routepilot

USER GUIDE

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INTRODUCTION

The RoutePilot® app has been developed as a roam-free tool, to help you navigate routes created on Plotaroute, or any other route planner that exports routes to GPX files. It operates as a recreational satnav, providing on-screen directions, audible alerts, and optional background voice navigation. It will also enable you to record routes, which you can then upload to your Plotaroute account, or export to a GPX file for use with another application.

The app includes our custom *Wayranger*® topographical maps, which have been designed with outdoor pursuits in mind. There is an option to download selected areas of the map for offline use, so you can confidently go off-grid without worrying about losing a mobile signal.

While RoutePilot will work with any route planner that has a GPX export option, it will work best if used in conjunction with Plotaroute, as routes can be transferred more easily, along with full turn-by-turn directions where available. You can link RoutePilot to your Plotaroute account in the RoutePilot app's settings.

To get started:

1. **Settings** - link RoutePilot to your Plotaroute account (optional).

2. **Routes** - import a pre-planned route (from Plotaroute or a GPX file).

3. **Routes** - select "Show route on map".

4. **Map** - tap the tracker icon to start navigating.

See below for more a more detailed description of all the features of the app.

MAP

Feature	Description
Position Tracker	When the app initially opens, your current position will be indicated by a location arrow icon. To track your current position, tap the Location Arrow button. To stop tracking tap it again.
Map Zooming	You can zoom in and out of the map by pinch zooming, using the +/- zoom buttons or by tapping he Zoom Level button above the map. You can hide the +/- zoom buttons in the Settings tab.
Map Rotation	To manually rotate the map, twist it using 2 fingers. The map will rotate automatically during route navigation if you have "Map Orientation" set to "Head Up" in the Settings tab.
Map Tilting	To tilt the map, place 2 fingers side by side on the map and drag them upwards. The map will tilt automatically during route navigation if you have "Tilt map when navigating" turned on in the Settings tab.
Map Scale	The scale of the map is displayed in the bottom left corner of the map. You can hide the map scale in the Settings tab.
Range Finder	Press and hold on the map to display a Range Finder. This shows various distances in concentric circles from your current location as well as an arrow pointing North.
GPS Status (GPS)	When the GPS is activated the GPS Status will display the accuracy of the signal.
Zoom Level (ZOOM)	Displays the current zoom level of the map. Tap it to select a different zoom level. If you have a route displayed, there is also a "Fit Route" option, which adjusts the map to display the whole route.
Compass Status (COMPASS)	When tracking is activated, the Compass Status will display the current direction your device is pointed.
Download Maps (MAP)	Tap this to download maps for offline use. A selection grid will be displayed over a map. Tap on an area of the map to select it

Feature	Description
(PREMUM FEATURE)	and then tap "Refresh Offline Maps" to download the maps for this area to your device.

You can also remove a previously downloaded area in the same way, to free up space on your device. |
| **Compass and Location** | Tap the GPS Status to display the Compass panel.

The compass indicates the direction you are pointing.

The coordinates and elevation of your current location are also displayed and can be shared by tapping the "Share Location" button.

Drag down on the Compass panel to close it. |
| Features available after selecting a route |
| **Route Display** | After selecting "Show route on map" from the Routes tab, the route will be displayed on the map with direction arrows to indicate which direction to follow it.

The following features are optional and can be hidden in the Settings tab:

- Waypoints (black dots with labels)
- Distance markers (at intervals along the route)

Zoom in to see more detail, including any labels for waypoints.

Waypoints are available only if imported with the route. Routes created on Plotaroute will have waypoints for direction if the route was plotted using the Auto-Plot feature.

To temporarily hide the route so that you can see map details underneath it, press and hold on the map. |
| **Elevation Profile** | Tap the Elevation Chart button to toggle the display of the route's elevation profile.

This will be 'filled in' during route navigation to indicate your progress along the route, allowing you to see when hills are coming up. |
| **Waypoints List** | Tap the Waypoints List button to show a scrollable list of waypoints attached to the route. Tapping on a waypoint in the list will zoom in the map the waypoint's location. |

Feature	Description
Navigation Simulation	Tap the Play button (right triangle) to enter Navigation Mode and simulate navigation of the route. During simulation you can tap the Rewind or Fast Forward buttons to skip backwards or forwards along the route. Tap the Play button again to stop the simulation and the Location Arrow button to exit Navigation Mode.
Route Navigation	Tap the Location Arrow button to enter Route Navigation mode and begin navigation using GPS (tapping it again will exit Navigation Mode). The app will work your position on the route from your location and the direction you are heading, using either chnages in your GPS coordinates or the direction your device is pointing depending in your Settings. The app will notify you about upcoming waypoints and will will distances and estimated times to the finish and the next waypoint as descrived below. Please be aware that your battery will drain more quickly while GPS is being used.
Next Waypoint	In Navigation Mode, details of the next waypoint will be shown at the top of the screen. This includes the distance or time to the waypoint (tap to toggle between the two) and the waypoint description. If the waypoint is a turn, a turn arrows will be displayed indicating the direction of the turn. If the waypoint description is cropped due to lack of space, you can tap it to expand it. Tap it again to shrink it back to its original size. The app will alert you as you approach waypoints. You can change the alert method and warning distance in your Settings. If you are off-route the app will display a warning and alert you. You can change the off-route warning distance in your Settings.
Navigation Data Fields	There are three Data Fields displayed at the bottom of the screen when in Navigation Mode. You can change the units of the data displayed in the Settings tab. DISTANCE TO FINISH - This shows the distance from your current position to the end of the route. TIME TO FINISH - This shows the estimated time to reach the end of the route or the ETA (tap to toggle this data field). To change the speed used to estimate navigation times, select the correct Activity in your Settings then record and save a route. Your speed over the recorded route will be used to estimate times when

Feature	Description
	navigating future routes using your selected Activity profile.
	SPEED/ELEVATION - This displays either you current speed, you average speed on this route or the elevation at your current position (tap to toggle this data field).

ROUTES

Feature	Description
Import from File	Routes can be imported from GPX files saved on file storage accessible by your device.
	GPX files must contain a route in the form of a GPX track (with a <trk> tag) or a GPX Route (with a <rte> tag).
	Where a file contains more than one track segment, these will be appended into one single track.
	Any waypoints in the GPX file will be imported with the route. Waypoints that are close to points on the route, will be used to support navigation. Off-route waypoints will be shown on the map only.
	Turn arrows will be generated automatically for any on-route waypoints, unless the turn direction is specified by one of the following waypoint symbol types:
	- Left - Right - Left_slight - Left_sharp - Right_slight - Right_sharp - Straight - U-turn
	The following additional waypoint symbol types are supported:
	- Bar - Bike Trail - Campground - Car - Convenience Store - Danger Area - Drinking Water - Fast Food - Flag, Blue - Flag, Green - Flag, Red - Gas Station - Horn - Hotel - Information

Feature	Description
	• Lodge • Lodging • Medical Facility • Parking Area • Picnic Area • Restaurant • Restroom • Scenic Area • Shopping Center • Shower • Summit • Swimming Area • Telephone • Trail Head • Truck
Import from Plotaroute	Once you have linked the app with your Plotaroute account in the Settings, you can import routes from your Plotaroute account to the app. Select the route you want to import from your My Routes page in Plotaroute and choose "Send route to mobile app". It will then appear under the Routes tab in the app. If it doesn't immediately appear, tap Sync to load any routes awaiting transfer.
Show route on map	Displays the selected route on the map (see Map section of User Guide for more details). The currently selected route is highlighted in the list.
Hide route from map	This option is available when tapping on the currently selected route and removes the route from the map.
Rename route	Changes the name of the route on the app.
Export to a file	Routes stored in the app can be exported to GPX files in the GPX Track format. The file will contain the trackpoints for the route and any waypoints.
Upload to Plotaroute	Once you have linked the app with your Plotaroute account in the Settings, you can upload selected routes from the app to your Plotaroute account. The uploaded route will be available under My Routes on Plotaroute.
Filter by route name	Entering text in the filter box will filter the list of routes to show only those containing the text you entered.

Feature	Description
Edit routes	Tapping Edit will enable you to delete routes you no longer want from the app. If you import the route from Plotaroute, this will not delete the route from Plotaroute.
Sync routes	If you have linked the app with your Plotaroute account in the Settings, tapping Sync will load any routes awaiting transfer from Plotaroute. A manual Sync is not normally necessary as the app automatically checks for pending route transfers when you access the Routes tab.

RECORD

Feature	Description
GPS Status	The accuracy of the GPS signal is shown at the top of the Recorder. It will be green when an accurate signal is available and red if not. You can change the minimum GPS accuracy required in the Settings tab.
Start Recording	If an accurate GPS signal is available, tapping Start Recording will start the Recorder. It will capture GPS data points along with time, speed and elevation data. The Recorder will continue to record in the background if your device is displaying a different app or is in standby mode. Please be aware that your battery will drain more quickly while GPS is being used.
Pause Recording	Tapping Pause during recording will suspend the recording process. You can then choose to either Resume, Reset or Save (see below).
Auto-Pause Recording	If you have selected "Auto-pause when stationary" in the Settings tab, the Recorder will pause and resume automatically when you stop and continue moving.
Resume Recording	Tap Resume to restart recording after it has been paused.
Reset Recording	Tap Reset to reset the Recorder ready to start a new recording.
Save Recording	Tap Save to save the recorded route in the Routes tab.
Data Fields	The Recorder will display the following data fields during recording. DISTANCE - Distance recorded (show in green when recording) CURRENT SPEED - Current speed reported by GPS tracking AVERAGE SPEED - Average speed over distance recorded, ignoring pauses in recording ELAPSED TIME - Time passed since the Recorder was started RECORDED TIME - Time pass while Recorder was recording
Elevation Chart	The Recorder will display a bar chart showing the average recorded elevation for regular distance intervals. The interval length will vary depending on the length of the recorded route.

SETTINGS

Feature	Description
Units and Formats	Under here you can set various units and formats you wish to use: • Long distance (km, miles) • Short distance (metres, yards, feet) • Elevation (metres, feet) • Speed (kph, mph) or Pace (mins per km, mins per miile) • Coordinates (demical or degree, minutes, seconds) • Date (dd/mm/yyyy, mm/dd/yyyy)
Activity Type	Choose from one of 4 activity profiles (Walking, Running, Cycling, Other). The selected profile will be used to determine the default speed to be used for estimating times when navigating.
Map - Map Orientation	Sets the orientation of the map when navigating a route - North Up always points North and Head Up rotates the map based on your current heading.
Map - Tilt map when navigating	Tilts the map during navigation to give a 3D perspective.

Map - Map Features	Choose to show or hide the following optional map features:
	
	• Map layers
	    o Contours
	    o Summits
	    o Hiking Networks
	    o Cycle Networks
	    o Bus Stops
	    o Car Parks
	    o 3D Buildings
	• Zoom buttons
	• Map Scale
	• Range Finder
	• Waypoints (on routes and map)
	• Distance Markers (on routes)

Map - Offline Maps	The section includes your Download History for offline maps, which displays a list of any offline map downloads you've requested. Tapping on one of the downloads from the list will show you the area of the map that was downloaded in the Map tab. From here you can review and remove the offline maps from your device if you wish, by tapping the download button (more details above in the Map tab section).

Feature	Description
	There is also a setting to require WiFi for map downloads, which you can turn on to prevent the use of mobile data for map downloads.
Navigation - Update Heading	This setting controls how your heading is determined when navigating: • When device is rotated - your heading is based on the direction your device is pointing. Use this if you plan to always have the device pointing in the direction of travel. • When device changes position - your heading is based on the direction you are moving, using GPS updates. Use this if want to be able to rotate your device in different directions when navigating. NOTE: Changes in position will always be used to determine your heading if the app is not displayed on your screen.
Navigation - Waypoint Alerts	The following settings control alerts you can get for approaching waypoints during route navigation: • Waypoint alerts - you will be alerted of approaching waypoints if this setting is turned on • Waypoint notice - how far ahead of the waypoint to alert you • Only alert waypoints at turns - if this setting is turned on you will only receieve alerts for waypoints that involve a turn (waypoints where you go straight one won't generate an alert).
Navigation - Off-Route Alerts	The following settings control alerts you can get when you deviate from the route you are navigating: • Off-route alerts - you will be alerted when you are no longer on the route • Off-route distance - how far away from the route you need to be before you get alerted
Navigation - Alert Type	These settings control how you would like to be alerted: • Voice alerts - spoken alerts • Keep voice announcements brief - reads out abbreviated waypoint descriptions rather than the full text • Vibration alerts - vibrates when you receive an alert • Sound alerts - makes a sound when you receive an alert

Feature	Description
Recording - Recording Interval	This controls how frequently GPS data points are recorded when you are recording a route: Smart recording - records points only after a change in direction of speed (uses less storage space on your device) Fixed intervals - records points at fixed regular intervals
Recording - Min Ascent Filter	Changes in elevation less than this level are ignored.
Recording – Max Gradient Filter	Changes in elevation that have a gradient above this level are ignored.
Recording - Auto-Pause When Stationary	Automatically pauses recording when you stop moving and resumes when you move again.
Recording – Show Recorded Route on Map	Enable this setting to display the recorded route on the map. The recorded route will be shown on the map as an orange line.
GPS	These settings allow you to manage how GPS is used by the app. • Required GPS accuracy - GPS readings that are less accurate than this will not be used for recording or navigation • Pause GPS when app not displayed - suspends GPS usage to conserve battery when the app is not displayed or your device is in standby mode
Plotaroute Account	Tap Account to enter your Plotaroute account information, which will link the app to your Plotaroute account. You can then transfer routes between Plotaroute and the app (see Routes and Recording sections of this User Guide for more details). To disconnect a link to a Plotaroute account, tap Account then tap the Disconnect button. Premium members of Plotaroute automatically have access to Premium benefits in the app (offline maps and an ad-free experience).
App Subscription	Here you can sign up for a Premium subscription for the app and review your subscription details. A Premium subscription provides access to additional features and an ad-free experience.

Feature	Description
	Restore purchases - select this option if you have reset or changed your device and you need to restore a previously purchased subscription.