installed by a qualified bike mechanic or e-bike technician. Please note that some e-bike systems may require light ports to be activated by an authorized dealer before use.

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 the light head to the Avinox USB-C PD outlet via 3 Pin -> USB PD Power Cable
- Power light on/off or wait until blue switches off, then depress and hold the light head's power switch for 10 seconds, release power switch
- 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 the output of each of the 3 Fixed Light Levels to any level 0-100%.
- Click the + icon to 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 updates are 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 them when available.

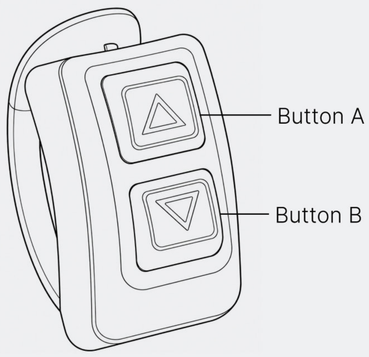
4. TX (BT) Remote

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

- Connect the Power Pack to the Light Head via the 3 Pin -> USB Battery Cable
- Power Pack OLED will display “Pair TX”,
- 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

Universal Light Mount

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



Quarter-Turn Mount and Base

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



QR Handlebar Mount 31.8 & 35mm

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



6. Accessories

Optic Upgrade Pack

A collection of 6 spare optics to customise your beam- Wide Angle (2), Spot (2), and Honeycomb (2)



⚠ **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.