

GRIZZLIGHTS HORIZON



USER GUIDE

1. Installation

- Turn off your EUC.
- Unplug and remove the stock light.
- Plug in the Horizon light.
- Slide it in between the mounting points, make sure the holes are aligned.
- Take the screw set marked with your EUC model.
- Keep the light position horizontal and tighten screws on both sides.
- Make sure the rotating LED has no obstacles during rotation and can reach both limit positions.
- If there are any obstacles (cables, bumpers), please identify and remove them.

2. Startup

- Turn on your EUC, turn on the headlight if it doesn't start automatically.
- DRL strips will blink and the LED will start rotating until it finds both limit positions.
- If successful, the light will automatically enter the stabilisation mode, that was previously set.
- In case it couldn't reach both limit positions, the light will blink and tick 4 times. The motor will not be functioning and the light should be investigated for possible obstacles. Once found and removed, please restart the light or EUC.

3. Standby Mode

Lamp is equipped with motion sensor which detects when the EUC is stationary for at least 15 seconds. This activates the standby mode, which reduces the LED power to prevent overheating. Standby Mode automatically deactivates when motion is detected.

4. Lighting modes

The lighting mode can be changed by a short press of the button on the light or the corresponding buttons on the remote control. There are 4 lighting modes:

- **DRL only** - only the DRL strips are powered on with full brightness - for daytime riding.
- **Low beam** - DRL strips turned on with reduced brightness and main light with low beam - for night riding in urban areas.
- **Low + high beam** - low beam brightness gets reduced and high beam is added - for maximum visibility outside the city.
- **Strobe** - DRL strips turned on with reduced brightness and main light blinking - for daytime riding and increased visibility.

5. Stabilisation modes

Stabilisation modes can be changed by 1s press of the lamp button or long press of the corresponding buttons on the remote. Switching mode by remote is possible only when the main LED is active (Low or Low+high beam). There are 3 stabilisation modes:

- **No stabilisation (1 tick)** - the light is held still in the position set by the user. No correction is applied. Acts as a regular light with no actuator.
- **Gyro only (2 ticks)** - the light is held in a position set by the user and keeps this angle when the EUC is leaning forward and backwards - acts as a single-axis gimbal.
- **Gyro + Lidar (3 ticks)** - additional corrections on inclines/declines are applied. Uses optical laser sensor, so in case of the lens being dirty or covered, will switch automatically to Gyro only mode.



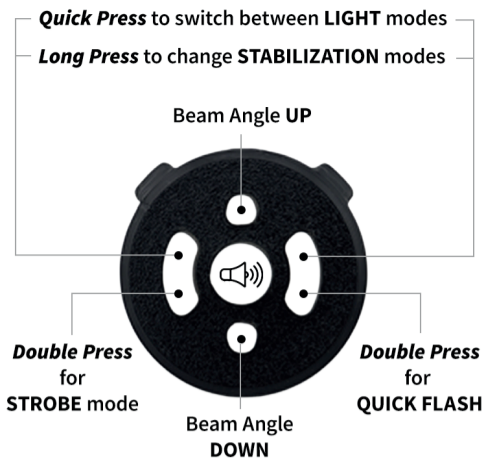
Important Safety Notice



- **Never plug or unplug the light when the EUC is turned ON or charging. It may damage the motherboard or the lamp itself!**
- **Only use the provided bolts and washers for installation. Using stock or longer bolts will damage the lamp!**
- **Do not wash the light under running water or immerse it in water. Clean only with a dry or slightly damp cloth.**
- **Do not connect the light to electric unicycles not listed as compatible on the product page.**
- **Do not disassemble the side panels or any screws from the lamp construction. Side mounting blocks and USB cap are the only parts intended to be removed by the user.**
- **In case of the light not functioning properly, please refer to section „Alarms and errors” or contact us at:**

info@grizzlapads.com

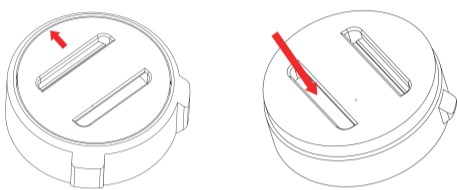
8. Remote



Every Horizon set includes a Remote that paired and tested before shipping. When not in use - it enters sleep mode and requires pressing a button to wake. Then it may take a few seconds to connect.

8.4 Battery Replacement

- Insert flat screwdriver between 2 rubber shells and take off the external one.
- Push the remote out of the inner shell.



- Follow the arrows and markings on the lid, to open the remote.
- Replace the CR2025 battery.
- Close the lid and assemble back the remote. Make sure the VOL+ button is centered between the positioning teeth.

7. Manual angle setup

Manual angle adjustment can be done in 2 ways - by using remote (the most convenient) or by entering angle calibration mode:

- Hold the lamp button for about 5s until you hear a second tick. Main LED will turn on and DRL strips will start blinking.
 - Stand on your EUC to compress the suspension.
 - Adjust the angle by short pressing the lamp button. Every press will move the beam 1 position down, then once the limit is reached, it will go back up to the upper limit.
 - Test every position by standing on the EUC and doing a few back and forth movements.
 - When the perfect position is found, long press the button. Horizon will reset and store this angle in the memory. It can still be adjusted by repeating the procedure or using remote.
- **One tick after beam angle change** - when Gyro + Lidar mode is enabled, every angle adjustment triggers distance measurement that would be set as target distance. Once this measurement is done the light will emit 1 tick.

10. Warranty

The device is covered by a 12-month warranty from the date of receipt. The warranty covers damage to the motion system, sensor malfunctions, failures of lighting components, and electronic defects under normal use.

The warranty does not cover:

- Water damage from submersion or pressure washing.
- Crash damage (conditions cannot be verified).
- Normal wear and tear (scratches, scuffs).
- Damage from unauthorized modifications (flashing unauthorized firmware, breaking the warranty seal).

8.1 Settings Storage

When beam angle is adjusted by the remote or stabilisation mode is changed, it will be saved to memory the next time **Standby Mode** is activated and it will be confirmed by a short tick. If the device is turned off before entering Standby Mode - new settings will not be saved.

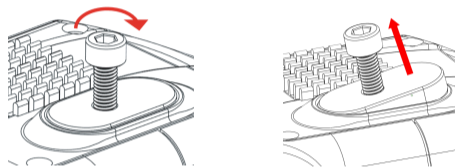
8.2 Pairing

- Hold the lamp button for ~10 seconds until you hear the 3rd tick. DRL will start blinking - the lamp is now searching for a remote.
- Press any button to wake the remote. Then short press the center button until you hear a tick from the lamp. Press once more to confirm.
- Done - the remote will auto-connect on every startup.

9. Side Mounts replacement

Depending on the Horizon model, it can either have fixed mounting points (no customization possible), or removable oval Side Mounts. They allow to adapt the position and width to different EUC models within the compatibility list. **It's mandatory to use correct Side Mounts, position and screws according to your EUC.**

- To remove the Side Mount, slightly screw an M5 bolt in, and pull the Mount out.



- Press the new Mount into the slot in correct orientation.

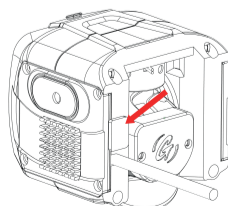
6. Alarms and notifications

- **2 ticks on startup** - Gyro sensor error. Please restart the light. If the issue persists, contact support.
- **3 ticks on startup** - Lidar sensor error. Please restart the light. If the issue persists, contact support.
- **4 ticks and DRL blinks on startup** - motor didn't reach both limit positions correctly. Remove any obstacles and dirt that's causing motion resistance and restart the light.
- **4 ticks and main LED blinking** - collision detected. The motor will be disabled to allow for inspection what's causing the collision or resistance. Once removed, short press the lamp button and to enable the motor.
- **One tick after Standby Mode enabled** - if beam angle or stabilisation mode was changed - this is the confirmation that new settings are saved to memory.

11. Firmware Updates

Horizon light features a USB Type-C port for firmware updates. Please visit grizzlapads.com/manuals

to find firmware update instructions and the latest firmware version. To access the USB Type-C port, plegently remove the protective cap with a flat screddriver.



Do not plug the USB cable while Horizon is connected to the EUC!