

1 INTRODUCTION

TwoNav is devoted to making activities such as hiking, cycling and geocaching more fun and safer every day...

Link, by TwoNav, is a free application available for Android and iOS that is designed to enhance the capabilities of TwoNav's next-generation GPS. As a result, using the GPS together with the TwoNav Link app will enhance your user experience during your outings. Use this application responsibly.

- **Receive notifications:** Pair your TwoNav GPS with your smartphone to receive and view WhatsApp notifications, SMS and calls on the device.
- **Transfer files:** Transfer your activities and routes stored in the GO Cloud from the TwoNav Link app to your TwoNav GPS via Bluetooth, with no cables or interruptions.
- Manage your files on the GO Cloud: Upload routes and/or activities, analyze your outputs with graphs, data and stats, download files off-line to have them available when you don't have internet, and more.
- **Sync activities:** Once an activity is over, it will be uploaded to the GO Cloud automatically via Wi-Fi or Bluetooth.
- **Share activities on social media:** Get other fans involved in your achievements by sharing your best adventures on social media.
- **Upload activities to third party websites:** Automatically upload your best workouts or outings to popular services such as Strava, TrainingPeaks and many other platforms.



Even if you're able to use TwoNav Link app on any type of terrain, you should keep in mind a series of rules so that its use, far from being a source of potential risks, contributes to the safety of others:

- Maps always contain errors: In cartography, it is impossible to have 100% accurate information. Recent changes in directions, new streets or construction restrictions are examples that may partially invalidate the calculation of your route, so it is very important to be aware of these changes and adapt to new situations.
- Traffic rules always take precedence: Even if some of your routes or activities tell you otherwise, you must always observe the traffic rules wherever you are.



New developments are largely based on user suggestions. If you want to share an idea with us, you can do so from the website http://TwoNav.uservoice.com

If you have any questions about our products, please contact us through TwoNav's online technical support department at http://Support.TwoNav.com

2 INSTALLATION

2.1 COMPATIBILITY

To use the TwoNav Link app, you need:

- A smartphone with an internet connection
- A personal account in the GO Cloud (http://Go.TwoNav.com)

In addition, if you have a next-generation TwoNav GPS, your user experience will be even more complete. These are the TwoNav GPS units that are compatible with the TwoNav Link app:

Velo	Horizon	Trail	Aventura
Velo Road	Horizon Bike	Trail Bike	Aventura Motor
Velo Mountain		Trail 2	Aventura 2
		Trail 2 Bike	Aventura 2 Motor

TwoNav GPS devices and smartphones connect via Bluetooth, so the following considerations have to be taken into account:

- Only one GPS device can be paired at a time.
- In the case of the GPS, only one connection via Bluetooth is allowed at a time, which means that if you want to use sensors, they must be paired via ANT+™.

NOTE: If at any time your smartphone loses its internet connection, you will be able to continue displaying the lists of activities and routes you had accessed before losing the connection, since these will be stored in the application's cache. Even if the files are cached, they cannot be downloaded, shared or transferred to the paired GPS device until the internet connection is restored.

2.2 INSTALLATION

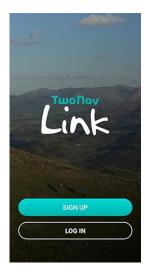
Installing the TwoNav Link app



The TwoNav Link app can be downloaded for free on your smartphone from the following estores:











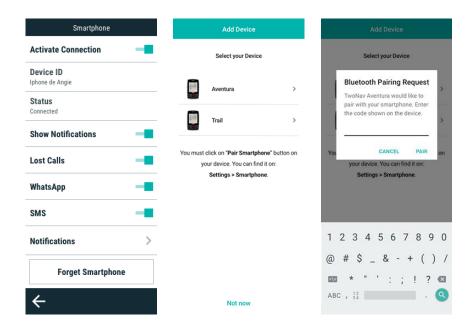
IMPORTANT: In order to use the TwoNav Link app, you have to be registered on the TwoNav GO Cloud (http://Go.TwoNav.com).

Pair the GPS to the TwoNav Link app

When pairing, you must have both the TwoNav GPS and the smartphone on hand and follow the instructions below:

- 1. On your TwoNav GPS, go to 'Main menu > Settings > Smartphone'.
- 2. Then press 'Pair Smartphone' to make the GPS visible to the TwoNav Link app.
- 3. Your TwoNav GPS will now be listed in the TwoNav Link app. Just select it.
- 4. To finish the validation process, a code will be shown on the GPS screen for you to enter into the TwoNav Link app.
- 5. From this moment on, the two devices will be paired.



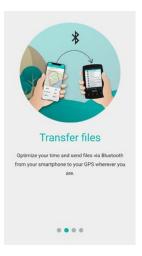


IMPORTANT: Once paired, you have to enable smartphone notifications in order to receive them on the TwoNav GPS.

2.3 GETTING STARTED

Once the pairing is done, as part of the first few steps in installing the TwoNav Link app, a tutorial with basic information will be displayed so you can get the most out of the application.









3 INTERFACE



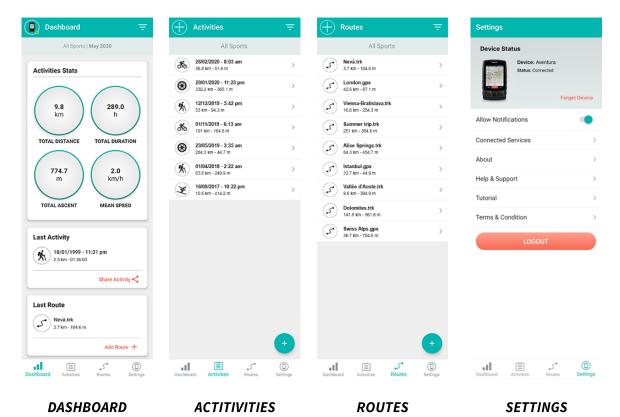






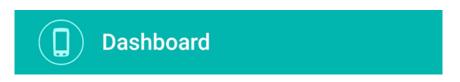


The TwoNav Link app has a navigation bar located at the bottom of the interface. The bar is fixed and is very useful for accessing the main sections of the app:



3.1 DASHBOARD

3.1.1 GPS STATUS



'GPS status' is located at the top left of the screen. This section shows the type of connection between your smartphone and the GPS. By pressing the icon, you can change the status of the GPS unit or pair it.



No devices paired





GPS paired and connected

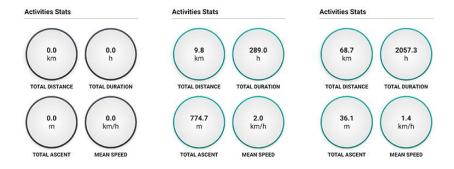
Notification and file transfer features are available.



GPS paired and disconnected

Notification and file transfer features are NOT available.

3.1.2 ACTIVITIES STATS



This is the main page of the app, a place where you will find a summary of all the data collected by the application. By default, it will show the statistics for the current month and for all the sports you have practiced. These are the data that the statistics will show:

- Total distance
- Total duration
- Total ascent
- Mean speed

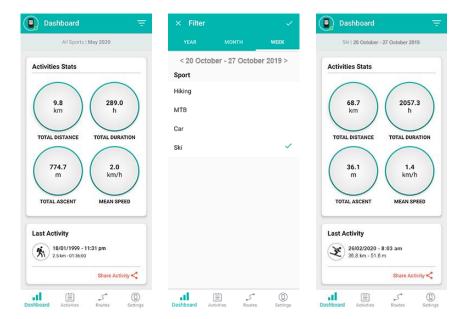
NOTE: If your GPS is not synced, or if you haven't uploaded any activity to your personal GO Cloud account (http://Go.TwoNav.com) yet, these statistics will be empty.

Filtering



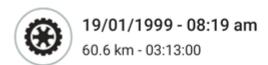
If you wish, you can edit the default view (data for the current month) using the filter at the top. It is located in the header at the right of the screen. You can filter by date - Year, Month, Week - or by Sport.





3.1.3 LAST ACTIVITY

Last Activity



Share Activity <

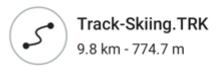
This section contains the last activity that was uploaded to the GO Cloud (http://Go.TwoNav.com). The TwoNav Link app considers any track traveled and recorded directly by you on your GPS or another connected device as an 'Activity'. Pressing on any activity will shows its details, where you can review interesting information from your last outing.

NOTE: If you have not yet uploaded any activities to the GO Cloud (http://Go.TwoNav.com), the 'Add activity' option will be shown so you can upload it manually.

3.1.4 LAST ROUTE



Last Route



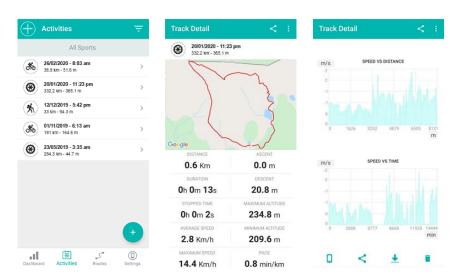
Add Route +

This section contains the last route uploaded to the GO Cloud (http://Go.TwoNav.com). A 'Route' in the TwoNav Link app is any track that has not been recorded by you, meaning it has been obtained from other sources (recommended by a friend or downloaded from the internet). Pressing on any route will show its details, where you can review interesting information from your last outing.

NOTE: If you have not yet uploaded any routes to the GO Cloud (http://Go.TwoNav.com), the 'Add Route' option will be shown so you can upload it manually.

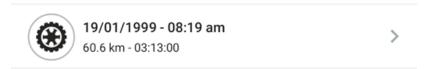
3.2 **ACTIVITIES**

In this section, you can manage and view all the activities you have done and uploaded to the GO Cloud (http://Go.TwoNav.com). The TwoNav Link app considers any track traveled and recorded directly by you on your GPS or another connected device as an 'Activity'.



The list will show you all the activities arranged by date, from the most recent to the oldest. Each activity has the following elements:





The activities will show the icon of the sport you had selected on the device you used to record the activity (hiking, mountain biking, road bike, trail running, etc.).



IMPORTANT: If you want to delete any activity from the TwoNav Link app, you can do so but keep in mind that this action cannot be undone. The files deleted from the application are also removed from the GO Cloud (http://Go.TwoNav.com) and will stop being available in every TwoNav environment.

Filtering activities

If you have a very long list of activities and find it difficult to find the activity you are looking for, we recommend using the 'Filter' function. The activity filter is located in the header, at the right. By default, the filter shows the activities for the current month and every sport. Refine your search by changing the time interval (year, month, week) and the sport you want to look for.

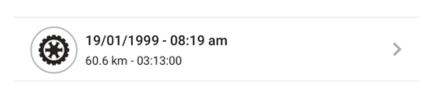


If you want to use another filter or return to the default filter, press the 'Filter' button again.

Activity analysis

To see more detailed information on any activity, simply tap on it:

• Activity summary:





• Map:

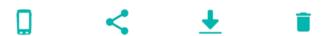


Data and graph fields:



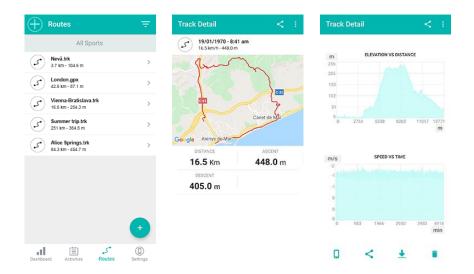
IMPORTANT: Learn about the different data fields in the Appendix.

• **Additional features:** Send activity to paired device, Share activity, Download offline activity, Delete activity.



3.3 ROUTES

In this section, you can manage and view all the routes you have uploaded to the GO Cloud (http://Go.TwoNav.com). A 'Route' in the TwoNav Link app is any track that has not been recorded by you, meaning it has been obtained from other sources (recommended by a friend or downloaded from the internet).



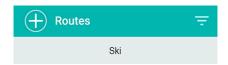
The list will display all the routes in alphabetical order. Each route has the following elements:



IMPORTANT: If you want to delete any route from the TwoNav Link app, you can do so but keep in mind that this action cannot be undone. The files deleted from the application are also removed from the GO Cloud (http://Go.TwoNav.com) and will stop being available in every TwoNav environment.

Filtering routes

If you have a very long list of routes and find it difficult to find the route you are looking for, we recommend using the 'Filter' function. The route filter is located in the header, at the right. By default, the filter shows every sport. Refine your search by changing the sport you want to look for.



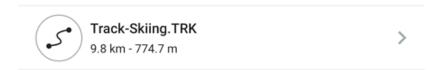
If you want to use another filter or return to the default filter, press the 'Filter' button again.

Route analysis

To see more detailed information on any route, simply tap on it:

Route summary:





• Map:



Data and graph fields:



IMPORTANT Learn about the different data fields in the Appendix.

• **Additional features:** Send route to paired device, Share route, Download offline route, Delete route.



3.4 **SETTINGS**



3.4.1 DEVICE STATUS



NO DEVICE PAIRED

DEVICE PAIRED

This space will show the GPS that is paired with the TwoNav Link app and its status. The following statuses are possible:

- No devices paired
- GPS paired and connected

 Notification and file transfer features are available.
- GPS paired and disconnected
 Notification and file transfer features are NOT available.

If the GPS is disconnected, it may be due to any of these reasons:

- GPS is out of Bluetooth range.
- The 'Activate connection' option on your GPS is not on (in GPS, go to: 'Main menu > Settings > Smartphone > Activate connection').

Pairing the GPS for the first time

If no GPS units are paired, start the process by pressing the 'Add device' button. During this process, please keep the TwoNav GPS nearby at all times.

Unpairing one GPS unit and pairing another

Remember that you can unpair your GPS and TwoNav Link app at any time in order to pair another device. To do so, press 'Forget Device' and repeat the pairing process again.



NOTE: In this case, we recommend unpairing your GPS in the Bluetooth settings of your smartphone.

3.4.2 ALLOW NOTIFICATIONS







ANDROID DEVICES ONLY: From this menu, you can activate or stop sending notifications (WhatsApp, SMS, incoming calls) from your smartphone to your TwoNav GPS via Bluetooth. To receive these notifications, you first have to give permissions in your smartphone.

IMPORTANT: If you have an iOS smartphone, you have to disable the on-screen message block to receive notifications.

3.4.3 CONNECTIONS WITH OTHER PLATFORMS











Connecting with other platforms will let you automatically share all your activities, such that whenever an outing ends and it is stored in the GO Cloud (http://Go.TwoNav.com), the TwoNav Link app will also send it automatically to the networks you have connected so your friends and followers can see your activities. This section shows the status of connections with third-party services:

- Strava
- TrainingPeaks
- Twitter
- Dropbox
- Google Drive

By pressing the button, you can go directly to http://Go.TwoNav.com, where you can check the status of each service and manage each of these connections individually.

3.4.4 ABOUT





Information on the current version of the TwoNav Link app. In addition, you can also access the TwoNav website, contact Customer Service, check the privacy policy and log into TwoNav's social media sites.

3.4.5 HELP & SUPPORT



Shortcut to TwoNav's Customer Service, where you can get answers on how to use the application, report errors and suggest improvements.

3.4.6 TUTORIAL

Very short tutorials with basic information to get the most out of the TwoNav Link app.









3.4.7 TERMS AND CONDITIONS

Link TwoNav

Shortcut to the TwoNav website, where you can read all the legal information (privacy policy and terms and conditions) on using this app, the TwoNav GPS and the rest of the company's products.



3.4.8 LOG OUT



Press this button to unlink your user account from the TwoNav Link app. If you reopen the TwoNav Link app, you will have to log in again.

4 FEATURES

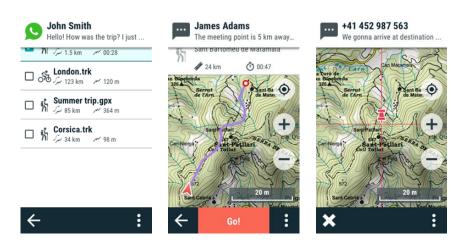
4.1 RECEIVE NOTIFICATIONS







The TwoNav Link app lets you receive WhatsApp notifications, SMS, incoming calls and display them on the GPS screen. This way you will always be connected during your activity. This service is automatically activated when a TwoNav GPS is paired with a smartphone through the TwoNav Link app.



When a WhatsApp notification, SMS or incoming call is received, it will be automatically displayed on the GPS screen. Tap on the notification to view it in detail.

IMPORTANT: If you have an iOS smartphone, you have to disable the on-screen message block to receive notifications.

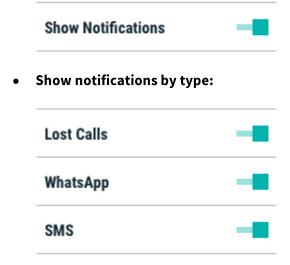


IMPORTANT: The notification will not be shown on the GPS screen if the 'Do not disturb' option is turned on in your smartphone. To display notifications on the GPS, you will have to disable that option in your smartphone.



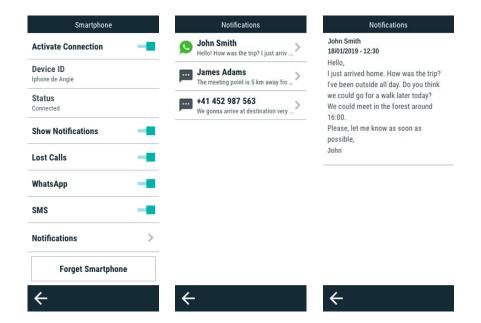
Your GPS makes it possible to specify which notifications you want to see on the screen. To do so, go to 'Main menu > Settings > Smartphone'.

• Show all notifications:



In addition, from the same menu you can view the details on all the notifications you have received. Tap each message to read it in full.





To delete notifications, press the icon located in the lower right of the screen and select 'Delete all notifications' (notifications cannot be deleted separately, you have to delete the entire list).

NOTE: Images and emojis in WhatsApp or SMS messages are not displayed, only text.

4.2 TRANSFER FILES GO-GPS CLOUD



With the TwoNav Link app, you can transfer files stored in your private area of the GO Cloud (http://Go.TwoNav.com) to the paired TwoNav GPS easily, quickly and wirelessly. You can transfer both activities and routes from the following areas:

• Lists of activities and routes:

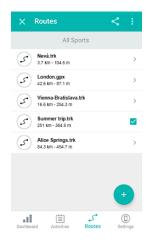
ANDROID

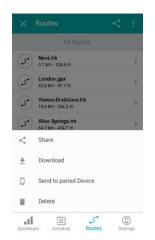
Long press on the activity and select 'Send to Paired Device'

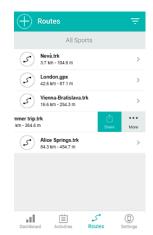
iOS

Swipe activity left and select 'Send to Paired Device'









• Pages with activity and route details:









NOTE: Only files smaller than 20 MB can be transferred using this method.

4.3 SYNC GPS-GO CLOUD ACTIVITIES



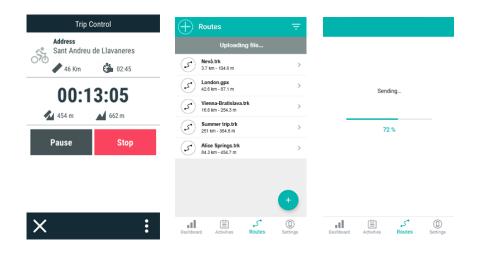




If your TwoNav GPS is set to 'Synchronize activities' (http://Go.TwoNav.com), once an activity ends, it will be automatically uploaded to the Cloud via Wi-Fi so that you can more easily store, analyze and instantaneously share it on Strava, TrainingPeaks and other platforms.

If you do not have internet at that time, the GPS will send the activity to your smartphone via the TwoNav Link app, which will try to upload the activity to your virtual storage space via Bluetooth.





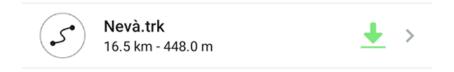
IMPORTANT: In order to sync activities via Bluetooth, the TwoNav Link app must be open on your smartphone, although not necessarily in the foreground.

A notification will appear on your smartphone informing you that the TwoNav Link app has received a file from your GPS and is processing it to send it to the GO Cloud (http://Go.TwoNav.com). Once the process is finished, a notification will appear confirming that your file is available in the Cloud.

4.4 OFFLINE FILE DOWNLOAD



Before going on an outing, if you anticipate not having internet, we highly recommend downloading an activity or route offline, meaning the file will not be physically downloaded to your smartphone, but will be stored by the TwoNav Link app virtually to make it accessible when you do not have internet, so that you can continue your activity.



IMPORTANT: The downloaded files will be marked with a green icon to identify them more easily.

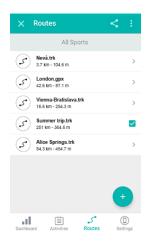
Both activities and routes can be downloaded off-line from the following areas:

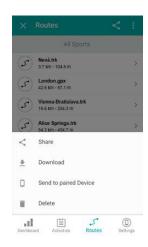


Lists of activities and routes:

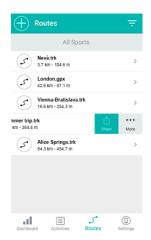
ANDROID

Long press on the activity and select 'Download'





iOSSwipe activity left and select 'Download'



• Pages with activity and route details:









4.5 UPLOAD FILES SMARTPHONE-GO CLOUD







If you have tracks stored only on your smartphone that you would like to have in a secure place that is accessible from other devices, we recommend uploading them to your personal space in the GO Cloud (http://Go.TwoNav.com). Upload files from the following areas:

• Dashboard:

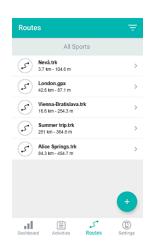


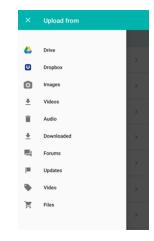


NOTE: You can only upload activities when the 'Last activity' section is empty.

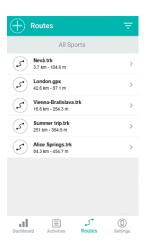
Lists of activities and routes:

ANDROIDFloating 'Add' button in the bottom right





iOS 'Add' button in the top left



• Pages with activity and route details:









4.6 SHARE FILES WITH FRIENDS









With the TwoNav Link app, you can share your best routes or activities with friends or other fans via email, WhatsApp, Facebook, Twitter and other social media sites. You can share both activities and routes from the following areas:

• Lists of activities and routes:

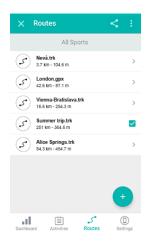
ANDROID

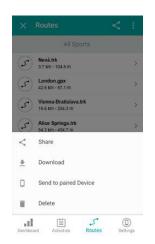
Long press on the activity and select 'Share'

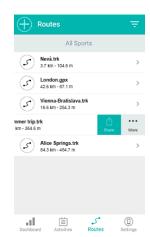
iOS

Swipe activity left and select 'Share'









Pages with activity and route details:









5 APPENDIX: DATA FIELDS

Check full list of data fields and their usage:

Distances

- **Deviation from route:** Distance to active route.
- **Distance to TrackAttack:** Distance between your current position and the position of the '*TrackAttack*'.
- **Distance to next radar:** Distance to next radar point.
- **Distance to destination:** Distance to destination (last waypoint of the route).
- Distance to next: Distance to the next waypoint.
- **Lap odometer:** Distance covered from the begining of the current lap section up to the current position. Value reseted every time a new lap section is started.
- **Profile odometer:** Accumulated distance of your current profile (hiking, mountain bike...). Value not automatically reseted every time the device is turned off.
- **Route percentage:** Percentage of the route that has been already done.



- **Total odometer:** Accumulated distance of all your trips. Value not automatically reseted every time the device is turned off. The device can calculate the total distance using different data calculations.
- **Trip odometer:** Distance covered from the beginning of itinerary. Value reseted every time the device is turned off.

Altitudes

- Altitude at next: Predicted altitude to next waypoint if current trajectory is maintained.
- Altitude: Altitude from the sea level.
- **Altitude difference to destination:** Difference between the altitude of destination and current altitude.
- **Altitude difference to next:** Difference between the altitude of the next waypoint and current altitude.
- Altitude ground level: Altitude from the ground level.
- **Ascent to next:** Ascent to the next waypoint.
- **Ascent to destination:** Ascent till destination is reached.
- **Barometric altitude:** Altitude provided by the barometric altimeter.
- **Current depth:** Current depth value taking as reference the nautical chart.
- **Depth at next:** Depth value at next waypoint
- **Depth at prow line:** Current depth value at prow line.
- **Descent to next:** Descent to the next waypoint.
- **Descent to destination:** Descent until the destination.
- **GPS altitude:** Present altitude provided by GPS rerceives via satellites.
- **Graph:** Representation of the track being covered.
- Land altitude: Altitude of the land provided by the 3D relief map (*.CDEM).
- **Lap climb:** Total amount climbed from the begining of the current lap section up to the current position.



- **Lap descent:** Total amount descended from the begining of the current lap section up to the current position.
- Maximum altitude: Reached during your itinerary.
- **Slope:** Slope of your current movement.
- Slope at next: Slope till the distance set at 'Next slope distance'.
- **Trip ascent:** Total amount climbed from the begining of itinerary up to the current position.
- **Trip descent:** Total amount descended from the begining of itinerary up to the current position.

Times

- **Chronometer:** Starts counting when started.
- **Estimated hour at destination:** Estimated time of arrival to destination (last waypoint of the route) at present speed.
- **Estimated hour at next:** Estimated time of arrival to the next waypoint (at present speed).
- **Estimated time to destination:** Estimated time to reach destination (last waypoint of the route) at current speed.
- **Estimated time to destination (cruise):** Estimated time to reach destination (last waypoint of the route) at cruise speed.
- **Estimated time to next:** Estimated time to reach next waypoint at current speed.
- **Estimated time to next (cruise):** Estimated time to reach next waypoint at cruise speed.
- **Lap chronometer:** Time elapsing the current lap section from the begining of the current lap section up to the current position.
- **Stopped time:** Total amount of time without moving.
- Sunrise: Sunrise time.
- Sunset: Sunset time.
- **Time:** Current time according to the selected time zone.
- **Time to TrackAttack:** Time difference between you and the 'TrackAttack'.

- Time in movement: Total amount of time moving.
- **Time without package:** Elapsed time since last time GPS signal was received.

Speeds

- **Current pace:** Speed in minute/kilometer.
- **Lap mean speed:** Average of all speeds values from the begining of the current lap section up to the current position.
- **Lap pace:** Average of all pace values from the begining of the current lap section up to the current position (speed in minute/kilometer).
- **Maximum speed:** Maximum speed in current itinerary.
- **Mean moving speed:** Average of all speeds values above the minimum speed movement.
- Mean speed: Average of all speeds values.
- **Mean moving pace:** Average of all pace values above the minimum speed movement.
- **Mean pace:** Average of all pace values.
- **Moving pace:** Average of all pace values avoiding stopped points.
- **Next radar speed:** Displays maximum speed allowed by the next radar.
- **Normal acceleration:** Perpendicular to movement in circular movements.
- **Partial mean speed:** Average of all speeds values from the beginning of itinerary up to this moment.
- **Speed:** Current speed.
- **Speed limit:** Speed limit established for the current road.
- **Tangential acceleration:** Component of linear acceleration tangent to the path.
- **Velocity made good:** Right direction's velocity component to the following waypoint.
- **Vertical speed:** Descending speed (vertical component of speed value).

Bearings

- Bearing: Current course.
- **Bearing to next:** Course towards to the next waypoint.
- **Compass:** Compass representation.
- **GOTO arrow:** Arrow that indicates the course towards to the next waypoint.
- Magnetic bearing: Course followed according to the inner device compass.

Effort

- % HRR: Heart Rate Reserve.
- % Maximum heart rate: Maximum heart rate.
- **Accumulated power:** Total amount power from the begining of itinerary up to the current position.
- Cadence: Current cadence at this moment (based on pedal stroke frequency).
- **Current power:** Current power at this moment (based on pedal stroke frequency).
- **Heart rate zone (% Max.):** Predefined heart rate intensity zones.
- **Heart rate zone (% Max-Rest):** Predefined heart rate intensity zones (Cardiac frequency in reserve).
- **Heart rate:** Current heart rate at this moment.
- **Instantaneous cadence:** Current cadence at this moment (based on power meter data).
- Instantaneous power: Current power at this moment (based on power meter data).
- **Left (or combined) pedal smoothness:** How smoothly power is delivered to the left pedal.
- **Left torque effectiveness:** How much of the power delivered to the left pedal is pushing it forward.
- **Maximum power:** Maximum power achieved from the begining of itinerary.
- **Mean power:** Average of all power values.
- OCA: Optimum chainring angle.



- **Pedal power:** Relative power left-right.
- Powermeter: Power of the last pedaling.
- **Right pedal smoothness:** How smoothly power is delivered to the right pedal.
- **Right torque effectiveness:** How much of the power delivered to the right pedal is pushing it forward.
- Total energy: Total odometer energy.
- **Trip energy:** Partial odometer energy.

GPS

- **Coordinates:** Coordinates of the current position.
- **Differential GPS:** GPS gives differential signal (submetric accuracy).
- **HDOP:** Horizontal Dilution Of Precision (estimated current accuracy of the GPS).
- **PDOP:** Position Dilution Of Precision (estimated current position accuracy of the GPS).
- **Precision:** Error margin of the GPS.
- **Used satellites:** Satellites fixed in current position.
- **VDOP:** Vertical Dilution Of Precision (estimated current vertical accuracy of the GPS).

Flight

- Altitude ground level: Altitude from the ground level.
- **L/D goal:** Minimum glide ratio required to reach your goal (going through all intermediate waypoints).
- **L/D instant glide ratio:** Glide ratio dividing horizontal distance by vertical (descending).
- **L/D required:** Minimum glide ratio required to reach next waypoint (distance to waypoint divided by waypoint's altitude over ground level).
- Land altitude: Altitude of the land provided by the 3D relief map (*.CDEM).
- **Slope to next waypoint:** Slope from your current position to next waypoint.
- **Slope to destination:** Remaining slope till destination is reached.

• **Vertical speed:** Descending speed (vertical component of speed value).

General

- **Air pressure:** Present atmospheric pressure provided by the barometric altimeter.
- Battery: Remaining energy in your device.
- City: Current city.
- Croquis: Image displaying manoeuvres.
- **Current lap:** Identifies the lap where you are at the present moment.
- File name: Name of the current track.
- **Free memory:** Remaining memory in your device.
- **Next waypoint name:** Name of the following waypoint.
- **Next2 waypoint icon:** Icon associated to the waypoint following the next waypoint.
- **Number of points:** Track points saved up to current position.
- Place name: Name of the element of your current position.
- **Radar icon:** Displays an icon when entering the radius of a radar.
- Radius turn: Radius of the turn that you are taking at the moment.
- **Relative humidity:** Current humidity rate.
- **Signpost:** If available, road indications are displayed.
- Virtual free memory: Virtual free memory in your device.

NOTE: Due to platform restrictions, some functions may only be available in certain devices.