

# JET

## OWNER MANUAL



**recon**  
INSTRUMENTS  
Assembled in USA

## SAFETY INFORMATION



### IMPORTANT SAFETY INFORMATION READ BEFORE USING RECON JET

Jet is designed to enhance your running and cycling experiences, when used properly. If used improperly, such as riding without paying attention to the road, you can get in an accident that could result in property damage, serious injury, or death. Always pay attention to the road. Do not focus on Jet's display and become distracted from your surroundings. Ride safe and have fun.

Please read and understand these warnings before using Jet. If you have any questions about these warnings or how to safely use Jet, contact our support team at [support@reconinstruments.com](mailto:support@reconinstruments.com).

**1. Avoid Distraction. Keep your eyes on the Road.** Jet's display is in front of your right eye, but that does not mean you can look at the display and still see everything on the road. Focusing on the display may cause you to miss cars, road debris, and other hazards and may reduce or eliminate your ability to avoid an accident. So don't focus your attention on the display. Look quickly—like a quick glance at your car dashboard or rearview mirror—and only when you are sure that you are safe from traffic and other hazards. Get your eyes back on the road immediately.

Jet provides more information than your cycling computer. You may get notices, texts, or alerts while riding or doing another activity that demands your full attention. Jet is open to third-party app developers, so you may download apps that do much more, such as push emails to your display. Don't read emails and texts or attempt to respond to them until you have come to a complete stop in a safe place.

Don't let navigating distract you from watching the road. Following maps and GPS data on a little screen while biking is hard enough, so don't focus on it to the exclusion of watching the road. Stop in a safe area if you need to figure out your location or directions.

**2. Attention Tunneling.** We want you to know about something called "attention tunneling." This is a fancy word for your brain focusing on some inputs to the exclusion of others. Focusing on the display may cause your brain to ignore other things, such as oncoming cars, even though your eyes see them. Attention tunneling can cause you to miss hazards that your eyes see, or to have delayed reaction times. Avoid attention tunneling by keeping your focus on the road and glancing at the display only for short periods when you know you are safe from cars and other hazards.

**3. Increased reaction time.** Viewing the display, even for a fraction of a second, may increase the time it takes to see and react to a hazard. To ensure you have enough reaction time, only look at the display when you are clear of traffic, pedestrians, and road hazards.

**4. Blind Spot.** The display is slightly below your right eye's line of sight so you can see it easily. But be aware the display creates a blind spot in your field of view while cycling. The blind spot may affect your ability to see hazards, especially when doing your shoulder check for traffic behind you. Be aware of this reduced field of view and alter your scan for hazards so that you can see things in the blind spot.

Due to its position on the right side of the face, the display affects your view when looking to your right more than your left. Riders in places like the United Kingdom, Japan, and Australia where cars drive on the left side of the road, or riders in places where traffic is on the right, need to be especially aware of the blind spot when doing a shoulder check for hazards.

**5. Reduced Peripheral Vision.** The attachments on the left and right arms of the sunglass frame may reduce peripheral vision, which will decrease your ability to detect motion or hazards coming from behind you or to the side. Be aware of this and alter your scan for hazards accordingly.

- 6. Jet is Not a Safety Goggle.** The lenses are impact resistant but are not intended as safety glasses. They may not protect you from all the flying objects that safety glasses are designed for. If you are doing something that requires eye protection, such as jack hammering, use safety glasses designed for that purpose.
- 7. Face Injury.** As with anything that you wear on your face, an impact to your face or Jet in an accident can cause facial injury. Avoid accidents. Pay attention and ride safely.
- 8. Keep your hands on the handle bars at all times.** You need your hands on the bars to control the bike. Don't lose control and cause an accident by fiddling with Jet while riding. Set up your ride preferences before the ride so Jet displays the data you want without having to take your hands off the bars. If you have to change settings or interact with Jet mid-ride, stop in a safe place before doing so.
- 9. Wear a properly fitted helmet.** Protect your brain. Wear a helmet that fits your head. And fit Jet properly on your face so it does not interfere with your helmet. Wearing the helmet improperly can result in it coming off in an accident, when you need it most. Follow the helmet manufacturer's directions for proper fit. If you cannot wear Jet and your helmet together, try a new helmet or return Jet.
- 10. Motion sickness.** Some people are more susceptible to motion sickness, and looking at the display, even for a second, may cause nausea, discomfort, or dizziness. If you experience any of these things, stop using Jet.
- 11. Overheating.** Jet should not overheat in normal use or cause thermal discomfort. If Jet causes you any thermal discomfort or seems hotter than normal, stop using it and contact us for assistance. Wearing overheated electronics can cause skin damage.
- 12. Don't overcharge the battery.** Overcharging the battery can damage it, which can lead to fire or explosion. So don't overcharge it. Read the use instructions carefully on proper battery charging. If there is any visible damage to the battery or it overheats during charging, stop using Jet immediately and unplug the charger.
- 13. Don't use a leaking battery.** The battery could leak if punctured or damaged, which could result in a fire or rapid release of pressurized gas. Stop using Jet immediately if there is any sign of battery damage, and do not use it again until the battery is replaced or repaired.
- 14. Avoid electric shock.** Water and electricity don't mix. That is why everybody warns not to use electronics in the bathtub. It may be less obvious, but there is still a risk of shock if you plug the USB cable into the device when you, the cable, or Jet is wet. Don't tempt fate. Electricity can kill or hurt you. Plug the USB in only when everything is dry.
- 15. Allergies to plastic.** If you have plastic allergies, the plastic used on the surfaces of the product (including the sunglass frame, frame arms, electronics, and battery module) may cause an allergic reaction or skin irritation. If you have a plastic allergy, consult your doctor before using Jet. If you have an allergic reaction when using Jet, stop using Jet immediately and see your doctor before resuming use.
- 16. Eye strain.** The display shows an image to one eye only. If you look at the display too long, you may get "binocular rivalry," where your eyes compete with each other and may get strained. Look at the screen for only short periods. Do not stare at it. If you feel that your eye is strained or feeling discomfort, stop using Jet immediately and see your doctor if the condition persists.
- 17. Don't take unnecessary risks.** It's thrilling to have all your data in front of you. Don't let the thrill tempt you to push the speed numbers on a downhill or take other unnecessary risks. You could lose control or get in an accident and be seriously hurt or killed. Always ride within your comfort zone and pay attention to your surroundings.

## Contents

<b>SAFETY INFORMATION</b> .....	<b>I</b>
<b>WELCOME</b> .....	<b>1</b>
<b>WHAT'S IN THE BOX</b> .....	<b>1</b>
<b>JET SYSTEM FEATURES (HEADS-UP DISPLAY MODULE)</b> .....	<b>1</b>
<b>SETTING UP JET</b> .....	<b>2</b>
<b>CUSTOM FIT</b> .....	<b>3</b>
<b>ADJUST JET'S DISPLAY</b> .....	<b>3</b>
<b>ADJUST THE NOSE PIECE</b> .....	<b>3</b>
<b>ADJUST THE ARMS</b> .....	<b>3</b>
<b>PARTS ASSEMBLY</b> .....	<b>4</b>
<b>BATTERY PACK</b> .....	<b>4</b>
<b>REMOVE THE BATTERY AND ENGINE</b> .....	<b>4</b>
<b>RE_ATTACH THE BATTERY PACK AND ENGINE</b> .....	<b>4</b>
<b>LENS</b> .....	<b>5</b>
<b>NOSE PIECE</b> .....	<b>5</b>
<b>GET CONNECTED - RECON ENGAGE</b> .....	<b>6</b>
<b>SYSTEM REQUIREMENTS</b> .....	<b>6</b>
<b>RECON ENGAGE WEBSITE</b> .....	<b>6</b>
<b>GET STARTED / ACTIVATE YOUR JET</b> .....	<b>7</b>
<b>RECON ENGAGE MOBILE APP</b> .....	<b>7</b>
<b>ADDITIONAL FEATURES:</b> .....	<b>7</b>

ACTIVITY FEED.....	7
LIVE FRIENDS TRACKING.....	7
<b>SMARTPHONE CONNECTION .....</b>	<b>8</b>
<b>ON THE JET .....</b>	<b>8</b>
FEATURES.....	8
<b>PRE ACTIVITY LEVE .....</b>	<b>9</b>
CUSTOMIZABLE DASHBOARD .....	11
INSTALL NEW APPS.....	11
<b>TRACK A NEW ACTIVITY .....</b>	<b>11</b>
<b>ACTIVITY LEVEL.....</b>	<b>12</b>
DASBOARD.....	12
HD CAMERA.....	12
MPAS .....	12
SHARING TO FACEBOOK .....	13
<b>ANT+™ SENSORS .....</b>	<b>13</b>
CONNECT AN ANT+ DEVICE .....	13
<b>TROUBLESHOOTING.....</b>	<b>14</b>
GPS.....	14
AGPS (Assisted GPS) .....	14
FACTORY RESET .....	14
FACTORY RESET INSTRUCTIONS.....	15
<b>MAINTENANCE.....</b>	<b>15</b>
GLASS CARE.....	15
STORING YOUR DEVICE (OFF-SEASON) .....	15
<b>CHARGE IT UP.....</b>	<b>15</b>
USING COMPUTER.....	15
USING AC WALL CHARGER.....	16
<b>FIRMWARE UPDATES .....</b>	<b>16</b>

**SUPPORT ..... 16**

**FOR SERVICE AND SUPPORT, TUTORIALS, AND FAQs, VISIT:  
 HTTPS://RECONINSTRUMENTS.DESK.COM OR EMAIL  
 SUPPORT@RECONINSTRUMENTS.COM. .... 16**

**WARRANTY..... 16**

**BATTERY DISPOSAL INFPRMATION ..... 16**

**DEVICE INFORMATION ..... 17**

**TECHNICAL SPECIFICATIONS ..... 17**

**COMPLIANCE INFORMATION ..... 18**

**MFI COPY RIGHT INFO ..... 19**

**ANDROID COPY Right INFO ..... 19**

**BLUETOOTH SMART READY COPY RIGHT INFO ..... 19**

**WIFI COPY RIGHT INFO ..... 19**

**ANT<sup>+</sup> CERTIFIED ..... 19**

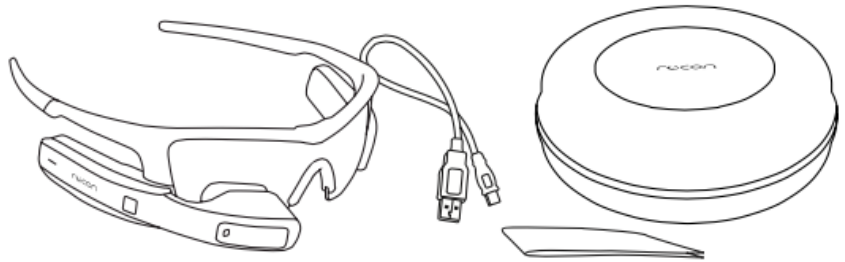
**SAFETY INFORMATION - WARNING TABLE ..... 20**

## WELCOME

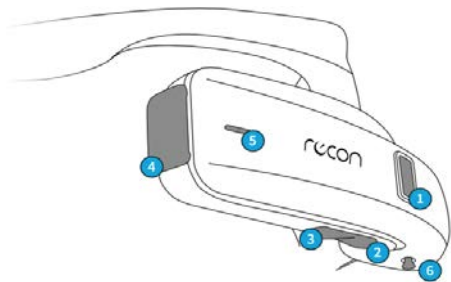
Recon Jet is the world's most advanced wearable computer for sports and high-intensity environments. Pioneering the smart glass category, Jet delivers information instantly, effortlessly and unobtrusively via a microcomputer and high-resolution widescreen display, direct to the user's eye, in real time. Post activity, connect Jet to Recon Engage to review and relive your experiences on our accompanying web platform. Here you can track, compare, and share socially what you've been doing on your outdoor adventures.

## WHAT'S IN THE BOX

- 1 x Recon Jet smart glass includes:
  - 1 x Jet smart glass frame
  - 1 x Jet Heads-up Display (HUD) module
  - 1 x Jet battery pack
  - 1 x Micro-USB cable
  - 1 x Micro-fiber cloth
  - 1 x Hangar – carry case



## JET SYSTEM FEATURES (HEADS-UP DISPLAY MODULE)



### 1. TOUCHPAD

- Use the optical touchpad to navigate Jet.
- Swipe forward and backward over the touchpad to navigate right and left between menu items on Jet.
- Explore vertical menus by swiping up and down on Jet's touchpad.

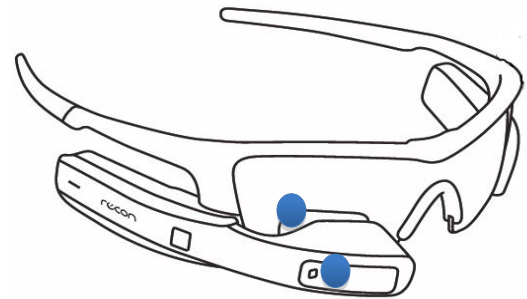
### 2. SELECT Button

- Use the SELECT button to enter a menu and further interact with dashboard screens.
- Press and hold the SELECT button to open the *Quick Nav* menu.

### 3. BACK Button

- Use the BACK button to visit a previous screen.
- Press and hold the BACK button to power Jet ON/OFF.
- Long press the BACK button to access the *Options* menu.

### 4. Micro USB Port



Open the cover to access the Micro-USB port that connects Jet to a computer and enables charging.

### 5. Status Indicator LED Light

When Red the LED light indicates Jet is CHARGING, while a White LED light indicates Jet is turned ON.

### 6. Display Control Column

Use the Display Control Column to adjust Jet's screen position to optimize visibility to your preference.

### 7. Display

Jet's display appears as a 30 inch HD screen at a distance of seven feet, and presents all your essential information, at a glance.

### 8. 720p HD Camera

Take pictures and record video while on the go with Jet's onboard camera.

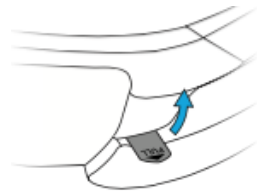
# SETTING UP JET

## IMPORTANT

Before going for that first ride or run with Jet, be sure to spend time familiarizing yourself with the device so that it does not distract you once you get moving. Jet presents glance-able information to users, which much like when you're driving a car you can choose to absorb at a time that's convenient and safe to you. It's essential that you become familiar with Jet's user interface, interaction paradigm, and features such as *Quick Nav*, so you can easily work the device. For your own safety, and the safety of those around you, always be aware of your surroundings.

### 1. REMOVE BATTERY PROTECTOR TAB

To start your Jet experience, first, remove the red battery protector tab.



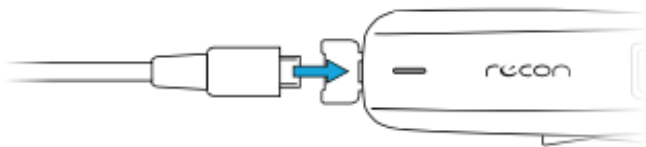
Pinch the tab and pull it upward to remove it from the battery pack module.

### 2. CHARGE JET

Connect Jet to your computer using the Micro-USB cable. The Red LED light indicates your Jet is charging. Jet's Red LED light turns off when the device is fully charged. Full charge = up to 4 hours.

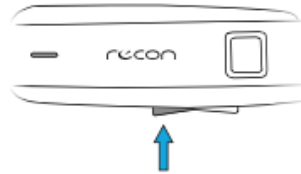
**WARNING:** Do not charge your Jet unassembled.

**WARNING:** Be sure to cover Jet's micro-USB port after charging Jet to prevent moisture entering the device, and the possibility of water damage.



### 3. TURN ON JET

To turn Jet on, press and hold the BACK button for approximately 3 seconds. Jet's White LED light will turn on and the screen will activate after approximately 5 seconds.



### 4. ACTIVATE YOUR JET

- a) Visit [reconinstruments.com/getstarted](https://reconinstruments.com/getstarted)

Here, create your Recon Engage account, download Recon Uplink Desktop App, and get the latest software for Jet.

- b) Download the Recon Engage Mobile App for iOS or Android from either the Google Play or Apple App Store to complete your experience.

### 5. COMPLETE STARTUP TUTORIAL

When using Jet for the first time, you will be prompted to watch a short introduction video that will familiarize you with Jet's interaction paradigm (touchpad and buttons).

### 6. TURN OFF JET

To turn Jet OFF, access the "Quick Option" menu by pressing and holding the BACK button, then select SHUTDOWN. Alternatively, press and hold the back button until Jet powers off.

**WARNING:** Do not attempt to remove the battery pack or *engine* prior to complete shutdown. This may damage your Jet permanently.



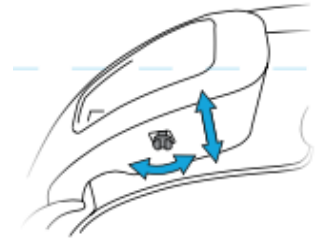
## CUSTOM FIT

### ADJUST JET'S DISPLAY

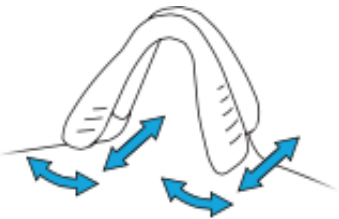


At the bottom of Jet's HUD module you will find the Display Control Column, which enables adjustment of Jet's screen to the most optimal position for your comfort and visibility.

Lightly squeeze and twist the Display Control Column to adjust Jet's display horizontally (left and right) and vertically (up and down).

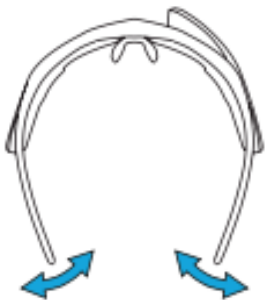


### ADJUST THE NOSE PIECE



Manipulate the nose piece to seat Jet comfortably on your face (while also keeping an eye on the display, in order to optimize Jet's position). If you experience that the screen is sitting too high up or low down on your face, you can widen (pull) or narrow (pinch) the nosepiece until you can view Jet's screen easily and effortlessly.

### ADJUST THE ARMS



The soft rubber ear stem extensions on Jet's smart glass frame are moldable. Adjust them to the exact contours of your head for a completely secure fit.

**WARNING:** Do not use prescription glasses while wearing Jet. This will reduce your field of view.

**WARNING:** Consult your doctor before wearing Jet if you have any allergies to plastic.

**WARNING:** Adjust Jet's fit on your face to avoid prolonged contact with either the Heads-up Display (HUD) or Battery Pack modules. Failing to do this may cause bruising in some cases.

**WARNING:** Do not wear Jet if the lens on your device is broken. Doing so may cause facial injury.

**WARNING:** Using Jet in extreme high (above 40 °C) or low (below -20°C) temperatures may permanently damage your device.

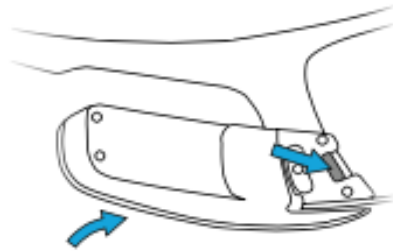
## Parts Assembly

Your Jet smart glass comes as a pre-assembled unit. Here we show you how to safely detach (reverse these steps to assemble) Jet's components - in case of engine, frame, lens, nose piece or battery replacement.

**WARNING:** Always be careful when removing Jet's engine or battery in order to avoid permanent damage to the frame or components of your device.

### BATTERY PACK

#### REMOVE THE ENGINE AND BATTERY

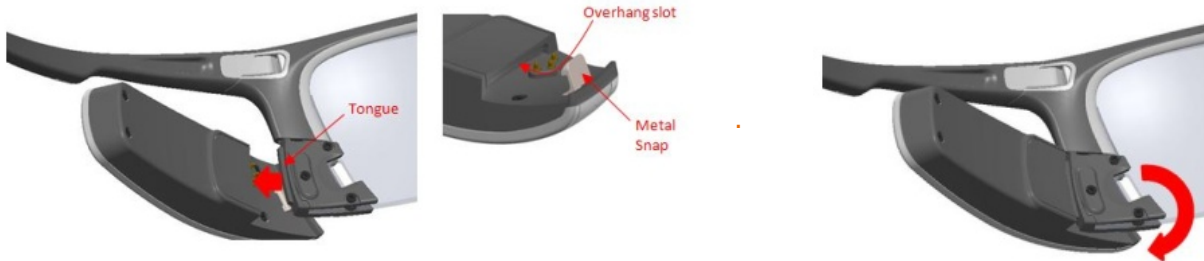


- 1-Gently push the release lever forward with your thumb.
- 2-Then, with the release lever pushed forward, rotate the battery or engine inward to release either the engine or battery of your Jet.

**WARNING:** Removing Jet's engine or battery while the device is **ON** or **CHARGING** may damage the components/device permanently.

#### RE-ATTACH THE ENGINE AND BATTERY PACK

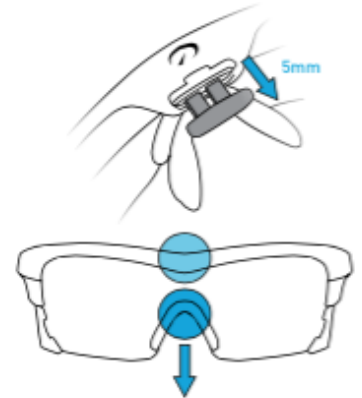
- 1- Hold the engine or battery with one hand and the frame with the other hand.
- 2- Line up the guttering featured on the engine or battery of Jet with the lip on the smart glass frame.
- 3- Gently rotate the release lever into its place on Jet's frame and snap the module into the frame.



## LENS

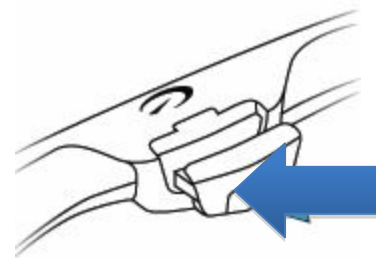
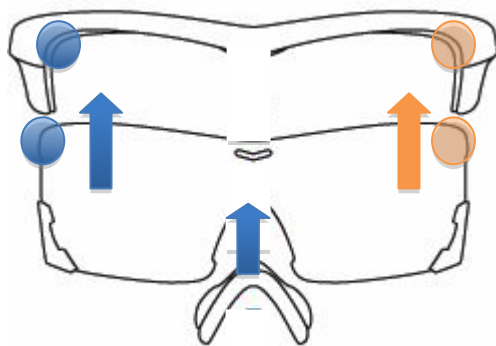
### REMOVE THE LENS

1. Remove Jet's engine and battery before removing the lens. (See page. xx).
2. Found at the center of Jet's frame there is a tab. Insert your fingernail into the slit found on top of the tab to open the lens release mechanism.
3. Gently pull the release mechanism back, approximately 5mm (1/4 inch) to release the pin that holds the lens into Jet's frame.
4. Grasp the center of the Jet frame (not the sides) with one hand. With the other hand, grasp the nose pads and nose bridge and then pull straight down to remove the lens from Jet's frame.



### REPLACE THE LENS

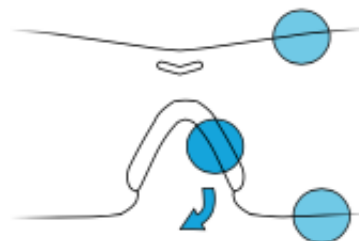
1. Make sure that Jet's lens release mechanism/pin is extended open.
2. Insert one side of the lens into Jet's frame. Follow this by pushing the other side of the lens into the opposite side of Jet's frame.
3. Secure the lens by pushing the release mechanism/pin into the lock position – pushed into the frame.



## NOSE PIECE

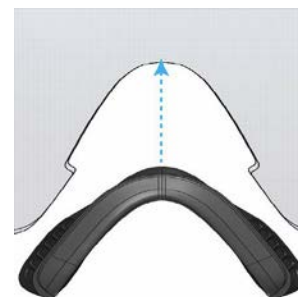
### REMOVE THE NOSE PIECE

1. Grasp the lens by its edges with one hand.
2. With the other hand, grasp one side of the nose bridge with your thumb and the corresponding nose pad with your pointer finger.
3. Rotate the nose piece down to release.



### REPLACE THE NOSE PIECE

Align the nose piece with the center of bottom of Jet's lens, and gently push it into place until it snaps in.



## GET CONNECTED - RECON ENGAGE

The great thing about Jet is, is that your experiences don't end when you finish your activity. By connecting Jet to your computer you can upload your trips, review your accomplishments, and socially share your experiences, pictures, and video via Facebook and Twitter.

Additionally, you can also pair Jet with your iPhone or Android smart phone to experience additional features such as: Live Friend Tracking, Text and Call Notification, Auto Trip Upload and much more, all while you're on the go! Download the Engage Mobile apps for iOS and Android from the Apple App Store and Google Play now.

## SYSTEM REQUIREMENTS

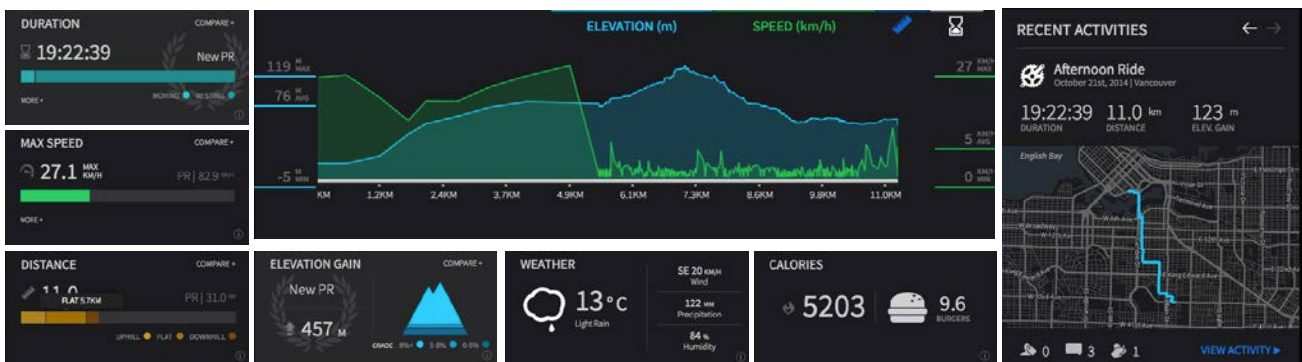
To activate your Jet, upload and save your trip data, and to keep Jet's software up-to-date, you will need a Mac or PC running the following:

- Apple Mac OS X v10.8 or later.
- Microsoft Windows 7 or later.
- Apple iPhone 4S or later – running iOS 7 or higher.
- An Android smart phone running version 4.1 or higher.

## RECON ENGAGE WEBSITE

Recon Engage accompanies your Jet experience, enabling you to analyze, relive, and share your activities across your social networks.

Visit [engage.reconinstruments.com](http://engage.reconinstruments.com) for more info, make your account, and get started.



## GET STARTED / ACTIVATE YOUR JET

Before taking your Jet for that first run or ride, you will need to register and activate it.

To get started, first visit: [reconinstruments.com/getstarted](https://reconinstruments.com/getstarted).

You will be walked through the following steps to register and activate your Jet:

1. Register for a Recon Engage account.
2. Download and install the Recon Uplink Desktop App on your computer.
3. Power up your Jet and connect it to your Mac or PC.
4. Register and activate your Jet – you will be prompted to do this by Recon Uplink.
5. Once you have installed the latest software version, that's it. Start piloting your Jet!

Keep track of your activities with the **Recon Engage website** and **Recon Engage mobile apps**. Check your trip history, compare your all-time bests, track your friends, and share your unique experiences with your friends.

## RECON ENGAGE MOBILE APPS

Download Recon Engage mobile apps from either the **Apple App Store** or **Google Play**

Download the Recon Engage mobile app now to benefit from additional functionality and features available for your Jet. Pairing Jet with your smart phone enables features that include real time friend tracking, incoming text and call notifications, and auto trip uploading to your Engage account.

### ADDITIONAL FEATURES:

1. Update your Recon Engage personal profile.
2. Track your friends in real time.
3. Review your accomplishments and view a breakdown of your stats.
4. Cheer your friends for their accomplishments.
5. Share your accomplishments with your friends across your social networks.

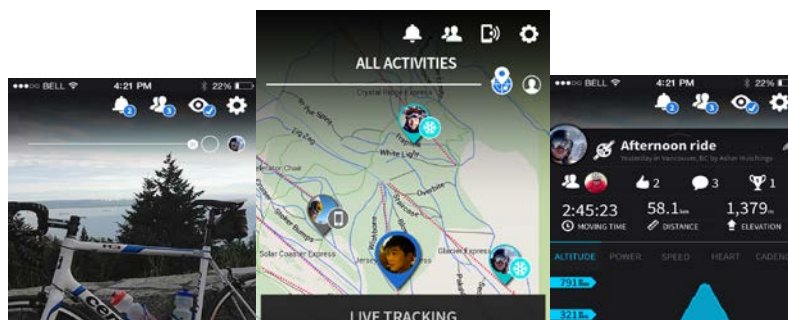
**OPERATIONAL NOTE:** *To achieve a quick GPS fix on your Jet, connect it to your smart phone via the Recon Engage mobile apps. Doing this will initiate the Assisted GPS or AGPS, which will make it easier for your Jet to achieve a GPS lock on the second or third time that you run or ride – while prolonging battery life too!*

## ACTIVITY FEED

The **Activity Feed** gives you an overview of your recent trips as well as any friend's recent activities.

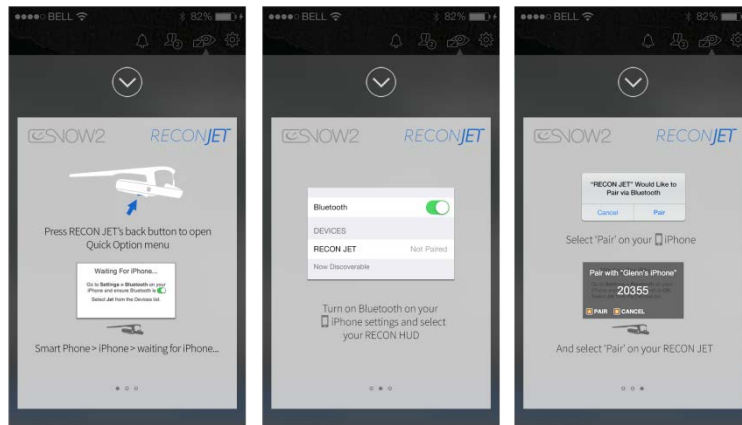
## FRIEND TRACKING

From **Live View**, enable Friend Tracking to view real time locations and activities of friends and family.



## SMART PHONE CONNECTION

1. Download the free **Recon Engage mobile apps** from either the Apple App Store or Goggle Play.
2. On your smart phone: Ensure that your Bluetooth is turned on.
3. On Jet: Access the "Options" menu, and select "Smart phone".
4. Select your smart phone type, and follow onscreen instructions to pair devices.



### Re-pair your smart phone:

Once Jet is turned off, or the **Recon Engage mobile app** has been closed, Jet will disconnect from your smart phone. In order to reconnect devices:

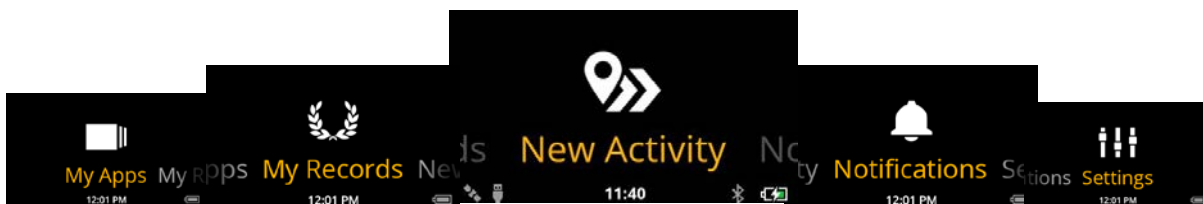
1. On your smart phone: Ensure that your Bluetooth is turned on. Open the Recon Engage mobile app.
2. On the Jet: Select "Reconnect" from the smart phone menu. It's as simple as that!

## ON THE JET

### FEATURES

Jet comes with five pre-activity display screens, while it also has two easy access menus, **Quick Nav** and **Quick Options**, which make Jet navigation easy and effortless.

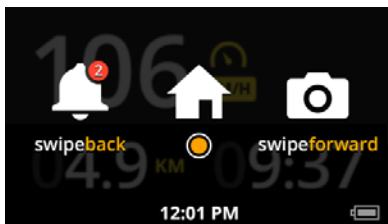
Use the touch pad to navigate through each of the following screens. (For more details see page xx)



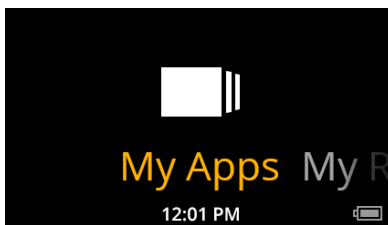
## PRE ACTIVITY LEVEL

Spend time familiarizing yourself with Jet before heading out for run or ride. Jet's user interface delivers glanceable information; 99.9% of your attention should always be focused on the road or trail, not on Jet's screen. In the same way that you don't stare at the dashboard of your car, don't stare at the Jet display. Become familiar with Jet's user interface, how to navigate through screens and how to use "Quick Nav" before going for a run, bike ride or any other activity.

**For your own safety and the safety of those around you, always be aware of your surroundings.**

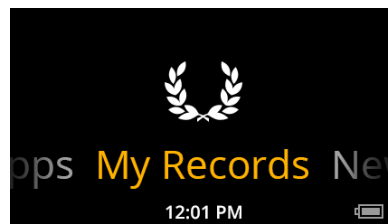


**Quick Nav** is your shortcuts menu that can be accessed by pressing and holding the SELECT button on Jet. From here you can access notifications, camera, and the "Home" menu (pre-activity).

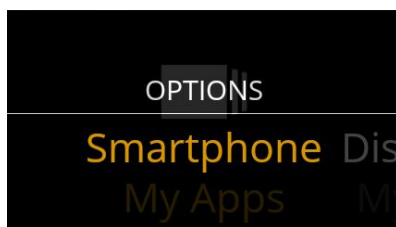


**My Apps** is where you can personalize your Jet. Start with Jet preset apps such as Alarm Clock, Timer, and Camera. Additional apps\*, including any Third Party Apps, are accessible here.

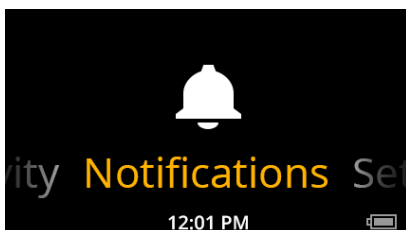
*\*Note: Third Party Apps for Jet are available to download from the Engage App Forum.*



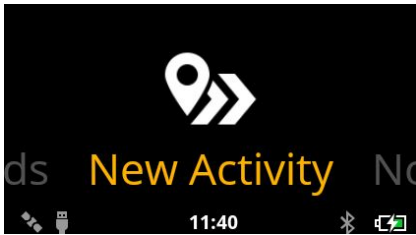
**My Records** keeps track of all your activities so you can review your trips in retrospect. A record of each activities metrics and location can be found here.



**Quick Options** is another shortcut menu providing easy access to smart phone connectivity, display off, and device shutdown. To access "Quick Options", press and hold the BACK button.



**Notifications Center** is where your texts, missed calls and notifications are stored/viewable. Review all your notifications here.



Start your trip by choosing a **New Activity** (Cycling or Running).



### **Settings:**

**Smartphone:** Connect your Android or iPhone to access Jet's smart phone features.

**Bluetooth:** Pair Bluetooth Devices and Manage Third Party Bluetooth Devices from here.

**Sensors:** Toggle between BLE and ANT+, and connect a new device from here.

**Display Brightness:** Here you can alter the brightness of Jet's display to suit your surroundings.

**Notifications:** Here you can enable/disable text and call notifications, or clear notifications as you wish.

### **Devices:**

- Wi-Fi: Connect to a Wi-Fi Network.

**Note:** Turn off Wi-Fi when it is not in use to prolong battery life.

- Compass: Calibrate Jet's compass.
- Battery: Check your battery level.
- Sounds: Enable/Disable the menu or notification sounds.
- Time: Automatically or manually set the time.
- Play Jet's video tutorial.
- About: Find technical information specific to your Jet including serial number, firmware version and more.

**Activity:** Here you can clear stats from all previously recorded runs and start fresh.

**User Profile:** Here you can change the units of measurement on Jet from metric to imperial or vice versa. Here you can also update your profile information such as name, height, weight and so on.

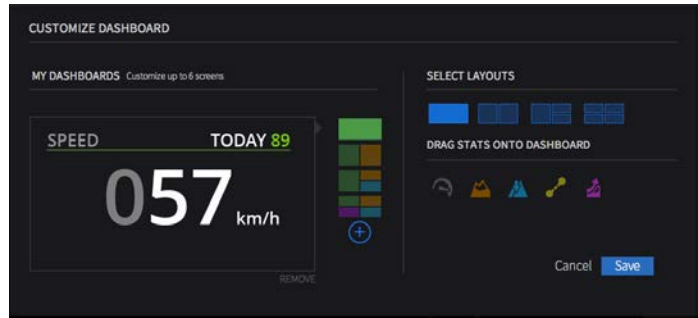
**Advanced:** Clear memory, uninstall apps, or perform a factory reset



## CUSTOMIZABLE DASHBOARD

Customize Jet's dashboard with the information that is most important to you.

1. Visit the Recon Engage website and go to the DEVICES > MANAGE HUD page.
2. Find your device and click on "CUSTOMIZE DASHBOARD".
3. Here, you can add and remove dashboard widgets featured on Jet and customize their layout. Click "SAVE" to confirm your selections.



4. Your newly created dashboard will be downloaded to your Jet the next time it's plugged in to your Mac or PC.

## INSTALL NEW APPS

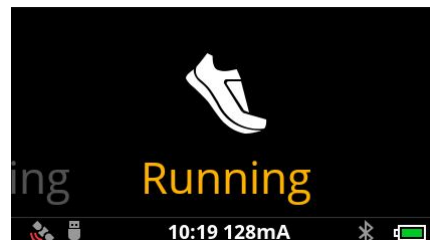
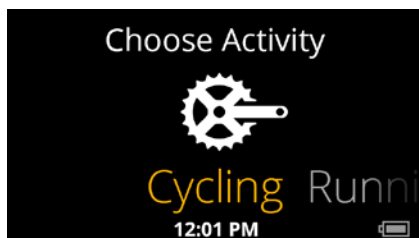
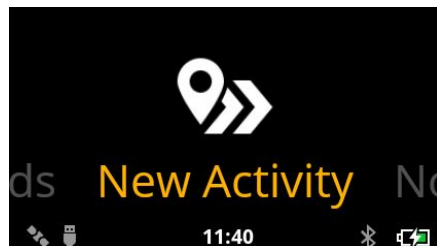
Visit [engage.reconinstruments.com](http://engage.reconinstruments.com) and navigate to the **Engage App Forum** to view and install new applications that have been developed for Jet. You can then download them to your Jet from here too.

**Note:** *Third Party App developers are responsible for provision and maintenance of their apps.*

## TRACK A NEW ACTIVITY

To start a new activity, press SELECT on "New Activity" and select your activity type, either **Running** or **Cycling**. Once you have acquired a GPS fix on your Jet (note: you need to be outside to achieve this), press SELECT to start recording your activity.

Whether **Running** or **Cycling**, Jet provides you with feature specific metrics, dependant on your activity.



## VIEW DAY IN PROGRESS AND FINISH

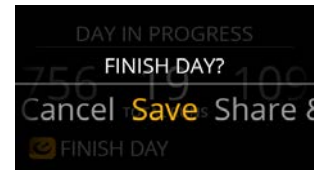
To view your activity while you are in progress, Pause your activity by pressing the SELECT button.

You will then be asked whether you would like to RESUME the activity, or VIEW DAY – swipe down to access your metrics.

You will be taken to your activity, titled “Day In Progress”, where you can see all your stats from your current activity.

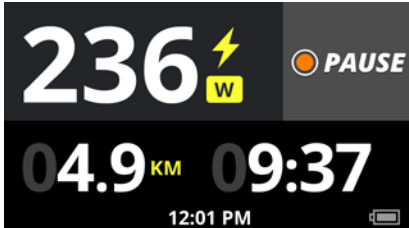
To finish your activity, press SELECT while on the “Day In Progress” screen. You will then be asked to confirm if you have finished your activity.

Here you can choose to Save, Share or Discard your activity.



**WARNING:** Do not remove the battery pack when Jet is on and recording an activity. To replace Jet’s battery, save your activity first, turn Jet OFF, and then replace the battery.

## ACTIVITY LEVEL



### DASHBOARD

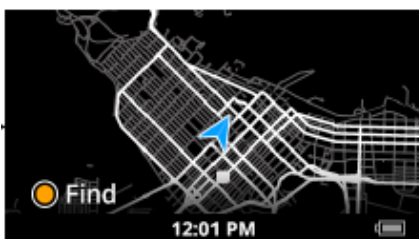
Jet’s **Metrics Dashboard** provides real time, direct to eye performance information including speed, distance, time, power, cadence, and more.

Use Jet’s touchpad to scroll DOWN and access alternative dashboard options.



### HD CAMERA

**720p HD video camera, integrated speaker, and microphone:** Access Jet’s camera from either the "Quick Nav" shortcut or "My Apps" section dashboard on the device. Press SELECT to take pictures and video during your activity. Never miss a moment.



### MAPS

**Maps** allow you to see the location of where you are, in real time. Swipe FORWARD when in the Metrics Dashboard to launch the maps.

## SHARING TO FACEBOOK

When your activity is complete you have the option to save or share your trip. Follow the onscreen instructions to instantly share your completed activity (including images, video, and stats) to Facebook and Twitter.



## ANT+™ Sensors

Jet supports the following ANT+™ profiles for 3rd party device connectivity:

1. Heart Rate Monitors
2. Bike Speed
3. Bike Cadence
4. Bike Speed & Cadence



## CONNECT AN ANT+ DEVICE

1. Turn the ANT+ device on
2. On Jet:
  1. Go to Settings > Sensors.
  2. Select the correct ANT+ profile, and connect.
  3. Start an activity.
  4. Check your ANT+ stats on Jet's Metrics Dashboard, in real time.

## Troubleshooting

### GPS

GPS technology works best in open spaces, when you have a clear view of the sky. Obstacles such as buildings and trees can degrade the signal. Assuming that you're outside when starting an activity, your Jet will automatically acquire a GPS fix. You will notice a red blinking GPS logo on your Jet that turns into a solid triangle upon achieving a GPS fix.

If you are having difficulty acquiring a GPS fix, take in to account the following circumstances:

- Your device is trying to acquire a fix for the first time.
- Your device has not been used for an extended period of time.
- Your device is being used indoors.
- Your device has traveled a long distance while being turned off.
- Your device is powered on indoors.

If you encounter any of these issues, in order to get a GPS fix, simply restart your Jet outdoors, in an open area and wait a few minutes.

### ASSISTED GPS – AGPS

AGPS helps to locate satellites within your local area, helping speed up the process of getting a GPS fix for your Jet. To activate AGPS, connect Jet to your computer and run the Recon Uplink desktop app. After syncing Jet with your Recon Engage account, Recon Uplink automatically transfers AGPS files to your Jet for your current location.

Alternatively, for quicker GPS fix, you can also connect Jet to a smart phone through Recon Engage mobile app to achieve the same result.

### FACTORY RESET

A factory reset clears all data that Jet has recorded. Performing a factory reset will clear your settings; uninstall any Third Party Apps, and restores Jet back to its default settings – the ones it was shipped with.

**Note:** You should back up any files that you have on your Jet on to your Mac or PC before performing a Factory Reset on your device. Also, make sure your Jet is fully charged prior to performing a reset.

## FACTORY RESET INSTRUCTIONS

ON YOUR JET: Navigate to **Settings**, scroll down to **Advanced**, and select "**Reset all content and settings**".

If you can't access your Jet's **Settings**, use the instructions below to perform a "Hard Factory Reset":

**Please read the instructions below before starting. Each step needs to be completed simultaneously to ensure a Hard Factory Reset of your device is initiated. If you miss any steps, please start again.**

1. Shutdown your Jet and unplug the USB (if attached).
2. Press the power button until you see the White LED blinking.
3. Let go of the power button and wait until the blinking stops.
4. Press the select button until you see the White LED blinking again.
5. Let go of the select button and wait until the blinking stops.
6. Press the power button until you see the White LED blinking once more.
7. Let go of the power button and wait until the blinking stops.
8. Press the select button until you see the White LED blinking, which will be faster this time.
9. Let go of the select button and wait until the blinking stops.
10. Your Jet will have then achieved a Hard Factory Reset, and can be turned on again.

## MAINTENANCE

### GLASS CARE

Jet is supplied with a woven microfiber cloth specially designed for storage and cleaning purposes. Only use fresh water and mild detergent when cleaning. Avoid the use of any harsh detergents or cleaning fluids. After cleaning and rinsing with fresh water, leave your Recon JET to air dry, or gently sponge dry using the supplied cloth.

---

### STORING YOUR DEVICE (OFF-SEASON)

Your Jet requires a full charge before storing it for an extended period of time. While we also recommend that you charge your device once every 2-3 months during the off-season. The ideal storage temperature range for Jet for a prolonged period of time is between 10°C to 20°C with a humidity level of 0.

**WARNING:** Storing Jet in non-ideal storage conditions may shorten the battery life, and in some cases damage Jet permanently.

**WARNING:** Always store your device in its original case to prevent frame deformation.

---

## CHARGE IT UP

### USING COMPUTER

1. Turn your Mac or PC ON (ensure it is not on stand-by mode).
2. Insert the micro-USB cable into Jet's micro-USB port, and then plug the USB it your Mac or PC's USB port.
3. Check to see that the Red LED light appears on Jet - this indicates Jet is charging.
4. Charge Jet until the Red LED light turns off - this indicates your Jet is fully charged.
5. If your computer does not recognize your Jet, try disconnecting and reinserting the USB cable.

**NOTE:** In optimal conditions, Jet can achieve a fast charge (80% of battery) connected to your Mac or PC within one hour. Meanwhile, your Jet will be fully charged after a recommended four hour period.

**WARNING:** Using a different Micro-USB cord, other than the original cable provided, may shorten the battery life, and in some cases damage the Jet permanently.

**WARNING:** Do not charge your device with Jet's components unassembled. This will damage your Jet permanently.

**WARNING:** Do not overheat your device; this may cause thermal runaway or explosion in some cases.

**WARNING:** Do not charge your device in low or high temperatures (i.e. below 0°C or above 40°C).

**WARNING:** After charging your device, enclose the USB protection cap tightly to prevent water entering Jet.

**WARNING:** If the battery seems damaged or inflated, stop using it.

## USING AC WALL CHARGER

Alternatively, you can use an AC wall charger with an output of 1A and 5V.

## FIRMWARE UPDATES

Recon Uplink automatically updates your Jet to the latest available software version each time you connect it to your Mac or PC. Recon Uplink notifies you if there is any new updates available for your device.

## SUPPORT

For service and support, tutorials, and FAQs, please visit: <https://reconinstruments.desk.com> or email [support@reconinstruments.com](mailto:support@reconinstruments.com).

## WARRANTY

Find the terms and conditions of Jet's warranty, here:

<https://reconinstruments.desk.com/customer/portal/articles/1136318--recon-warranty-services>

## BATTERY DISPOSAL INFORMATION



Visit the following link below for Jet battery disposal information:

<https://reconinstruments.desk.com/customer/portal/articles/843025>



Jet is powered by a lithium-ion battery. If you are done using the device, it should be taken to a recycle center for proper and safe disposal.

## DEVICE INFORMATION

### TECHNICAL SPECIFICATIONS

#### On-Boarding Sensor Framework

9-Axis sensors (3D accelerometer, 3D gyroscope, 3D magnetometer)

Pressure sensor (Altimeter & Barometer Application)

Ambient temperature sensor

Optical touch sensor for UI control (Works in all weather conditions and with gloves on)

#### Embedded Audio & Video

HD camera

Integrated speaker and microphone

#### Ultra-Compact Display

Wide screen WQVGA display

Virtual image appears as 30" HD display at 7'

Power-saving sleep mode

High contrast and brightness for readability in high ambient lighting

#### Processor Subsystem

1 GHz Dual-core ARM Cortex-A9

On-board memory (1GB DDR2 SDRAM, 8GB flash)

#### Networking Subsystem

Wi-Fi (IEEE802.11a/b/g/n)

Bluetooth 4.0 (Bluetooth Smart) - Apple MFi

Bluetooth support

GPS ( MEMS GPS/INS Kalman filtering fusion algorithm)

ANT+ (Support for connectivity of up to 8 ANT+™ peripherals)

Micro USB (Device charging /power - Data transfer)

#### Power Requirements

Battery Type - UN3481 Lithium Ion Batteries packed with equipment in compliance with Section II PI966.

The battery is 1.81 WH (470mAH) Battery Weight - 15 grams each

## COMPLIANCE INFORMATION



### FCC Compliance Class B Digital Device

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### FCC Declaration of Conformity

Jet (FCC ID: ZW5009) comply with FCC standard CRF 47 Part 15 subpart B and subpart C - section 15.249. Operation is subject to the following two conditions:



The RCM indicates a device's compliance with applicable ACMA (Australian Communications and Media Authority) technical standards-that is, for

telecommunications, radiocommunications, EMC and EME-and with applicable state and territory electrical equipment safety requirements.

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

### Industry Canada Compliance



Jet was certified with IC numbers 9717A-009. This device complies with Industry Canada 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.

Cet appareil est conforme avec les normes de l'Industrie Canadienne sans les standards RSS (s). L'utilisation est soumise aux deux conditions suivantes: (1) cet appareil ne peut pas provoquer d'interférences et (2) cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.



### Japanese Radio Law and Japanese Business Law Compliance

Jet (R: 202-SMC093, T: D 14-0053 202) is granted pursuant to the Japanese Radio Law (ordinance of MPT No. 37,1981) and the Japanese Business Law (Article 56, Paragraph 1).



## **MFI COPY RIGHT INFO**

“Made for iPhone” means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple’s performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with an iPhone may affect wireless performance.

iPhone is a trademark of Apple Inc., registered in the U.S. and other countries.

## **ANDROID COPY Right INFO**

Android™ is a trademark of Google Inc.

## **BLUETOOTH SMART READY COPY RIGHT INFO**

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Recon Instruments is under license. Other trademarks and trade names are those of their respective owners.

## **WIFI COPY RIGHT INFO**

The term Wi-Fi® is a registered trademark of the Wi-Fi Alliance®.

## **ANT+ CERTIFIED**



This product is ANT+™ certified.

## SAFETY INFORMATION - WARNING TABLE

The voluntary consensus standard for warnings in the United States is American National Standards Institute Z535.6-2011. That standard addresses how to organize and write warnings and which signal words and symbols to use. The most important part is the recommendation that each warning state, in readily understandable language, (1) the hazard, (2) the consequence of meeting the hazard, and (3) how to avoid the hazard. The standard is not mandatory but the failure to follow it could lead to tort liability in the United States.

The below table is the first step in putting together warnings. It identifies the three fundamentals of warning for each hazard. To complete this step on Recon's end, the engineers and executives familiar with potential hazards need to review this table for completeness and accuracy. The next step will be writing the actual warnings, ideally in plain, easy-to-understand language.

The hazards are not listed in any particular order.

	Hazard*	Consequence of Hazard	How to Avoid Hazard
1.	<b>Increased reaction time.</b> Viewing the may increase reaction time.	Could cause failure to detect a hazard or decreased time to react, which could result in an accident and serious injury or death.	To ensure you have enough reaction time, only look at the when you are clear of traffic, pedestrians, and road hazards.
2.	<b>Impact.</b> The lenses on Jet are impact resistant but are not intended to serve as safety glasses, for instance on a construction project. but are not safety glass rated.  Facial injury could occur in an accident due to proximity of Jet, especially the display module, to the face.	Damage to the eyes or face in an accident or impact to the device.	Pay attention and ride safely.  Do not use Jet as safety glasses.  Jet may not protect your eyes from a serious impact to the face in an accident.
3.	<b>Removal of hands from bars; loss of control.</b> Removing a hand from the handlebars to use the buttons on Jet can cause loss of control.	Loss of control and distraction, which could cause an accident and result in serious injury or death.	Do not remove your hands from the handle bars to configure Jet or change settings until you have come to a complete stop in a safe place.  Set up the device before your ride with your ride preferences to avoid the need to remove your hands from the bars.
4.	<b>Unnecessary risks.</b> Users may take unnecessary risks to improve speed.	Loss of control and distraction, which could cause an accident and result in serious injury or death.	Pay attention and ride safely. Always ride within your comfort zone and pay attention to your surroundings.
5.	<b>Navigation distraction.</b> Errors in the map or GPS data could result in navigation data not matching roads and cause distraction.	Loss of situational awareness or control, resulting in accident.	Always pay attention to the road. Come to a complete stop in a safe area if you need to find your location or figure out directions.
6.	<b>Overheating.</b> Jet should not overheat in normal use. If you experience any thermal discomfort, the unit may have a temperature problem.  Battery could be damaged if you	Skin damage.  Fire or explosion.	If you feel any thermal discomfort or Jet seems hotter than normal, discontinue use and contact Recon for assistance.  Do not overcharge the battery. If

	Hazard*	Consequence of Hazard	How to Avoid Hazard
	overcharge the unit.		the battery is damaged (e.g. visible damage to exterior or overheating during charging), stop using the device immediately.
7.	<b>Leaking battery.</b> Battery could leak if punctured or damaged.	Fire or rapid release of pressurized gas.	Stop use immediately if you see any sign of battery damage. Do not use until the battery is replaced or repaired.
8.	<b>Shock.</b> Plugging in the USB cable while wet could cause electrical shock.	Electrical shock, which may result in serious injury or death.	Do not plug in the USB cable when Jet, the cable, or you are wet.
9.	<b>Allergies to plastic.</b> If you have plastic allergies, the plastic used on the surfaces of the product (including the sunglass frame, frame arms, electronics, and battery module) may cause an allergic reaction.	Allergic reaction, skin irritation.	If you have a plastic allergy, consult your doctor before using Jet.  If you have an allergic reaction when using Jet, stop using Jet immediately and see your doctor before resuming use.
10.	<b>Eye strain.</b> The display shows an image to one eye only. If you look at the display too long, your brain may enter an unstable state known as "binocular rivalry."	Eye strain or damage.  [What is the consequence of binocular rivalry?]	Look at the screen for only short periods. Do not stare at the screen. If you have eye strain or discomfort, stop using Jet immediately and see your doctor if the condition persists.

**PFMEA safety information:**

Process Item	Potential Failure Mode	Potential Failure Effects	Severity	Potential Causes
In Use	Peripheral vision	User can't see blind spots	7	Unit limits range of peripheral vision
In Use	Display against face	Crash	9	User is using Jet for another sport
In Use	Display against face	Crash	9	Will users take unnecessary risks to improve speed?
In Use	Display	Helmet is not properly worn because of unit	10	Glasses interfere with helmet fit
In Use	Display against face	Crash	9	Map/GPS is incorrect and not paying attention to actual

				roads
In Use	Camera	Poor image quality	7	Protection of camera scratched
In Use	Display	Crash / motion sickness / head aches	9	Medical condition from watching image causes nausea, epilepsy
In Use	Display	Fuzzy display	9	medical condition, can't see display