



**MOD User Guide Draft**

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0.2	David Lee	2011/6/03			Updated with new MOD GUI
0.3	David Lee	2011/6/20			New graphics and functionality (tabs)
0.4	David Lee	2011/7/05			New product shots, changes based on latest feedback
0.5	David Lee	2011/8/11			Close to final text. Graphics are not updated in this version as Kirill will be doing the graphics in InDesign next
0.6	Minh To	2011/8/26			Add standard regulatory page
0..7	David Lee	2011/8/31			Finishing the manual off for FCC approval
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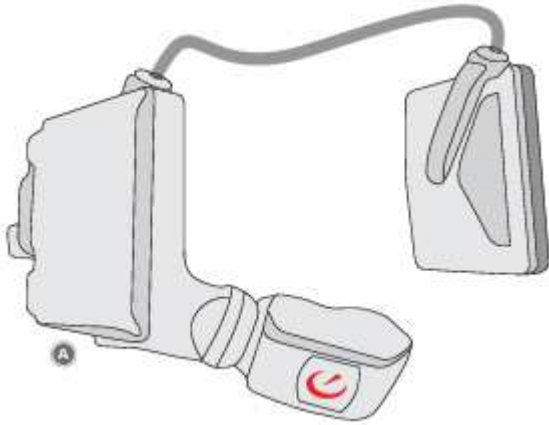


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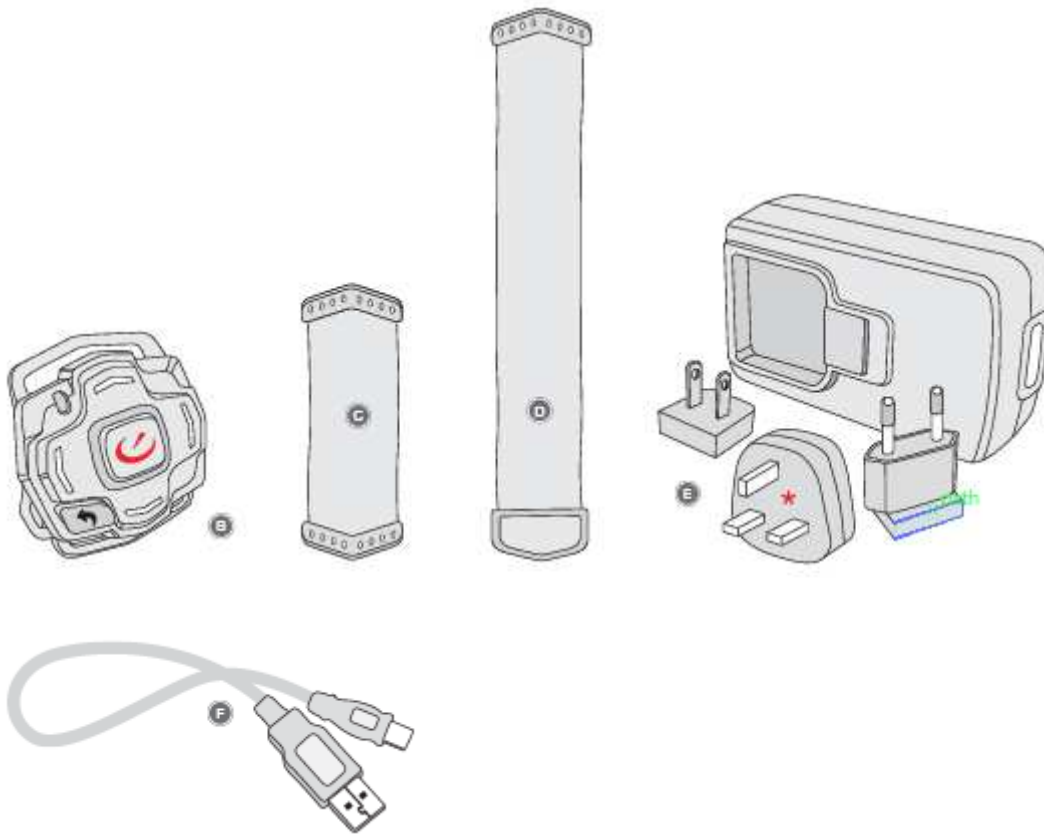
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## 2. MOD at a Glance



A. Micro-Optics Display

### 2.1 Accessories



- B. Recon Ready Remote
- C. Goggle mount strap for Remote
- D. Wrist/Backpack/Belt Strap for Remote
- E. Both NEMA and EU connect AC Adapters
- F. Micro USB to USB cable, 1 meter

## 2.2 Remote



## 2.3 Status Icons

	MOD is searching for satellites for a GPS signal
	MOD is searching for more satellites for a better GPS signal
	MOD has a moderate to strong GPS signal
	MOD has full or near-full battery power
	MOD has partial battery power
	MOD has low-to-no battery power, plug in to computer or AC adapter to recharge
	Wireless remote is connected
	Wireless remote connection lost. Searching for remote.
 solid	Wireless remote connection lost. MOD has stopped searching for the remote in order to save power.

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### 3. Getting Started

#### 3.1 What You Need

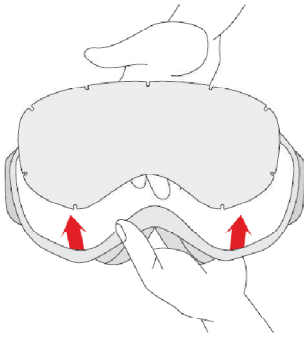
MOD can be used after charging right out of the package, but to enjoy the full MOD experience you'll need the following:

- Recon Ready Goggle <http://www.ReconReady.com>
- A PC or Mac with a USB port and one of the following operating systems:
  - Windows PC: Intel Pentium 4 or higher, Windows XP, Vista, 7 or higher
  - Mac: Intel Core Duo or higher, Mac OS X v10.6 or later
- Recon Instruments HQ Software, available at [www.reconinstruments.com/support](http://www.reconinstruments.com/support)
- An Internet Connection

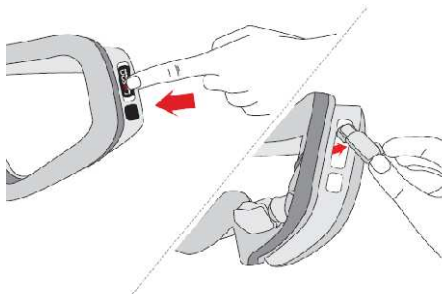
#### 3.2 Installing MOD in your Recon Ready Goggle

MOD is compatible with all Recon Ready products. For a list of Recon Ready products visit <http://www.ReconReady.com>

##### 1) Remove lens from the Recon-Ready goggle frame (see [Recon Ready goggle's manual](#) for instructions)

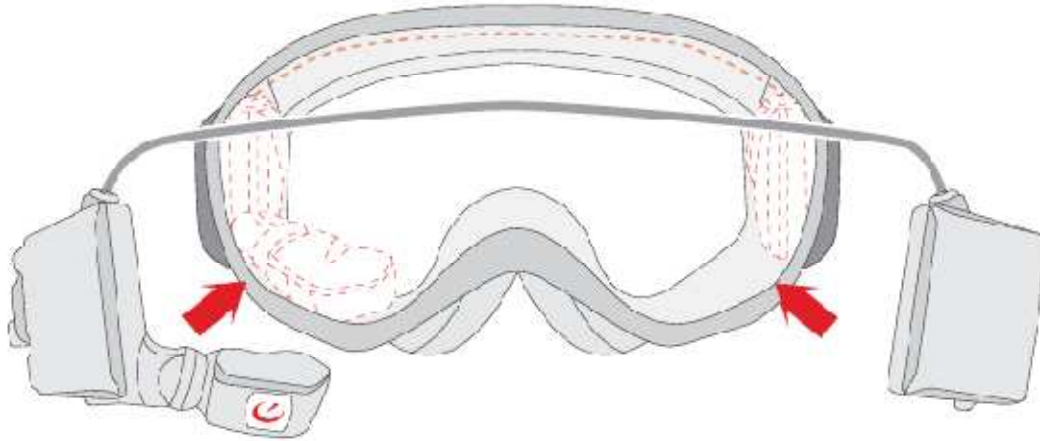


##### 2) Push protective badge into Recon-Ready goggles frame and remove

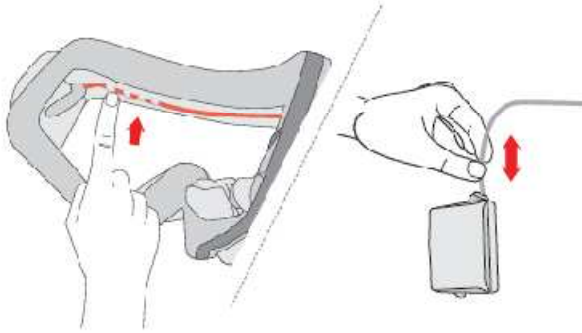


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3) From the front of the goggles insert and secure Micro Optics Display into the left side then insert and secure battery into the right side.



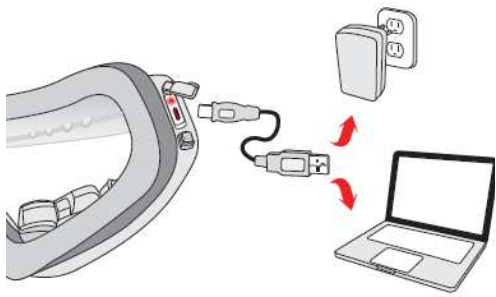
4) If the cable is too long or too short, adjust the length so it fits snugly into the groove inside the top of the frame.



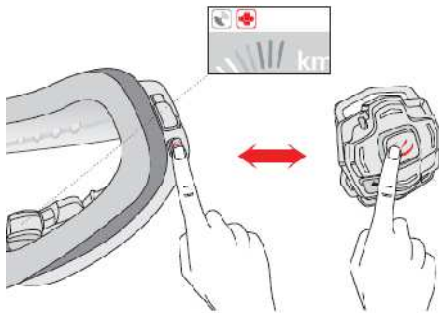
5) Replace lens back into the goggles (see Recon-Ready© goggles manual for instructions)



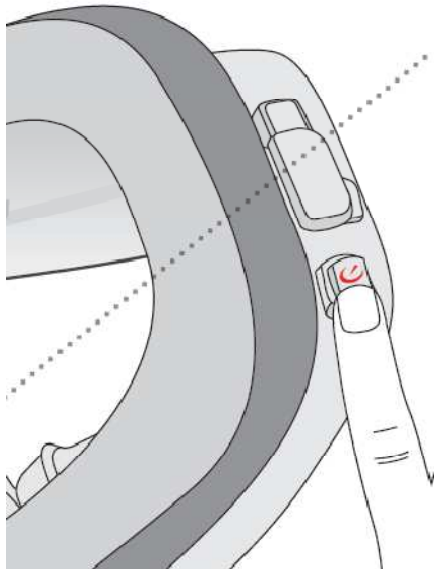
6) Remove temporary USB cover and fully charge battery with the USB charger until red light on the goggle turns off.



7) Power on then pair MOD with remote by pressing any button on the remote.



### 3.3 Powering On and Off



To Power on, hold the POWER button for about 2 seconds. You will know the unit is on when the POWER button glows blue.

To power off MOD hold the POWER button for about 2 seconds.

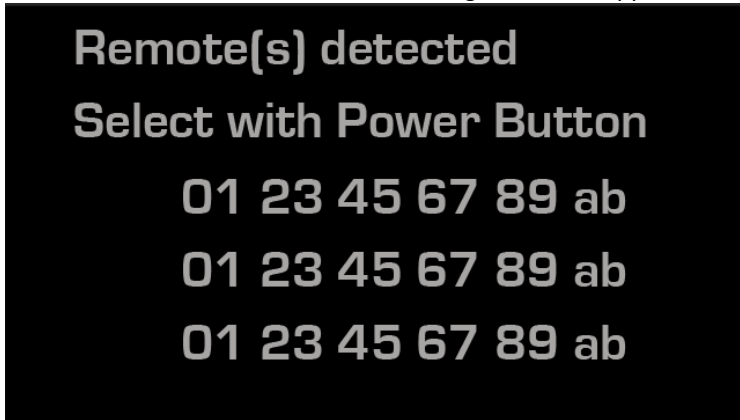


### 3.4 Pairing with a new remote

Note: The remote and MOD and remote that come packaged together are already paired. To begin using the remote with your MOD see section “3.5 Connecting to the Remote”.

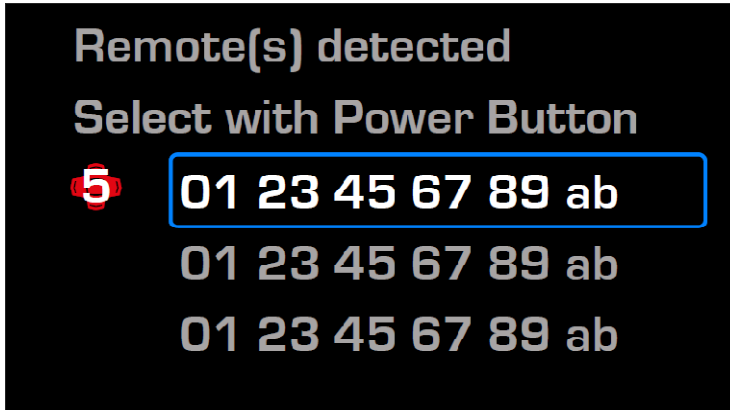
To pair MOD with a new remote different than the one your MOD was packaged, with follow these instructions:

1. Press and hold the left and right buttons on the remote until you see the LED flash blue and orange. The remote is now ready to be paired with a new device.
2. Power on MOD and press any button on the new remote within 10 seconds.
3. If the new remote is detected, the following screen will appear listing the remotes that are currently in range.



The remotes are listed by their MAC address. The MAC address of your remote is written on the back.

4. Use the power button to move the cursor to the remote you want to pair with. Then wait 10 seconds and the remote will pair.



You will be taken to the dashboard, and the remote icon in the status bar will turn **solid blue**:




### 3.5 Connecting to the Remote

Whenever you power on MOD, it will begin searching for a wireless remote. On start-up you will see this screen



Press any button on the remote to connect it to MOD. When the remote is connected you will see the remote icon in the

status bar turn **solid blue**: 

### 3.6 Connection Lost: Remote Search Mode


If the remote connection is lost, MOD will begin searching for the remote. This is indicated by the remote icon **flashing red**:



Press any button on the remote to reconnect it.

### 3.7 Connection Lost: Remote Power Save Mode

If you do not reconnect the remote within 4 minutes, MOD will stop searching for the remote in order to save power. This is

indicated by the remote icon in the status bar turning **solid red**: .

To begin searching again press but do not hold the power button. MOD will return to Remote Search Mode for 4 minutes. Press any button on the remote to reconnect it.

*For more detailed information on controlling MOD using the remote see 'Controlling MOD' (p\_\_\_)*

### 3.8 Installing ReconHQ Software

Recon HQ is a free application for your PC or Mac that allows you to view and organize your achievements and statistics from the mountain or backcountry on your computer. Collect real-time information from your Recon Instruments hardware to track your trips or entire seasons. Playback those amazing runs or secret trails in real-time with all of your statistics overlaid on Google maps. Cut highlights of your favourite moments, post to HQ Online and share with Facebook, Twitter and more.

To download ReconHQ go to <http://reconinstruments.com/download-latest-recon-hq-software>

System Requirements

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Windows:

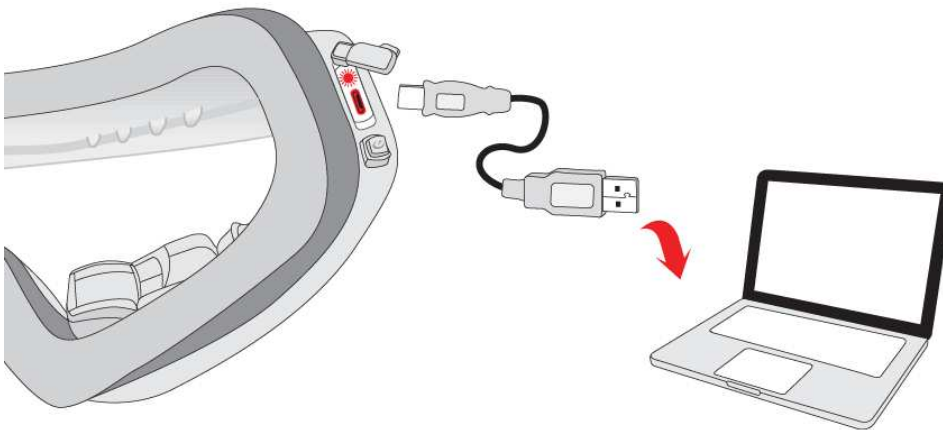
- Intel Pentium 4 or higher processor
- 1GB of RAM
- Screen resolution of 1024x768 or greater
- USB 2.0 port for connection with Recon goggles
- Internet connection for connection with Google Maps
- Windows XP Service Pack 2 or later, Windows Vista, or Windows 7

Mac:

- Intel Core Duo or higher processor
- USB 2.0 port for connection with Recon goggles
- Internet connection for connection with Google Maps
- Mac OS X v10.6 or later
- 

### 3.9 Connecting to PC/Mac

To ensure best charging and data transfer performance follow these easy steps.



To connect MOD to your PC or Mac to charge, or transfer data:

1. Power on by holding the POWER/SELECT button for 2 seconds
2. Plug the micro USB cable's smaller end into the micro USB port located under the protective cover on the right side of the goggles
3. Plug the USB cable's larger end into the USB port in your PC or Mac
4. If your computer does not recognize MOD try reinserting the USB cable
5. Upon successful connection the micro USB port on MOD will illuminate RED for charging and the Power button will flash blue.

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### 3.10 Disconnecting from PC/Mac

To disconnect MOD from your PC or Mac, navigate to 'safely remove' or 'eject' the hardware through your PC or Mac then remove the USB cable from MOD. If you disconnect while data is transferring, you may risk losing the data.

**Important:** *Ensure you have sealed the micro USB port completely using the USB port cover. The seal should fit snug so that no water or snow can get inside.*

## 4. The basics



### 4.1 Controlling MOD

MOD is controlled using the MOD/MOD Live remote.

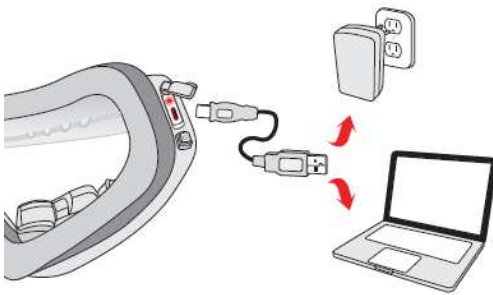
The remote has 6 buttons: Up, Down, Left, Right, Select, Back.

Use the Up and Down buttons to navigate vertical lists and tabs. Use the Right and Left buttons to navigate horizontal menus and to scroll through customizable dashboards. The Select button is used to confirm an item selected using the directional buttons. Use the back button to move from a submenu back to a menu, and from a menu back to the dashboard. Additionally, the back button acts as a display off toggle when you are on the dashboard.

### 4.2 Charging

In optimal conditions, MOD can *fast charge* (battery life reaches 80%) through your computer or AC adapter in **1 hour**. You can attain a 100% full charge in **3 hours**. For best charging performance, it is recommended that you use the provided AC adapter and USB cable for charging.

**Important:** If you charge MOD while it is powered on, charge time will take longer than 3 hours. **Be sure to turn MOD OFF before charging it.**



To charge MOD via PC or Mac:

1. Power on by holding the POWER/SELECT button for 2 seconds
2. Plug the micro USB cable's smaller end into the micro USB port located under the protective cover on the right side of the goggles

3. Plug the USB cable's larger end into the USB port in your PC or Mac
4. If your computer does not recognize MOD try reinserting the USB cable
5. Upon successful connection the micro USB port on MOD will illuminate RED for charging and the Power button will flash blue.

**Important:** If MOD is connected to a computer that is turned off or in stand-by, it may drain instead of charge the battery.

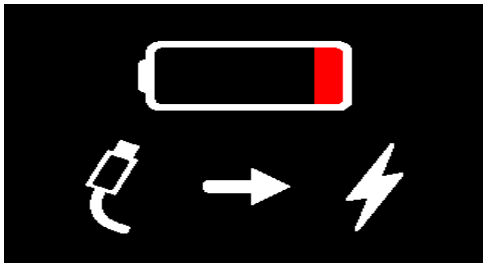
To charge MOD via power outlet:

1. Plug the micro USB cable's smaller end into the micro USB port located under the protective cover on the right side of the goggles
2. Plug the USB cable's larger end into either the North American or European AC adapter that was included with MOD
3. Plug the AC adapter into an appropriate wall outlet
4. Upon successful connection the micro USB port on MOD will illuminate RED for charging
5. When MOD is fully charged the red light will go off

### 4.3 Battery Life

MOD's battery will last Up to **8 hours** in optimal conditions, the equivalent to your average ski day. Simply recharge at any time through your computer or AC adapter. See 'Improving Battery Performance' below to get the most out of your battery.

If MOD is nearing complete depletion of battery power, this icon will pop Up to Indicate it will shut down to preserve your data and settings. Plug in to your computer or power outlet to recharge.



### 4.4 Improving Battery Performance

To maximize MOD's battery life and performance you can do the following:

- Turn the brightness down from 3 to 2 or 1 (See 'Setting the Brightness section below)
- Turn the display off when not needed (See Display Off Mode section below)
- Power off MOD during long breaks of non-use
- Do not leave MOD exposed in cold or winter environments when not in use

### 4.5 Pop-Ups



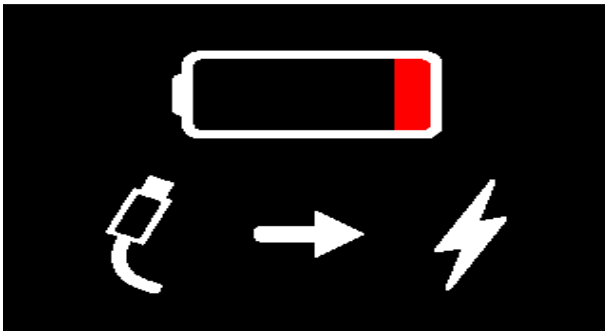
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MOD provides real-time updates of important points of data while you perform an activity. These pop-ups alert you in hands-free fashion so you are aware when something significant or important has occurred. There are five major pop-ups that can occur while viewing the Dashboard.

1. **Altitude:** Every time your maximum altitude increases by 500m or 1500ft you will see this popup
2. **Vertical Odometer:** Every time you accumulate 500m or 1500ft of additional vertical drop you will see this popup
3. **Speed:** Each time you top your maximum speed for the day you will see this popup
4. **Jump:** Every time a jump is detected you will see this popup

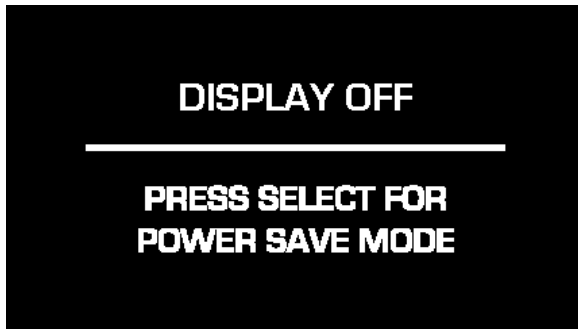
MOD will also show a pop-Up for system alerts, such as:

5. **Battery Critical Shutdown:** If the battery is within 2-3% of its total power, MOD will shutdown to ensure your data is not lost and the unit is not harmed. You will see this pop-up



6. **Memory Full:** Once you've filled up MOD's memory you will see this pop-up

#### 4.6 Display Off Mode



From the Dashboard, use the back button to access the display off screen.

From this screen press the SELECT button to turn the display off, or press any button to return to the Dashboard.

Display off mode can be used to conserve the battery when the display is not needed. MOD will continue to record your data and statistics while in display off mode. Simply press any button to re-activate the display and continue where you left off.

**Important:** Recon Instruments recommends that users turn the Display Off at any time if it is found too bright, distracting in any way, or if it interferes with your ability to safely perform any activity. MOD has been designed to be unobtrusive, and just like the dashboard of any motor vehicle, it is meant not to be continuously focussed on during use, but helpful in offering important information at momentary glances. Just like a dashboard, it's brightness may be controlled and even turned off by your choiceSetting Preferences in MOD

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#### 4.7 Memory and Data Storage

MOD offers storage of Up to 50 hours of recorded data. At any time you can upload all data from MOD directly to your Recon HQ software that is provided from <http://www.reconinstruments.com/download-latest-recon-hq-software>. It is recommended that you download MOD data after every trip to maintain appropriate available space. *To learn more about Recon HQ see section 2.4*

Whenever you power off MOD for longer than 6 hours or you use the RESET STATS feature in preferences, MOD will save and reset all of your Last Run, Performance, Elevation, and Mountain stats pages. In addition it will reset all Jumps and Chrono records.

Resetting the stats is not the same as deleting your data. Even though old stats become inaccessible on the MOD display following a reset, your data is always saved in memory and will not be erased until you connect to ReconHQ for download.

**Important:** *To be sure that no data is compromised while recording, be sure to maintain a strong battery level, and try not to let MOD's battery drain completely. To learn more, see 'About MOD's Battery'*

#### 4.8 Replacing the Remote Battery

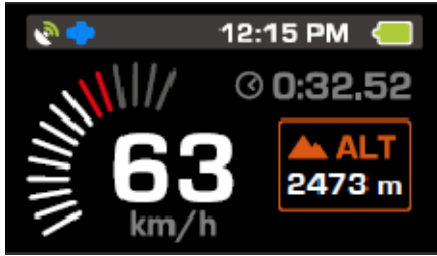


The Recon Remote uses one CR2032 (3V) battery. The Remote Batteries should last up to \_\_\_ years under normal use.

To replace the battery use a coin or flathead screwdriver to open the back of the remote by turning the cover counter-clockwise. Remove the old battery and replace it with a new one. Then return the cover and secure it with the coin or flathead screwdriver by turning the cover clockwise.



## 5. The Real-time Dashboard



MOD is used in fast-paced environments and as such it is not recommended to cycle through buttons, screens, and menus during activities that require your full attention. The Dashboard offers pieces of information to aid you in a hands-free fashion, with real-time statistics every second. There is also a configurable area of the dashboard that allows you to quickly view your current statistics like Current Altitude, Total Vertical, Total Distance, and Current Temperature.

### 5.1 Speedometer



The largest piece of information on the Dashboard is the Speedometer represented by the dial highlighted in the above image. The Speedometer dial lights up clockwise as your speed increases. Once your speed reaches 100km/h the dial will begin to be lit up red. At this point it is suggested that you adjust your speed appropriately to maintain the safety of yourself and others. Always perform sporting activities within the boundaries of your personal skill and comfort levels.

The Speedometer also displays real-time speed values in the bold numbers below the dial. When dashes are displayed instead of speed numbers it means that MOD has not acquired a GPS signal strong enough to supply accurate data. See 'GPS Signals' in 'Tips and Troubleshooting' to learn more.

### 5.2 Chrono/Stopwatch



Just beneath the Status Bar, to the right of the Speedometer lies the Chrono/Stopwatch. When not in use, the numbers are greyed-out as below.

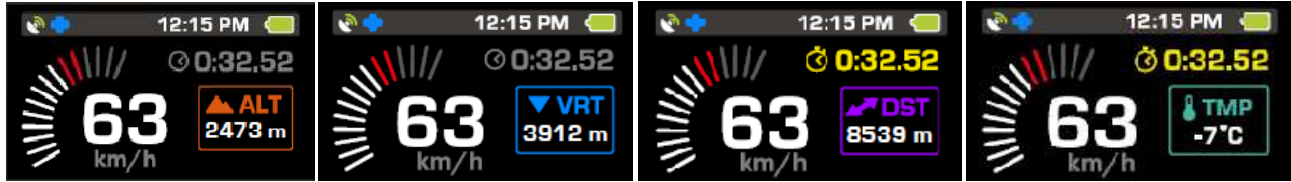
Press SELECT to activate Chrono/Stopwatch mode, the numbers will turn yellow and start counting

Pressing SELECT a second time will stop the chrono and save the results to the Chrono history

Pressing SELECT a third time will reset the counter and grey-out the numbers once again so it is ready for another timed activity.

Any timed activity will be saved to the memory and can be managed (viewed, flagged, deleted) on the Chrono/Stopwatch screen. See 'Chrono/Stopwatch Feature' to learn more.

### 5.3 Configurable Feature



The Dashboard has four configurations that can be changed quickly by using the Left and Right buttons. Scroll between these dashboards to view your current Altitude, Total Distance, Total Vertical, and current Temperature. Your choice of configuration is saved, so when you return to the Dashboard from another menu, or when you power off and power on MOD you will be presented with the configuration that you last used.

## 6. Stats History

Use the UP or DOWN buttons to navigate to the Stats History page

### 6.1 Stats History Title Page



The Stats History title page displays a quick preview of the statistics accumulated during your last run.

Last Run statistics include the following features and statistics:

- Maximum Speed: the top speed you've achieved during the last run
- Total Vertical: the total accumulated distance travelled vertically downwards during the last run
- Total Distance: Total Distance Travelled across land (Up, down, and sideways) during the last run

From the Stats History title menu, press the select button to view detailed statistic overview screens. These screens are Performance Stats, Elevation Stats, and Mountain Stats. To return to the Stats History title page from any of these screens, press the BACK button.

### Performance Stats

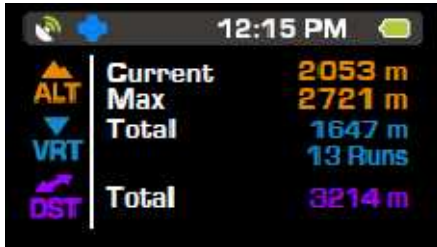


**6.2 From Performance Stats press the UP button to go to Mountain Stats, or press the DOWN button to access Elevation Stats.**

Performance statistics include the following features and statistics:

- Maximum Speed: the top speed you've achieved during your trip, or since you last reset your stats
- Average Speed: the average speed you've achieved during your trip, or since you last reset your stats
- Longest Chrono/Stopwatch Run: the longest timed activity you've recorded using the Chrono/Stopwatch feature during your trip, or since you last reset your stats
- Shortest Chrono/Stopwatch Run: the shortest timed activity you've recorded using the Chrono/Stopwatch feature during your trip, or since you last reset your stats
- Last Air: the airtime recorded during your most recent jump
- Max Air: the greatest airtime you've achieved during your trip, or since you last reset your stats

## Elevation Stats



6.3 From the Elevation Stats page, press the UP button to access Performance Stats or press the DOWN button to access Mountain Stats.

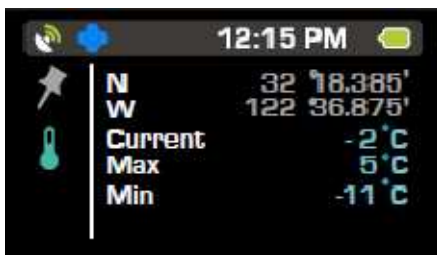
Elevation statistics include the following features and statistics:

- Current Altitude: the current altitude that MOD is at in that point in time
- Maximum Altitude: the highest altitude achieved during your trip, or since you last reset your stats
- Total Vertical Distance Travelled: the total accumulated distance travelled vertically downwards during your trip, or since you last reset your stats
- Total Vertical Runs: the number of vertically downward runs accumulated before travelling Upwards again during your trip, or since you last reset your stats
- Total Distance Travelled: the total accumulated distance travelled across land during your trip, or since you last reset your stats

### 6.3.1 A Note about Altitude statistics

*MOD will calibrate altitude automatically when it is in a stationary position. The altitude Value will flash on the Elevation Stats screen, and 3 dots will flash above the altitude value on the dashboard to indicate that calibration is not yet complete.*

## Mountain Stats



6.4 From the Mountain Stats page, press the UP button to access Elevation Stats or press the DOWN button to access Performance Stats.

Mountain statistics include the following features and statistics:

- Current Latitude/Longitude: Your current placement on latitudinal and longitudinal planes according to global positioning system data
- Current Temperature: the current outside temperature experienced
- Maximum Temperature: the highest temperature achieved during your trip, or since you last reset your stats
- Minimum Temperature: the lowest temperature achieved during your trip, or since you last reset your stats

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**Important:** all features' and statistical data are based on advanced sensors within MOD and are accurate in optimal conditions, however, several variables in non-optimal and harsh environments may lead to slight inaccuracies in data. For best performance, use in optimal conditions and learn more below in 'Tips and Troubleshooting' and 'Safety, Storage, and Cleaning'.

## 7. Jump



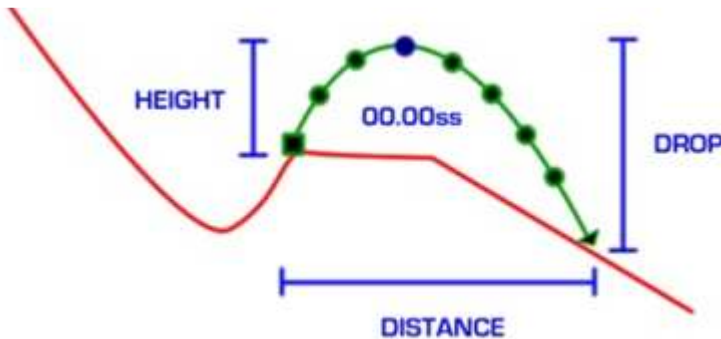
The jump stats screens provide statistics for both your Last Jump and Best Jump. Best Jump is determined by the maximum airtime achieved. **Use the Select Button to switch between these two screens.**

*Note: Every jump that is detected will be saved in memory for download to Recon HQ, but only your Last and Best jump will be available on the MOD display.*

Jump Statistics include the following:

- Air Time: measured from the moment you are no longer touching the ground until the moment that you impact the ground on landing. Airtime is reported in seconds
- Distance: horizontal distance travelled during the jump
- Height: vertical distance between takeoff and the highest point of the jump
- Drop: vertical distance between the highest point of the jump and the landing

These statistics are illustrated in the following image:



*Note: The jump feature uses MOD's inertial sensors (GPS, Altimeter, Accelerometer) to measure jump statistics. For a jump to be registered you must achieve an air time of at least 0.6 seconds.*

## 8. Chrono/Stopwatch Feature



The Chrono/Stopwatch feature allows you to record any timed activity. Your chrono records can be played back and shared with HQ Online when you connect MOD to Recon HQ.

To use the Chrono/Stopwatch feature:

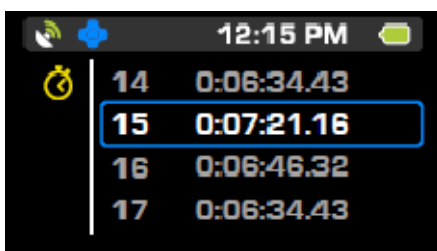
1. While on the Dashboard screen, Press SELECT to activate Chrono/Stopwatch mode, the numbers will turn yellow and start counting
2. Pressing SELECT a second time will stop the chrono and save the results to the Chrono history
3. Pressing SELECT a third time will reset the counter and grey-out the numbers once again so it is ready for another timed activity.

Any timed activity will be saved to the memory and can then be managed in the Chrono/Stopwatch History screen. Use the UP or DOWN buttons to navigate to the Chrono/Stopwatch screen.

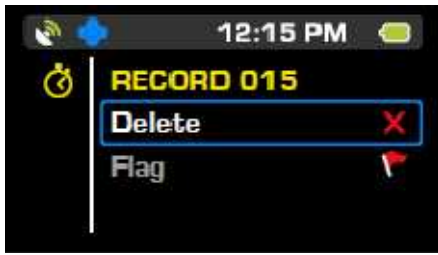


This screen shows an overview of your most recent record. The number of records is displayed on the left, and the duration of the most recent record is displayed at the bottom.

Press the select button to enter the Chrono Records



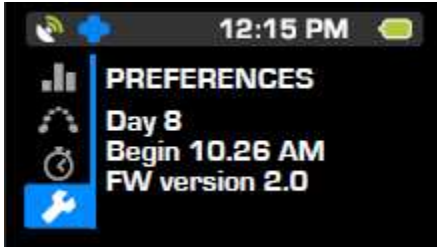
Use the UP and Down buttons to navigate the list of records.



You can 'Flag' or 'Delete' a record by selecting an individual record and then selecting 'Delete' or 'Flag'. Flagging a record will help you remember a specific record as it will also be recognized as flagged in Recon HQ software. Deleting a run will clear it from MOD's memory and it will no longer be displayed in the Chrono/Stopwatch history.



## 9. Preferences



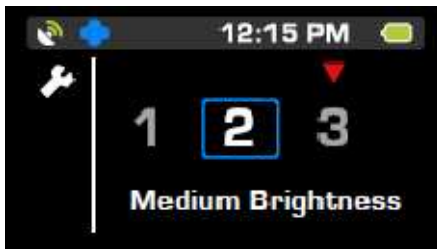
From the Dashboard press the UP button once to view the Preferences screen. This screen provides an overview of your MOD including the number of trips stored in memory, the start time of your current trip, and the Firmware version.

To enter the preferences menu press the Select button.

### 9.1 Setting the Brightness



MOD has 3 modes of brightness allowing you to choose the setting that is most comfortable, safe, and easily viewed in your current environment. The default Brightness is 3: *High Brightness*.



To set the brightness:

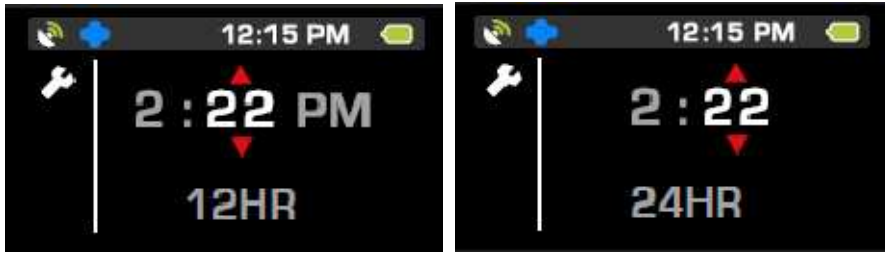
1. Select 'Brightness' from the Preferences menu
2. Use the Left and Right buttons to view the different brightness levels, the red triangle indicates the current brightness setting
3. Press the Select button to confirm your Brightness selection and return to the preferences menu

Press the back button to cancel and return to the preferences menu

### 9.2 Setting the Time



MOD utilizes Coordinated Universal Time (UTC) Upon first strong GPS signal lock. This allows the clock to automatically calculate the proper Greenwich Mean Time (GMT). However, you may have to set the correct hour based on your time zone.

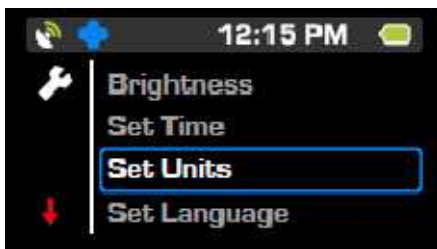


To set the time on the clock:

1. SELECT 'Set Time' from the 'Preferences' menu
2. Use the Left and Right buttons to cycle through which digit (hours or minutes), AM/PM, or 12hr/24 hr mode you would like to change.
3. Use the UP or DOWN buttons to change the digits, AM/PM, or 12hr/24hr mode

Press the back button to cancel and return to the preferences menu

### 9.3 Setting the Units of Measurement



MOD's statistics are available in both Metric and US Imperial units of measurement. The default units of measurement are Metric.

Following are the units of measurement used on the MOD operating system:

Metric		US/Imperial	
<i>Abbreviation</i>	<i>What it is</i>	<i>Abbreviation</i>	<i>What it is</i>
<b>m</b>	meter	<b>ft</b>	feet
<b>km/h</b>	kilometers per hour	<b>mph</b>	miles per hour
<b>C</b>	Celsius	<b>F</b>	Fahrenheit
<b>Km</b>	Kilometers	<b>Mi</b>	miles



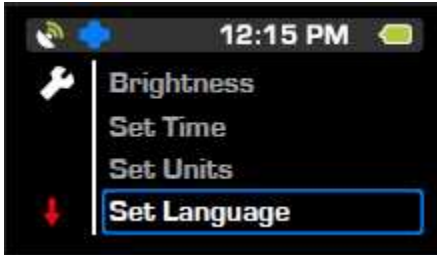
To change the Units of Measurement:

1. SELECT 'Metric' from the 'Preferences' menu, or if your current setting is 'Imperial' SELECT 'Imperial'
2. SELECT 'Metric' or 'Imperial'

Press the back button to cancel and return to the preferences menu

#### 9.4 Setting the Language

MOD's display is available in both English and French. The default Language is English.

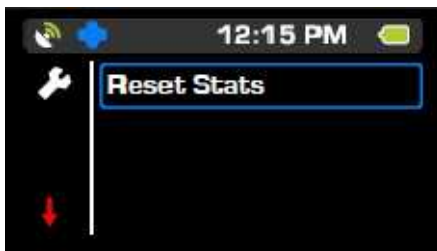


To choose your Language:

1. SELECT 'Language; from the 'Preferences' menu
2. SELECT 'English' or 'French'

Press the back button to cancel and return to the preferences menu

#### 9.5 Resetting Stats



MOD automatically starts recording data to its internal memory as soon as it receives a strong GPS signal; and will continue recording as long as it is on and has a GPS signal. This data is saved so that it can be reviewed using on your PC/MAC using Recon HQ.

In addition, the goggle keeps track of all recent statistics so that you can review them on the fly. These stats will accumulate until MOD performs a stats reset. Every time you power off MOD for longer than 6 hours, your stats will automatically be reset. Additionally, you can reset stats manually from the preference menu.

Resetting stats will reset all of your Last Run, Performance, Elevation, and Mountain stats pages. In addition it will reset all Jumps and Chrono records.

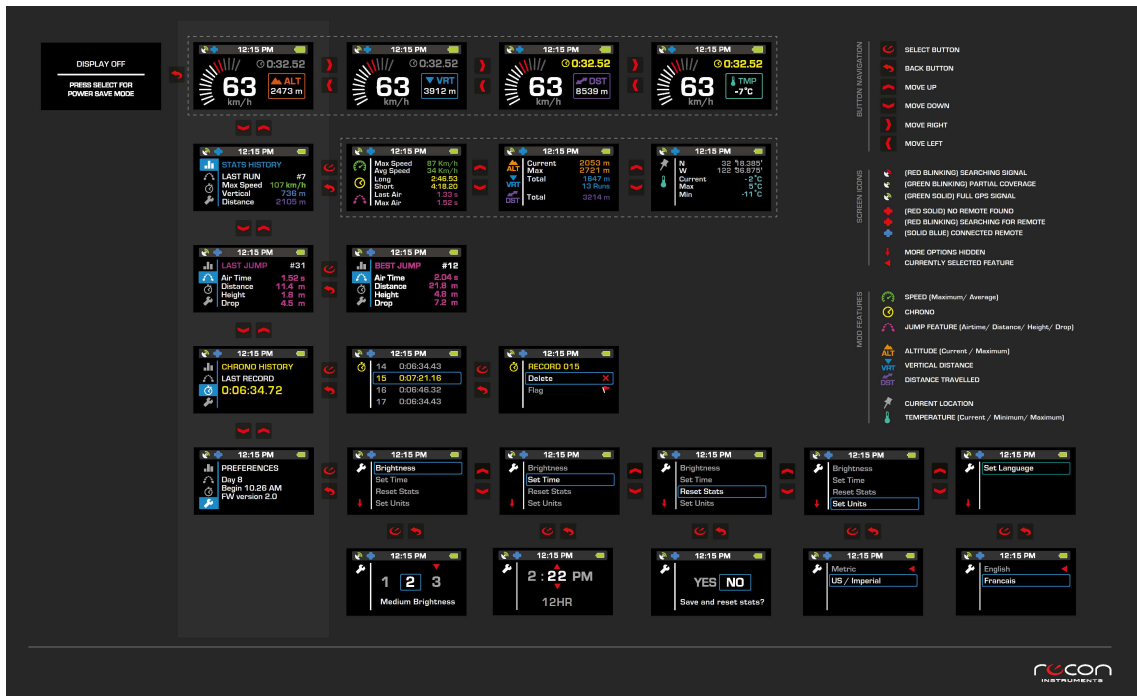
Resetting the stats is not the same as deleting your data. Even though old stats become inaccessible on the MOD display following a reset, your data is always saved in memory and will not be erased until you connect to ReconHQ for download.



To reset your stats:

1. SELECT 'Reset Stats' from the 'Preferences' menu
2. SELECT 'Yes' to confirm you would in fact like to reset your stats
3. Select 'No' to or press the Back button to be brought back to the Preferences menu

## 10. Graphical User Interface Overview Map



## 11. Tips and Troubleshooting

### Display is temporarily washed out and hard to read

1. Avoid exposing the display to direct sunlight, this reacts with the liquid crystals momentarily causing that 'washed out' appearance
2. Display should become clear again when protected from sunlight, allow it to sit until bright colours return

### Display fails to reactivate after selecting "DISPLAY OFF"

1. Hold the Power/Select button to power MOD off, then power back on

### GPS Fix takes longer than 10 minutes

GPS technology works best in open spaces with a clear view of the sky. Obstructions such as buildings and trees can degrade the signal. Additionally MOD will take longer to acquire a GPS fix when it is first powered on after being off for a long time.

1. If you are having difficulty acquiring a GPS fix try moving to a more open location.
2. If MOD still does not acquire a location fix, hold the Power/Select button to power MOD off, then power back on
3. Contact Recon Support at <http://www.reconinstruments.com/support> if the problem persists

### MOD fails to charge fully in 4 hours

1. Ensure red light around micro USB port is activated to indicate charging
2. When charging with PC/Mac, use a high-power USB 2.0 port (not a USB port intended for keyboard)
3. MOD *may not* charge when connected to a PC/Mac that is powered off or in standby mode
4. MOD was designed for use with the provided USB cable and AC adapter. MOD may not charge properly using 3<sup>rd</sup> party cables or adapters
5. For the fastest and most reliable charging, use the AC adapter instead of PC/Mac and power off MOD before charging

### MOD displays solid RED or GREEN screen when not connected to PC/Mac

1. Hold the Power/Select button to power MOD off, then power back on

### Data is not logged properly or MEMORY FULL popup appears

1. MOD can store Up to 50 hours of data in onboard memory. If data is missing when you connect to Recon HQ and/or you see the MEMORY FULL popup appear on the screen of the goggle, then it is time to empty MOD's memory.
2. You can use Recon HQ to clear space on your MOD. Simply check the box "DELETE AFTER DOWNLOAD" when you download data to your PC/Mac
3. Recon Instruments recommends frequently transferring data to your PC/Mac to maintain the health and performance of MOD

### MOD's speedometer displays inaccurate speeds

1. MOD uses GPS to determine speed. GPS technology works best in open spaces with a clear view of the sky. Obstructions such as buildings and trees can degrade the signal. If you observe unusual speeds, try moving to a more open location.
2. GPS performance is poorest when it is first powered on. GPS reliability should improve as more GPS satellite are located by MOD

### **View of the display is obstructed on one or more edges**

1. MOD's optical module has been designed to be adjustable to the majority of facial types. If your view of the screen is obstructed, adjust the optics arm of the MOD to find the ideal viewing position
2. Try tightening the strap to ensure the display is in view and MOD fits properly

### **MOD's battery runs out of charge sooner than expected**

1. To prolong the battery life, power MOD off when not in use, lower the brightness, or use the DISPLAY OFF feature.
2. MOD's battery can last Up to 8 hours at room temperature and Up to 6 hours at -10°C (14°F). Below -20°C (-4°F) the battery life may be significantly impacted at temperatures lower than this. It is not recommended for extended use at these lower temperatures
3. Ensure you properly charge the battery before using MOD. See "*MOD fails to charge fully in 4 hours*" for tips on charging the battery.

### **Display frequently flashes white or is solid white**

1. Connection from the board to the display may be loose or broken from mishandling or misuse. Contact [www.reconinstruments.com/support](http://www.reconinstruments.com/support) for support information.

### **Temperature displayed in MOD is too high/low**

1. Like any thermometer, MOD's temperature sensor takes some time to adjust to the ambient air temperature. The thermometer is located inside the wireless remote. For the thermometer to accurately measure the outside air temperature, wear the remote on the outside of your body, instead of keeping in an inside pocket.

### **Cleaning the optic lens**

1. Do not touch the optic lens with fingers or rough objects.
2. Always clean the optic with a soft cloth, lens cloth or goggle bag
3. Always store the MOD in an approved Recon-Ready goggle or in its original packaging to reduce the chance of scratches

### **MOD has GPS fix but still displays "--" instead of valid speed**

1. The dashboard speedometer displays "--" until it can calculate a valid speed from GPS data.
2. If the speedometer still displays "--" for more than a few minutes after the GPS indicator turns green, hold the Power/Select button to power MOD off, then power back on
3. If the problem persists, contact [www.reconinstruments.com/support](http://www.reconinstruments.com/support) for support

### **MOD is not recognized by my PC/Mac**

1. Try unplugging the USB cable and plugging it back in
2. Hold the Power/Select button to power off. Plug MOD into PC/Mac and then hold the Power/Select button to turn it on
3. Ensure you are using a high-power USB 2.0 port (not a USB port intended for keyboard)

### **MOD displays unusual or unreasonable statistics**

1. Accuracy of statistics is affected by GPS reliability. For best performance, use MOD in open spaces with a clear view of the sky
2. To reset statistics, navigate to "RESET STATS" in the Preferences menu and choose "YES" when prompted with "SAVE AND RESET STATS?"

### **Incorrect time on power Up after MOD has been in storage**

1. If you have set the clock to local time, MOD will automatically remember the time every time you power it on. However, if MOD has been in storage for many days without charging, the battery may drain completely and shut off the internal clock. If this occurs, the clock will not be set properly after charging and powering Up
2. Simply set the time in the “SET TIME” screen under “PREFERENCES” if you encounter this problem

### **Display does not turn on**

1. If the goggle has been powered off and stored in temperatures below -20°C (-4°F), the display may not activate when powered on. Try warming Up the display by moving indoors, or by wearing MOD for 10 minutes before turning on.
2. Try charging MOD using the Recon AC adapter for 1 hour, then attempt to power on.
3. Contact [www.reconinstruments.com/support](http://www.reconinstruments.com/support) if problem persists

### **Chrono does not start after pressing the Power/Select button**

1. The chrono needs to be reset before it can be started again. After you have stopped a chrono, use the Power/Select button to reset it. The numbers should return to 0:00:00 and be coloured GREY.
2. To start a new chrono, press the Power/Select button again. The numbers will change colour to YELLOW and the timer will begin counting.

### **Clock is adjusted automatically**

1. MOD uses GPS time to automatically adjust the clock to the nearest time zone. This occurs immediately after acquiring a GPS fix.

### **Display is too bright while viewing at night**

1. You can adjust the display brightness in the “BRIGHTNESS” menu under “PREFERENCES”. There are 3 brightness options: High, Med, and Low. Additionally, you can use the “DISPLAY OFF” feature to quickly deactivate the display, while continuing to record to memory.

### **Altitude inaccuracy**

1. MOD calculates altitude using a combination of air pressure and GPS data. When MOD is stationary, it adjusts the altitude reading obtained from the pressure sensor to match the GPS reading. However air pressure can change significantly with varying weather. This can cause altitude readings to be different from the actual altitude.
2. If altitude is inaccurate after you have been in an open area for more than 30 minutes, try turning off the MOD and turning it back on. The altitude reading should become more accurate within 10 minutes.
3. In general, clear weather will cause an increase in the displayed altitude, and stormy weather will cause a decrease in the displayed altitude.

## **12. Safety, Storage, and Cleaning**

MOD is a piece of electronics and should be handled safely, cleaned and stored properly. It is advised to handle MOD as if it were an MP3 player or Smart Phone; protecting and charging in a safe place after use.

Put away dry and protected in a room-temperature location away from sharp and harmful, or magnetic items. Do not store outside or exposed over night. Do not lay directly in the sun for long periods of time. Do not place items directly on top of MOD. It is not advised to store or pack MOD for travel with other hardgoods such as skis or snowboards, or inside of ski and snowboard bags.

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## 12.1 Important Safety Information

Recon Instruments' customized optics platform boasts a virtual image focused 5' away from the eye, which means eye strain is not a concern to the majority of users. Testing has shown that eye strain is no different than viewing the flatscreen television in your home. If at any time you experience nausea or eye strain when using MOD, take a break for several minutes. If you experience or have a history of any other health issues that would stop you from participating in recreational alpine activities such as skiing or snowboarding, please consult your physician before using MOD.

It is not suggested to wear eyeglasses along with ski goggles as the two may rub and cause abrasion or injury to the user and equipment. Please consult your optician before attempting to wear multiple eyewear solutions when skiing.

This device and its accessories are not toys for small children, and it may be possible to remove small parts and ingest them. Please keep our product out of reach of small children and used for their intended purposes in a supervised way.

MOD receives signals from GPS satellites, and uses Bluetooth low energy to communicate with the remote. Switch the device off in restricted areas; for example, in aircraft, near medical equipment, fuel, chemicals, or blasting areas.

MOD can be susceptible to interference which could affect GPS and remote connectivity.

MOD is classified as water resistant. Do not submerge MOD in water. Always store MOD in a warm and dry location.

## 13. Support, Service, and More Information

For all Support, service information please go to [www.reconinstruments.com/support](http://www.reconinstruments.com/support) for help in your specific region. Recon Instruments offers FAQ's, direct email queries, and a direct phone line for support at any time.

Please read this User Guide thoroughly for answers to general questions before consulting other means of support.

### 13.1 Firmware Upgrade Information

Recon HQ software will automatically detect if MOD has a Firmware Upgrade available for free download from [reconinstruments.com](http://reconinstruments.com). Simply plug the unit in to your computer, ensure you have Recon HQ Software downloaded, and that you have an internet connection.

Upon connection, if there is an available Firmware Upgrade, simply follow the prompts and you will be guided quickly through the next few steps.

**Important:** MOD must have sufficient battery power levels to successfully Upgrade firmware. Please ensure there is at least 5-10% of battery remaining before Upgrading firmware.



## 14. Warranty Information

### LIMITED WARRANTY FOR ● MODULE

These terms and conditions apply to Your purchase of the GPS-enabled module marketed by Recon Instruments Inc. ("Recon") under the trademark ● (the "Product"). Any reference below to the term "You" refers to the original buyer of any Product.

1. **Statutory Warranties.** This Limited Warranty sets out Recon's responsibilities as to the Product. Nothing in this Limited Warranty affects any rights You may have as a consumer and does not disclaim any statutory or implied rights that Recon cannot disclaim.
2. **Warranty Terms.**
  - (a) Recon warrants to You that the Product will be free from defects in materials and workmanship under normal use for one (1) year from the original date of purchase by You (the "**Warranty Period**"). The Limited Warranty is not transferable by You. All subsequent purchasers acquire the Product "as is" without benefit of this Limited Warranty. Where You purchased the Product from Recon's website, the date of purchase is the date of the purchase invoice issued to You by Recon.
  - (b) In the event Recon determines that the Product is defective, RIM may in its absolute and sole discretion:
    - (i) repair the defective part of the Product free of charge with new or refurbished parts;
    - (ii) replace the defective Product with a comparable new or refurbished product; or
    - (iii) in the event that Recon is unable to repair or replace the Product as provided under (i) or (ii), a proportionate refund of the purchase price You paid for the Product.

Where the Product is repaired or replaced during the Warranty Period, except as otherwise prohibited by applicable laws, the warranty for the repaired or replaced Product, as applicable, will expire upon the expiration of the original Warranty Period. Any warranty service or support under this Limited Warranty is conditioned upon Your return of the Product to Recon or its authorized service provider. Where there has been a replacement of the Product, the Product or its parts, as provided pursuant to the Limited Warranty, becomes Your property and the Product being replaced becomes Recon's property. Where there is a refund, You will return the Product to Recon and such Product becomes Recon's property.

3. **Exclusions.** The Limited Warranty does not apply:
  - (a) to normal wear and tear;
  - (b) if the Product or any its parts is opened, disassembled, or repaired by someone not authorized by Recon;
  - (c) if the Product was not purchased from Recon or its authorized retailers;
  - (d) to damages caused by misuse, moisture or liquids, proximity or exposure to heat, accident, abuse, neglect, misapplication, Your failure to abide by the use, safety, and maintenance instructions contained in the packaging of the Product, or repairs or modifications made by anyone other than Recon or its authorized service providers;
  - (e) to physical damage to the surface of the Product;

- (f) to any Product where the serial number has been removed or that has been damaged or rendered defective as a result of misuse, abuse, contamination, improper or inadequate maintenance or calibration, or other external causes;
- (g) to any equipment other than the Product;
- (h) to malfunction or defects resulting from the use of the Product in conjunction with accessories, products, services or ancillary or peripheral equipment not expressly approved or provided by Recon, and where it is determined by Recon that such malfunction or defect is not the fault of the Product itself; and
- (i) to any software, whether or not supplied by Recon.

Please review the instructions contained in the packaging for the Product carefully and take proper care to maintain the Product. Recon is not responsible for damage that occurs as a result of failure to follow the instructions intended for the Product. Returns or replacements of parts and/or Products may be subject to shipping, handling, replacement and/or restocking fees. Recon does not warrant that the operation of the Product will be uninterrupted or error-free.

4. **Returning the Product.** Recon is the provider of this Limited Warranty. Recon's warranty contact information can be found at ● **[NTD: Please insert contact information with respect to warranty inquiries]** You may need to provide a proof of purchase of the Product, in the form of the purchase invoice sent to You by Recon or an invoice from an authorized reseller of the Product, to evidence that You are the original purchaser of the Product. In the event You return the Product to Recon outside of the Warranty Period, Recon's standard repair terms and charges may apply. Recon may limit the Limited Warranty to the country where Recon or its reseller sold the Product to You. You may be responsible for shipping, handling, or other costs if You request warranty services not in the country of original purchase.
5. **Data Recovery.** You acknowledge and agree that Recon will not be responsible for any data, software, application, or information that may be damaged, lost, or destroyed during the course of evaluating, repairing, or replacing the Product. This Limited Warranty also does not cover backup, recovery, and reinstallation of Your data on the Product.
6. **Exclusive Remedies.** Repair or replacement of the Product as provided for in this Limited Warranty is the exclusive remedy provided to You under this Limited Warranty. To the extent permitted by applicable laws, this Limited Warranty is in lieu of all other warranties, express or implied, and except as set out in this Limited Warranty, all representations, warranties, endorsements, and conditions of any kind, express or implied, including, without limitation, ANY WARRANTIES OF TITLE OR NON-INFRINGEMENT AND ANY IMPLIED REPRESENTATIONS, WARRANTIES AND CONDITIONS OF FITNESS FOR A PURPOSE, MERCHANTABILITY, MERCHANTABILITY, NON-INFRINGEMENT, SATISFACTORY QUALITY, DURABILITY, OR ARISING FROM A COURSE OF DEALING OR USAGE OF TRADE ARE HEREBY EXCLUDED.
7. **Limitation of Liability.**
  - (a) RECON, ITS OFFICERS, DIRECTORS, AGENTS, EMPLOYEES, LICENSORS, SUPPLIERS, SERVICE PROVIDERS, RESELLERS, AND DISTRIBUTORS WILL IN NO WAY BE LIABLE TO YOU FOR, AND YOU HEREBY WAIVE YOUR RIGHT TO RECEIVE, ANY INDIRECT, ECONOMIC, SPECIAL, COMMERCIAL, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS, LOSS OF BUSINESS REVENUE OR EARNINGS, LOST DATA, DAMAGES CAUSED BY DELAYS OR A FAILURE TO REALIZE EXPECTED SAVINGS AND THE LIKE AND PERSONAL INJURY OR WRONGFUL DEATH DAMAGES) ARISING FROM OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE PRODUCT, EVEN IF SUCH PERSON/ENTITIES IS/ARE AWARE OF THE POSSIBILITY OF SUCH DAMAGES.

- (b) IN NO EVENT SHALL RECON'S LIABILITY UNDER THIS LIMITED WARRANTY TO YOU OR TO ANY THIRD PARTY CLAIMING THROUGH YOU OR ON YOUR BEHALF EXCEED THE PURCHASE PRICE OF THE PRODUCT THAT YOU PURCHASED OR THE COST OF REPAIRING OR REPLACING THE PRODUCT, WHICHEVER IS GREATER.
- (c) THE LIMITATIONS OF LIABILITY SET OUT IN SECTION 7(A) AND 7(B) ABOVE IS INTENDED TO APPLY AND DOES APPLY TO ANY DAMAGES, LOSSES, OR LIABILITY HOWEVER CAUSED, REGARDLESS OF THE THEORY OF LIABILITY (CONTRACT, TORT, NEGLIGENCE, OR OTHERWISE) AND EVEN IF RECON OR ITS LICENSORS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, EXCEPT WITH RESPECT TO LIABILITY FOR DEATH, BODILY INJURY, OR STATUTORY LIABILITY FOR INTENTIONAL AND GROSS NEGLIGENT ACT OR OMISSIONS, FOR WHICH NO LIMIT APPLIES.
- (d) Nothing in this Limited Warranty limits Recon's liability to You in the event of: (i) death or personal injury to the extent resulting directly from Recon's negligence; or (ii) any intentional fraudulent act or intentional fraudulent omission of Recon.

**8. Privacy.** Information about You that Recon receives or collects (including, without limitation, Your personal contact information and financial information such as credit card information) will be used, processed, transferred, stored, and disclosed in accordance with Recon's privacy policy (available at <http://www.reconinstruments.com/corporate/legal/privacy-statement>) for the purpose of resolving problems with the Product and to provide and perform the services relating to the warranty described in this Limited Warranty.

**9. Dispute Resolution.**

- (a) **Mediation.** Any and all disputes, controversy or claims arising out of or in connection with or in relation to this Limited Warranty or the breach thereof, including any question regarding its existence, validity, performance or termination and any tort or other common law or statutory claim arising out of or relating to its negotiation, execution or performance (collectively, the "**Dispute**"), will be first subject to non-binding mediation in an effort to resolve any such Dispute by participating in a structured negotiation conference with a mediator under the Commercial Mediation Rules of the British Columbia International Commercial Arbitration Centre. The mediation will be held in Vancouver, British Columbia, Canada. You and Recon agree to use best efforts to conduct any dispute resolution procedures herein as efficiently and cost effectively as possible. All aspects of the mediation will be treated as confidential. The costs of the Mediator will be shared equally between You and Recon. The mediation may, at the option of either party, occur by videoconference transmission. The party electing to participate in the mediation by videoconference will be responsible for paying the costs of one Mediator who must attend and participate in the mediation at the videoconference facility selected by the party engaging such person.
- (b) **Arbitration.** If the Dispute cannot be settled within 45 calendar days after the Mediator(s) has (have) been appointed, or such other period agreed to in writing by You and the Recon, the Dispute will be referred to and finally resolved by binding arbitration, with the losing party paying all costs of arbitration (including reasonable legal fees and expenses) to be conducted by a single arbitrator in Vancouver, British Columbia, pursuant to the provisions of the *Commercial Arbitration Act* (British Columbia) and any amendments thereto, and the determination of such arbitrator will be final and binding upon You and Recon; and if involving court proceedings, will be submitted to and be subject to the jurisdiction of the courts of the Province of British Columbia, with the losing party responsible for all costs and expenses, including without limitation, court costs and reasonable legal fees and expenses. A judgment on the award of the arbitrator may be entered into any court having jurisdiction over the party or parties against whom an award may be issued and each of You and Recon agrees to and hereby waives any defences against the enforceability and execution of any such judgment awarded by the arbitrator as hereby contemplated. Judgment on the award of an arbitrator may be entered by any court having jurisdiction over the person or property of the person against whom enforcement of the judgment is sought.

- (c) Any mediator or arbitrator will be appointed, pursuant to Subsection 9(a) and 9(b) above, by agreement between You and Recon or, in default of agreement, such mediator or arbitrator will be appointed by a Judge of the Supreme Court of British Columbia sitting in the Courts of Vancouver, upon the application of either such party.
- (d) In any arbitration proceeding between You and Recon, it is agreed that the parties will be entitled to discovery to the same extent permitted by the Supreme Court of British Columbia as if the matter were being adjudicated in such Court.
- 10. Attornment.** You waive (a) any right to object to venue or jurisdiction based on inconvenient forum or for any other reason; and (b) any statutory or other right pursuant to the laws of the jurisdiction in which the You are resident to have a court case or arbitral hearing relating to this Limited Warranty adjudicated or resolved in that jurisdiction. Any rule of interpretation, law or regulation that provides that the language of a contract will be interpreted against the drafter will not apply to this Limited Warranty.
- 11. Governing Law.** This Limited Warranty will be governed by and interpreted in accordance with the laws (procedural and substantive) of the Province of British Columbia and the federal laws of Canada as if made and performed by and between parties situate in such province and without regard to the conflict of law rules that would apply a different body of law.
- 12. Severability.** Each provision of this Limited Warranty is declared to be a separate and distinct promise and to be separable from all other such separate and distinct promises. If any promise, provision or part thereof is determined by a court of competent jurisdiction or other constituted legal authority to be void, unenforceable or unreasonable in whole or in part, it will not be deemed to affect or impair the enforceability or validity of any other promise or provision in this Limited Warranty or any part thereof and the said court or other constituted legal authority will have the authority to limit such promise or provision as it deems proper.
- 13. Waiver.** The failure by Recon to insist on strict compliance with any provision of these terms and conditions will not be deemed to be a waiver of such provision, and a waiver of any provision of these terms and conditions at any one time or times will not be deemed to be a waiver for any other time. The failure of Recon to assert its rights in a timely fashion for any of its rights or remedies under these terms and conditions will not be interpreted as a novation or a waiver of any subsequent or continuing breach and will not serve to modify, alter or restrict the right of Recon to assert any rights at any time thereafter
- 14. English Language.** Except to the extent prohibited by applicable law, You acknowledge and agree that that this Limited Warranty and any and all related documents be drawn up in English.

## 15. Regulatory Compliance



### 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

MOD (FCC ID: ZW5006) and Recon-Ready Remote (ZW5001) comply with FCC standard CRF 47 Part 15 subpart B and subpart C – section 15.249. Operation is subject to the following two conditions:

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

### Industry Canada Compliance

MOD and Recon-Ready Remote were certified with IC numbers 9717A-006 and 9717A-001, respectively.

These devices comply with Industry Canada licence-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.

## 16. Technical Specifications

### (a) Sensing

- Global Positioning System (GPS) Receiver
- Tri-axial Accelerometer
- Temperature sensor
- Barometric pressure sensor

### (b) Processing

ARM-based processor

### (c) Capacity

Holds up to 50 hours of recorded sensor data

### (d) Environment / Mechanical

Weight of the unit	:	~250 Grams (~7.1oz)
Overall Dimensions of the unit	:	185mm W x 102mm H x 91mm D (7.3"W x 4.0"H x 3.6"D)
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	:	6 g <sub>rms</sub> 10 Hz to 2000 Hz
Shock / drop resistance	:	100 g, 8 ms, ½ sine (1 m vertical drop)
Enclosure	:	Water Resistant enclosure, IP65

### (e) Environmental Considerations

RoHS compliant

Brominated flame-retardant-free

Mercury-free

### (f) Power requirements

Primary sUpply voltage	:	3.3 Lithium Rechargeable
Charge Time	:	1 hour fast charge to 80% capacity, 3 hours to full
Battery size and life	:	1200 mAhr / 6-8 Hours

### (g) Display and Virtual Image

Display resolution	:	WQVGA- 428X240
Display Type	:	LCD Microdisplay
Virtual image size	:	11 " Diagonal from 5 feet away
Max Horizontal field of view (FOV)	:	8° Vertical FOV: 6°Horizontal FOV
Diagonal FOV	:	10°
Color Depth	:	16 Bit
Brightness & Contrast control	:	4 mode brightness, with video chain sleep mode

### (h) RF and Antenna

#### GPS Receiver:


65-Channel Ultra Low Power GPS IC

Cold start of 2-5 minutes in typical outdoor environment

Multipath detection and suppression

### (i) Ports and Connectivity

Micro-USB plug for data connection and charging



(j) System Requirements

Windows PC: Intel Pentium 4 or higher, Windows XP, Vista, 7 or higher

Mac: Intel Core Duo or higher, Mac OS X v10.6 or later

(k) Languages

English and French

(l) Included Accessories

Recon Ready Remote

Micro USB to USB cable, 1 meter

Both NEMA and EU connect AC Adapters

Wrist/Backpack/Belt Strap for Remote

Goggle mount strap for Remote