



OAKLEY

AIRWAVE™ 1.5

BUILT-IN HEADS-UP DISPLAY GOGGLE

OWNER'S MANUAL



SPEED



BUDDY TRACKING



MUSIC



PHONE



NAVIGATION



VERTICAL



JUMP ANALYTICS



ALTITUDE



DISTANCE



TRIP VIEWER

⚠️ WARNING

Pay attention to what you are doing.

- Concentrating on the display while moving may distract you and cause injury or death to yourself or others.
- Always be aware of your surroundings, direction and speed.
- For winter alpine use only. Do not use product while driving, running, bike riding, or walking on uneven surfaces or stairways.
- Do not enter information, place phone calls or send messages while skiing, riding or boarding.

⚠️ WARNING

Not for children.

- This product is not intended for use by children age 12 or under.

⚠️ WARNING

**Do not wear with glasses.
Beware of eye strain.**

- This product is not designed to be worn with glasses. Doing so may result in serious injury including loss of sight, bodily injury or death.
- If you experience nausea or eye strain when using the product, take a break for several minutes. If these conditions remain, discontinue use and consult a doctor.

⚠️ WARNING

**This product uses Bluetooth technology to communicate
and may cause interference with other equipment.**

- SWITCH OFF IN HOSPITALS AND AROUND MEDICAL DEVICES. Wireless devices can cause interference with medical equipment. Keep the product turned off around medical equipment. Follow any restrictions posted in hospitals and health centers. If you wear a pacemaker, check with your doctor and the manufacturer of your pacemaker before using.
- SWITCH OFF IN AIRCRAFT. Keep the product turned off around helicopters or aircraft. Follow any restrictions posted in helipads and airports.
- SWITCH OFF NEAR BLASTING. Keep the product turned off in areas where blasting is in progress.
- SWITCH OFF BEFORE REFUELING. Keep the product turned off at gas stations, refueling areas or in areas where fuel and volatile chemicals, such as propane, are stored.

Bluetooth is a registered trademark of Bluetooth Sig., Inc.

Google Play is a registered trademark of Google, Inc.

Apple, Mac and iPhone are registered trademarks of Apple, Inc.

Microsoft Windows, Windows Vista and Windows are registered trademarks of Microsoft Corporation.

Android is a registered trademark of George T. Maurice, dba Android Laboratories.

Recon is a trademark of Recon Instruments.

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Welcome

The original Oakley Airwave™ took technology to new heights, and now Airwave 1.5 takes it to the summit of possibility.

Airwave 1.5 goggles combine world-class performance, protection and comfort with a heads-up display that integrates GPS, Wi-Fi, Bluetooth® and more with a host of onboard sensors to give you instant access to a world of information. The latest edition offers a broader range of connectivity, new integration with social media, enhanced display graphics and improved battery life.

You can find your location with preloaded maps available for hundreds of resorts worldwide, and even track others in your group. Measure your performance with sensor information that includes altitude, speed and vertical descent data, and view jump analytics that show distance, height and airtime.

We added onboard Wi-Fi to Airwave 1.5 so it can connect wirelessly to compatible devices. Bluetooth connectivity allows pairing with a compatible smartphone for immediate viewing of incoming calls and text messages, and if your Bluetooth-enabled smartphone has music, your playlists can be accessed and controlled.

Bluetooth is even better with Airwave 1.5. To accommodate the full bandwidth of more advanced iPhone® models, we added an integrated MFi chip. It improves the wireless connection by offering enhanced pairing, faster and more reliable data transfer, and easier transfer of web information from your iPhone to the Airwave display.

Are you a Facebook fan? With Airwave 1.5, you can see Facebook messages in real time while you are on the hill, and respond to them quickly via configurable, preset messages on the Airwave display. Other types of messaging are part of the handy consolidated view, including iMessage and SMS via your iPhone. Airwave 1.5 also lets you post graphics and messages to Facebook. Now when you beat your personal best, it will be known beyond the mountain. You can even receive real-time feedback when a friend “likes” your post.

The first time you use Airwave will be an eye-opening experience that will leave you in awe, and Prizm™ makes it possible. When you are active on the mountain, you will have clear and open vision without obstruction or distraction. When it is time to stop and review your performance or get vital information, you simply move your eye toward the miniature prism lens.

With the innovative Prizm™, the displayed information appears as though you are looking at a 14-inch display from a distance of five feet. And thanks to the horsepower of a new processor, things look even better on the new edition of Airwave. It has the same rich resolution, but graphics appear sharper and smoother, and video streaming is fast and fluid.

Oakley Switchlock™ Technology makes the lens changing process quick and hassle-free, allowing you to take advantage of our wide array of optional lens tints that optimize vision for environmental conditions. For maximized performance, F3 anti-fog technology is paired with a dual-vented lens, a premium design engineered with semi-flush geometry for wide peripheral vision. Oakley Plutonite® lens material filters out 100% of all UV light, and optional lenses with Iridium® coatings balance light transmission.

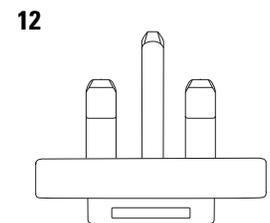
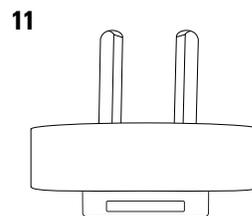
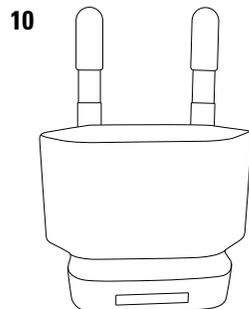
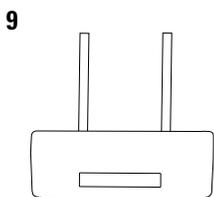
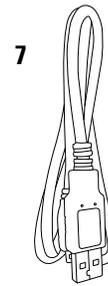
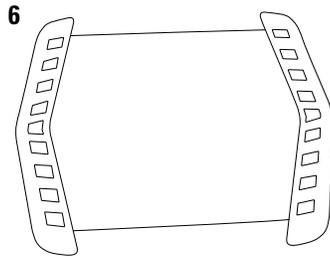
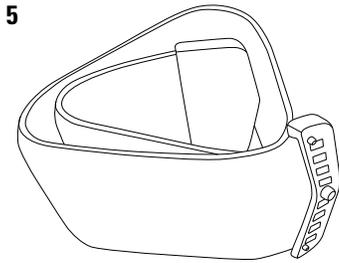
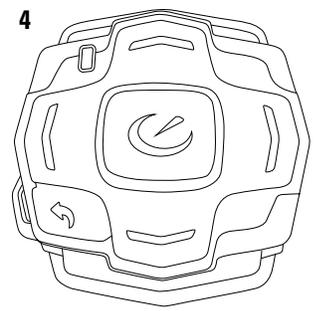
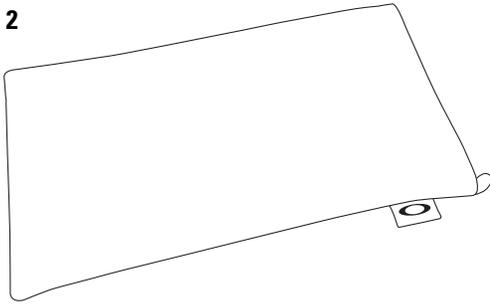
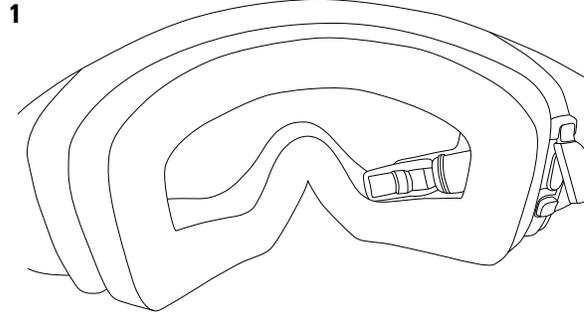
The durable chassis is made of lightweight O Matter™ that stays comfortably flexible, and O-Flow Arch technology reduces nasal pressure to improve airflow for free breathing. With fixed O Matter™ outriggers for the interchangeable strap design, you get a balanced fit – with or without a helmet – while a moisture-wicking triple layer of fleece foam at the facial contact zone provides all-day comfort.

Oakley Airwave 1.5 offers the ultimate in performance, convenience and capability. This is technology that adds fun to your alpine experience instead of getting in the way. Make the most of every moment on the mountain with Airwave 1.5, a world-class invention that delivers the goods straight to your brain.

IN THE BOX

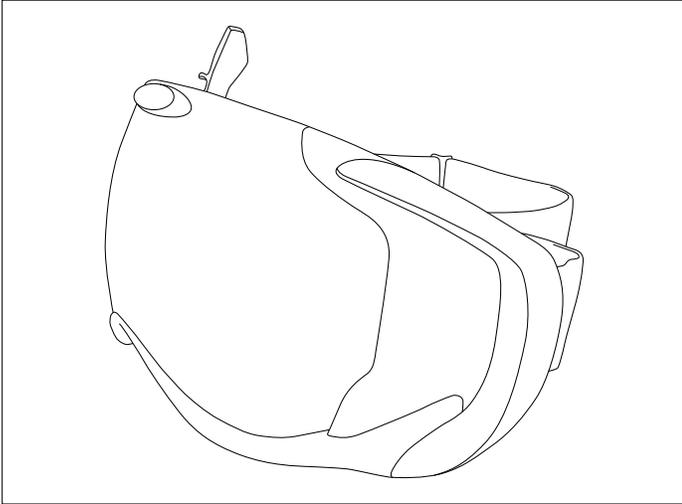
The following items should be included in the box:

1. Oakley Airwave 1.5 Goggle with Recon Snow 2 HUD
2. Goggle Microbag
3. Goggle Soft Case
4. Remote
5. Remote Wrist Strap
6. Remote Goggle Strap
7. USB Cable
8. Wall Charger
9. Adapter (North America)
10. Adapter (EU)
11. Adapter (AUS)
12. Adapter (UK)

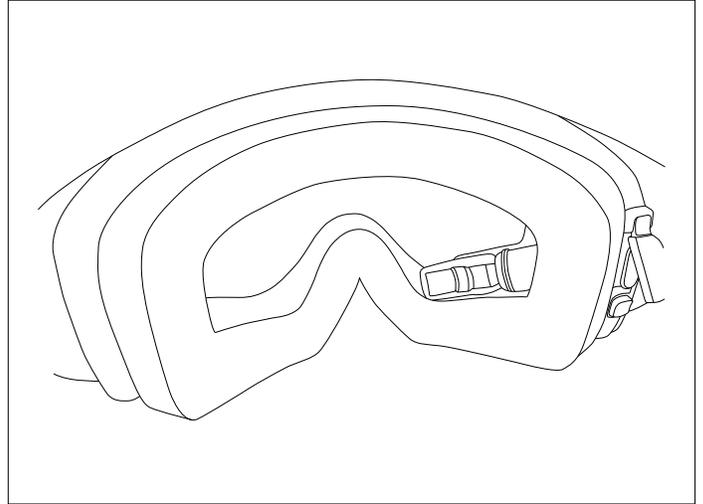


OVERVIEW

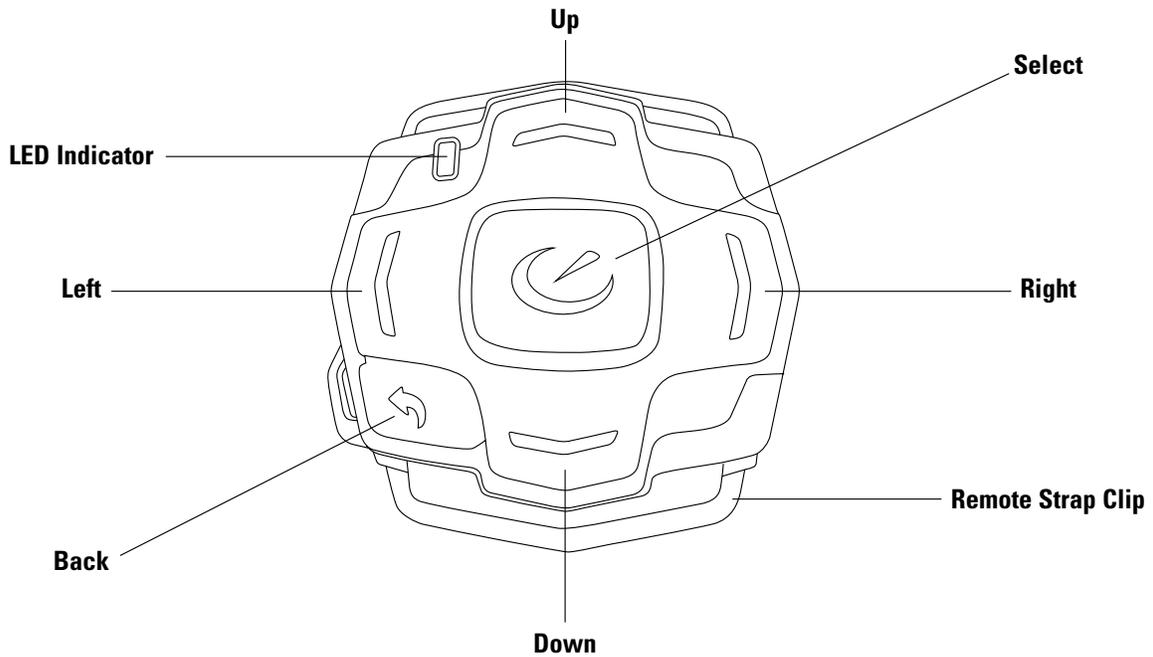
OAKLEY AIRWAVE 1.5



RECON SNOW 2 HUD



REMOTE



SYSTEM REQUIREMENTS

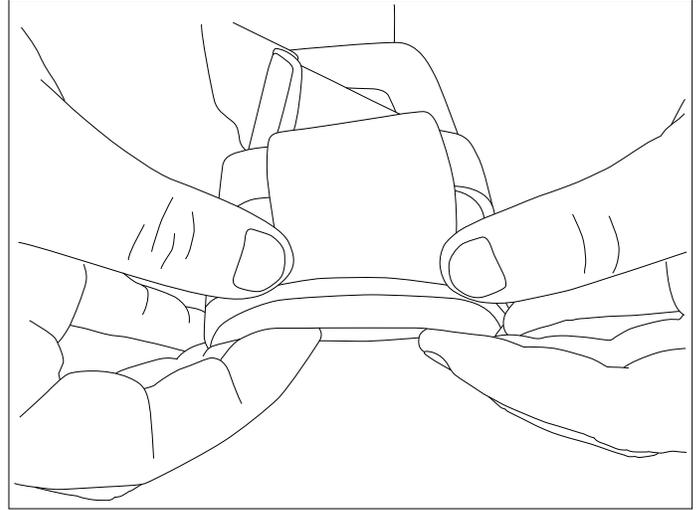
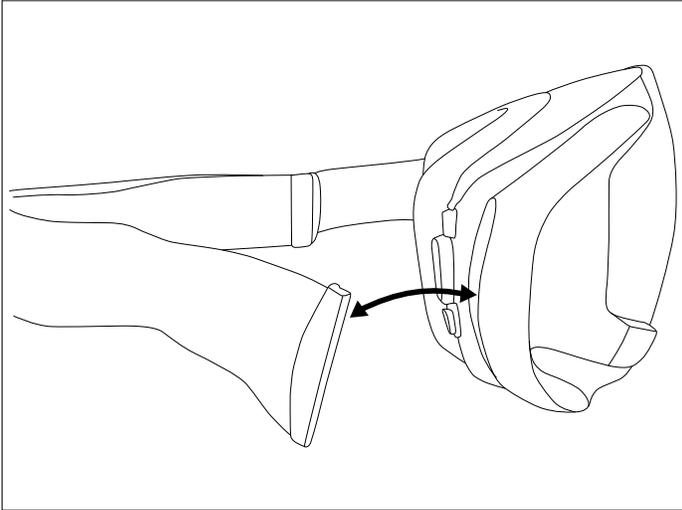
To use an Oakley Airwave 1.5, you will need:

- Apple Mac OS X v10.6 or later, Windows Vista or Windows 7
- *Optional:* Android Smartphone Version 2.3.5 (or later) or Apple iPhone 4S (or newer)

Set Up

CUSTOMIZE FIT

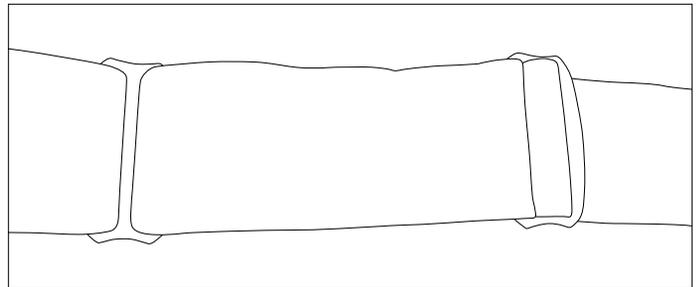
CONNECT GOGGLE STRAP TO THE OUTRIGGER



*Make sure the strap clicks into the goggle's outrigger.

ADJUST THE GOGGLE FIT

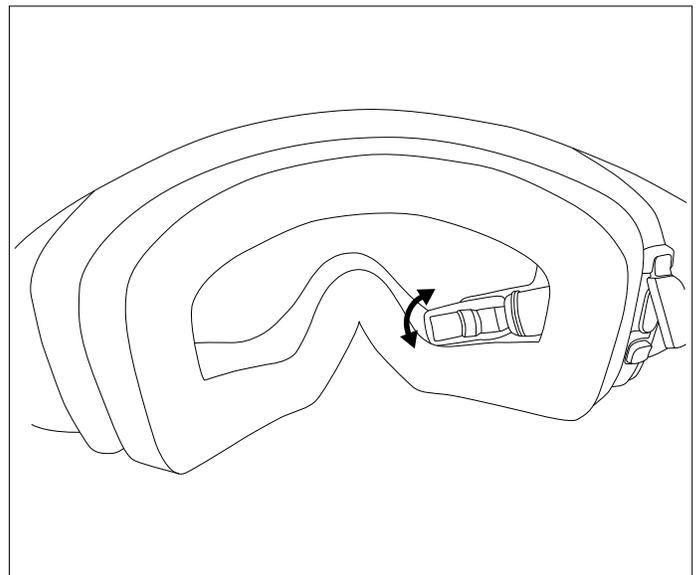
Adjust the strap sliders on the Oakley Airwave 1.5 strap, so the goggle fits comfortably and securely.



ADJUST THE RECON SNOW 2 HUD ORIENTATION

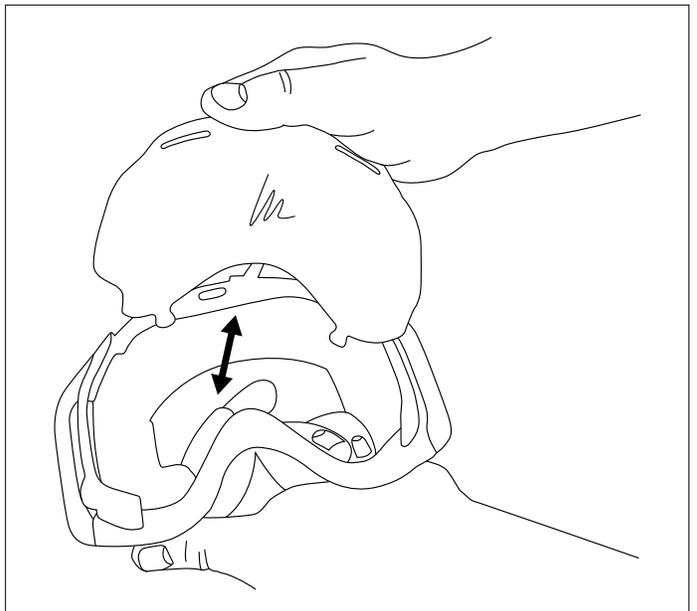
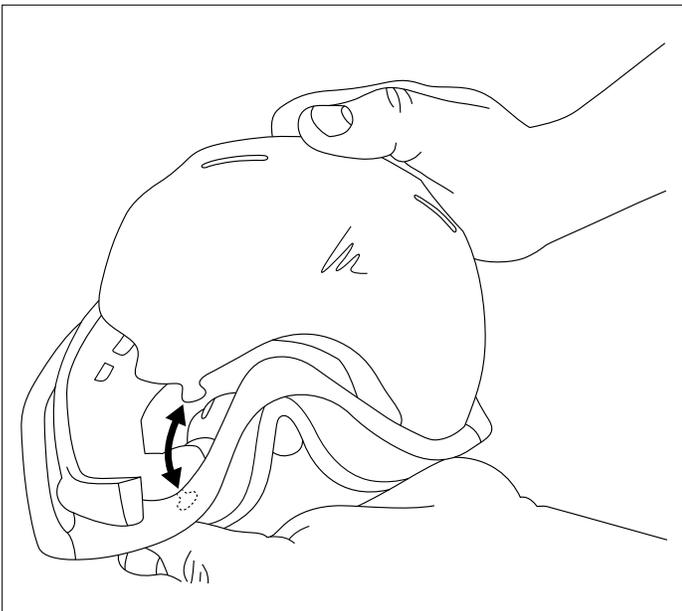
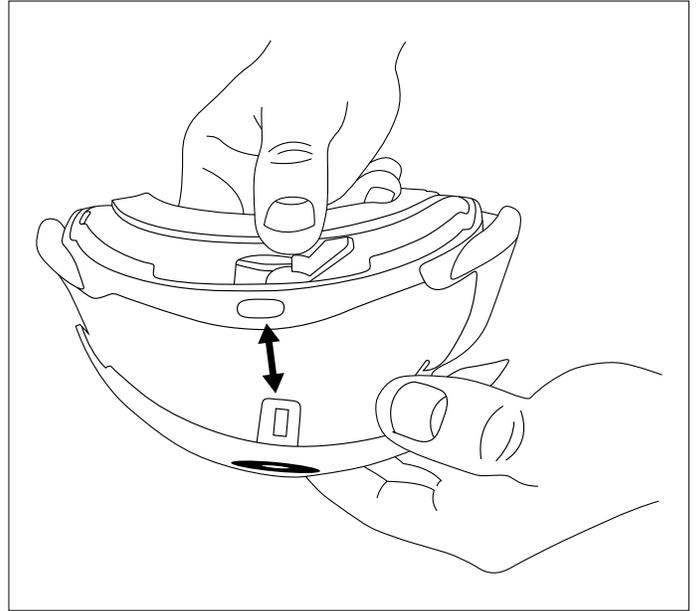
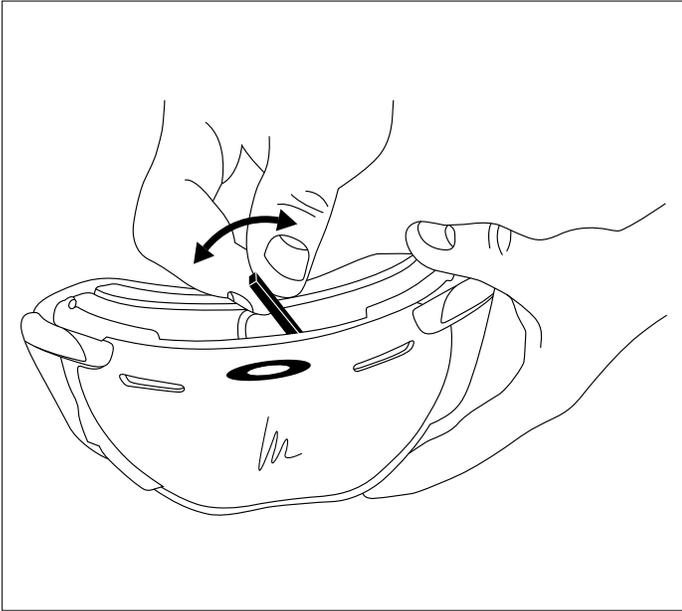
Turn on the Recon Snow 2 HUD by pushing the power button on the right side of the goggle for three seconds.

With your fingers, *gently* adjust the orientation of the Recon Snow 2 HUD until the screen is fully visible when you are comfortably wearing the goggle.



LENS CHANGING

LENS CHANGING INSTRUCTIONS

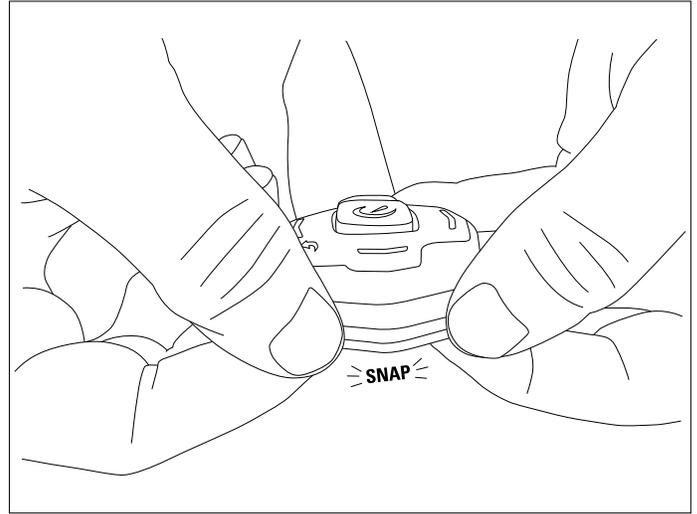
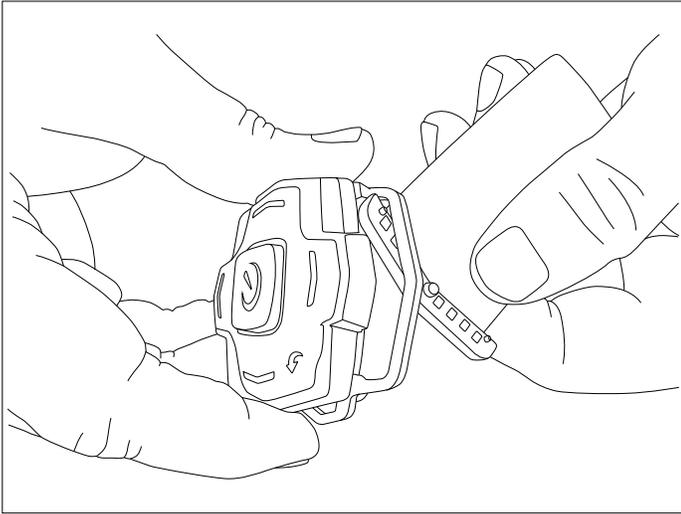


REMOTE

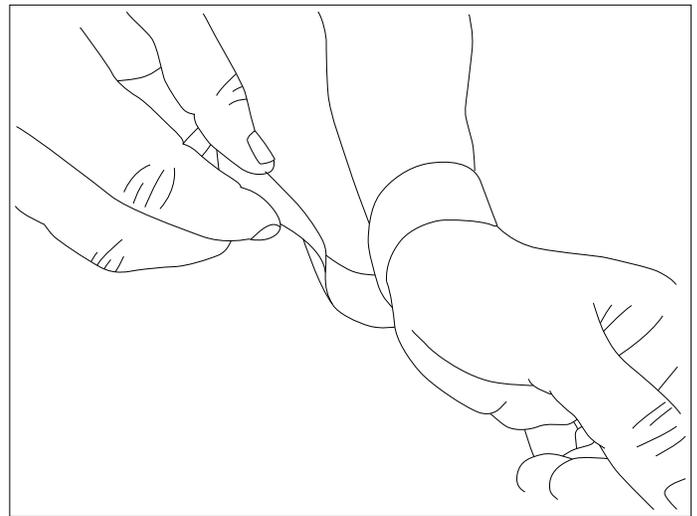
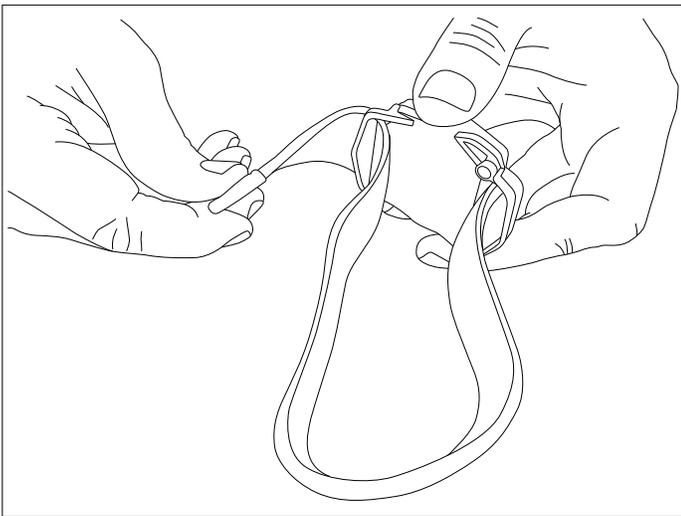
Pick a remote strap and activate the remote by pressing any button.

Choose your preferred remote strap (wrist or goggle) and snap-fit it onto the remote.

WRIST STRAP

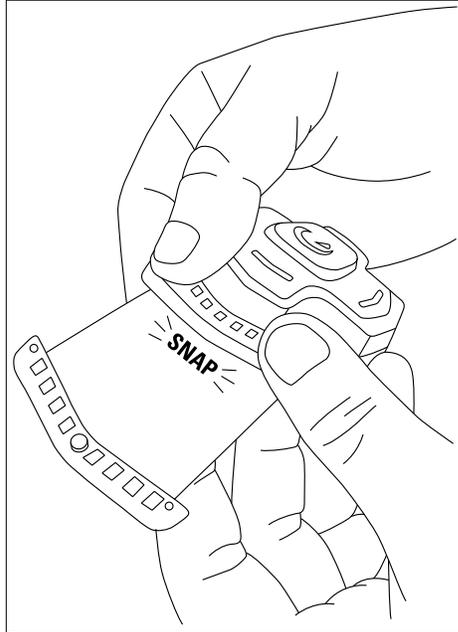
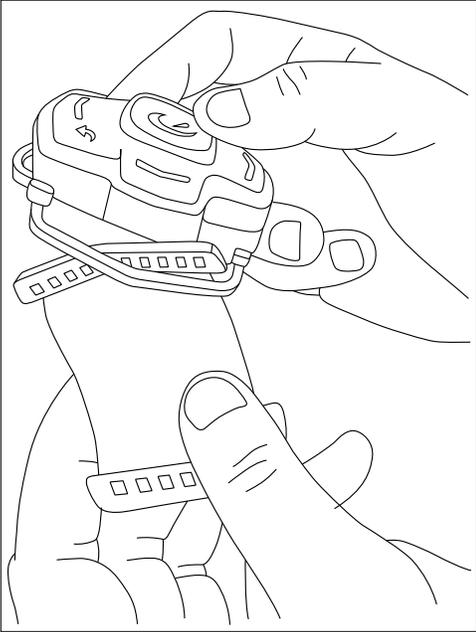


*You must hear the strap and remote click into place.

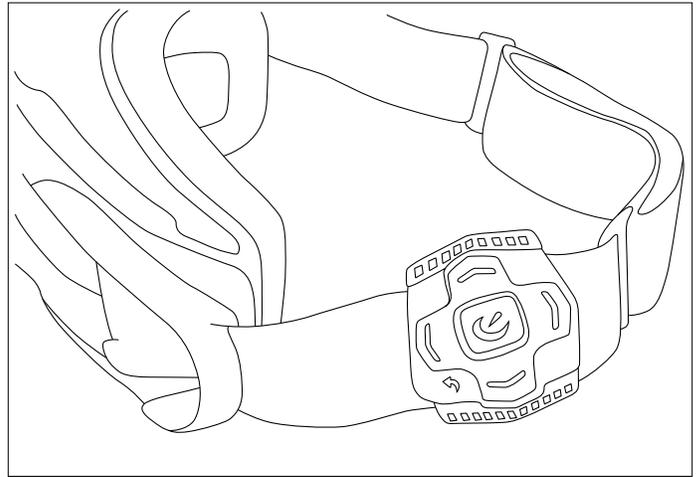
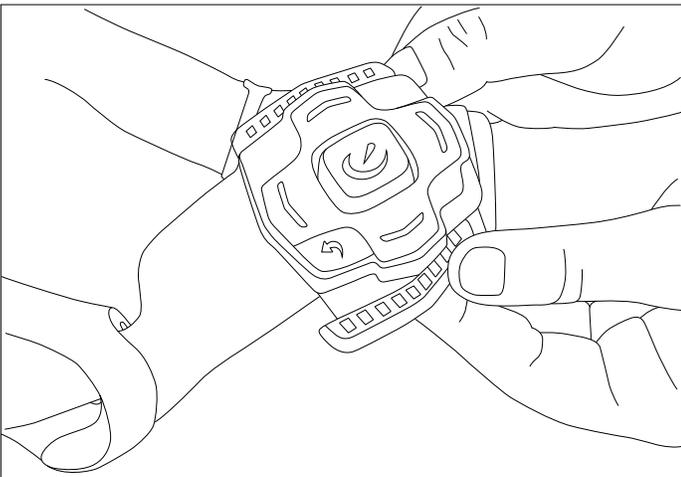


REMOTE (continued)

GOGGLE STRAP



*You must hear the strap and remote click into place.



GET CONNECTED

The experience doesn't end on the hill. Access the Recon Engage website and connect the Recon Snow 2 HUD to review and relive your trips. Here you can track, compare and share socially what you've been up to during all your alpine adventures.

You will need to activate the Recon Snow 2 HUD in your Oakley Airwave 1.5 before using connected features.

Plug your Airwave goggle into your computer via the provided USB cable.

Go to reconinstruments.com/airwave and follow the prompts to activate Recon Snow 2 HUD.

STEP 1: DOWNLOAD THE RECON UPLINK APP

When you create a new Engage account you will be prompted to download the Recon Uplink App. If you already have an Engage account, follow the instructions below to download:

1. Visit engage.reconinstruments.com
2. Log in and navigate to **DEVICES > MANAGE HUD** page
3. Click on "**DOWNLOAD UPLINK**" to download the Recon Uplink App (If you already installed the Uplink App then jump to the step 5)
4. Install the Recon Uplink App (Follow the on screen instructions)
5. Power up Recon Snow 2 HUD and connect it to your computer
6. Wait for Recon Uplink to detect that your Recon Snow 2 HUD is connected
7. Register your Recon Snow 2 HUD through Recon Uplink App and Recon Engage website (If not already registered)
8. Wait for the Uplink App to sync your data and update your Recon Snow 2 HUD if a new software update or latest maps version is available

STEP 2: DOWNLOAD RECON ENGAGE MOBILE APP

The Recon Engage mobile app (for Android and iOS) gives the Recon Snow 2 HUD expanded functionality such as music control and buddy tracking. You can use the Recon Engage mobile app to view a list of your accomplishments.

STEP 3: CONNECT TO YOUR SMARTPHONE

To unlock additional features on the Recon Snow 2 HUD, download the Recon Engage mobile app to your smartphone.

CONNECT YOUR ANDROID SMARTPHONE

1. Download the free Recon Engage mobile app from Google Play.
2. On the Recon Snow 2 HUD, go to **Settings > Smartphone Connection > Android**. Follow the on-screen instructions on the Recon Snow 2 HUD to begin set up.
3. On the Android smartphone, open the Recon Engage mobile app and select **Pairing**. Follow the instructions on the Recon Engage app to complete set up.

CONNECT YOUR IPHONE 4S (OR NEWER)

1. Download the free Recon Engage mobile app for iPhone from the App Store.
2. On the Recon Snow 2 HUD, go to **Settings > Smartphone Connection > iPhone**. Follow the on-screen instructions on the Recon Snow 2 HUD to begin set up.
3. On your iPhone, open the Recon Engage mobile app, sign in and select **Pairing**. Follow the instructions on the Recon Engage mobile app to complete set up.

STEP 4: DOWNLOAD APPS

The Recon Engage website enables you to download apps to the Recon Snow 2 HUD and customize your **Dashboard**.

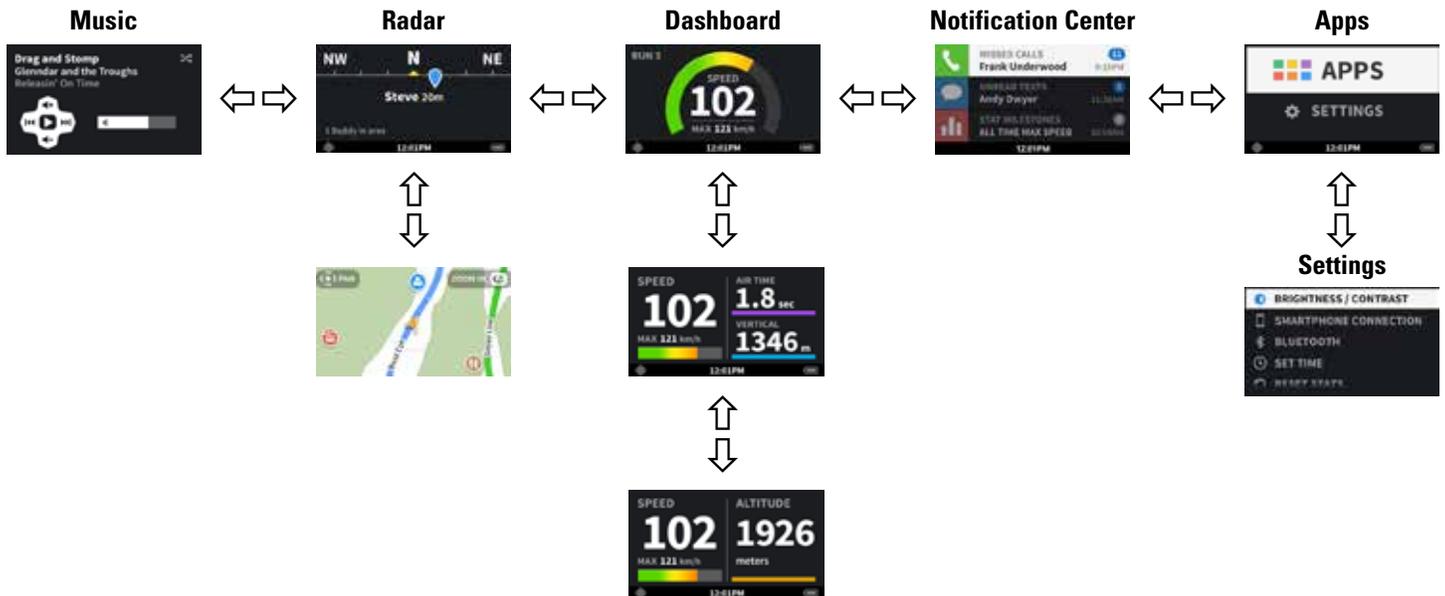
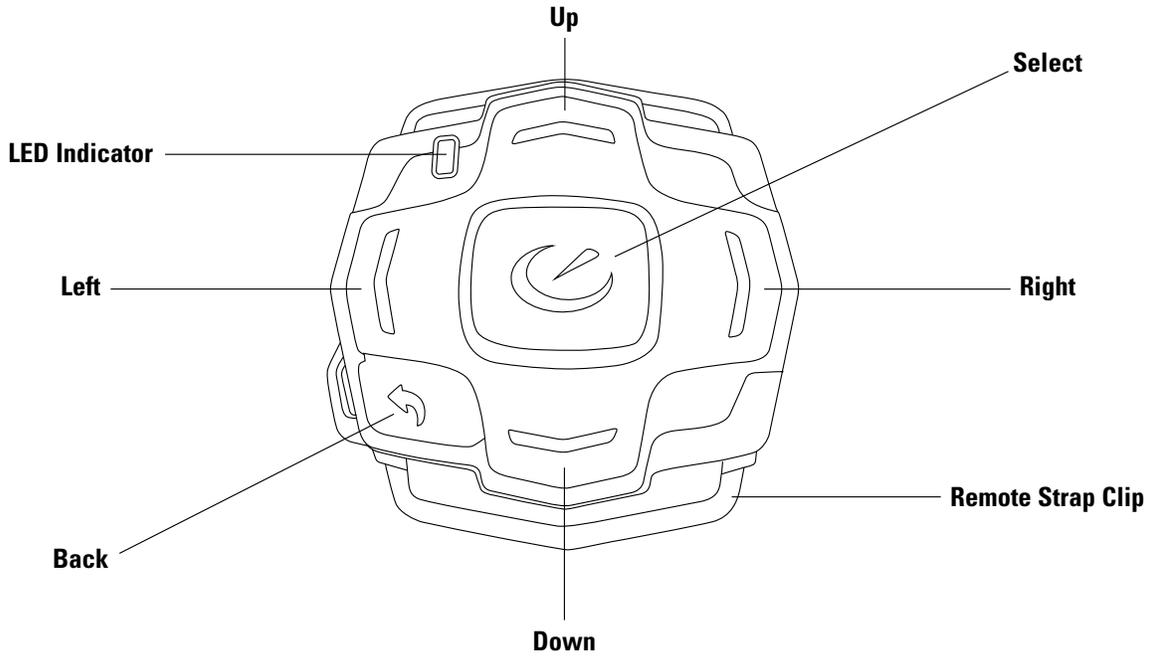
Please visit engage.reconinstruments.com for more information.

On the Recon Snow 2 HUD

FEATURES

The Recon Snow 2 HUD comes with five main display screens, each providing you with essential information as you hit the slopes. Use your remote to navigate through each of the following screens.

NAVIGATION MAP

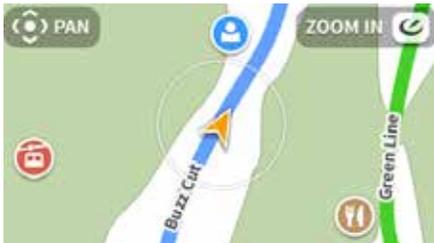


DASHBOARD



At the center of the Recon Snow 2 HUD sits the **Dashboard**. This is your home screen and central point of reference, displaying real-time information while you're on the slopes. The **Dashboard** comes with three pre-set screens with information including speed, altitude, vertical and more, direct to your eye.

RADAR



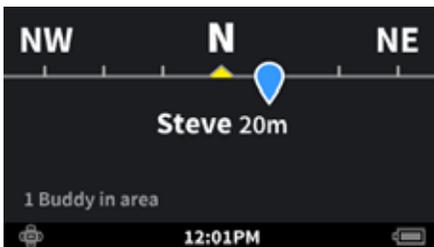
Built-in precision GPS makes **Radar** come to life, giving you information on your current location, full ski resort maps (where available) and buddies in your area.

Navigation: When you're at the resort, find chairlifts, restaurants and other points of interest near you.

Buddy Tracking: Find and track where your friends and family are on the hill so you can easily meet up. Buddy Tracking requires smartphone connection.

See maps for additional information.

COMPASS



The **Compass** tells you your heading. If you have Buddy Tracking enabled, you will see what direction your buddy is located and how far away they are.

MUSIC CONTROL



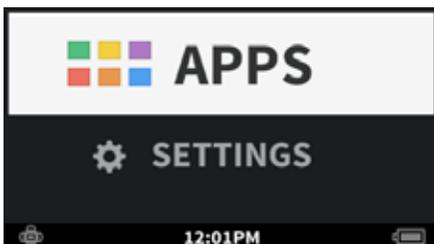
Control your favorite tracks by connecting the Recon Snow 2 HUD to your smartphone. Change songs and adjust the volume using the remote while you carve through the snow – all without removing your phone from your pocket.

NOTIFICATION CENTER



Notification Center automatically populates new achievements, incoming alerts and other stats so you can stay informed in one place while you're on the slopes.

APPS



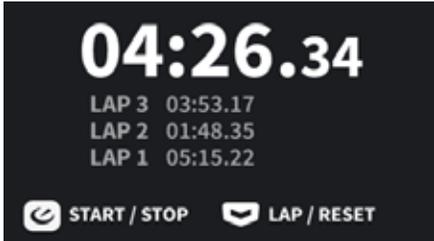
Apps is where you can personalize the Recon Snow 2 HUD. Start with Snow2's pre-set apps including **Tracker** and **Stopwatch**.

TRACKER

LAST RUN	TODAY	ALL TIME
RUN #	8	
MAX SPEED	109 km/h	
VERTICAL	41 726 m	
DISTANCE	120 75	

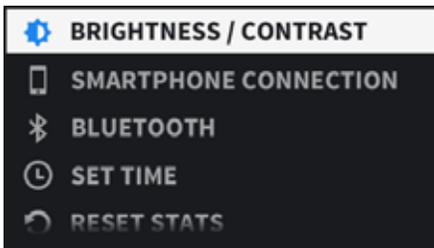
The **Tracker** enables you to review your important stats right from the Recon Snow 2 HUD. You can see stats for last run, your entire day or all time.

STOPWATCH



Record and save timed activity with **Stopwatch**. Lap your runs and compete against the clock across selected distance markers or completed runs.

SETTINGS



Adjust the settings for the Recon Snow 2 HUD.

Brightness – Here you can alter the brightness of the Recon Snow 2 HUD screen to suit your current surroundings

Smartphone Connection – Connect your Android or iPhone to access the advanced features on the Recon Snow 2 HUD

Bluetooth – Enable Bluetooth to connect third-party devices to the Recon Snow 2 HUD (ex: action sports cameras, heart rate monitors, etc.)

Set Time – Automatically or manually set the time on the Recon Snow 2 HUD

Reset Stats – Clear your stats from all previously recorded runs and start fresh

Set Units – Choose metric or imperial units to measure and display your real-time stats

Software Update – Manually assist in updating firmware on your Recon Snow 2 HUD

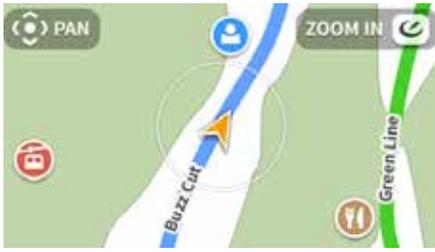
Compass Calibration – Access the calibration routine for the compass feature in **Radar**

About – Find technical information specific to your Recon Snow 2 HUD including serial number, firmware version and more

Help – Find tutorial videos on how to interact with your Recon Snow 2 HUD

Advanced – Clear space, uninstall apps or perform a factory reset

MAPS



On the **Maps**, you can press select to toggle between four different levels of zoom. You can pan throughout the map using the directional pad on your remote.

MAP LEGEND



EXPLORE MODE (ZOOMING & PANNING)

On the **Maps**, you can press select to toggle between four different levels of zoom. You can pan throughout the map using the directional pad on your remote.

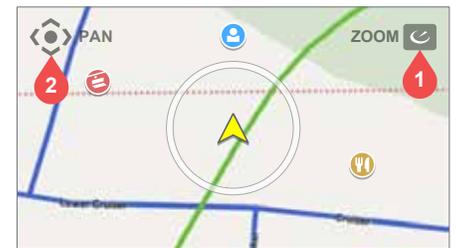
ROTATION MODE (DEFAULT STATE)



Rotation mode is the default state for the map, and appears as a top level dashboard. The user indicator will always be facing forward, and as the user moves around, the map will rotate around them.

1. Select button takes the user to Explore Mode. The orientation of the map will be locked as soon as the user enters Explore Mode.

EXPLORE MODE - PANNING/ZOOMING



This is where the user is free to interact with the map. The status bar is retracted in Explore Mode.

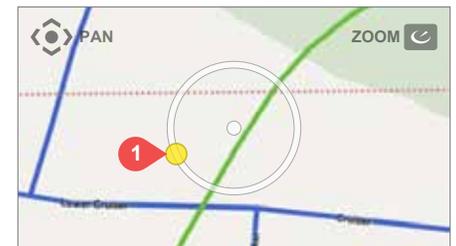
1. Select cycles the user through the four available zoom levels.
2. UP/DOWN/LEFT/RIGHT pans the user around the map.

EXPLORE MODE - HIGHLIGHTING



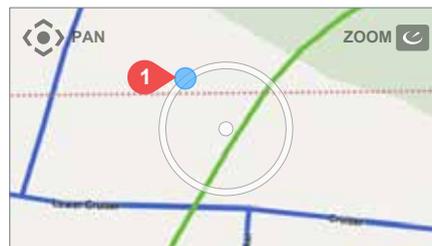
1. User has panned away from their location. The user indicator will rotate as the user turns (instead of the map).
2. When user rolls the center of the reticule over a map object, it will be highlighted by popping out into a pin.
3. The name and distance from user of the highlighted map object will appear at the bottom.

RETICULE BEHAVIOR - USER OFF SCREEN



1. If the user pans so the user indicator is off screen, the reticule will indicate the position of the user (relative to the current position of the reticule).

RETICULE BEHAVIOR - BUDDY OFF SCREEN

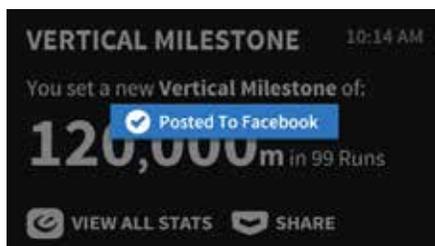
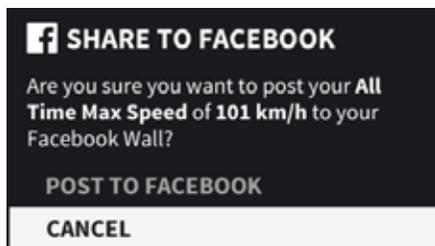
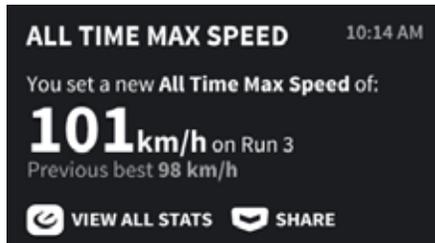


1. Any buddies that are at the resort, but off screen, will be indicated on the reticule (relative to the current position of the reticule).

FACEBOOK INTEGRATION (RECON SNOW 2 HUD - RECONOS 3.2)

With Recon OS 3.2, Facebook functionality is unlocked by logging in to the Recon Engage mobile app via Facebook and pairing with Recon Snow 2 HUD. When connected to Facebook and paired, a user can share their current activity information to Facebook in near real-time. This option becomes available after the first run via a notification and a new item in the Notification Center. In addition, when Max Stats (Altitude, Speed, Airtime, etc.) are achieved, they can be shared to Facebook from the Recon Snow 2 HUD, "Notification Center". On your Recon Snow 2 HUD you will also receive notifications for any "likes," comments or posts made to Facebook from the Recon Snow 2 HUD, as well as receive Facebook private messages.

SHARE ON FACEBOOK:



1. Update your Recon Snow 2 HUD to the latest software version from the Recon Engage website.
2. Update your Recon Engage App (on your Smartphone) through the Apple Store or Google Play.
3. Log in to your Recon Engage App on your smartphone via Facebook.
4. Now connect your Recon Snow 2 HUD with your smartphone.
5. Hit the slopes and record your best runs, speed, distance, vertical descent, etc.
6. You will be able to see these best stats in your "Notification Center" on your Recon Snow 2 HUD.
7. From "Notification Center" on your Recon Snow 2 HUD, select a stat that you would like to share to your personal Facebook page and Follow the "on screen" instructions.

Tips

BATTERY

A fully charged battery lasts five to six hours, even at temperatures down to $-10^{\circ}\text{C}/14^{\circ}\text{F}$. Usage under temperatures equal to or below $-20^{\circ}\text{C}/-4^{\circ}\text{F}$ will deplete the battery at a faster rate.

	Battery is fully charged
	Battery is nearly fully charged
	Battery is partially charged
	Battery is low
	Battery is extremely low
	Battery has no charge left
	Battery is charging using USB cable

To preserve battery life:

- Initiate power saving mode by turning off the display. Press the back button on your remote and select "Display Sleep" from "QUICK OPTION" menu. *Recon Snow 2 HUD will still record all your stats in this mode.*
- Power off the Recon Snow 2 HUD when not in use (at lunch or at the end of your trip, for example).

Note: The battery performance of the Recon Snow 2 HUD will vary depending on the amount and/or activity of connected Bluetooth devices (ex: smartphone, action sports camera, heart rate monitor, etc.).

REPLACING THE REMOTE BATTERY

You need to replace the remote's single three-volt CR2032 battery approximately every three years.

To replace the battery:

1. Using a coin or flathead screwdriver, turn counterclockwise until you reach the unlock symbol.
2. Remove the back cover.
3. Insert a replacement battery.
4. Replace the back cover.
5. Using a coin or flathead screwdriver, turn the cover clockwise until the arrow aligns with the closed lock symbol.



HUD Battery (3.7V Lithium Polymer Rechargeable)



Never attempt to service the Recon Snow 2 HUD yourself, including attempting to remove or replace the Recon Snow 2 HUD Battery.

Remote Battery (CR2032 3.0V)

Do not leave batteries in the remote for extended periods of non-use.



Do not use damaged, deformed or leaking batteries.

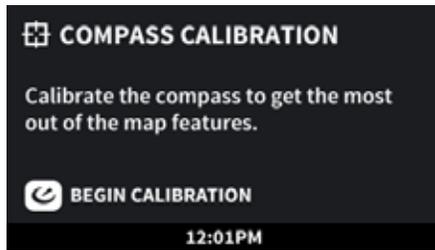
Dispose of the replaceable remote batteries in an appropriate and responsible manner.

Lithium ion batteries can be fatal if swallowed. Keep all batteries out of the reach of children.

VIDEO PLAYBACK

When you initially power on your Oakley Airwave 1.5, you will view a short video on the basic functions of the goggle. On initial startup, you have the ability to Replay Video or Continue. When you select Continue, the video is automatically turned off for future startup.

COMPASS CALIBRATION



In order to navigate using the resort maps in **Radar**, you will first need to calibrate the built-in compass.

The first time you use **Radar**, there will be an automatic prompt with a step-by-step guide to calibrating the compass.

If you need to recalibrate the compass after initial set up, you can access the Compass calibration tool in **Settings**.

STATUS BAR

	Battery	Battery is fully charged
	Bluetooth	Bluetooth is enabled
	Smartphone	Smartphone is connected
	Remote Connected	Remote is paired and connected to Recon Snow 2 HUD
	Remote not Connected	Remote is not paired and not connected to Recon Snow 2 HUD
	GPS	GPS is searching for a signal
	USB	USB connected
12:45	Time	Current local time
	WiFi	WiFi is connected

Troubleshooting

GPS

GPS technology works best in open spaces with a clear view of the sky. Obstructions such as buildings and trees can degrade the GPS signal. The Recon Snow 2 HUD will automatically acquire a GPS fix each time you use it.

	Searching for GPS	GPS signal will be flashing
	GPS Fix Acquired	GPS icon will disappear once GPS fix is acquired

If you are having difficulty acquiring a GPS fix, this may be due to several varying factors:

- The device is being used indoors.
- The device is trying to acquire a GPS fix for the first time.
- The device has not been used for an extended period of time.

If you have difficulty acquiring a GPS fix, try powering down the HUD and restarting it outdoors (away from obstructions if possible).

GPS Availability and Accuracy Warning



Maps, directions and location-based information depend on data services. These data services are subject to change and may not be available in all geographic areas, resulting in maps, directions or location-based information that may be unavailable, inaccurate, out of date or incomplete. Compare the information provided on the device to your surroundings, and defer to posted signs and notices to resolve any discrepancies.

FACTORY RESET

A factory reset clears all data that the Recon Snow 2 HUD has recorded. It also unpairs the remote, clears your settings, uninstalls any third-party apps, and restores the device back to the default settings.

- To perform a factory reset, go to **Settings > Advanced > Factory Reset**.

Note: you will need to pair the remote with the HUD after the factory reset is complete.

REMOTE PAIRING

The remote automatically comes paired with the Recon Snow 2 HUD, but if you perform a factory reset or happen to lose the remote and purchase a new one, you will be required to pair your remote to the Recon Snow 2 HUD again.

To unpair the remote, simultaneously press and hold the **Left** and **Right** buttons on the remote until you see the LED indicator on the remote flash amber. The Recon Snow 2 HUD status bar will have the **remote not connected** icon ().

PAIRING THE REMOTE TO THE RECON SNOW 2 HUD

Note: the ID number is printed on a white label on the back of the remote.

1. Power off the Recon Snow 2 HUD and power it on again.
2. Press any button on the remote and wait for a prompt on the Recon Snow 2 HUD to select one or more remote ID numbers.
3. Use the Recon Snow 2 HUD power button to scroll to the ID number that corresponds to your remote. A countdown will begin; wait for the counter to reach "0" on the Recon Snow 2 HUD screen.
4. Now check if the remote is paired:
 1. You will see the **remote connected** icon () on the left of the status bar.
 2. Press any button on your remote and you will see the remote LED indicator flash blue.

NOTICE

Maintenance

GOGGLE CARE

DO NOT RUB INNER LENS SURFACE WHEN WET.

If snow or water collects inside the goggle, follow these steps:

- Shake excess snow from the goggle interior. Clear all ventilation ports and lens vents.
- Use the Microclear™ bag that is included with your goggle to gently blot any remaining moisture.
- Allow time for moisture to dissipate. Once the goggle is put back on, keep moving as much as possible. Airflow through the vents will help dry the goggle.

YOUR NEW GOGGLE IS DESIGNED FOR RUGGED DURABILITY, BUT PRECISION INSTRUMENTS DEMAND PROPER CARE.

Follow these guidelines to maximize performance and longevity:

- Avoid resting the goggle on your forehead or hat. This reduces the efficiency of ventilation ports and exposes the interior to moisture vapor from melting snow and perspiration. To minimize fogging, keep the goggle on your face.

For proper cleaning and storage, remember the following:

- Do not use paper products, ski gloves or other abrasive materials to clean the goggle.
- Allow the goggle to air dry before storing for extended periods.
- Do not leave the goggle in areas of concentrated heat and sunlight, such as on a car dashboard or hanging from a rearview mirror.
- Protect the lens and face foam by storing the goggle in its protective bag or case.

STORING YOUR DEVICE (OFF-SEASON)

The Recon Snow 2 HUD requires a full charge before storing it for an extended period of time. We recommend that you charge your device once every two to three months during the off-season.

CHARGING

TO CHARGE YOUR DEVICE USING A PC OR MAC:

1. Turn on your computer and power off your device (ensure your computer is not in stand-by mode).
2. First, connect the micro USB cable to your device, then plug the USB cable into the USB port on your computer.
3. Check that a red LED light above the USB port appears; this shows that your device is charging.
4. Keep charging until the red LED light turns off; this indicates that your device is fully charged.

TO CHARGE YOUR DEVICE USING A WALL CHARGER:

1. Power off your device. Connect the micro USB cable to the Recon Snow 2 HUD, and then plug the USB cable into the wall charger shipped with your unit. Plug the wall charger into a wall outlet.
2. Check that a red LED light above the micro USB port appears; this shows that your device is charging.
3. Keep charging until the red LED light turns off; this indicates that your device is fully charged.

Note: In optimal conditions, the Recon Snow 2 HUD can achieve a fast charge (80% of battery) using your computer or wall charger in one hour. The Recon Snow 2 HUD can be fully charged after a recommended four-hour period.

FIRMWARE UPDATES

Visit www.engage.reconinstruments.com to download the Recon Uplink App and update the Recon Snow 2 HUD firmware.

Technical Specifications

Technical Specifications

Processing	TI OMAP 4 dual-core ARM® Cortex™ A9 1.0 GHz
Platform.....	ReconOS
Capacity/Memory.....	2 GB Flash
RAM	1 GB DDR2 SDRAM

Mechanical Specifications

Weight of the Unit	~65Grams (~2.3oz)
Storage Temperature Range	-20°C to 60°C (-4°F to 140°F)
Operating Temperature Range	-20°C to 30°C (-4°F to 86°F)
Vibration Resistance	4.4 g rms 5 Hz to 2000 Hz
Shock/Drop Resistance	40 g, 15-23 ms, ½ Sine (1m vertical drop)
Enclosure	Water Resistant Enclosure, IP65

Sensor Technology

Global Positioning System (GPS) Receiver
3-Axis Accelerometer
3-Axis Gyroscope
3-Axis Magnetometer
Temperature Sensor
Barometric Pressure Sensor

Display & Virtual Image

Display Resolution	WQVGA - 428 x 240
Display Type	LCD Micro Display
Virtual Image Size	Virtual 14" image at 5ft away
Max Horizontal – Field of View (FOV)	8° Vertical FOV: 6°Horizontal FOV
Diagonal	FOV 10°
Color Depth	High Color 16-bit (5:6:5)
Brightness & Contrast	Control Adjustable

RF & Antenna

Global Positioning System (GPS) Receiver	65-Channel Ultra Low Power GPS IC
.....	Cold start of 2-5 minutes in typical outdoor environment
Wi-Fi™ (IEEE802.11b/g/n)	

Bluetooth®

Bluetooth® 4.0
Recon Instruments (object push) for file transfer
Serial Port Profile (SPP)
Video Distribution Profile (VDP)
BLE, Wireless User Interface Remote Control

Power Requirements

Primary Supply Voltage	3.7 Lithium Polymer Rechargeable Battery
Charge Time	1 hour fast charge = 80% capacity, 4 hours = fully charged
Battery Size & Life	1200 mAh = up to 6 Hours

Connectivity

USB/Micro-USB 2.0 (5-pin) port

System Requirements

Windows PC	Intel Pentium 4 or higher, Windows Vista, 7 or higher
Mac	Intel Core Duo or higher, Mac OS X v10.6 or later

Recon Engage App System Requirements

Android	2.3.5 or higher (optimal performance is device dependant)
iOS	6.0 or higher with iPhone 4S, 5 or higher

Support

For service, support, tutorials and FAQs, go to: www.oakley.com/support/airwave

Warranty

This Oakley Airwave™ Goggle (the “Product”) comes with a limited warranty for a period of two years from the date of purchase (the “Limited Warranty Period”). This limited warranty is valid only to the original purchaser with a proof of purchase from an Authorized Oakley Dealer that clearly shows the purchase date. Software and non-Oakley branded items are not covered by this limited warranty.

Limited Warranty:

Oakley warrants that the Product will be free from defects in materials and workmanship for the Limited Warranty Period. During the Limited Warranty Period, Oakley will, at its option: (i) repair the Product or replace it with a comparable product or (ii) refund to the original purchaser the amount paid for the Product, LESS DEPRECIATION, upon its return. Replacement Products will be new or serviceably used, comparable in function and performance to the original Product and warranted for the remainder of the original warranty period or, if longer, ninety (90) days after they are shipped.

Hardware Technical Support:

During the Limited Warranty Period, Oakley will provide Product technical support. Please note that when contacting Oakley via telephone, long distance and other charges may apply, depending upon your calling area. The scope of technical support consists of helping to diagnose and resolve problems with defects in Products covered by this limited warranty.

Software Support for Operating System Software:

Oakley is not the manufacturer of any software or operating system and does not guarantee that software or operating systems will be free from errors, either in isolation or in combination with the Product.

Limitations and Exclusions:

THIS LIMITED WARRANTY DOES NOT COVER AND OAKLEY IS NOT RESPONSIBLE FOR:

- DELIVERY OR INSTALLATION, OR LABOR CHARGES FOR SETUP OF THE PRODUCT AND/OR ADJUSTMENT OF CUSTOMER CONTROLS ON THE PRODUCT.
- DAMAGES CAUSED BY MISUSE, ABUSE, ACCIDENTS, FIRE, THEFT, DISAPPEARANCE, MISPLACEMENT, FLUCTUATIONS AND POWER SURGES, CONNECTIONS TO IMPROPER VOLTAGE OR INCORRECT ELECTRICAL LINE VOLTAGE, VIRUSES, MALWARE, RECKLESS, WILLFUL OR INTENTIONAL CONDUCT.
- DAMAGES CAUSED BY SERVICING NOT AUTHORIZED BY OAKLEY.
- DAMAGES CAUSED BY USAGE THAT IS NOT IN ACCORDANCE WITH PRODUCT INSTRUCTIONS.
- DAMAGES CAUSED BY FAILURE TO FOLLOW THE PRODUCT INSTRUCTIONS OR FAILURE TO PERFORM CLEANING OR PREVENTIVE MAINTENANCE.
- DAMAGES CAUSED BY THE COMBINATION OF THE PRODUCT WITH OTHER NON-OAKLEY BRANDED PRODUCTS, ACCESSORIES, PARTS OR COMPONENTS OR USE OF PRODUCTS, EQUIPMENT, SYSTEMS, UTILITIES, SERVICES, PARTS SUPPLIES, ACCESSORIES, APPLICATIONS, INSTALLATIONS, REPAIRS, EXTERNAL WIRING OR CONNECTORS NOT SUPPLIED OR AUTHORIZED BY OAKLEY THAT DAMAGE THE PRODUCT.
- SIGNAL ISSUES, RECEPTION PROBLEMS AND DISTORTION RELATED TO NOISE, ECHO, INTERFERENCE OR OTHER SIGNAL TRANSMISSION AND DELIVERY PROBLEMS.
- RESULTS OF NORMAL USAGE, SUCH AS GRADUAL IMAGE DEGRADATION, UNEVEN SCREEN AGING, BURNED-IN IMAGES AND PIXEL FAILURE WITHIN DESIGNED SPECIFICATIONS OR THAT DO NOT MATERIALLY ALTER THE PRODUCTS FUNCTIONALITY.
- UNINTERRUPTED OR ERROR-FREE OPERATION OF THE PRODUCT.
- SOFTWARE, INCLUDING THE OPERATING SYSTEM AND SOFTWARE ADDED TO THE PRODUCT.
- ANY EQUIPMENT OR COMPONENTS THAT WERE NOT INCLUDED IN YOUR PRODUCT AS ORIGINALLY SOLD.
- NORMAL WEAR AND TEAR, INCLUDING LENS SCRATCHES.
- DAMAGE CAUSED AS A RESULT OF IMPROPER TRANSPORTATION OR PACKING/PACKAGING WHEN RETURNING THE PRODUCT TO OAKLEY OR AN OAKLEY AUTHORIZED DEALER.
- A PRODUCT THAT REQUIRES MODIFICATION OR ADAPTATION TO ENABLE IT TO OPERATE IN ANY COUNTRY OTHER THAN THE COUNTRY FOR WHICH IT WAS DESIGNED, MANUFACTURED, APPROVED AND/OR AUTHORIZED, OR REPAIR OF PRODUCTS DAMAGED BY THESE MODIFICATIONS.
- DAMAGE TO PRODUCTS WHERE THE ANTI-COUNTERFEITING CODE (OR EQUIVALENT) HAS BEEN REMOVED, ERASED, DEFACED, ALTERED OR MADE ILLEGIBLE.

Warranty (continued)

Instructions for Obtaining Warranty Service:

Within the United States, the original purchaser should contact Oakley. Original purchasers outside of the United States and Australia should contact their local Authorized Oakley Dealer or visit our website at www.oakley.com to obtain the contact information for the nearest Authorized Oakley Dealer. The original purchaser may be required to deliver and retrieve your Product at his or her own expense.

IT IS THE RESPONSIBILITY OF THE ORIGINAL PURCHASER TO REMOVE ANY DATA FROM THE PRODUCT RETURNED TO OAKLEY OR AN OAKLEY AUTHORIZED DEALER. OAKLEY IS NOT RESPONSIBLE FOR ANY LOSS OF DATA WHATSOEVER.

Implied Warranties:

EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT IS LIMITED IN DURATION TO THE TERM OF THIS WARRANTY.

Limitation of Liability:

OAKLEY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY. OAKLEY'S MAXIMUM LIABILITY IS LIMITED TO THE PURCHASE PRICE PAID FOR THE PRODUCT PLUS ANY INTEREST ALLOWED BY LAW. OAKLEY IS NOT LIABLE FOR EVENTS BEYOND ITS CONTROL, SUCH AS ACTS OF GOD, VIRUSES, PROPERTY DAMAGE, LOSS OF USE, INTERRUPTION OF BUSINESS, LOST PROFITS, LOST DATA OR OTHER CONSEQUENTIAL, PUNITIVE OR SPECIAL DAMAGES, HOWSOEVER CAUSED, WHETHER FOR BREACH OF WARRANTY, CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHERWISE.

For original purchasers who are covered by consumer protection laws or regulations in the jurisdiction of purchase or, if different, their country of residence, the benefits conferred by this warranty are in addition to all rights and remedies conveyed by such consumer protection laws and regulations. This warranty does not exclude, limit or suspend any rights of original purchasers arising out of non-conformity with a sales contract. Some countries, states and provinces do not allow the exclusion or limitation of incidental or consequential damages or allow limitations on how long an implied warranty or condition may last, so the limitations or exclusions described herein may not apply. This warranty provides specific legal rights, and the original purchaser may also have other rights that vary by country, state or province.

Manufacturer:

Oakley, Inc.
One Icon
Foothill Ranch, CA 92610
1-800-403-7449

For Original Purchasers in Australia:

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. The original purchaser is entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. The original purchaser is also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

The benefits given under our express warranty are in addition to other rights and remedies you have under the Australian Consumer Law and other laws.

Our express warranty is provided by:

Oakley South Pacific Pty Ltd
(ABN 47 090 585 149)
24 The Esplanade
St Kilda, VIC, 3182
Australia
1-800-637-001
infoaustralia@oakley.com

Unless specifically stated elsewhere in this warranty policy, to make a warranty claim, the original purchaser should return the Product to the Authorized Oakley Dealer from which the Product was purchased together with your proof of purchase. If your warranty claim is deemed to be valid, Oakley will replace or repair the Product.

Any expenses incurred in returning the Product for warranty assessment will be done so at the expense of the original purchaser. If the returned Product is deemed to be a valid warranty claim, Oakley will incur the cost of any further freight charges. If the warranty claim is deemed to be invalid, Oakley will contact the original purchaser to see if repairs should be conducted at the original purchaser's expense, who in any event, shall be charged for outbound freight based on Oakley's standard shipping rates.

TABLE 1: SUN GLARE FILTER CATEGORIES

FILTER CATEGORY	TINT	USE	PERCENT LUMINOUS TRANSMITTANCE RANGE	
			FROM ABOVE	TO
S0	Clear/Very Light	No Reduction in Glare	80	100
S1	Light	Cloudy	43	80
S2	Medium	Regular	18	43
S3	Dark	Sunny	8	18
S4	Very Dark	Extreme Glare	3	8

Battery Disposal and WEEE Information

Oakley is committed to the proper disposal, reuse, recycling and recovery of batteries and Waste Electrical and Electronic Equipment (WEEE). Batteries and WEEE should not be disposed of in normal domestic waste bins. For more information on proper disposal please contact your local Oakley Support Specialists based on the information provided at www.oakley.com/support

Compliance Information

FCC Compliance

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

These devices (Snow2 FCC ID: ZW5008, Recon-Ready Remote FCC ID: ZW5001) comply with FCC standard CFR 47 Part 15. Operation is subject to the following two conditions:

- 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

Snow2 and Recon-Ready Remote were certified with IC numbers 9717A-008 and 9717A-001, respectively. These devices comply 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 Canada-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.



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