gloworm™

X Series Light Systems (G2.1)* User Guide

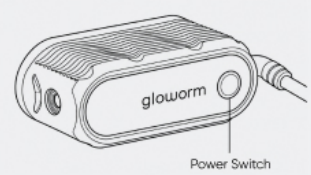
*XSV, XS and X2 Light Systems (G2.1)

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 (BT) Remote Button

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



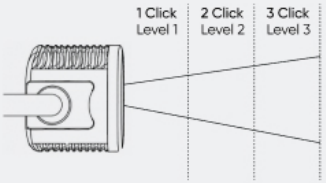
2. Power Status

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

- 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 (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)

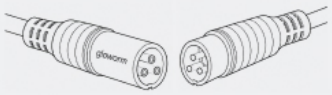
- To Activate: With the light powered OFF, double-click the Power Switch or (BT) Remote Button
- To Exit: Click Power Switch or (BT) Remote Button once

2. Charging Power Pack G2.x

1. Connect "3 Pin to USB Battery Cable (G2.1)" to the battery's power cable

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

- Align the barrel connectors of the 3 Pin to USB Battery Cable (G2.1) and the battery's power cable (The barrel connectors are "keyed" and will only connect in one orientation to prevent misalignment)
- Connect your Gloworm 3 Pin to USB Battery Cable to the battery's power cable



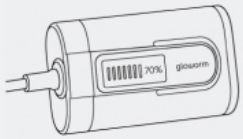
2. Connect USB-C Charger

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

3. Monitor Charging/Charge Levels

The OLED on your Gloworm Power Pack displays a battery icon series of up to 10 pulsing bars as it charges. Each bar represents 10% of the Power Pack's capacity

- Pulsing = charging
- Solid = Fully Charged



(During light operation, the OLED will display charge levels as % of battery capacity, and/or remaining runtime (HH: MM) at a selected light output level.)

Charge Time

Power Pack 10

- 3hr 30min 45W USB PD Charger 0-100%
- 5hr 15min 20W USB PD Charger 0-100%

Power Pack 5

- 1hr 45min 45W USB PD Charger 0-100%
- 2hr 40min 20W USB PD Charger 0-100%

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 X Series Light Head to the Power Pack via 3 Pin -> USB Battery Cable
- Depress and hold the Power Switch until the 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. 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. Monitor Battery Charge Level

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.

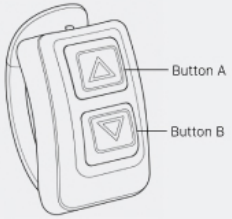
4. TX (BT) Remote

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

- Connect the Power Pack to the Light Head via 3 Pin -> USB Battery Cable
- Power Pack OLED will display "Pair TX", and Power Switch will display Blue
- 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

Low Profile Helmet Mount

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



Universal Helmet Mount

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



Adhesive Base Plate

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



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

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



QR Handlebar Mount 31.8 & 35mm

A stable, t tool-free quick-release connection. 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)

Connect your Gloworm Light Head to a Gloworm Power Pack (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.