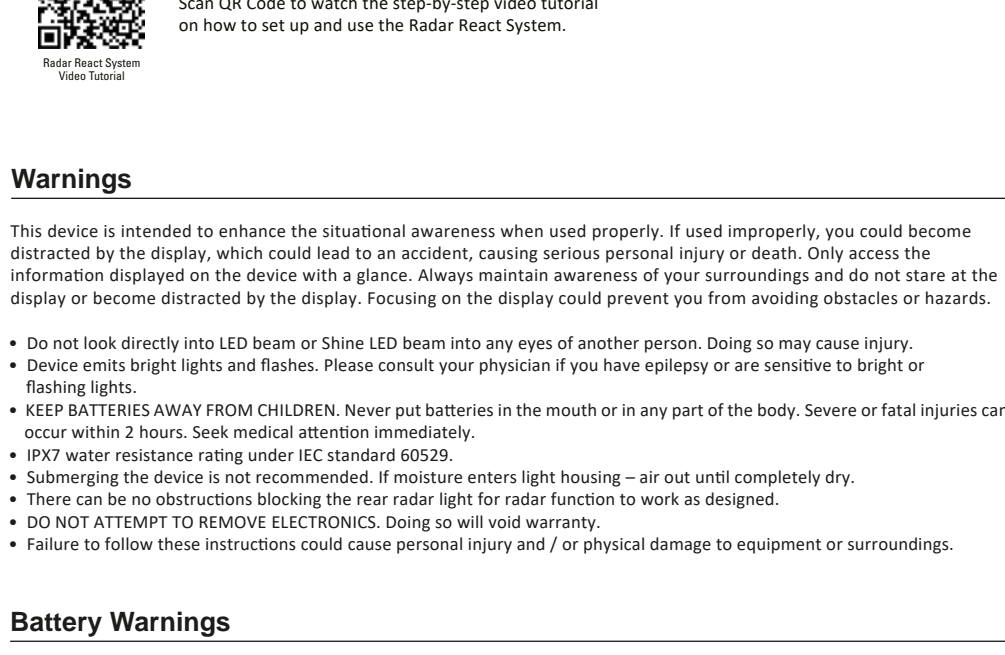


RADAR REACT SYSTEM

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.

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. See 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.
- 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.
- 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 expose the battery to fire, explosion, or other hazards.
- Do not ingest, insert, swallow or lick any part of the battery. Seek immediate medical attention if any is suspected. Can lead to severe injury or death. Call local poison control center for treatment information.
- Batteries should never be discarded as ordinary trash or be incinerated - best disposal method is recycling in accordance with government, state and local regulations.
- Avoid exposing to humid conditions for extended period of time.
- Device emits bright lights and flashes – Do not use the battery if it has been dropped or physically damaged.
- Avoid storing batteries in enclosed or airtight spaces where heat can build up, as this can increase the risk of overheating.
- Risk of irritation occurs if the cell is mechanically, thermally or electrically abused to the point of compressing the enclosure. If this occurs, irritation to the skin, eyes and respiratory track may occur. Seek local medical attention if this is the case.
- For disposal recommendation: observe local, state and federal law and regulations.

Charging and Operation Warnings

- Do not charge the device or battery if it is frozen or below 0 °C (32 °F).
- Do not cover the charger or device while charging, as this could 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: -20 °C to 60 °C (from -4°F to 140°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.

Device Care

- 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.
- Never use a high-pressure hose or air nozzle to clean the device.
- CAUTION** - Radar React and Smart Connect lights 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 all 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 will 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 from light back cap brightness control

React Drive On / Off

React 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 Ally 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.

Om / End line

50m

150m

Om / End line

50m

No color/highlights indicates: Normal Threat level

Red highlights indicates: High Threat level 50m - 0m

Orange highlights indicates: High threat level 150m - 50m

Green highlights indicates: 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 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 by 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 combination without bringing 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 intro to each visual alert.

0m / End line

50m

150m

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 to your relative speed.

Switches back out of this mode if approaching car speeds drops to 45 kph relative to your 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	Car relative speed	Threat Type	React Drive Sequence	Indicator Mode	Interactive video	React Drive Buzzer
150m-50m	< 60kph	Normal	Red Flash every second	Blink		Tone with pause for 1.7 second
50m-50m	Normal-close		Red illuminate	Solid		Tone with pause for 0.8 second
150m-50m	High Speed	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 will allow 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:

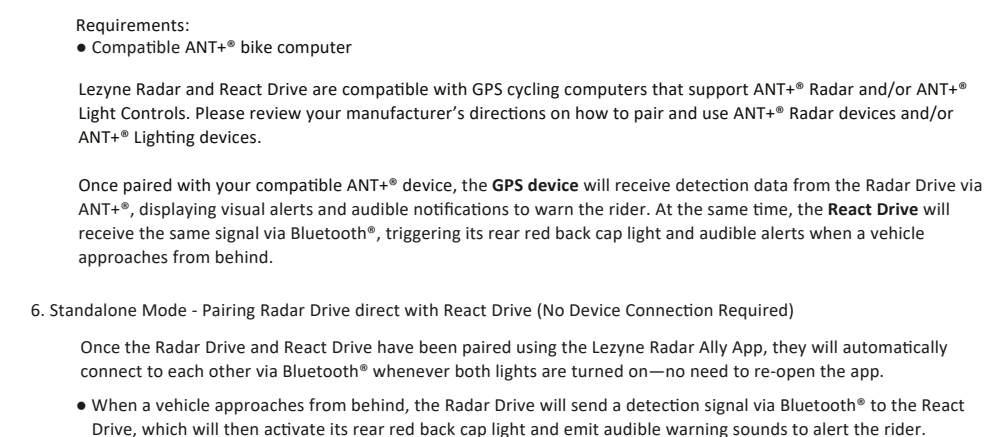
- Press and hold the button for 2 seconds: the light will turn off, radar function, Bluetooth®, and ANT+® remain on.
- Press and hold the button for 5 seconds: the light, radar function, Bluetooth®, and ANT+® will all turn off.

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.



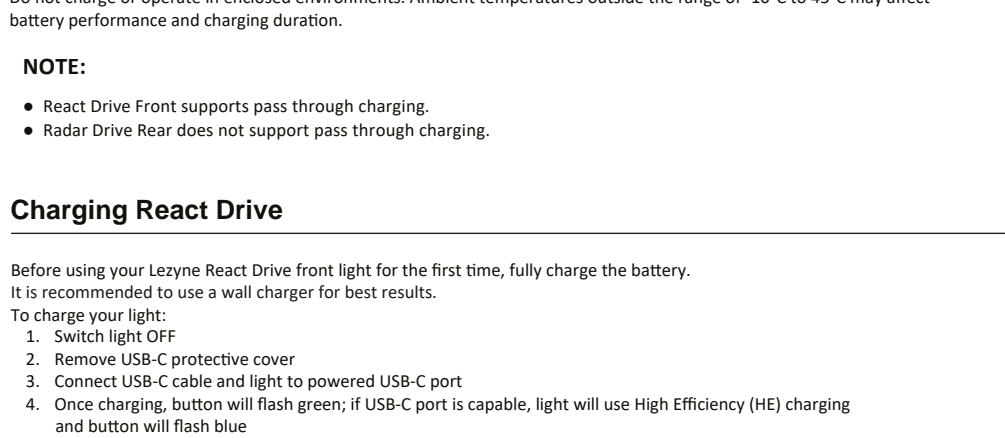
	Radar Drive only	Radar Drive Radar Ally app	Radar Drive GPS device	Radar React System	Radar React System Radar Ally App	Radar React System GPS device
detect rear approaching traffic (Radar React)	●	●	●	●	●	●
flash alerts for traffic from behind	●	●	●	●	●	●
for rider	●	●	●	●	●	●
visual = audio alerts 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.

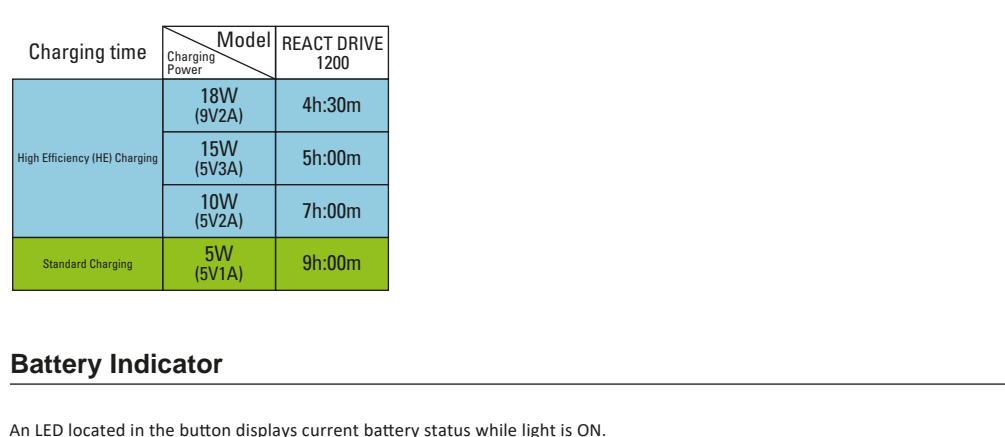
The React Drive is switched on and off using the button at the top of the unit. Press and hold the button for 2 seconds to turn the light on. A short press will allow you to switch between operating modes.

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



MODE MEMORY: The light remains in the output setting 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).

- GPS Cycling HeadUnit Mode (ANT+® Pairing)
 - 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, you will be able to get live radar notifications through your GPS cycling computer.

- Standalone Mode (No Device Connection Required)
 - In this configuration, the Radar Drive functions independently without the need to pair to any external device.
 - Once powered on, the Radar Drive can detect approaching vehicles up to 150 meters (164 yards) from behind.
 - When a vehicle is detected, the light will automatically enter a flashing pattern engineered to deliver a visible alert to the approaching car enhancing your safety on the road.

NOTE:

- Without a React front light, Lezyne Radar Ally app or GPS bike computer, you will not receive audio or visual feedback for radar contacts.
- Once the equipment is in an outlet on a circuit different from that to which the receiver is connected.

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 React Drive and Smartphone app (via Bluetooth®)
 - Requirements:
 - Smartphone (iOS or Android)
 - Lezyne Radar Ally app (download from App Store or Google Play)
 - Accept the safety disclaimer

- GPS Cycling Computer - Pairing Radar Drive 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 - Pairing Radar Drive direct with React Drive (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 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 when 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 charge

Charging

Fully Charged

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.

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

Charging

Fully Charged

USB-C Cable Not Included

Charging

Fully Charged

High Efficiency (HE) charging

Charging time	Model	REACT DRIVE
	Charging Power	1200 LUMENS
	8W (9V2A)	4h:30m
High Efficiency (HE) Charges	15W (5V3A)	5h:00m
	10W (5V2A)	7h:00m
	5W (5V1A)	9h:00m
	Standard Charging	

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%

Radar Drive rear

Illuminates green

Illuminates yellow or orange/green

Illuminates orange

Flash orange

100-80%

80-35%

35-10%

10-0%

React Drive front

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
	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

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

PowerPack Compatible

Indicating for React System Pairing Status

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

LED: ON

Bluetooth® & ANT+®: ON

Radar detect: ON

LED: Off

Radar detect: On

NOTE: Battery still in use

LED: Off

Bluetooth® & ANT+®: On

Radar detect: Off

LED: Off

Bluetooth® & ANT+®: Off

Radar detect: Off

with Bluetooth® or ANT+® Pairing

w/o Bluetooth® or ANT+® Pairing

Mounting Radar Drive Rear

Do not block the illumination range or radar field of detection with tire or any parts of the bike.

Knobby tires may affect radar efficacy when too close to field of detection.

Round Post Mounting

D-Post Mounting

D-Post adapter

Aero Post Mounting

aero post adapter

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

React Drive Front

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**.

Note

The 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 the 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 Charge model is not covered by the grant of this device could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). 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 Canadian license-exempt RSS standard(s).

Operation is subject to the following two conditions: (1) this device may not cause interference and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Canada, avis de l'Industrie Canada (IC) Cet appareil est conforme avec l'Industrie Canada respecte des licence RSS standard(s). Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

Radio Frequency (RF) Exposure Information

This device complies with FCC RF Emission Limits. The Wireless Device should be used in a manner such that the potential for human contact during normal operation is minimized.

This device has also been evaluated and found to comply with the IC RF Exposure limits under mobile exposure conditions. (Antennas are greater than 20cm from the user's body).