gloworm™

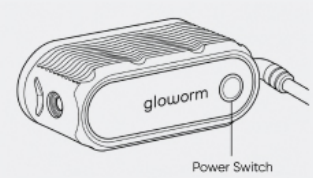
XSV-PD Light System (G2.1) User Guide

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 (BT) Remote Button

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



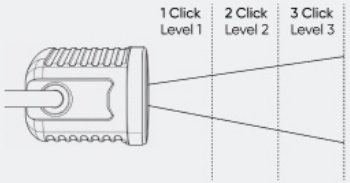
2. Power Status

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 (BT) Remote Button. 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 (BT) Remote Button
- To Exit: Click Power Switch or TX (BT) Remote Button once

2. Connecting the Light Head

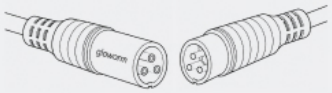
1. Connect to USB-C (PD) Outlet

- Connect the Gloworm USB-C Power Cable to the Light Head's power cable
- With the bike's motor powered OFF, connect the Gloworm USB-C Power Cable to the bike's USB-C (PD) Outlet

NOTE: XSV-PD requires a minimum USB-C (PD) output of 45W

Note: The Gloworm XSV-PD E-Bike Light System (G2.1) requires a minimum USB-C (PD) output of 45W

- Power on the bike's motor/display
- The light's "Start Up Sequence" Red → Yellow → Green → Blue will begin



2. Pairing the TX (BT) Remote

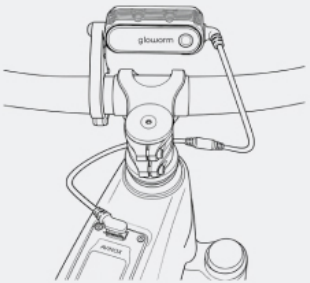
- Blue = Pairing Mode Active, you have 15 seconds to pair the TX (BT) Remote
- See section **TX (BT) Remote** for step-by-step pairing instructions

3. Power ON/OFF

- Power XSV-PD ON/OFF using the light head's Power Switch or TX (BT) Remote
- See section **Light Head's Operation G2.x** for step-by-step operation instructions

Note: If the USB-C Power Cable becomes detached from the bike's USB-C (PD) outlet during operation, you may have to restart the bike's display/outlet upon reconnecting the Gloworm Power Cable to restart the light, depending on your bike's USB-C outlet protocol

⚠ **Safety Note**: Please follow your e-bike manufacturer's instructions when connecting to the USB-C port to ensure proper installation and to protect the port and cable from damage.



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 the light on and then 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. **Customise 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 customised

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

Custom - Custom Profile(s) will allow you to customise 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 1-100%.
- 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. Update Firmware

When open, the App will automatically prompt you to install firmware when updates are available.

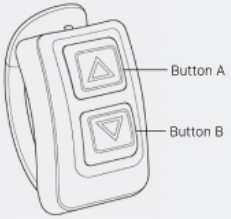
4. TX (BT) Remote

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

- Connect the Light Head to the bike's USB-C (PD) outlet and power ON the display
- After the Start Up Sequence, the light's Power Switch will display Blue = Pairing Mode Active (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

Universal Light Mount

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



Quarter-Turn Mount and Base

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



QR Handlebar Mount 31.8 & 35mm

A stable, tool-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 (3), Honeycomb (2) and Spot (1). Sold Separately.



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

(G2.x). Secure, weatherproof connection via the keyed 3-Pin connector. Available in 24cm and 100cm lengths. Sold Separately



Power Pack 5 (G2.x) and Power Pack 10 (G2.x)

USB-C fast-chargeable power bank to extend the runtime of your Gloworm Light Head. Available in 5,000mAh and 10,000mAh. Sold Separately.



⚠ **Battery Disposal**
This product contains a rechargeable lithium-ion battery. **Do not dispose of in household or kerbside 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.