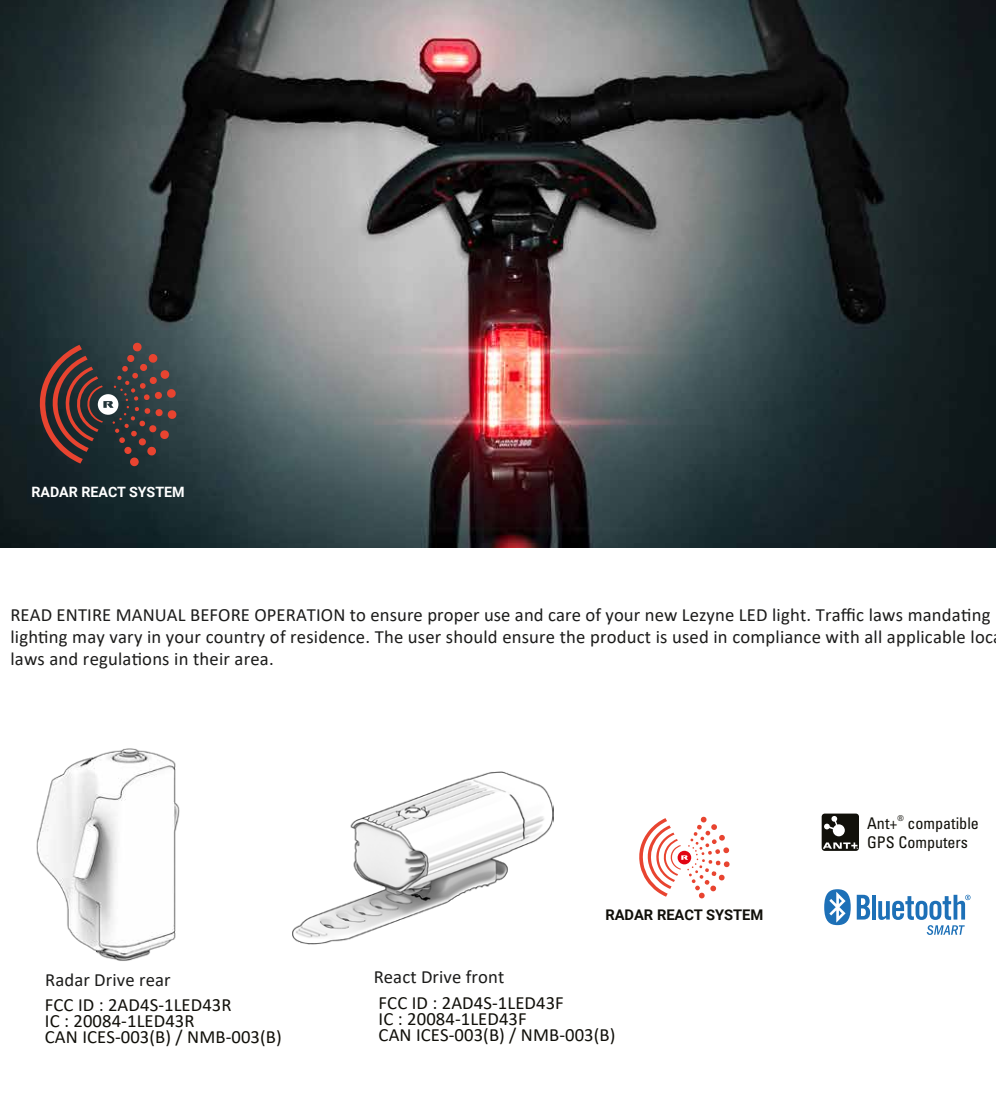
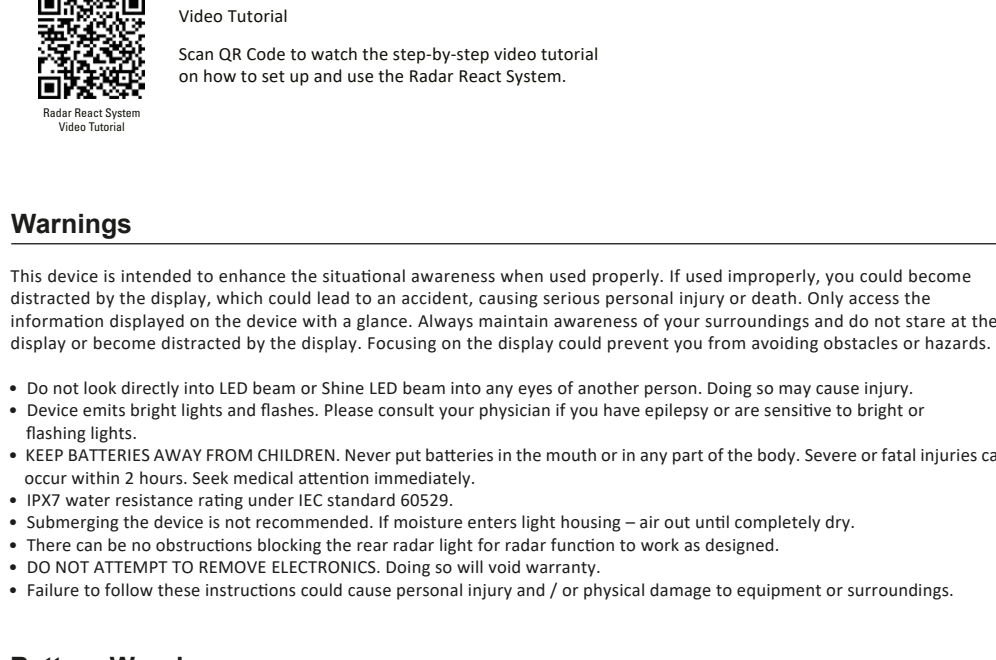




READ ENTIRE MANUAL BEFORE OPERATION to ensure proper use and care of your new Lezyne LED light. Traffic laws mandating lighting may vary in your country of residence. The user should ensure the product is used in compliance with all applicable local laws and regulations in their area.



The Radar React System is a radar device equipped with Bluetooth® and ANT+® connectivity designed to enhance rider safety by increasing situational awareness on the road. The front and rear lights improve visibility, while the Radar communicates with compatible GPS cycling computers, smartphones and/or the React Drive front light to provide real-time vehicle detection alerts.

Lezyne Radar Ally App

Scan for App

Scan for App

React Drive front

FCC ID: 2AD4S-1LED43F
IC: 20084-1LED43F
CAN ICES-003(B) / NMB-003(B)

React Drive rear

FCC ID: 2AD4S-1LED43R
IC: 20084-1LED43R
CAN ICES-003(B) / NMB-003(B)

Bluetooth®

ANT+® compatible GPS Computers

Dual Bluetooth® and ANT+® wireless system.

Connects to: Lezyne Radar Ally app, compatible ANT+® head units, React Drive front light.

Video Tutorial

Scan QR Code to watch the step-by-step video tutorial on how to set up and use the Radar React System.

Warnings

This device is intended to enhance the situational awareness when used properly. If used improperly, you could become distracted by the display, which could lead to an accident, causing serious personal injury or death. Only access the information displayed on the device with a glance. Always maintain awareness of your surroundings and do not stare at the display or become distracted by the display. Focusing on the display could prevent you from avoiding obstacles or hazards.

- Do not look directly into LED beam or Shine LED beam into any eyes of another person. Doing so may cause injury.
- Device emits bright lights and flashes. Please consult your physician if you have epilepsy or are sensitive to bright or flashing lights.
- KEEP BATTERIES AWAY FROM CHILDREN. Never put batteries in the mouth or in any part of the body. Severe or fatal injuries can occur within 2 hours. Seek medical attention immediately.
- IPX7 water resistance rating under IEC standard 60529.
- Submerging the device is not recommended. If moisture enters light housing – air out until completely dry.
- There can be no obstructions blocking the rear radar light for radar function to work as designed.
- DO NOT ATTEMPT TO REMOVE ELECTRONICS. Doing so will void warranty.
- Failure to follow these instructions could cause personal injury and / or physical damage to equipment or surroundings.

Battery Warnings

WARNING! This product contains a Lithium-ion battery. If these warnings are not followed, batteries may experience a shortened life span, may present a risk of fire, chemical burn, electrolyte leak, damage to the device, and/or personal injury. Do not short circuit terminals, over charge the battery or force discharge.

- Do not cover the charger or device while charging, as this can cause overheating.
- If the battery becomes excessively hot, emits an odor, or shows signs of damage, **stop use immediately**.
- Charging Temperature range: from 0 °C to 45 °C (from 32 °F to 113 °F)
- Operating Temperature range: 10 °C to 45 °C (from 54 °F to 113 °F)
- Do not store the device or battery in direct sunlight or near a heat source. Battery life and battery health may be adversely affected by extreme temperatures over 60 °C or 140 °F.
- It is the customers responsibility to ensure the device is within the approved operating temperature range.

Charging and Operation Warnings

- Store device or battery in a cool, dry place with good ventilation.
- Clean with water and a soft cloth for best results.
- Do not use a rough cloth or any material that can scratch the optical lens. Scratching the optical lens can cause poor radar performance.
- Avoid the contact of chemical cleaners, solvents, sunscreen, insect repellents that can damage plastic or rubber components.
- CAUTION - Radar React and Smart Connect buttons can be manually switched on through the phone app. USE CAUTION not to accidentally switch on device when stored away.

Warranty

Do not remove or attempt to remove the battery. Disassembling device will void warranty.

In U.S. and U.K., Lezyne LED Lights carry a two (2) year warranty from the original purchase date to the original owner (proof of purchase required). Lezyne Batteries carry a six (6) month warranty from the original purchase date. Lezyne warranties cover any manufacturing defects in materials or workmanship. Issues not covered by warranty include normal wear & tear, improper installation, attempting to access or modify electronics, damage or failure due to accident, misuse, abuse and/or neglect. For any warranty issues worldwide, please contact the retailer that sold the product.

For any warranty questions contact: warranty@lezyne.com

Other

- If the LED emitters fail or no longer function, discontinue use of the light. Refer to Warranty section for service options.
- CA PROPOSITION 65 WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (California law requires this warning to be given to customers in the State of California). For more info: www.lezyne.com/pro65

Radar Detection

- This device can improve situational awareness. It is not a replacement for a cyclist's attentiveness and good judgement. Always maintain awareness of your surroundings and operate a bicycle in a safe manner. Failure to do so could result in serious injury or death.
- The Radar detects approaching vehicles up to 150 meters (164 yards) away.
- The Radar detects approaching vehicle speed from 8 to 131 Km/h (5 to 81 mph) relative to rider speed. **NOTE: The radar does not detect vehicles traveling at the same speed as the rider.**
- The radar beam angle width is 35 degrees. It provides radar coverage for typical bends in the road.
- Radar detection is designed for an outdoor setting. Radar detection does not work indoors or when not properly mounted to a bike. False alerts can be triggered by detection oversaturation when mounted improperly or used indoors.
- Make sure Radar Drive lens is clear of any dirt or debris as it can affect detection performance.
- There can be no obstructions blocking the Radar Drive taillight, e.g. tire, fenders and/ or saddle bags.
- On very curvy and/or hilly roads, the device signal and performance can get interrupted by the physical blocking of the signal and not being able to see the target.
- NOTE: Radar has to have a clear line of sight to display the target alerts.**
- Be sure to follow all local rules and regulation regarding the use of bike lights when using the Radar React System.

Viewing Radar on Lezyne Radar Ally App

Settings / App Function:

React Drive front light back cap brightness control

React Drive On / Off

Radar Drive MODE control

App/Device settings menu

Radar Drive On / Off

Radar Drive MODE control

While on a ride with vehicles approaching from behind and your Radar Drive is paired to the Lezyne Radar Ally app, the Radar information is shown as moving car icons in the app screen. These car icons dynamically move up the app screen depending on position and velocity to you as a rider.

The vehicle position of the cars moves up the screen as a vehicle gets closer to you on your bike. The threat level banner on the sides changes colors based on the potential threat level of the car approaching you from behind.

0m / End line

50m

150m

Normal Threat level

High threat level 150m - 50m

All Clear

Viewing Radar on GPS Device

Radar Drive is compatible with GPS cycling computers that support ANT+® Radar and/or ANT+® Light Controls. Please review your manufacturer's directions on how to pair and use ANT+® Radar devices and/or ANT+® Lighting devices.

Once paired with your compatible ANT+® device, you will be able to get live radar notifications through your GPS cycling computer.

NOTE: If you have connected your Radar React System (front and rear lights) to an ANT+® bike computer, you will still need to pair them together in the Radar Ally app to establish the Bluetooth connection in order to receive vehicle detection alerts from your React Drive front light. This is a one time setup.

Viewing radar vehicle alerts on React Drive

You can receive visual and audio alerts from your React Drive front light when paired with a Radar Drive. When the two lights are connected, a GPS computer or phone app is not needed to receive radar vehicle alerts. There is a rider-facing back cap with LED lights and a speaker built into the React Drive front light.

The React Drive must be paired with the Radar Drive via Bluetooth® using the Lezyne Radar Ally app to establish the connection between the lights. Once the connection is established through the app, you are able to use the light combinations. However, there is no need to bring your phone with you on the ride or connecting to a GPS bike computer.

To use your Radar React System without a phone or GPS cycling computer, Both front and rear lights must be turned on for the system to function.

Understanding the React Drive visual alert pattern

The React Drive back cap will visually alert you to rear-approaching vehicles like shown below.

Click the Play button for an interactive look at each visual alert.

0m / End line

50m

150m

1. **Blinking mode** = contact 150m-50m back (normal threat)

2. **Fast blinking mode** = 150m – 0m (high threat)

Switches to this high threat mode when a car is approaching you 60 kph faster than your relative speed.

3. **Solid mode** = 50m-0m (contact directly behind you). Switches to solid illumination for a contact that is within 50 meters of you as a rider.

Car approaching distance	Car relative speed	Threat Type	React Drive Sequence and Alert Mode	Indicator Mode	Interactive video	React Drive Buzzer "No fire" message
150m-50m	< 60kph	Normal	Red flash every second	Blink		Tone with pause for 1.7 second
50m-50m	< 60kph	Normal-close	Red illuminate	Solid		Tone with pause for 0.8 second
150m-50m	> 60kph	High Speed	Red flashes: 1 long+ 2 short	Fast Blink		Tone with pause for 1.7 second
50m-0m	> 60kph	High Speed-close	Red flashes: 1 long+ 2 short	Fast Blink		Tone with pause for 0.8 second

Radar Drive Operation

Please remove protective film from the lens to ensure the device can function properly. Protective film is designed to be removed before first use.

The Radar Drive is switched on and off using the button at the top of the unit. Press and hold the button for 2 seconds to turn the light on. A short press allows you to switch between operating modes.

Press and hold the button for 5 seconds until LED flashes then release hold to turn the light and radar system off.

When the light is ON:

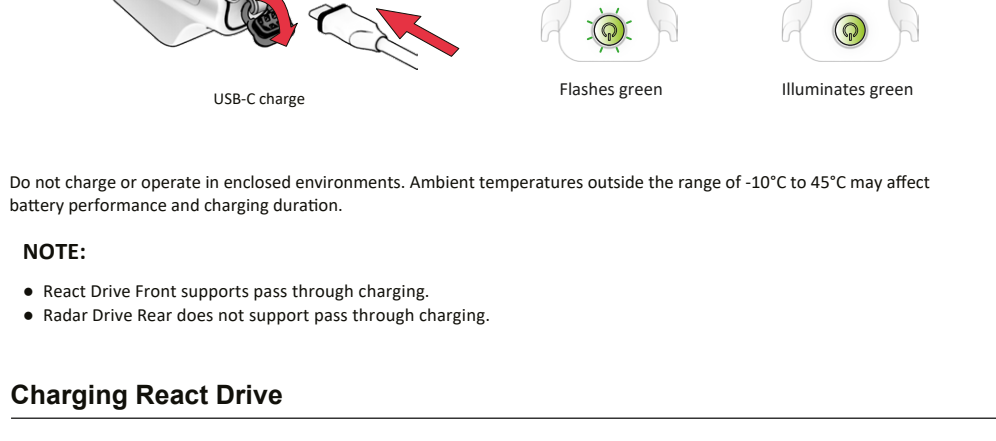
- Press and hold the button for 2 seconds: the light will turn off, radar function, Bluetooth®, and ANT+® will remain on.
- Press and hold the button for 5 seconds: the light, radar function, Bluetooth®, and ANT+® will all turn off.

When the light is Standby:

- Press and hold the button for 2 seconds: the light will turn on.
- Press and hold the button for 5 seconds: the light, radar function, Bluetooth®, and ANT+® will all turn off.

When the light is OFF:

- Press and hold the button for 2 seconds: the light, radar function, Bluetooth®, and ANT+® will all turn on.



	detect rear approaching traffic	Radar Drive OFF	Radar Drive Radar Ally app	Radar Drive GPS device	Radar React SYSTEM	Radar React System GPS device
for traffic from behind	Flash alert to driver (Radar Rear)	●	●	●	●	●
for rider	Visual + audio alerts for rider (React Front)	●	●	●	●	●
	Visual + audio alerts for rider (App)	—	—	—	●	—
	Visual + audio alerts for rider (GPS)	—	—	—	—	●

React Drive Operation

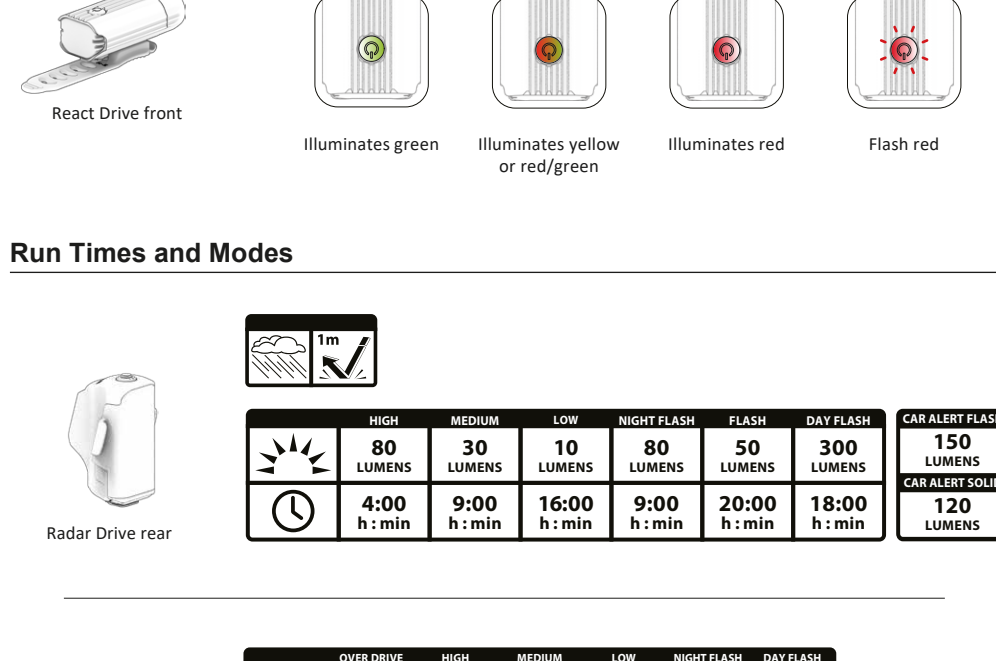
Please remove the protective film from the lens to ensure optimal performance.

The React Drive is switched on and off using the button at the top of the unit. Press and hold the button for 2 seconds to turn the light on. A short press allows you to switch between operating modes.

Press and hold the button for 5 seconds until LED flashes then release hold to turn the light and Radar system off.

MODE PROTECTION: The light remains in the output setting if it is switched OFF in.

THERMAL PROTECTION: If the operating temperature of the light is too high, the light automatically lowers the lumen output.



Pairing Radar Drive

- Smartphone app mode - Pairing Radar Drive with Radar Ally smartphone app (via Bluetooth®)
 - Requirements:
 - Smartphone (iOS or Android)
 - Lezyne Radar Ally app (download from App Store for iPhone or Google Play for Android).
 - Step 1: Turn on the Radar Drive
 - Press and hold the power button for 2 seconds until the light turns on.
 - Keep the device within 1 meter of your smartphone.
 - Step 2: Launch the Lezyne Radar Ally app
 - Ensure Bluetooth® is enabled on your smartphone.
 - Accept the safety disclaimer.
 - Step 3: Pair the Device
 - Within the App: Follow the on-screen instructions to complete the pairing.
 - Tap connect on the RADAR DRIVE as it appears on the CHOOSE YOUR DEVICE screen.
 - Once paired, the app allows you to control the light's power and modes directly from your smartphone.
 - Your phone will now act as a head unit for the connected Radar Drive. It will display the information.

Operation is subject to the following two conditions: (1) this device may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The simplified (EU) declaration of conformity referred to in Article 10(9) shall be provided as follows:

Hereby, Lezyne declares that the Radar equipment of type Information Technology Equipment, is in compliance with Directive 2014/53/EU.

Pairing Radar Drive & React Drive

Three (3) additional use cases when paired with the React Drive in the Radar React system

- Smartphone app mode - Pairing Radar Drive with Radar Ally smartphone app (via Bluetooth®)
 - Requirements:
 - Smartphone (iOS or Android)
 - Lezyne Radar Ally app (download from App Store or Google Play)
 - React Drive
 - Accept the safety disclaimer
 - Step 1: Turn on the Lights
 - Press and hold the power button on both the Radar Drive and the React Drive for 2 seconds until both lights turn on.
 - Keep the lights within 2 meter of your smartphone.
 - Step 2: Open the App
 - Ensure Bluetooth® is enabled on your smartphone.
 - Launch the Lezyne Radar Ally app.
 - Step 3: Pair the Device
 - Follow the on-screen instructions to complete pairing.
 - Once paired, the app uses the app to control the power and modes of both the Radar Drive and the React Drive.
 - When a vehicle approaches from behind, the Radar Drive will send a detection signal via Bluetooth® to both the **Lezyne Radar Ally app**—which will display visual icons and play audible alerts on your smartphone— and the **React Drive**, which will activate its rear-facing red back-cap light and emit audible warning sounds to notify the rider.

- GPS Cycling Computer - Pairing Radar Drive Rear with React Drive Front and bike computer (via ANT+®)
 - Requirements:
 - Compatible ANT+® bike computer
 - Lezyne Radar and React Drive are compatible with GPS cycling computers that support ANT+® Radar and/or ANT+® Light Controls. Please review your manufacturer's directions on how to pair and use ANT+® Radar devices and/or ANT+® Lighting devices.
 - Once paired with your compatible ANT+® device, the **GPS device** will receive detection data from the Radar Drive via ANT+®, displaying visual alerts and audible notifications to warn the rider. At the same time, the **React Drive** will receive the same signal via Bluetooth®, triggering its rear red back cap light and audible alerts when a vehicle approaches from behind.

- Standalone Mode (No Device Connection Required)
 - Once the Radar Drive and React Drive have been paired using the Lezyne Radar Ally app, they will automatically connect to each other via Bluetooth® whenever both lights are turned on—no need to re-open the app.
 - When a vehicle approaches from behind, the Radar Drive will send a detection signal via Bluetooth® to the React Drive, which will then activate its rear red back cap light and emit audible warning sounds to alert the rider.

Charging Radar Drive Rear

Before using your Lezyne Radar Drive for the first time, fully charge the battery. It is recommended to use a wall charger for best results.

To charge your light:

- Switch light to OFF mode.
- Open the dust cover to access the USB-C charging port.
- Connect USB-C cable and light to powered USB-C port.
- Once charging, button will flash green.

If button does not flash when plugged in, selected USB-C port may not be powered—try another USB-C port. Light will be charged after 3–5 hours or until button illuminates solid green.

- Remove light from charger and reinstall USB-C protective cover—ensure USB-C protective cover is fully installed for water resistance.

NOTE: When plugged into a charger, ANT+® broadcasting is off, Bluetooth® broadcasting is off, and Radar function is off.

USB-C cable

Flashes green

Illuminates green

Do not charge or operate in enclosed environments. Ambient temperatures outside the range of -10°C to 45°C may affect battery performance and charging duration.

NOTE:

- React Drive Front supports pass through charging.
- Radar Drive Rear does not support pass through charging.

Charging React Drive

Before using your Lezyne React Drive front light for the first time, fully charge the battery. It is recommended to use a wall charger for best results.

To charge your light:

- Switch light OFF
- Remove USB-C protective cover
- Connect USB-C cable and light to powered USB-C port
- Once charging, button will flash green; if USB-C port is capable, light will use High Efficiency (HE) charging and button will flash blue

If button does not flash when plugged in, selected USB-C port may not be powered—try another USB-C port. Light will be charged after 6–9 hours or 4.5–7 with HE charging. Light is fully charged when the button indicator illuminates solid green or blue.

USB-C cable

Flashes green

Illuminates green

USB-C cable

Flashes blue

Illuminates blue

High Efficiency (HE) charging

Model	REACT DRIVE 1200
High Efficiency (HE) Charging	
18W (9V2A)	4h:30m
15W (9V2A)	5h:00m
10W (5V2A)	7h:00m
Standard Charging	
5W (5V1A)	8h:00m

Battery Indicator

An LED located in the button displays current battery status while light is ON. When light is OFF, click button once to momentarily display battery status.

Recharge the battery immediately when the indicator turns red.

100-80%

80-55%

55-20%

20-0%

illuminates green

illuminates yellow or orange/green

illuminates orange

flash orange

100-80%

80-35%

35-10%

10-0%

illuminates green

illuminates yellow or red/green

illuminates red

Flash red

Run Times and Modes

	HIGH	MEDIUM	LOW	NIGHT FLASH	FLASH	DAY FLASH	CAR ALERT FLASH
	80 LUMENS	30 LUMENS	10 LUMENS	80 LUMENS	50 LUMENS	300 LUMENS	150 LUMENS
Radar Drive rear	4:00 h : min	9:00 h : min	16:00 h : min	9:00 h : min	20:00 h : min	18:00 h : min	120 LUMENS

	COPYRIGHT	HIGH	MEDIUM	LOW	NIGHT FLASH	DAY FLASH
	1200 LUMENS	600 LUMENS	300 LUMENS	25 LUMENS	100 LUMENS	700 LUMENS
React Drive front	2:00 h : min	4:30 h : min	9:30 h : min	65:00 h : min	60:00 h : min	70:00 h : min

Indicator for React System Pairing Status

Mode	Function	LED	Radar detect	Bluetooth® & ANT+®	React/Radar indicator
ON		●	●	●	Battery level color
Standby with Bluetooth® Pairing (over phone App or GPS)		—	●	●	Battery level color
Standby w/o Bluetooth® or ANT+® Pairing (over phone App or GPS)		—	—	●	flash green
Off		—	—	—	—

On mode

LED: ON

Bluetooth® & ANT+® ON

Radar detect: ON

Standby mode

LED: Off

Radar detect: ON

NOTE: Battery still in use

Off mode

LED: Off

Bluetooth® & ANT+® Off

illuminates battery level color

illuminates battery level color

illuminates battery level color

with Bluetooth® and ANT+® Pairing

illuminates battery level color

illuminates battery level color

with Bluetooth® and ANT+® Pairing

flash green

flash green

off

off

Mounting Radar Drive Rear

Do not block the illumination range or radar field of detection with tire or any parts of the bike. Kneeling may impair radar efficacy when too close to field of detection.

The shorter strap is designed for Round seat posts and smaller sized D-shaped seat posts.

The longer strap is specifically designed for Aero Style or Large D-shaped seat posts.

Round Post Mounting

D-Post Mounting

D-Post adapter

Aero Post Mounting

Note: The package includes two mounting strap lengths and two adapter types – suitable for D-shape or aero seatposts. The mount is designed for seatpost diameters ranging from 20 to 70 mm.

Mounting React Drive Front

For large Aero-style handlebars mounting. Customers will need to upgrade the strap to **Mounting Strap Macro/Super/Deca/Mega**.

For GoPro-style mounting. Customers will need to purchase aftermarket **GoPro LED Adapter**.

Aluminum Composite Matrix

Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Labeling Requirement Notice:

Any Changes or modifications not expressly approved by the grantee of this device could void the users authority to operate the equipment. This device complies with Part 15 of the FCC Rules and Industry Canada license-exempt RSS standards). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

Canada, Industry Canada (IC) Notices:

This device complies with Canada license-exempt RSS standards).

Le présent appareil est conforme aux normes radioélectriques de l'Industrie Canada (IC) sans licence. L'appareil peut émettre des ondes radio qui peuvent interférer avec certains appareils. L'utilisateur est invité à s'assurer qu'il respecte les protocoles d'utilisation de l'appareil afin de réduire le risque d'interférence avec d'autres appareils. Il est recommandé de vérifier si l'appareil cause de l'interférence à d'autres appareils. Si l'appareil cause de l'interférence à d'autres appareils, l'utilisateur est invité à s'assurer qu'il respecte les protocoles d'utilisation de l'appareil afin de réduire le risque d'interférence avec d'autres appareils. Il est recommandé de vérifier si l