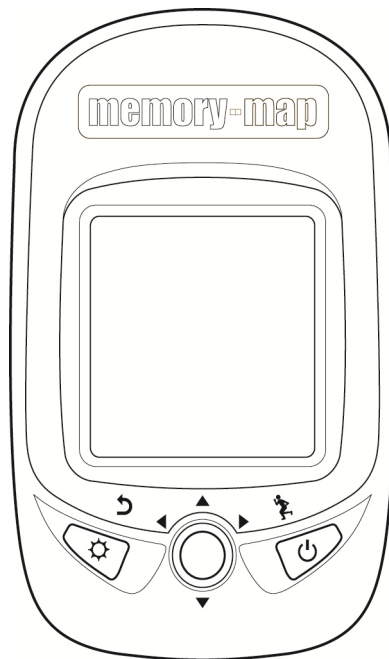




Bike 270 Pro



User Guide.

Safety Precautions.

- Use the power adapter included with the package, using power adapters other than the one provided will result in malfunction and could prove dangerous.
- Battery replacement should not be performed by consumers, only professionally trained maintenance personnel should do the removal of the cover and the internal components. Note: It may cause explosion if the battery is not properly replaced with the same or equivalent model. Please contact the original professional service personnel to replace the battery.
- Do not use the power adapter in a wet environment. When hands and feet are wet, do not touch the power adapter.
- While using the power adaptor ensure that the area is well ventilated. Do not let paper or other material cover the power adaptor, as this will interfere with cooling. Do not use the power adaptor whilst it is in a bag.
- Do not attempt to repair the device. If this device is damaged or is in a wet environment, replace the device immediately.
- This device is waterproof (meets IPX 7 standard) but not protected against water immersion.

Warranty Information.

The Memory-Map Bike 270 Pro is warranted to be free from defects in material and functions for a period of one year from the date of purchase. If there is a product failure of within this period (under normal conditions), a replacement will be provided at no charge to the customer. For more warranty information please see the back of this user manual.

Copyright Information.

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RF Exposure Warning.

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

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Introduction.

Thank you for purchasing the Memory-Map Bike 270 Pro. The Memory-Map Bike 270 Pro comes with a sturdy feel and shape and is packed with great features. In addition, it is compatible with an optional ANT+ heart rate monitor straps, ANT+ bike cadence sensors and ANT+ bike speed sensors for anyone who wants to have in-depth analysis on their rides and accordingly sharpen their outdoor performance.

Memory-Map Bike 270 Pro works as a GPS data logger with internal memory, plus, it also serves the purpose of a speed meter that shows immediate sport information including speed, distance, time, and pace while users are exercising. Plus, the built-in 3D compass and barometer sensors make it a perfect gadget for outdoor lovers to find their direction and altitude. One of its simplest functions is to work as a pedometer for everyday exercise measurer and motivator.

Bike 270 Pro is bundled with a set of powerful software called *ezPlanner Plus* and *ezPlanner*. The former helps users with their health fitness management, while the latter enables users to plan their course prior to their outdoor adventure.

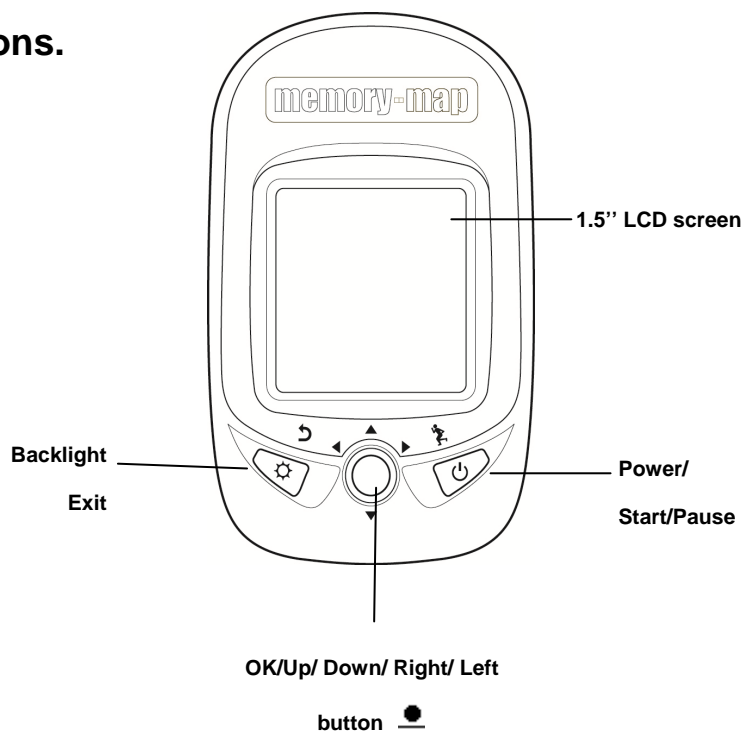
The device plays the role of outdoor best companion and in the meantime reminds users how they can contribute to the environment by calculating and showing the amount of CO² emissions reduced and the amount of calories consumed when users are walking/hiking/cycling instead of driving.

Features.

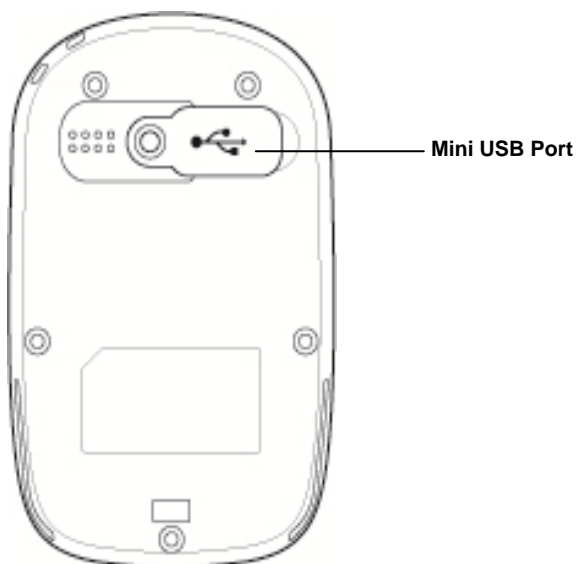
- GPS positioning
- Follow course: Allow users to plan routes at home and download routes to the device!
- BMI calculation
- Automatic page flipping
- Auto power off after a specified interval with no signal
- Multi Finder can record up to 20 locations and supports return-to -starting-point
- TripStart automatically records the first GPS fixed location when power on
- Can simulate an analog speedometer and use a large-font display
- 3 sport modes for calorie calculations
- Track Log function can start recording after satellite fix
- Generate QR code for current coordination
- Supports metric, imperial, and nautical measurements
- Supports 12-hour or 24-hour and time zone
- Pedometer
- Designed to work with leading wireless sport and fitness sensors, including ANT+ heart rate monitor straps, ANT+ bike cadence sensors and ANT+ bike speed sensors.

Parts and Functions.

Front View



Rear View

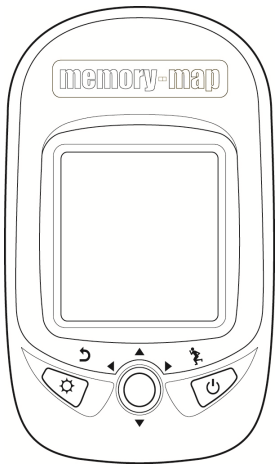
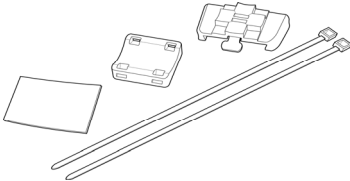

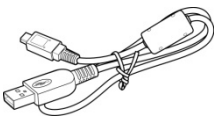


Button

Name	Icon	Function
Power button		Press to pause/ resume log when the device is turned on.
		Press for 3 seconds to power on/off the unit.
Exit		Exit to previous level of menu
Backlight		Press for 3 seconds to turn on/off the backlight.
5-Direction		Use Left, Up, Right, and Down to select an option.
OK		Press the OK button in the middle to confirm selection.

Standard Accessories.

Please make sure the following accessories are included in the box. Please contact your supplier immediately if there are any missing items.

<i>Memory-Map Bike 270 Pro</i> 	<i>Bicycle Mounting Kit</i> 
<i>Quick Guide</i> 	<i>USB cable</i> 

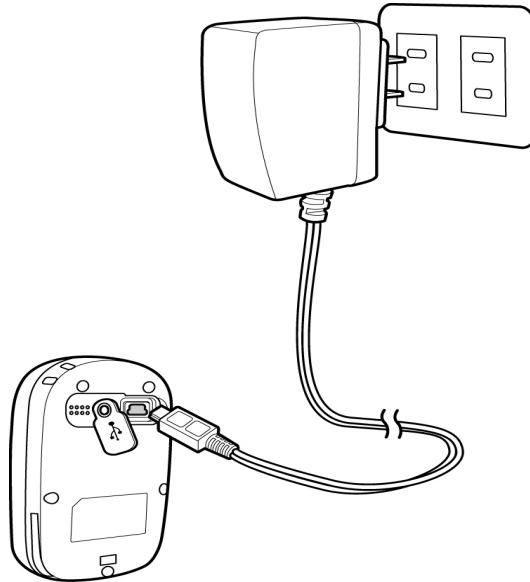
Optional Accessories.




ANT+ Heart Rate Monitor (HRM) set	
ANT+ Bike combination Speed & Cadence Sensor	
Pouch	

Charging the Battery.

Using the AC Charger

1. Plug the mini USB plug of the AC charger into the mini USB port at the back of the Memory-Map Bike 270 Pro.
2. Plug the AC charger into a wall outlet.



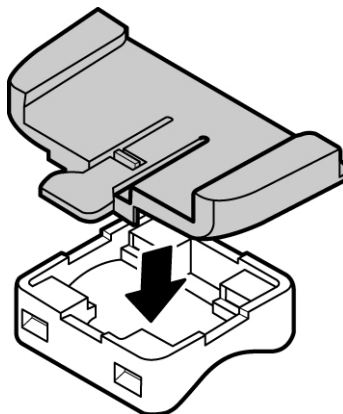
When charging, the Power indicator shows . After charging is completed, the Power indicator shows . If the power indicator shows  while charging, it means the charging is automatically disabled because of circuit protection at high temperature.

Note: Do not charge the device at high temperature otherwise the charging may not be performed or the lithium battery cannot be fully charged.

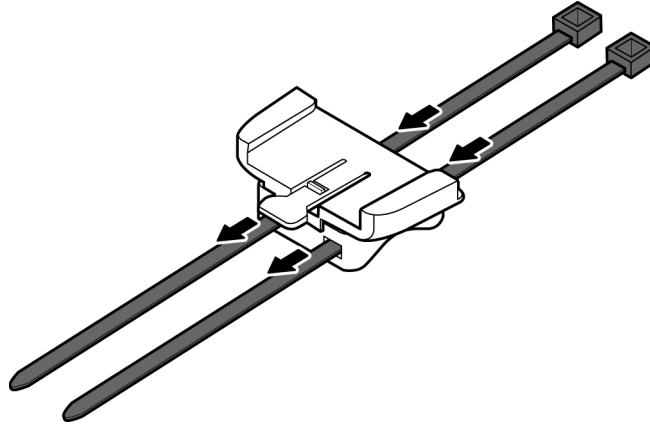
Installing Bike Mount

You can install the bike mount and the GPS on the left or right side of the handlebar or on the stem.

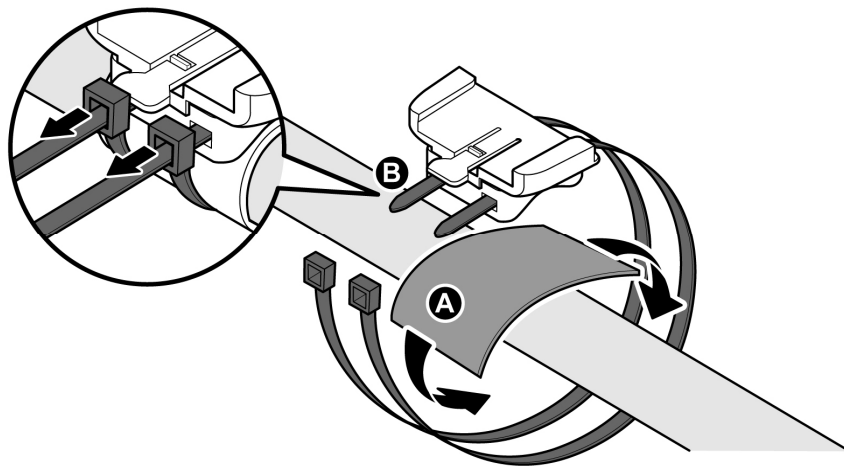
1. Attach the bracket to the bracket holder.



2. Thread the two cable ties through the slots of the bracket holder.

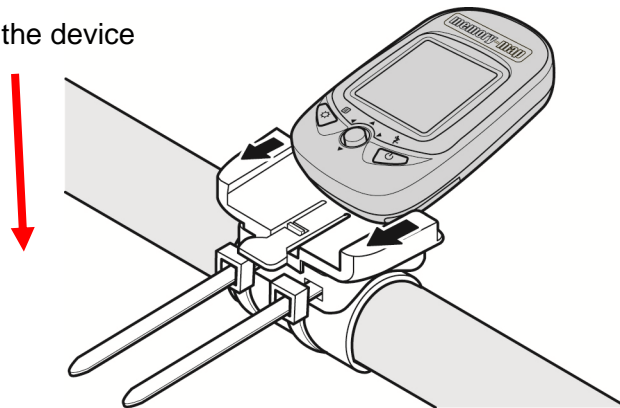


3. Place the rubber pad under the bike mount and attach the bike mount securely to the bike stem using the two cable ties.



4. Slide in the GPS on top of the bike mount until it snaps into place.

Press here to release the device



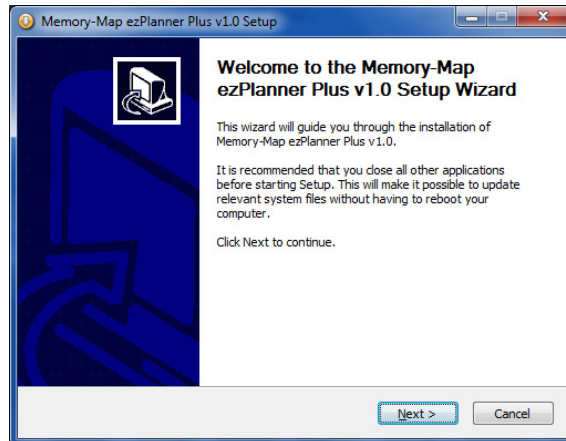
Note: Cable ties are reusable

Downloading Track Logs

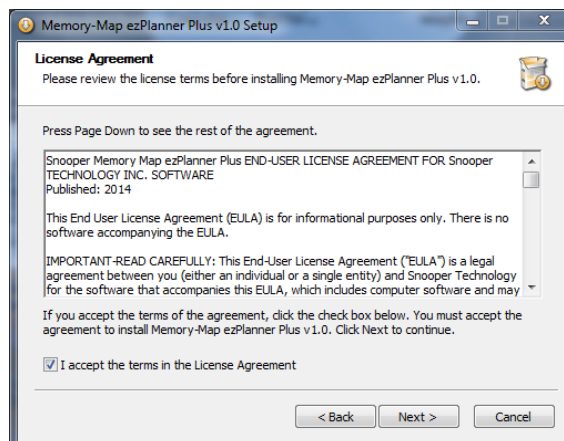
To download the recorded track log and view it on your computer, firstly you will need to install the bundled **ezPlanner Plus**.

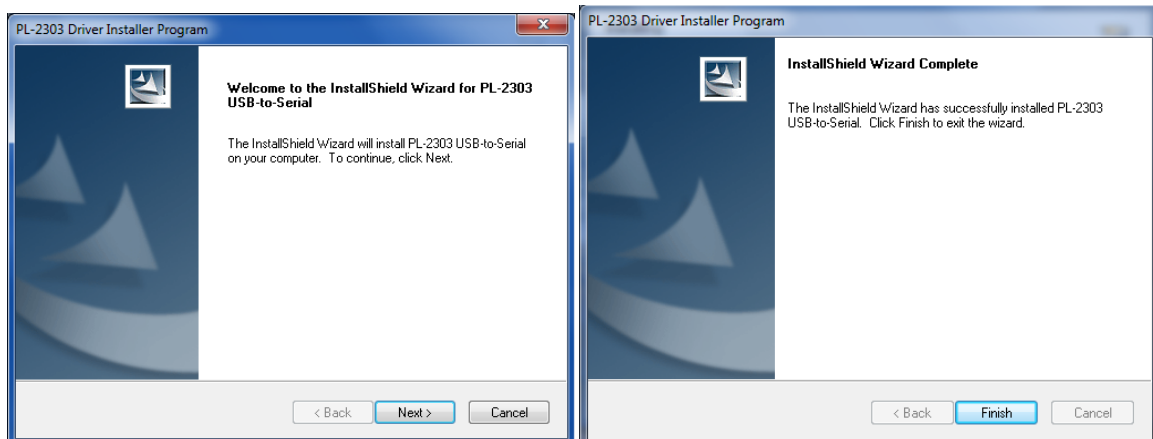
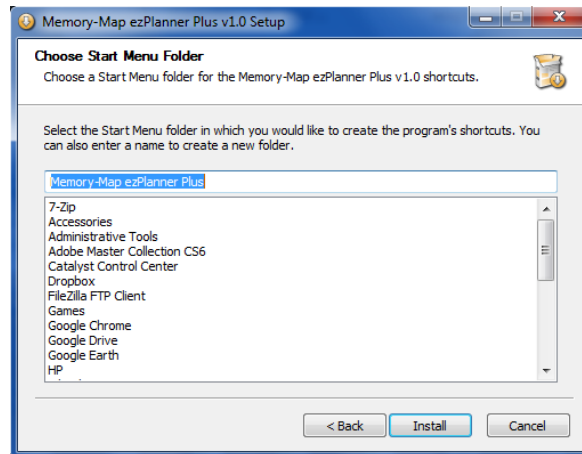
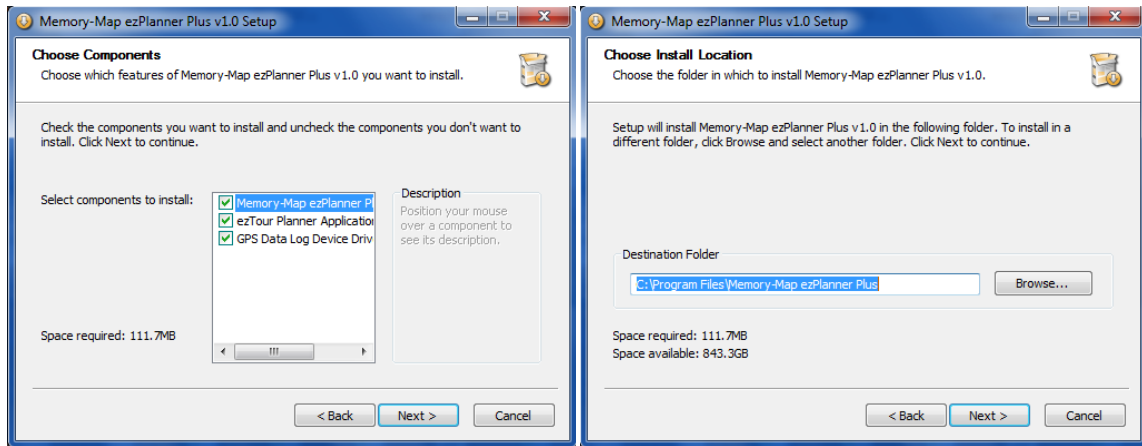
Installing ezPlanner Plus

1. Download the PC ezPlanner software from snooperneo.co.uk. Follow the on-screen directions, saving the software to a PC or run. (You must register your device first before being able to access the software)




2. Click Next to begin the installation. The License Agreement screen opens.
3. Read the agreement, click I accept the terms of the license agreement, then click Next.
4. Follow the on-screen instruction to proceed. The installation wizard will guide you through the steps.






Click Finish to exit the wizard.

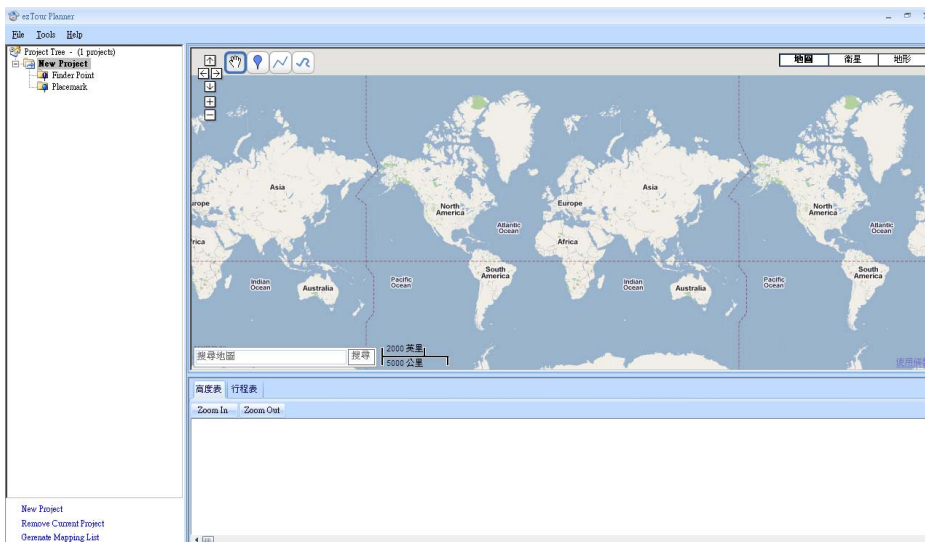
Starting ezPlanner Plus

Once the **ezPlanner Plus** is well installed in your computer, the **ezPlanner Plus** icon  will appear on your desktop as a shortcut. Double-click the icon to start ezPlanner Plus. The following opening screen appears and you are ready to use the software. For details, please refer to the included **ezPlanner Plus** user manual.



Starting ezPlanner Plus

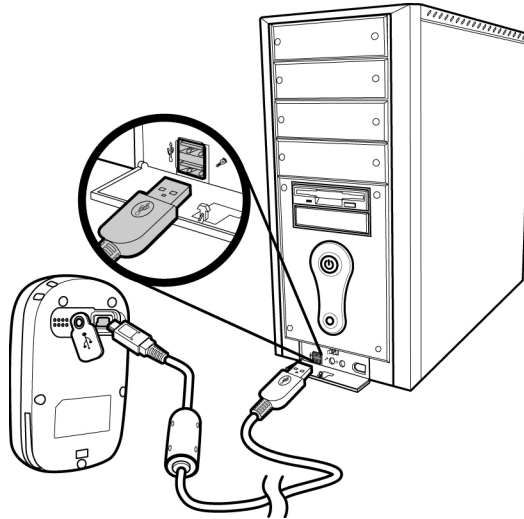
The **ezPlanner Plus** will be automatically installed when the ezPlanner Plus is installed and the program icon  will appear on the tool bar. Double-click the icon and the software to start planning your courses.



Connecting to a PC

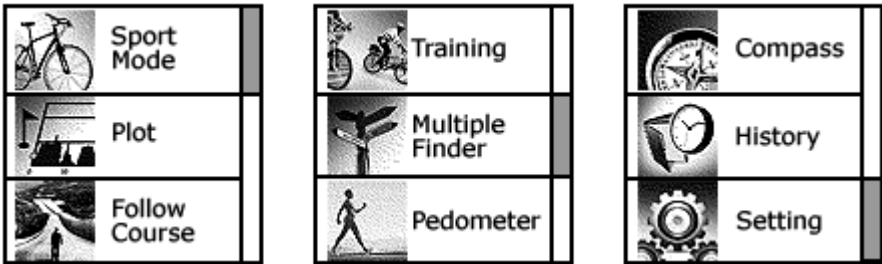
After the ezPlanner Plus is installed, you can now connect your Bike 270 Pro to your computer to download the recorded track log. Use the included mini USB cable to connect the Memory-Map Bike 270 Pro with your computer as described below.

1. Connect the mini USB plug (smaller) of the USB cable to the mini USB port at the back of the device.
2. Connect the USB plug (larger) or the USB cable to a USB port on your computer.



Introduction of 9 Function Modes

Main Menu



The main menu appears when the device is turned on by pressing the power button. 9 operation modes are displayed in the main menu including Sport, Plot, Follow Course, Training, Multiple Finder, Pedometer, Compass, History and Setting modes. Use the up/down button ▲▼ to scroll up/down and select the mode by pressing the **OK** button ●. To escape from mode and return to main menu, press ↶

This chapter describes respective functions of each mode.

Sport Mode.



In Sport mode, user can turn on/off the log recording. This mode displays sport information including analog speed meter, speed, time and distance, barometer altitude, calories consumed, and CO2 reduced. Press the 5-way button left ◀ and right ▶ to switch among different sub pages for different sport information.

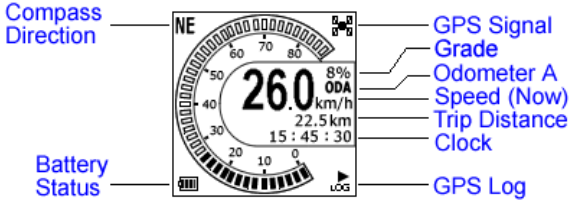


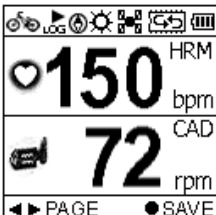

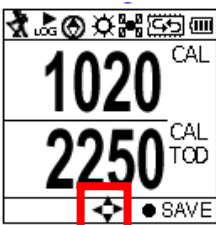

There are total five sub pages to display sport information in the Sport Mode. Sport information shown on Sub Page 4 and 5 can be determined by users. This 5 way button icon ↕ shown on these two pages means these two pages can be customize. Move the Up/ Down ▼▲ button to select the information to be displayed on Top or Bottom. Enter the Menu to select information. When finished, press the OK button ● to return to the previous level.

Speed Meter

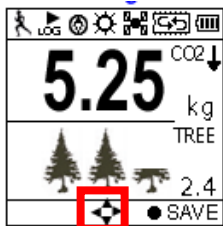


Dashboard/ Analog speed meter

Displays the speedometer in analog fashion. Information displayed in this page includes Compass, GPS Signal, Battery Status, Log (status), Grade, Odometer, Current Speed, Trip Distance, and Clock.


	
<p>Sub Page 1</p> 	<p>Speed & Distance:</p> <p>Displays current speed and distance.</p>
<p>Sub Page 2</p> 	<p>Altitude and Trip Time:</p> <p>Displays barometer altitude and the variation since the log started.</p> <p>Altitude reading is indicated on Barometer altitude and is displayed as B. If users want to have the GPS altitude which will be displayed as G, they can set it through user definable pages on Sub Page 4 or 5.</p>
<p>Sub Page 3</p>  	<p>HRM and CAD: (Heart Rate Monitor & Cadence)</p> <p>Displays current heart rate and cadence.</p> <p>When HRM sensor is not detected, the warning message appears. Please check the HRM strap to see if it is still worn appropriately.</p>
<p>Sub Page 4</p> 	<p>Calories:</p> <p>Displays calories consumed since the log started and total calories consumed today.</p> <p>This 5 way button icon  shown on this page means the information shown on this page can be determined by users. Move the Up/ Down ▼▲ button to select the information to be displayed on Top or Bottom. Enter the Menu to select information. When finished, press the OK button ● to return to the previous level.</p>

Sub Page 5

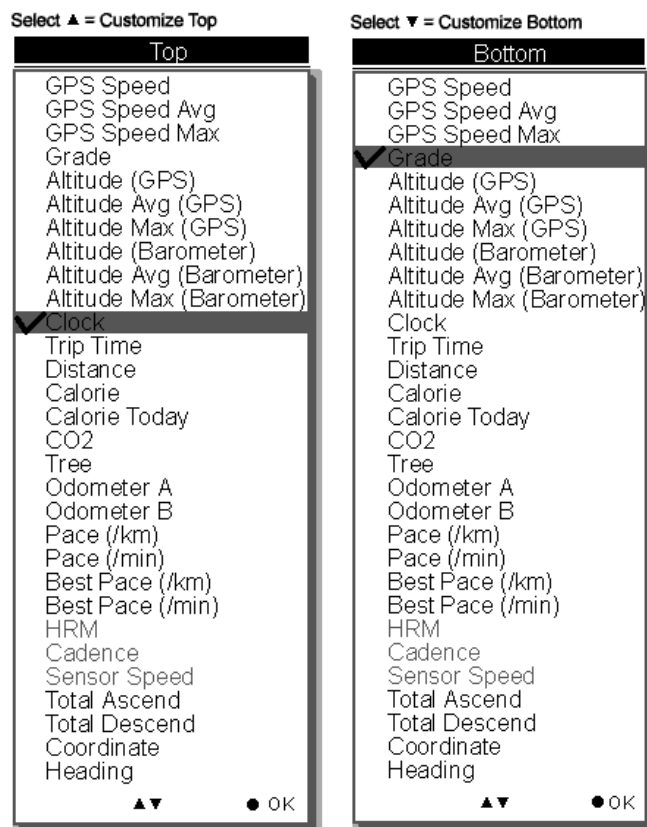


Carbon Saving:

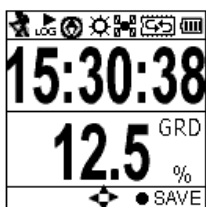
Displays amount of carbon dioxide emissions avoided or number of trees planted by not driving in one journey.

This 5 way button icon  shown on this page means the information shown on this page can be determined by users. Move the Up/ Down ▼▲ button to select the information to be displayed on Top or Bottom. Enter the Menu to select information. When finished, press the OK button ● to return to the previous level.

The sport information can be selected by users and displayed on Sub Page 4 and 5 are listed as below.

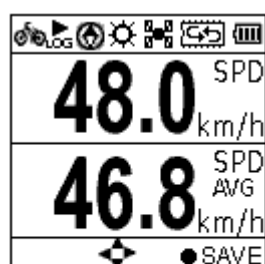


The above selection, for example, will result in the display on Sub Page 4 as shown.

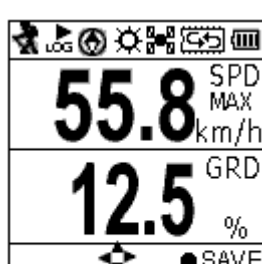


User Defined Screen

Listed below are user defined screens of all combination.



GPS Speed
GPS Speed Avg



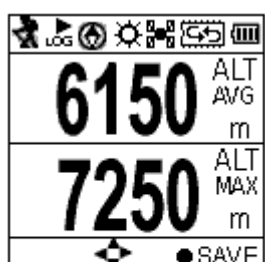
GPS Speed Max
Grade



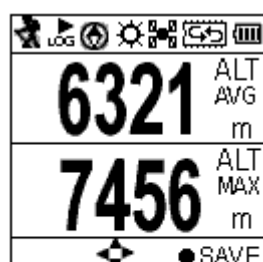
Altitude (GPS)
Altitude (Barometer)



Best Pace (min/km)
Best Pace (km/min)



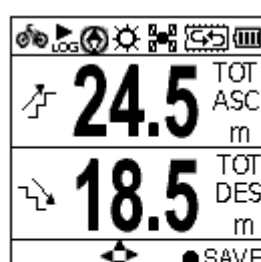
Altitude Avg (GPS)
Altitude Max (GPS)



Altitude Avg (Baro)
Altitude Max (Baro)



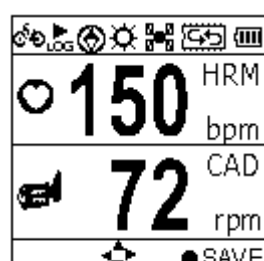
Trip Time
Trip Distance



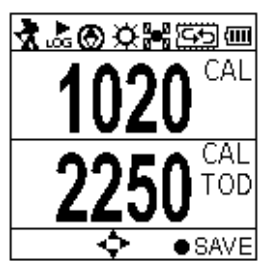
Total Ascend
Total Descend



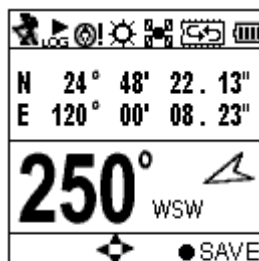
Clock
Sensor Speed



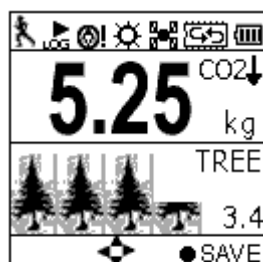
Heart Rate
Cadence



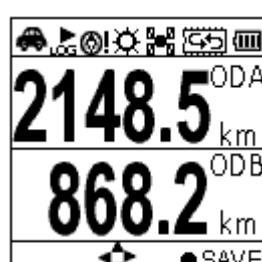
Calorie
Calorie Today



Coordinate
Heading



CO2 (kg)
Tree (pcs)

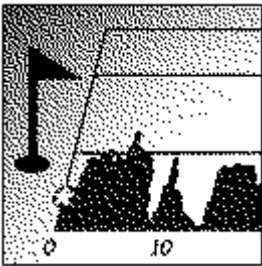
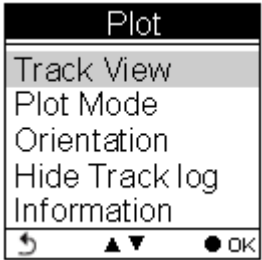






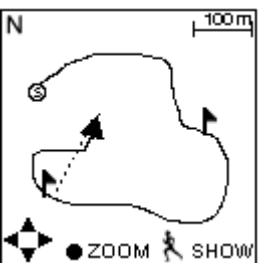






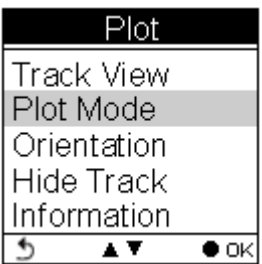
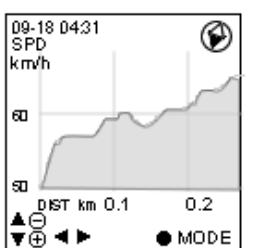
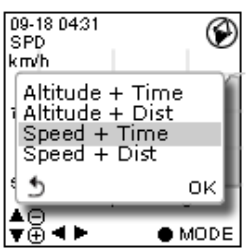
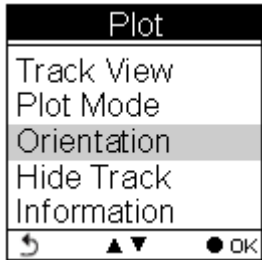
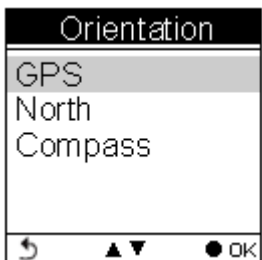
Odometer A
Odometer B

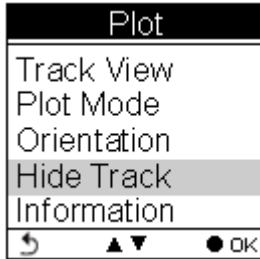
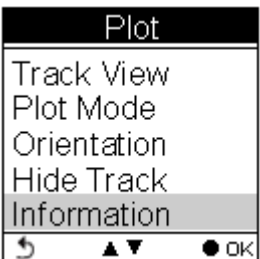


Pace (min/km)
Pace (km/min)

Plot Mode.

	<p>Plot mode shows track log in graph and in real time display without interruption.</p> <p>The real time transectional plot shows four units of sport information including:</p> <ul style="list-style-type: none"> ■ Altitude + Time ■ Altitude + Distance ■ Speed + Time ■ Speed + Distance
	<p>Plot</p> <p>Displays the graph for altitude and time. Use the down ▼ and up ▲ buttons to zoom in and zoom out. Use the right button to move the x- and y- along the graph.</p>
	<p>View Mode</p> <ul style="list-style-type: none"> ■ Real-time track drawing ■ Push the OK button to enter Pan/Zoom mode <p>  Compass </p> <p>  POI </p> <p>  Real time track drawing; push to enter Pan/Zoom mode </p> <p>  Back to Menu </p> <p>  Show POI. Press again to disable the function. POI name will be displayed in the language edited in ezPlanner Plus. </p>
	<p>Pan Mode</p> <p> N North </p> <p>  track to left/right & top/bottom </p> <p>  Back to View Mode </p> <p>  Press to show POI. Press again to disable the function. POI name will be displayed in the language edited in ezPlanner Plus. </p>

	<h3>Zoom Mode</h3> <ul style="list-style-type: none"> Zoom out /Zoom in Back to View Mode Show POI. Press again to disable the function. POI name will be displayed in the language edited in ezPlanner.
	<h3>Plot Mode</h3> <p>Display Altitude/Speed plot</p>
	 <p>The following x- and y-axis combinations are available:</p> <ul style="list-style-type: none"> ■ Altitude + Time ■ Altitude + Distance ■ Speed + Time ■ Speed + Distance
	 <p>Orientation direction can be based on</p> <ol style="list-style-type: none"> 1. GPS 2. Always north 3. According to Compass <p>The orientation direction appears on Track View (in Plot Mode) to help users with more track information besides Altitude, Time, Speed, and Distance.</p>

 <p>The screenshot shows a menu titled 'Plot' with the following options: Track View, Plot Mode, Orientation, Hide Track (highlighted), and Information. At the bottom of the menu are three icons: a circular arrow, a triangle pointing up and down, and a circle with the text 'OK'.</p>	<p>Select to toggle between Hide Track and Show Track.</p>
 <p>The screenshot shows the same 'Plot' menu, but now 'Information' is highlighted. The other options and bottom icons remain the same.</p>	<p>Information varies as it displays real-time sport information.</p>

Follow Course Mode.



Enter this mode to follow a well- recorded track or from history logs.



To follow course, tracks can be acquired from one of the following methods:

1. Plan your routes with ezPlanner and then send it from the PC to Memory-Map Bike 270 Pro. Please refer to the ezPlanner user manual for details.
2. Get course directly from History log recorded in this device.

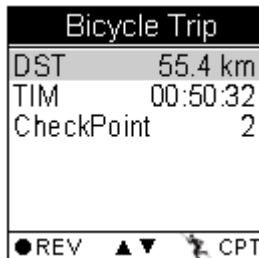
Follow course from **listed** tracks



List

Displays the tracks currently stored on the Memory-Map Bike 270 Pro.

The listed tracks were pre-planned and exported from ezPlanner

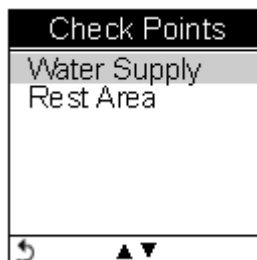


Track details includes:

Distance, time, maximum speed, average speed, calories, altitude, carbon reduction, trees planted, and the number of check points in the track.

Maximum and average heart rate together with maximum and average cadence can be also displayed if they are activated.

Only Distance, Time and Speed will be displayed in the track detail when the list is exported from ezPlanner.



Check Points

Preview all checkpoints and the details of check points in one track.

When a check point is selected, you will be prompted to confirm if the selected check point is the starting point to follow. Press the OK button ● to confirm.

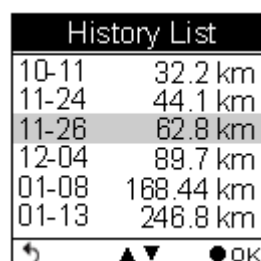


Follow course from **history** logs



History List

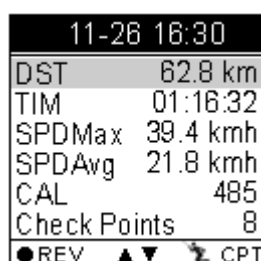
Displays the tracks logs currently stored on the Memory-Map Bike 270 Pro.



Track details:

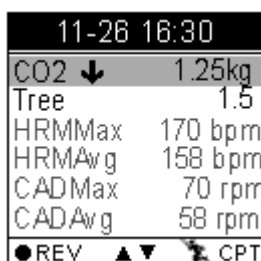
All history logs are listed in time order followed by track distance.

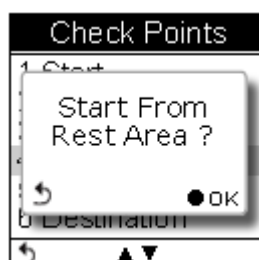
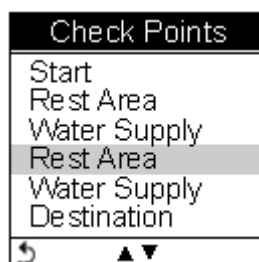
Move the up and down cursor to select the log. Press the OK button to review the log in details.



Distance, time, maximum speed, average speed, calories, altitude, carbon reduction, trees planted, and the number of check points in the track.

Maximum and average heart rate together with maximum and average cadence can be also displayed if they are activated.



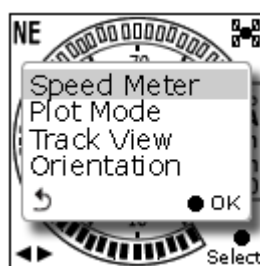


Check Points

Preview all checkpoints and the details of check points in one track.

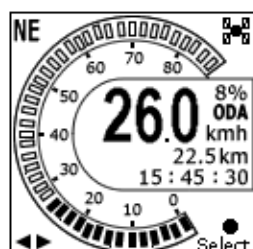
When a check point is selected, you will be prompted to confirm if the selected check point is the starting point to follow. Press the OK button ● to confirm.

View Track Course in Speed Meter Mode



View Track Course

Loaded track can be displayed in four modes, i.e. Speed Meter, Plot Mode, Track View and Orientation.

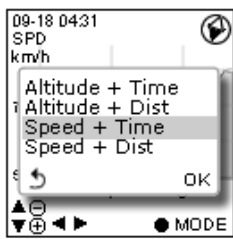
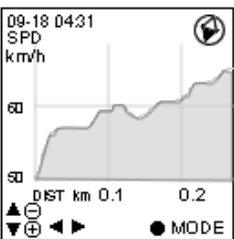
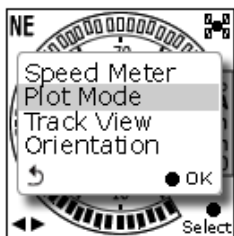


User left right button to switch between pages.

Shows distance & ascend to next check point and distance to the destination.

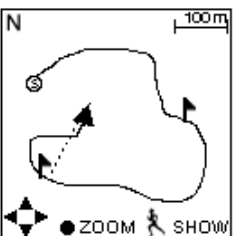
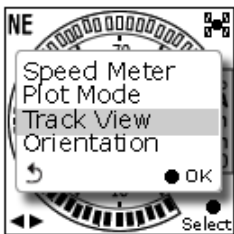
To next check point	←	To Water
Target Direction	←	↗ 253.5 km
Total Ascend	←	↗ 32.5 m
Time based on current speed	←	ETA 00:45
To destination	←	To Destination
Target Direction	←	↗ 324.5 km
Total Ascend	←	↗ 32.5 m
Time based on current speed	←	ETA 02:05

View Track Course in Plot Mode



Show track on Plot Mode.

View Track Course in Track View



Shows Check Points on track;
Zoom in / out for the loaded track.

Press the ● button to enter/toggle between the Zoom & Pan mode

Training.



The Memory-Map Bike 270 Pro provides two kinds of training features including HRM (Heart Rate Monitor) and Cadence to notify users when a pre-determined setting is exceeded or fallen behind.

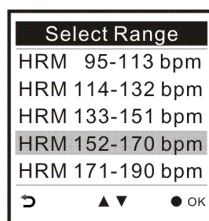
Training - HRM



HRM is set to notify users with alarm when the heart rate exceeds or falls behind a *specific range of heart rates per minutes*. The *specific heart rate range* is pre-determined in the Select Range page. There are 5 ranges starting from the highest/most intensive level to the most relaxed level for selection based on the user's birth year. The highest range of HRM is below,

Highest HRM rate = 220 – user's age

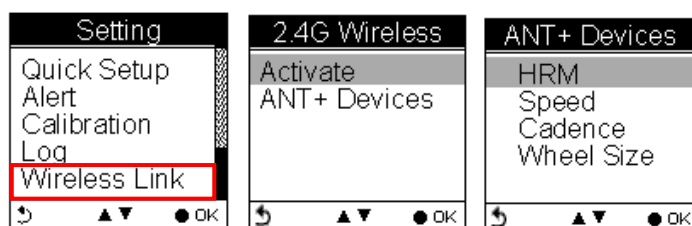
For example, when the user is 30 years old, the is 190 (bpm).



derived from the equation listed

highest/most intensive range of HRM

Users must activate the HRM sensor before they start the training. See section titled Setting to activate/deactivate the HRM sensors. Go to **Setting → Wireless Link → Activate → ANT+ Devices → HRM**.

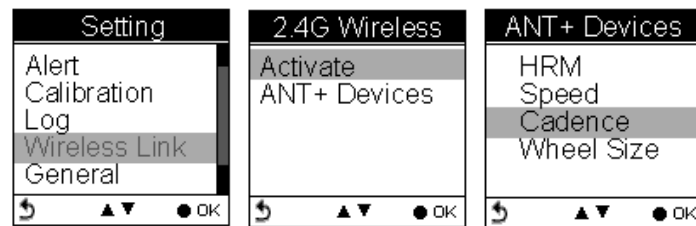


Training – Cadence

Cadence is the number of revolutions of the crank set per minute for cyclists. Cyclists can set cadence alert when current cadence exceeds or falls behind a specific range of the revolution of the crank set per minute (rpm).

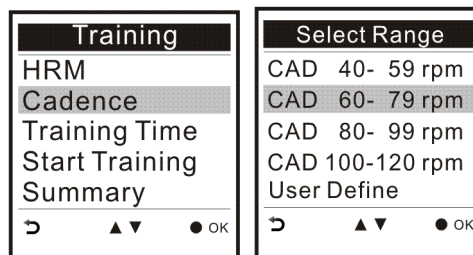
Users must activate the cadence sensor before they start the training. See section titled Setting to

activate/deactivate the Cadence sensor. **Go to Setting → Wireless Link → Activate → ANT+ Devices → Cadence.**

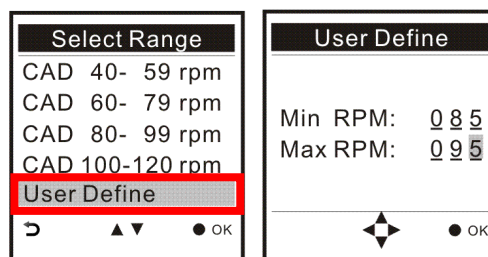


Cadence range can be selected from default list or can be defined by users. See illustration below.

Select Cadence range from list:

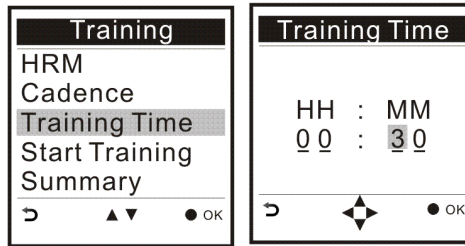


Define Cadence range by user:

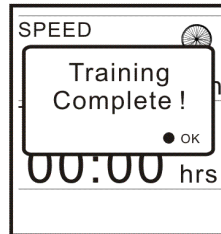


Training Time

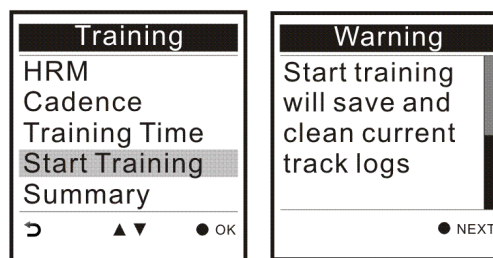
Users can set Training Time when they want to workout for certain period of time. Move the left/right ◀ ▶ button to set HH (hour) and MM (minute). Press the ▲ ▼ button to increase/decrease the value.



When the goal of training time is reached, a message prompts to show the training is to finish.



When you select Start Training, a warning message prompts to notify you that current track logs will save and cleared. A new log will start.

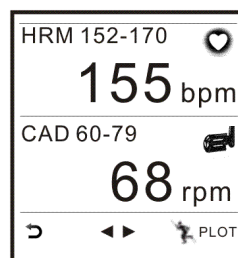


You can disable the message prompt by checking the box.

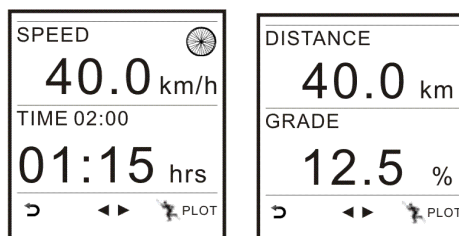


Start Training

The training page appears with HRM/Cadence/speed icon shown on the upper right.



Press the left/right ◀ ▶ button to switch between page for speed, time, distance and grade information.



The icon of HRM/Cadence or Speed varies according to the status of the corresponding sensor.

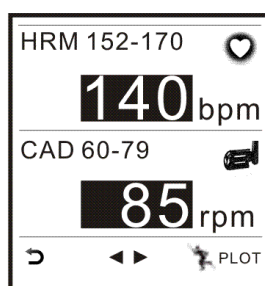
(i). The icon flashes and is displayed steadily to indicate the corresponding sensor is well connected;

(ii). The icon freezes when the corresponding sensor signal is lost for a short period of time.

(iii) . The icon disappears if the corresponding sensor signal is lost.



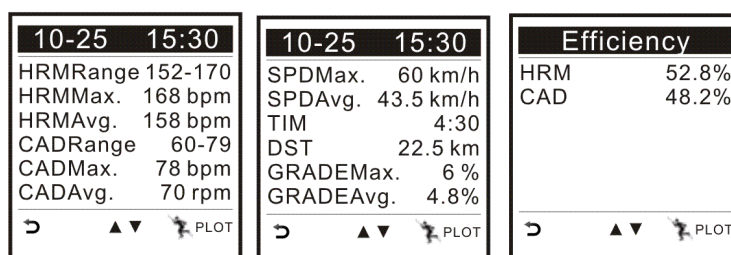
If current HRM/Cadence or Speed exceeds or falls behind the user's pre-setting range, the corresponding value will be highlighted for notification.



Summary

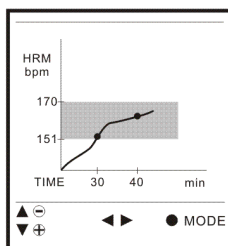
	<p>You can check your physical fitness after workout on the Summary page. The training summary can be displayed in numbers or in graphic (plot mode). Information shown includes HRM range/maximum/average, cadence range/maximum/average, speed maximum/average, training time, distance, maximum grade and average grade.</p>
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
The HRM and Cadence efficiency can be displayed in percentage as a brief summary of your fitness for the workout.

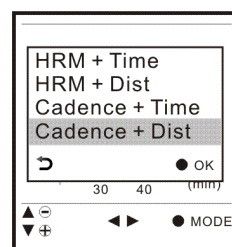
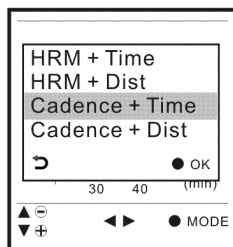
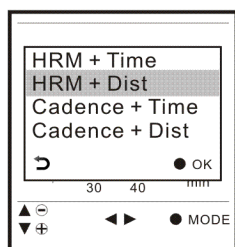


To view training summary in plot, press  PLOT.




After entering the plot mode, you can press the modes of different combination, for example, Cadence + Time or Cadence + Distance. The

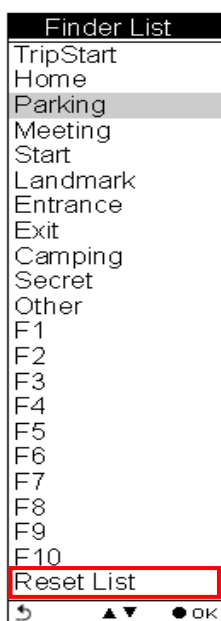


OK button  to choose among HRM + Time, HRM + Distance, default mode is HRM+Time.



Multi Finder Mode.

	<p>The Multiple Finder Mode shows the direction to the start of the track and leads you back to the starting point; alternatively, enter the coordinates for the destination to be guided by direction and distance.</p>
	<ul style="list-style-type: none"> ● TripStart auto memorized your first GPS fixing location. This cannot be edited or changed by users.
	<ul style="list-style-type: none"> ● Stores up to 20 user defined Finder points ● Upload Finder points directly from ezPlanner with their own language ● Allow users to edit coordinate on device ● Allow users to mark a new Finder point on device ● Allow users to switch coordinate between WSG84 and Geocache format



List Points





Users may store up to 20 records.

Select Reset List to clear all recorded Finder.

Save Current to	
N	23° 18' 20.02"
E	38° 36' 32.08"
Home	
Parking	
Meeting	
   	

Set Points







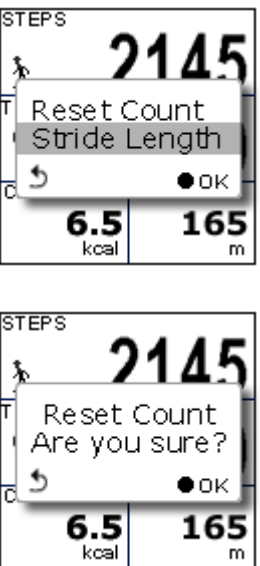

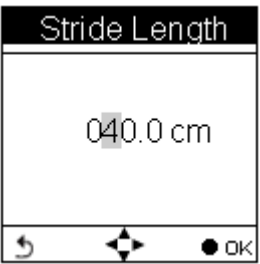
Save current coordinates to a Finder point on the List.

Current Point	
N	23° 18' 20.02"
E	38° 36' 32.08"
Home	
N	25° 15' 23.06"
E	52° 16' 48.12"
   	

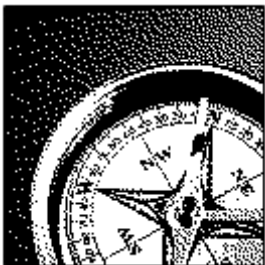
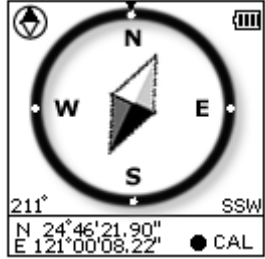
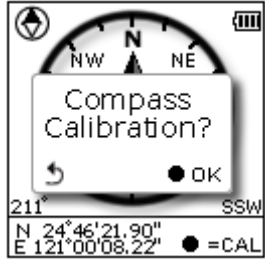
Show

Displays the coordinates of current location and the destination.

Pedometer Mode.

	<p>Pedometer mode enables users to count and record the number of steps taken, and the calories burned.</p>
	<p>Press the Power button  to Start/Pause Pedometer.</p> <p>Press the OK button  to enter the Option Menu.</p>
	<p>The icon  appears to indicate the pedometer is starting.</p> <p>Main screen: The device will start counting the walking steps, time, distance, and calories burned.</p>
	<p>Press the OK button  to Reset Counter or to set the Stride Length.</p> <p>Please note:</p> <ol style="list-style-type: none"> 1. Unless Reset Counter is selected and confirmed, Pedometer will not be reset and number of steps will be stored when the device is turned off. 2. Log recording continues when Pedometer is working.
	<p>Enter this mode, input your stride length and press OK. While working as a pedometer, the Memory-Map Bike 270 Pro needs no GPS signal to calculate distance. Distance is calculated on the basis of steps timing stride length.</p>

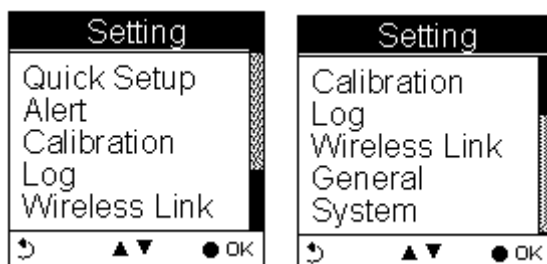
Compass Mode.



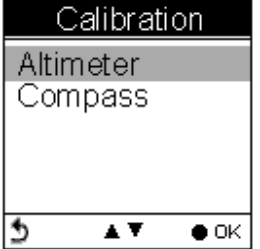
	<p>Works as a regular magnetic compass</p>
	<p>Shows direction mark with degree and current coordinates</p>
	<p>Push CAL to calibrate compass</p>



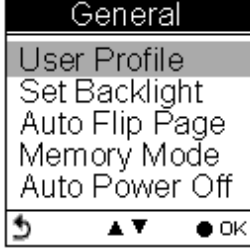

Setting Mode.



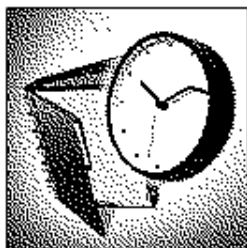
Setting Menu



	<p>Quick Setup</p> <p>Quick setup allows you to select sport type, set user weight and select Odometer.</p> <div data-bbox="564 1088 1123 1272"> </div>
	<p>Alert</p> <p>The Alert function can be set for time, speed, distance and altitude.</p>
	<p>Calibration</p> <p>Calibration is needed at the start of each activity's log.</p>

	<p>Log</p> <p>The Memory-Map Bike 270 Pro is set to automatically start logging user's track once it is turned on. Users can also set the log interval by pre-determined time or distance.</p>
	<p>Wireless Link</p> <p>The Memory-Map Bike 270 Pro uses ANT+ wireless technology to connect with nearby ANT+ heart rate monitor straps, ANT+ bike cadence sensors and ANT+ bike speed sensors</p>
	<p>General</p> <p>The General Setting includes User Profile, Backlight, Auto Flip Page, Memory Mode and Auto Power.</p>
	<p>System</p> <p>System includes Delete All Log, Set Time Format, Time Zone, Unit, Language, LCD contrast, Odometer, GPS, and Reset Device (Factory Reset).</p>

History Mode.



History shows track details including speed, time, distance, altitude, check points, calories consumed, and CO2 reduced.

History	
List	
Favorite	
Statistics	
Total	246
Favorite	2
⏮ ▲ ▼ ⏭	

Displays total number of tracks. Tracks can also be set as Favorite.

List	
10-11	32.2 km
11-24	44.1 km
11-26	22.4 km
12-04	89.7 km
01-08	168.44 km
01-13	246.8 km
▶ NAME	● INFO

Track List displays all history track logs with track time and distance listed by order of time.

11-26 16:30	
DST	62.8 km
TIM	01:16:32
SPD MAX	39.4 kmh
SPD AVG	21.8 kmh
CAL	485
Check Points	8
● FAV	⏮ ⏭ PLOT

11-26 16:30	
CO2 ↓	1.25kg
Tree	1.5
HRMMax	168 bpm
HRMAvg	156 bpm
CADMax	80 rpm
CADAvg	62 rpm
● FAV	⏮ ⏭ PLOT

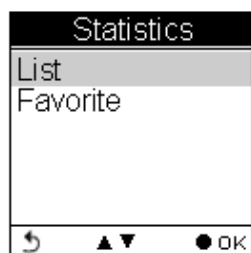
List	
Set as Favorite?	
⏮ ● OK	

Push the OK button to save the track to your favorite list.

Favorite: Collect your favorite tracks in one place.

History	
List	
Favorite	
Statistics	
Total	246
Favorite	2
⏮ ▲ ▼ ⏭	

Statistics: shows activity statistic for all tracks or favorites.



List	1 Day
DST	55.4 km
TIM	02:15:32
SPD <small>MAX</small>	38.4 kmh
CAL	975
CO2 ↓	65
Tree	1.2

Track statistics. Use the left and right buttons to switch between different intervals (1, 2, 3, 4, 5, 6, 7, 10, 12 days, 2 weeks, 1 month, and all.)

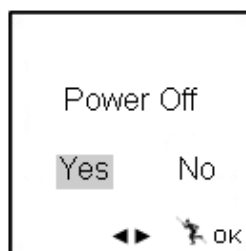
Getting Started.

Turning On Memory-Map Bike 270 Pro.

Press the **Power** button until the startup screen appears on the LCD.

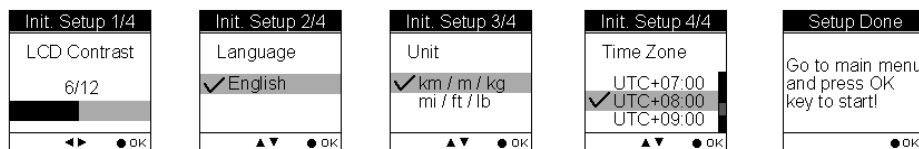
Turning Off Memory-Map Bike 270 Pro.

Press the **Power** button for 3 seconds and you will be prompted a message to confirm the message. Press the OK button again.



Initial Setup.

Please perform the initial setup for the **very first time use** of Memory-Map Bike 270 Pro. If the Memory-Map Bike 270 Pro is reset, the Initial Setup will automatically start when users turn on the device.

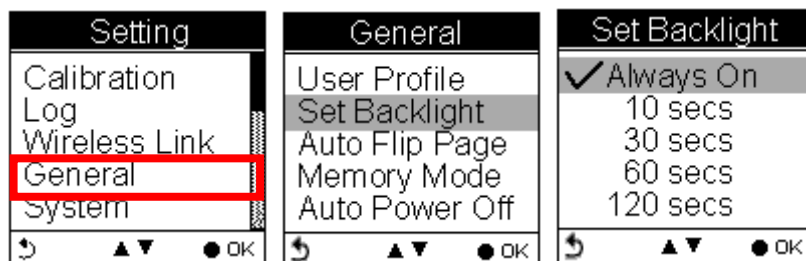


Turning On/Off Backlight.

Press the  button for 3 seconds to turn on/off backlight.

Backlight can be set to Always on, or you can set it to be automatically turned off after 10, 30, 60, or 120 seconds as displayed below.




Go to **Main Menu** → **Setting** → **General** → **Set Backlight**



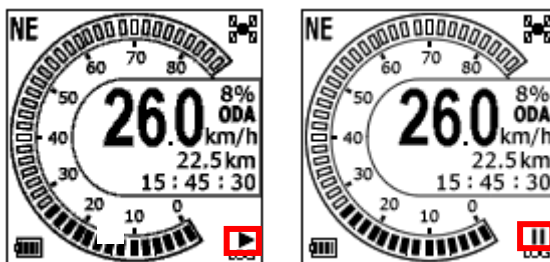
Starting/Stopping Logging.

Auto-Start Logging

The Memory-Map Bike 270 Pro is set to automatically log your track once it is turned on.

To pause logging during activity, just press the Power  button and the icon “” will be replaced by pause icon “” as shown below.



Users are able to use the Quick Menu function to start/pause the log.

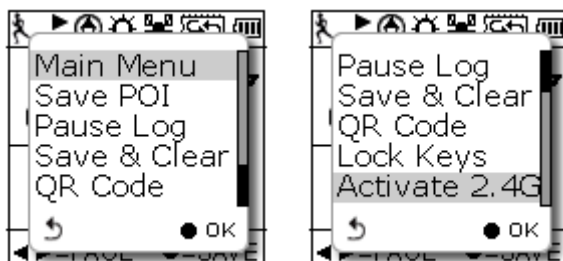







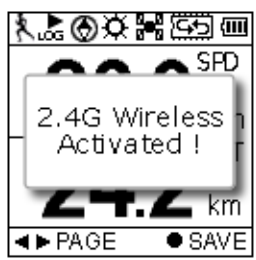
For more details on data log recording, please refer to the later section titled “**Log**”.

Basic Operation.

Quick Menu

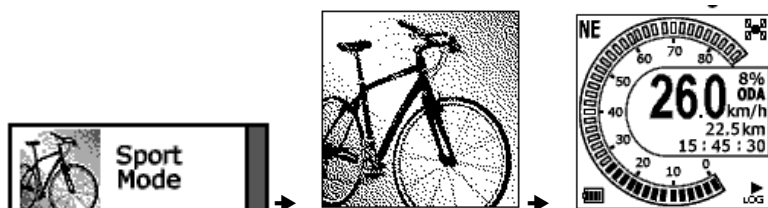
Press  and  concurrently, the quick menu appears for fast setup including: enter Main Menu, Save POI, Pause Log, Save & Clear (log), and QR Code, Lock Keys and Activate 2.4G.



	<p>Save POI</p> <p>Save coordinates as POI (waypoint)</p> <p>Pause Log</p> <p>Pause track logging.</p> <p>Save & Clear</p> <p>Save the track and start another new log.</p>
	<p>QR Code</p> <p>Display current location in a QR code for mobile devices.</p>
	<p>Lock Keys</p> <p>Lock the buttons to avoid accidentally touch. Press  +  to unlock.</p>
	<p>Activate 2.4G</p> <p>Select this item to activate the 2.4G when 2.4G is in OFF mode. ,</p>

Basic Operation without Setting

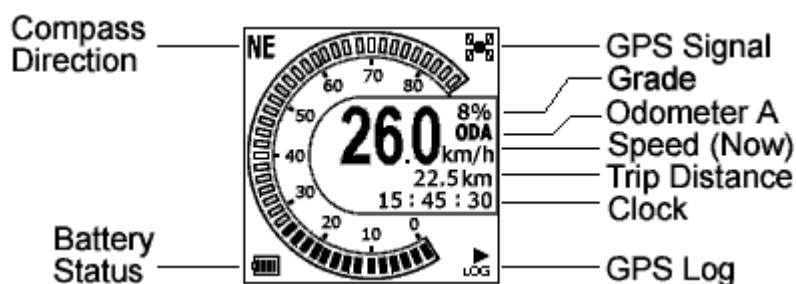
The Memory-Map Bike 270 Pro is designed to automatically log once it is on and GPS signal is received. Select **Sport Mode** from the main menu and the default first page Speed Meter appears. You are ready to use the basic function of this device.



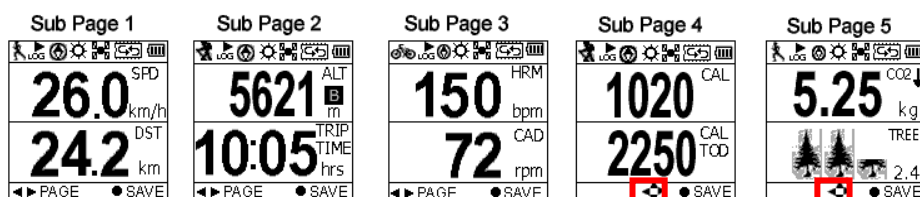
Main Menu → Sport Mode → Speed Meter

Speed Meter

See below for the description of Sport Information on the speed meter.



Press the left ◀ or right ▶ to switch among pages with different sport information as shown in the following sub pages. The top and bottom sport data items on Sub Page 1, 2 and 3 are fixed. As for Sub Page 4 and 5, both top and bottom data items can be changed and selected by customers. Press ▲ to enter the menu of sport information to select for top row and ▼ for bottom row.




Status Icons.

The status icons indicates Sport mode, Compass icon, POI, Backlight, Satellite Status, Memory Mode and

Battery.       

Sport mode icons:


 Bicycle mode


 Running mode

 Walking mode


 Vehicle mode

Track Log icons:

 Track currently being logged

 Track currently not being logged

Compass icons:

 The black arrow always points north


 The compass needs calibrating

Backlight icon:

 Backlight is on


Satellite mode icons:

 Satellite fix acquired


 Device currently attempted to acquire satellite fix


Memory mode icons:


 Overwrite: Memory now in Overwrite mode

 Full Stop: Show % of remaining memory

Battery status icons:

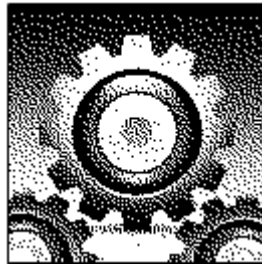
 Battery is being charged

 Battery is fully charged

 Low battery warning

Note: When battery is extremely low, the device will be turned off automatically.

Setting Up Memory-Map Bike 270 Pro.



Quick Setup.

User-friendly Quick setup function allows you to Press the Menu button to enter Main Menu and Q1. Sport Mode appears.

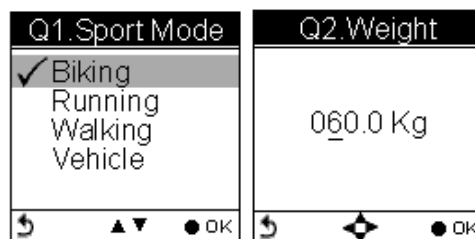


quickly setup most common settings. choose Quick Setup to begin.

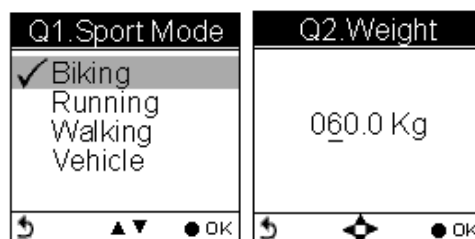
Sport Mode

Use the Up/Down button to move to the desired sport mode.


1. Press the OK button to confirm and save.
2. Q2. Weight setup appears.



3. Press the Left/Right ◀▶ button to move among digits.
4. Press the Up/Down ▲▼ button to adjust the value.
5. Press the OK button ● when finish. The Odometer page appears.
6. Odometer A/B appears for users to choose between different trips. This is useful especially when users want to calculate mileages for different trips in different sport modes.



7. Press the Up/Down ▲▼ button to select odometer.

8. Press the OK button ● when finish.
9. Return to the main menu. Press the Power Key  to start.

Alert.

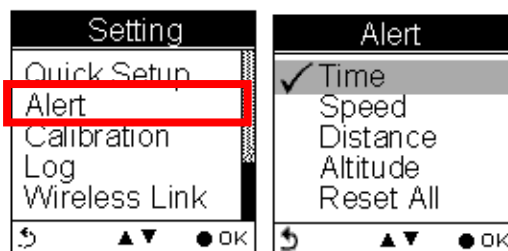
The Alert function can be set for **time**, **speed**, **distance** and **altitude**.

- **Time Alert**
 - appears only when the pre-determined time is reached.
- **Speed Alert**
 - appears only when the pre-determined speed is reached.
- **Distance Alert**
 - appears only when the pre-determined distance is reached.
- **Altitude Alert**
 - appears only when the pre-determined altitude is reached.

You can press any key to disable the alert message.

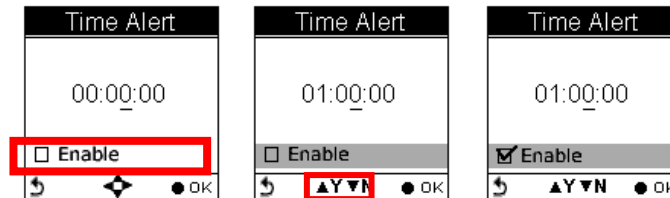
To Set Alerts

1. Press the Menu button to enter Main Menu.
2. Go to Setting → Alert.
3. Select Time, Speed, Distance or Altitude to open submenu.



To Set Time Alert

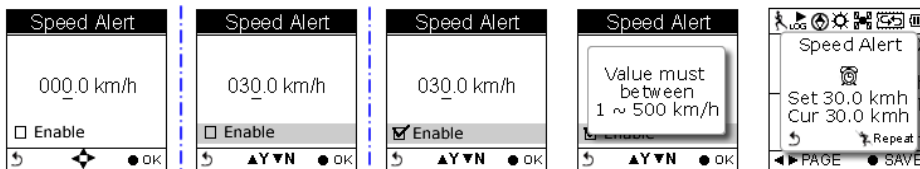
- Press the Left/Right ◀▶ button to move to left/right.
- Press the Up/Down ▲▼ button to adjust the value. Press the OK ● button to confirm.
- Press the Up/Down ▲ (Y) /▼ (N) button to check ☐ Enable or leave it blank.
- Press the OK ● button to confirm and return to the Alert Menu.



Note: Time must be set within the range of 00:00:01 to 23:59:59.

To Set Speed Alert

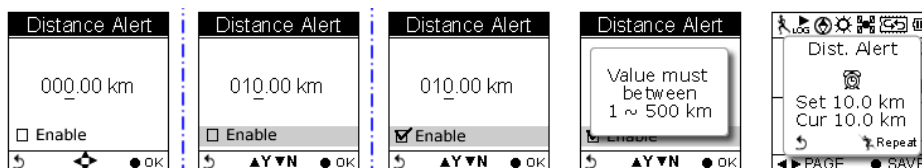
- Press the Left/Right ◀▶ button to move to left/right.
- Press the Up/Down ▲▼ button to adjust the value. Press the OK ● button to confirm.
- Press the Up/Down ▲ (Y) /▼ (N) button to check ☐ Enable or leave it blank.
- Press the OK ● button to confirm and return to the Alert Menu.



Note: Speed must be set within the range of 1 to 500 (km/h).

To Set Distance Alert

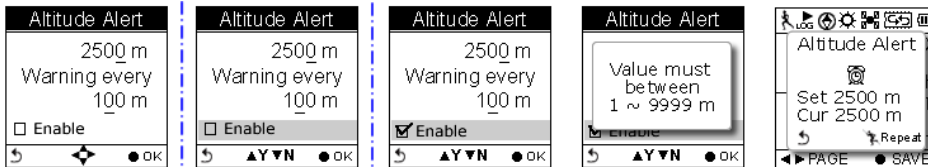
- Press the Left/Right ◀▶ button to move to left/right.
- Press the Up/Down ▲▼ button to adjust the value. Press the OK ● button to confirm.
- Press the Up/Down ▲ (Y) /▼ (N) button to check ☐ Enable or leave it blank.
- Press the OK ● button to confirm and return to the Alert Menu.



Note: Distance must be set within the range of 1 to 500 (km).

To Set Altitude Alert

- i. Press the Left/Right ◀▶ button to move to left/right.
- ii. Press the Up/Down ▲▼ button to adjust the value. Press the OK ● button to confirm.
- iii. Press the Up/Down ▲ (Y) /▼ (N) button to check ☐ Enable or leave it blank.
- iv. Press the OK ● button to confirm and return to the Alert Menu.

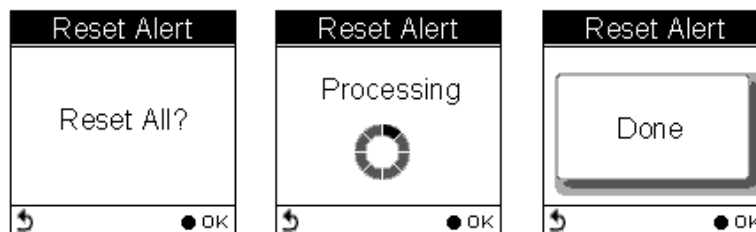


Note: Altitude must be set within the range of 1 to 9999 (m).

Reset Alert

You may also reset alert by selecting Reset Alert from the Alert submenu:

1. Select Reset Alert.
2. Press the OK button to confirm.



Calibration.

Memory-Map Bike 270 Pro comes with built-in 3D electronic compass and barometer sensors. Calibration for barometer is necessary at the start of each activity's recording.

The 3D compass calibration is required to separate the earth's magnetic field from stray magnetic fields emitted by something metallic/electronic like a car for which may affect the operation of the compass. Without calibration, the 3D compass may have inaccurate readings.

As for barometer calibration, the Memory-Map Bike 270 Pro provides two methods for users to calibrate, i.e. **Auto calibration** and **Manual calibration**.

Manual calibration is recommended when the user knows his true elevation there, for Manual calibration uses the calibrated altitude as truth and assumes all changes in the pressure sensor are associated with the barometric pressure, Manual calibration therefore will be more accurate

Altimeter Calibration

A barometer is an instrument for determining the pressure generated by the weight of the atmosphere. Users can use their Bike 270 Pro to determine their immediate altitude and altitude gained/lost.

Barometer calibration is set to be automatically performed by default. However, users can set the device to be manually calibrated.

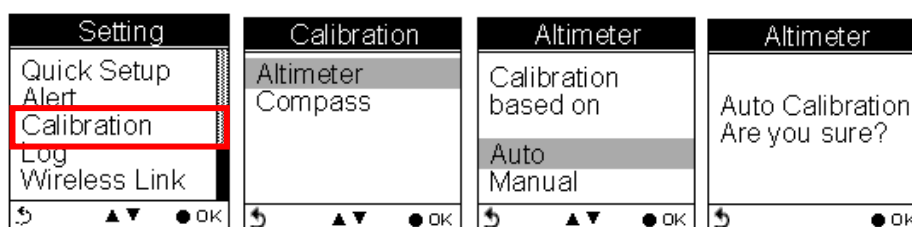
Note: If the device is set to Auto Calibration, the altitude will be gained from the following algorithm.

1. the first 5 log points in 5 seconds after GPS fixed are acquired.
2. the highest and lowest ones of the 5 log points are left out. There are 3 values remained.
3. Average the 3 values.

The auto calibration is performed every time when the device is turned on.

Auto Calibration:

■ **Main Menu → Setting → Calibration → Altimeter → Auto**

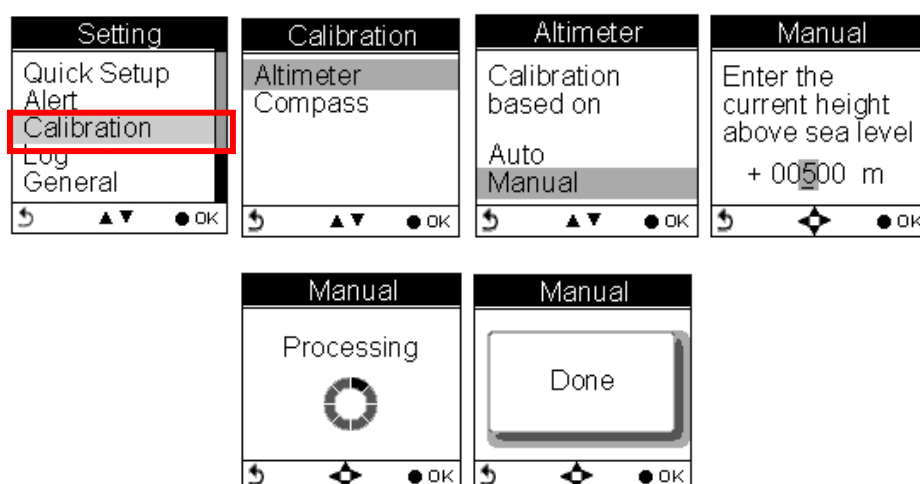


Manual Calibration:

■ **Main Menu → Setting → Calibration → Altimeter → Manual**

Enter the current height by pressing the Up/Down ▲▼ button to adjust the value. Press the OK button ● to confirm and exit.

Note: Altitude must be set within the range of -999 to +30,000 (m).



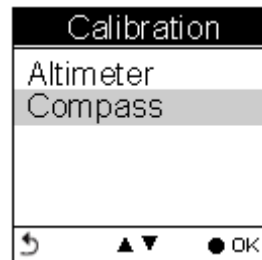
Compass Calibration

■ Main Menu → Setting → Calibration → Compass

Press the OK button ● to calibrate the compass.

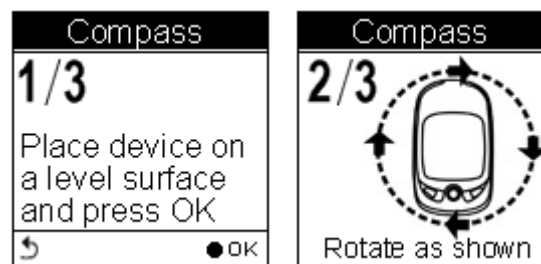
Step 1.

Hold the compass level with the horizon. Make sure that you are not near any metallic or magnetic objects. Press the OK button.



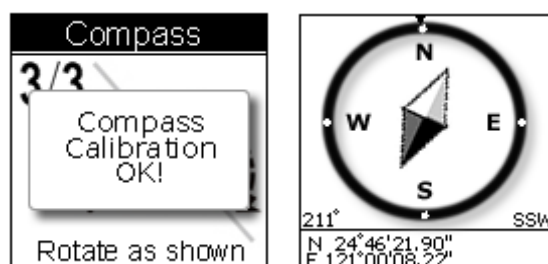
Step 2.

Rotate the compass twice slowly (two complete rotations), make sure that the compass remains level to the horizon.



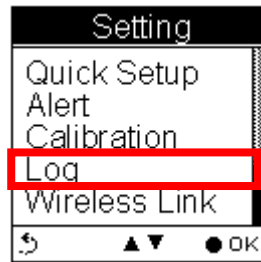
Step 3.

Press the OK button. Once calibration is finished, the following screen appears followed by a beep sound.



Note: Users should always calibrate the compass at the start of their outdoor activities for more accurate log information.

Log



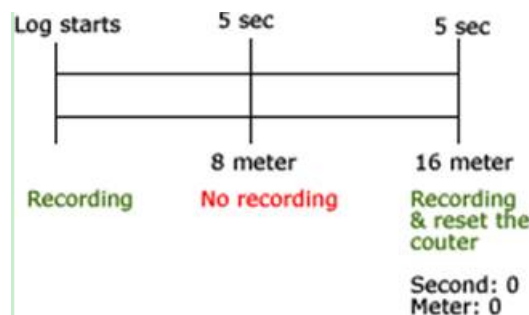
Interval

The Memory-Map Bike 270 Pro is set to automatically log your track once it is turned on. The factory setting of automatic logging is set to log at interval of time/distance ≥ 10 m/5 sec.

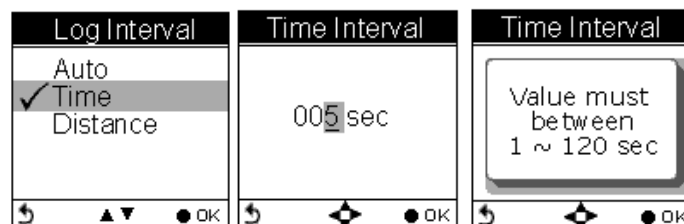
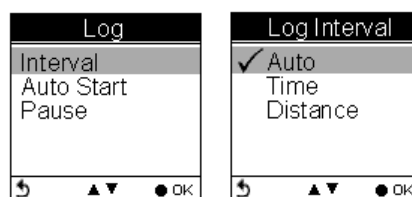
Bike 270 Pro checks the distance every 5 seconds.

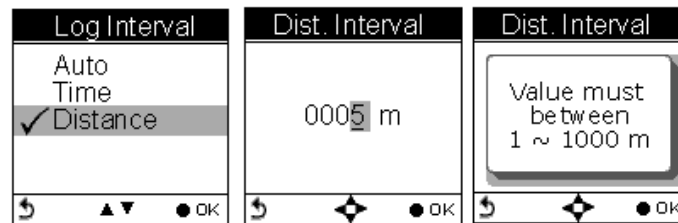
See below illustration for an example. If the distance is less than 10 meters in the first 5 seconds, the Memory-Map Bike 270 Pro is not logging.

Bike 270 Pro checked again in another 5 seconds. The total distance then is 16 meters long, so it logs and one waypoint is recorded. The device resets the counter and measures the distance and time again.



The log Interval Auto is useful especially for users who do not want to repeatedly record one waypoint during a trip. Most cases, recording waypoints at the same place only because users were staying for a period of time is not necessary.

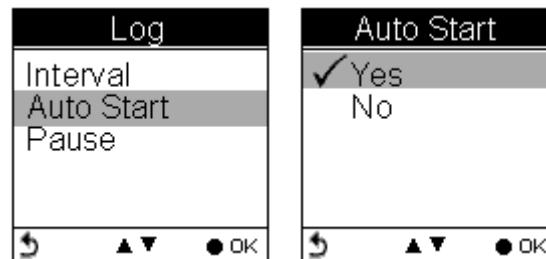




Note: Time interval must be set within the range of 1 to 120 seconds; Distance interval must be set within the range of 1 to 1000 (m).

Auto-Start (Logging)

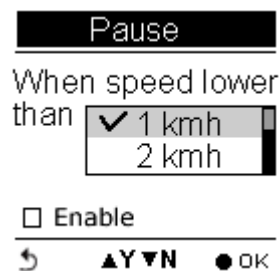
Auto-Start means the Memory-Map Bike 270 Pro will automatically start to log once the satellite signal is well received. User can enable/disable the auto logging by entering **Setting → Log → Auto Start → Yes/No**



Pause (Logging)

Users can set the log to stop/pause recording when the speed is below a determined number from 1km to 5 km.

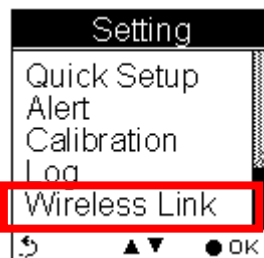
Press the up and down button to check the ☐ Enable box.



Wireless Link.

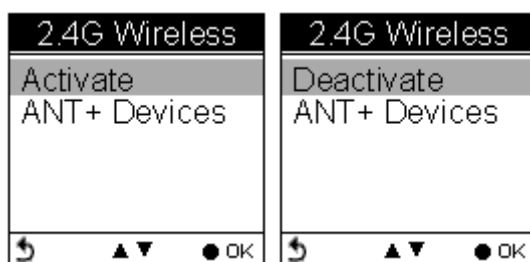
The Memory-Map Bike 270 Pro is using ANT+ wireless technology to collect and transfer sensor data. The three sport sensors supported are ANT+ heart rate monitor straps, ANT+ bike cadences sensors and ANT+ bike speed sensors

Press the OK button ● to enter the setting menu.



Activate Wireless Link

Users have to activate the Memory-Map Bike 270 Pro wireless link before they connect the Memory-Map Bike 270 Pro with sport sensors. If the wireless link is not yet activated, the setting menu displays “**Activate**” for selection, otherwise, “**Deactivate**” is displayed when the device is active.



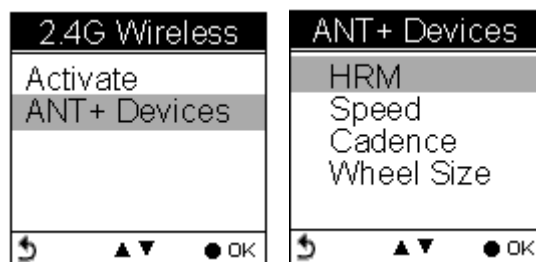
If the wireless link is not activated in advance, a message prompts “ANT+ is inactive” to notify users that 2.4G is in OFF mode while scanning.

Press OK button ● to activate it.

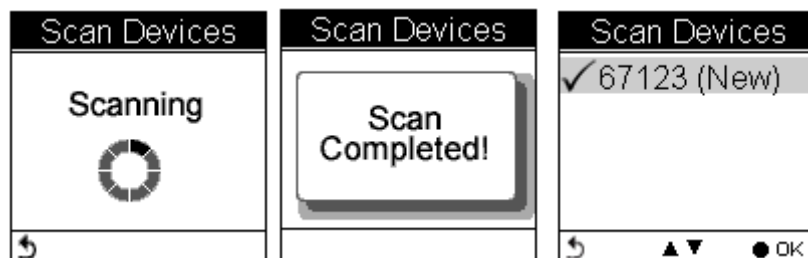


Scan

Select ANT+ Devices to select the sport sensor to connect.



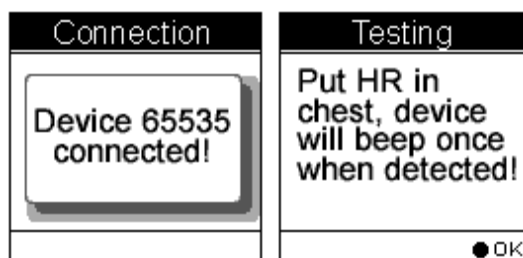
The device will start scanning devices nearby. When completed, scanned devices are listed.



Connect and Detect

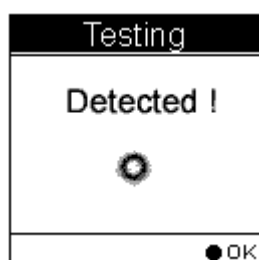
Move the Up/Down arrow to select the sensor to connect.

A warning message prompts to remind users to make sure the selected sensor is properly installed, for example, HRM should be well-strapped to your chest so that the Memory-Map Bike 270 Pro can detect without failure.



Or the message of “**Device Not Detected**” appears.

The Memory-Map Bike 270 Pro can connect up to 3 sensors of different kinds at a time, namely, one HRM, one Speed sensor, and one Cadence sensor can be connected concurrently. If a sport device is detected, a message appears as shown.



About Wheel Size

The Memory-Map Bike 270 Pro comes with a speed sensor that reads the speed of your bike wheel rotation. Distance between two points during your workout is thus measured if your bike wheel size is also properly entered.

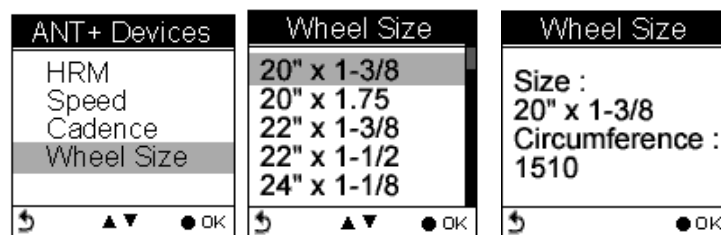
Compared with GPS distance, distance calculated by speed meter is more accurate for GPS distance is likely to have GPS signal lost or other problem.

In order to acquire more accurate distance, accurate wheel size of your bike needs to be entered.

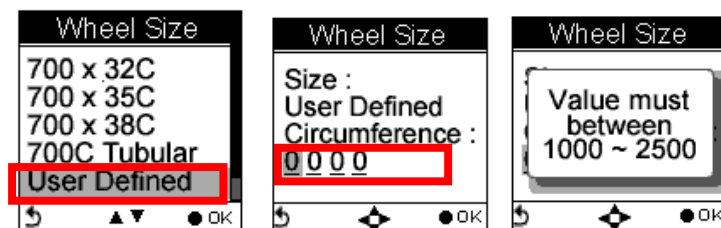
Setting Wheel Size

■ Main Menu → Setting → Wireless Link → ANT+ Devices → Wheel Size

1. Press the Up/Down ▲▼ button to select the wheel size.
2. Once selected, press the OK button ● to confirm.
3. Wheel size and circumference reading appear. Press the OK ● button to confirm and return to the previous level.



Usually the wheel size of the bike is marked on the tire.



Note: Circumference must be set within the range of 1000 to 2500.

Measuring Circumference

If your wheel size is not listed on the Memory-Map Bike 270 Pro for selection, you can go to **User Define** to manually enter your circumference.

To measure your circumference, choose Method A or B and follow the steps described and illustrated below. Or you can consult your bike dealer for information of the bike circumference.

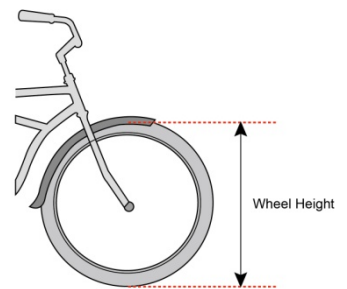
Method A:

You can calculate the circumference of your bike by simple math as following formula.

Step 1. Measure the diameter. The diameter of the wheel (wheel height) is the distance across a circle through its center.

Step 2. Calculate the circumference. Multiply the diameter of the wheel height by pi. If the diameter of the wheel (wheel height) is 500 millimeters across, then circumference would be 500 times 3.14 or 1570 millimeters.

Note: Please use the metric system for entering the circumference value. Convert the value if the measurement is in imperial system. For example, when the diameter of the wheel is 20 inches, the circumference would be 20 times 25.4 times 3.14 or 1595.12 millimeters.



Method B:

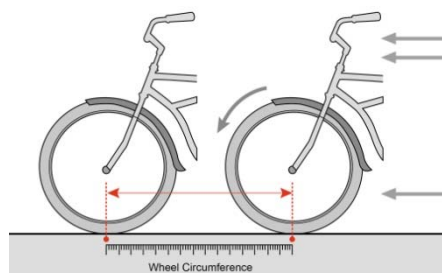
Step 1. Mark the front tire at a point aligned with the inner tube's valve stem.

Step 2. On a flat surface, use a chalk and draw a straight line.

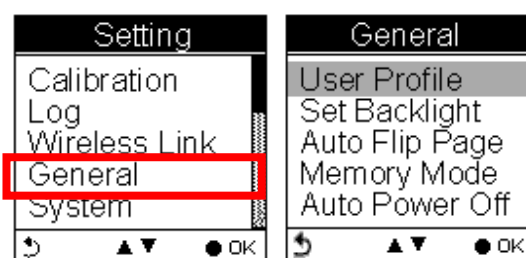
Step 3. Rotate the front wheel so that the valve stem is directly on top of the point where the line begins.

Step 4. Wheel your bicycle on the line for one wheel revolution. Use the valve stem position stem to determine when one revolution is completed.

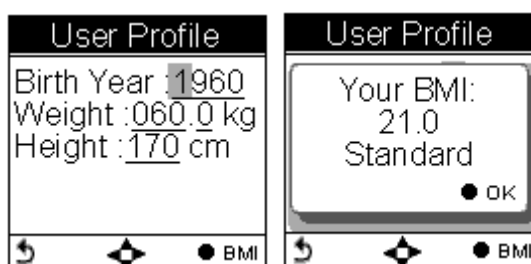
Step 5. Mark the second point and measure. Mark the point on the line that corresponds to one revolution of the wheel. Measure the distance between the two marks you created. This distance is the circumference of your bicycle wheel.



General (Setting).



User Profile

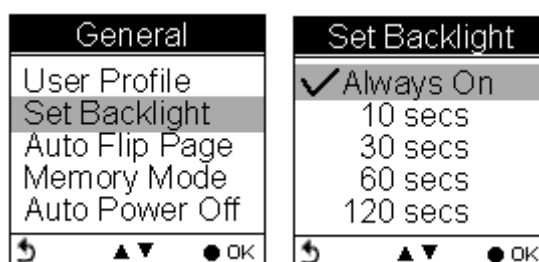


Users profile includes User's age (Birth year), Weight and Height. Once the above information is entered, user's BMI (Body Mass Index) value is determined. Refer to the following table for BMI categories.

Body mass index by category	
Category	BMI
Underweight	Below 18.5
Normal	18.5 – 24.9
Overweight	25.0 – 29.9
Obesity	30.0 or greater

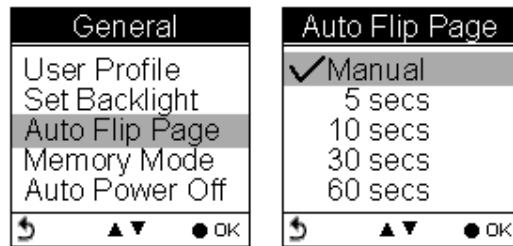
Set Backlight

Backlight can be set to Always on if needed. To save power, backlight can be set to automatically off after it has been activated for 10, 30, 60 or 120 seconds.



Auto Flip Page

Users can enable the Auto Flip Page to rotate all sport information pages regularly by 5, 10, 30 or 60 seconds. Or they can choose to manually flip the Sport Page.

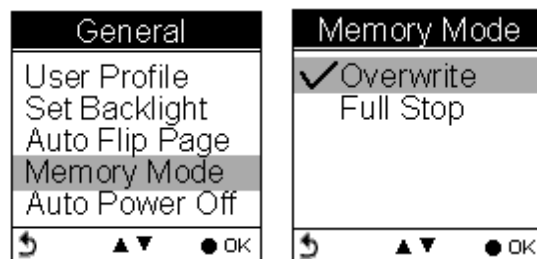


Memory Mode

As a data logger, the Memory-Map Bike 270 Pro is designed to automatically collect information upon activation, and can be left unattended for the duration of the monitoring period, the internal memory will be used up by recorded information.

Overwrite

Users can then determine if new data logs received should overwrite old data logs data logger by selecting **Overwrite**. Press the Up/Down ▲▼ button to select.



Full Stop

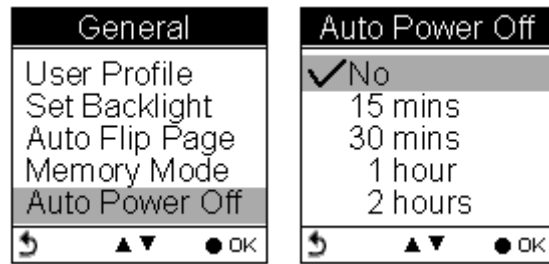
If users want the logger automatically stop recording when the internal memory is used up and no room for recording new data logs, select "**Full Stop**". Press the Up/Down ▲▼ button to select.

Auto Power Off

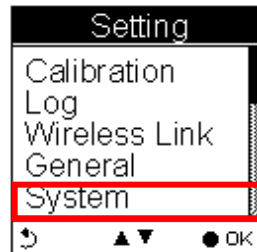
The Memory-Map Bike 270 Pro can be set to be automatically powered off when there's no GPS signal being detected for 15 minutes, 30 minutes, 1 hour, or 2 hours.

Users can ignore the function and set to No which will keep the GPS Sport powered on even when there's no GPS signal detected.

To enable the Auto Power Off, please go to **General** → **Auto Power Off**

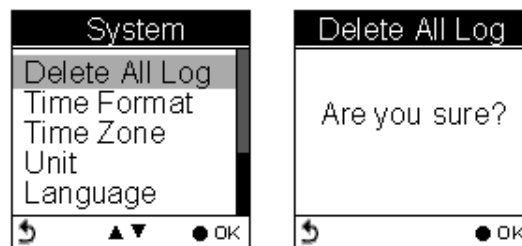


System Setting.



Delete all log

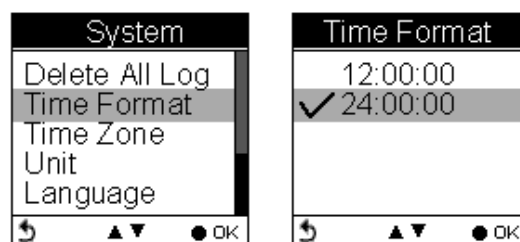
Select "Delete all log" will empty the internal memory and all recorded log data will be removed.



Time Format

System → Time Format

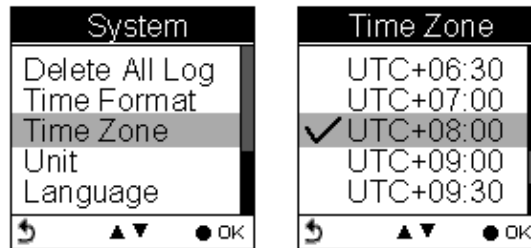
Select format "24 hours" and "12 hours".



Time Zone

System → Time Zone

Press the up and down button to select.



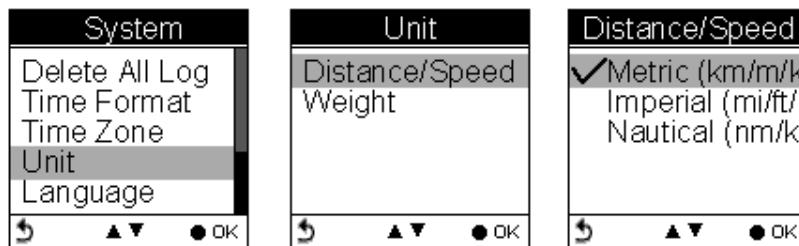
Unit

Unit Conversion converts units of Speed/Distance, Weight and Temperature.

Speed/Distance

System → Unit → Speed/Distance

Select “Distance/Speed” to choose metric as “km/m/kmh”, imperial as “mi/ft/mph” or nautical as “kt/nm”.



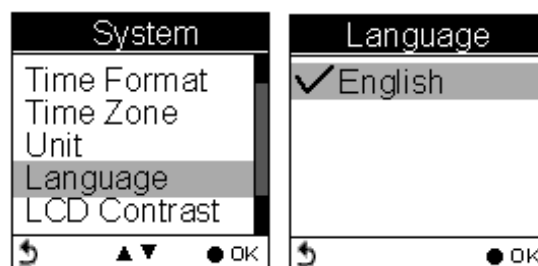
Weight

System → Unit → Weight

Select “weight” to choose metric as “Kilogram/kg”, or imperial as “Pound/lb”.

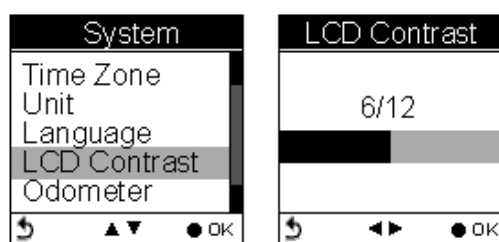


Language



LCD Contrast

LCD contrast can be adjusted in the LCD Contrast. Press the Up/Down ▲▼ button to select.

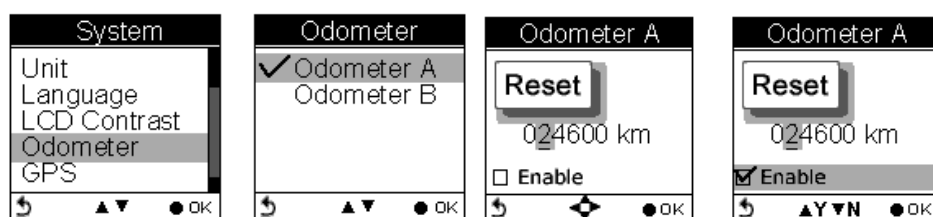


Odometer

You can save trip information in Odometer A or Odometer B. The default is Odometer A.

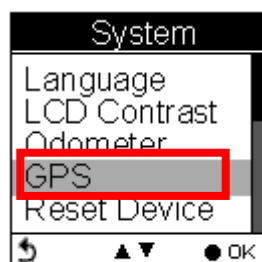
The value of both odometers can be reset or modified.

- Press the left and right button to move among the number. Press up and down button to increase/decrease the value. When finished, press OK button ● to continue.
- Press the up and down button to tick the ☐ Enable box.



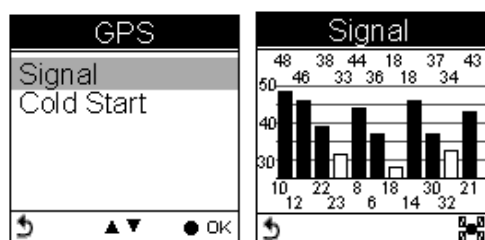
GPS

Enter GPS to view the signal strength or you can activate to Cold Start.



Signal

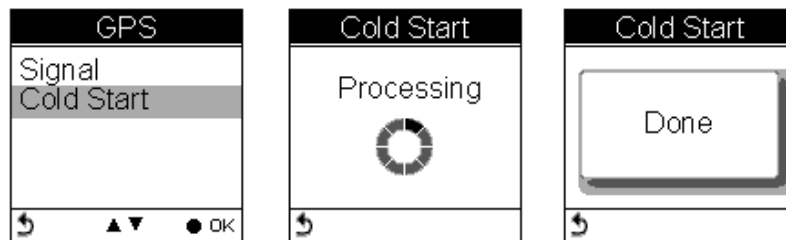
Setting → GPS → Signal



Cold Start

Setting → GPS → Cold Start

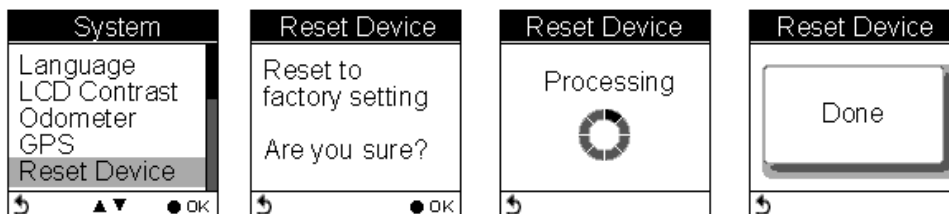
Users are recommended to perform Cold Start when they travel for a long distance within a short period of time, say flying from Asia to Europe, for the GPS receiver may have problem to receive information about the current time, the orbits of the satellites or its own current position with previous GPS acquired. The searching time will be long for it proceeds to listen for satellites at random until it has acquired one or more. Cold Start will initialize the positioning of GPS and etc.



Reset Device

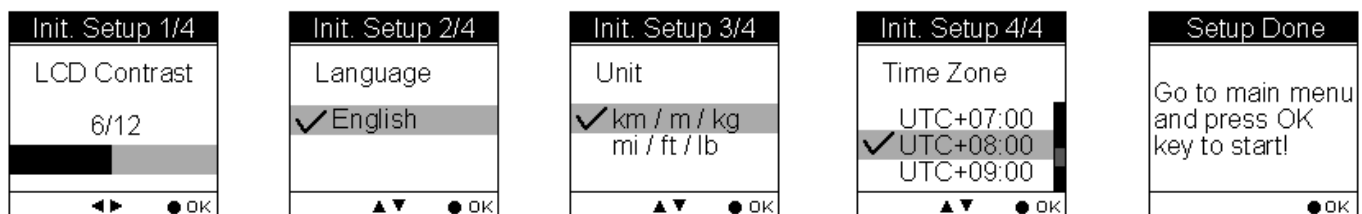
Press Reset Device to restore all settings to factory setting. Please note that all existing values and settings will be cleared except for Track logs in history, history name, finder point & name, odometer data, & POI data.

Once the device is reset to factory setting, users will be prompted with the initial setup screen when the device is turned on.



Initial Setup

The initial setup screen prompts when users turn on the device for the first time.



About ezPlanner Plus and ezPlanner.

Functions of ezPlanner.

- Plan route at home with an easy to use tool
- Edit the route directly on the Google map
- Able to plan the route between two points or follow the road
- User define Placemark to plan the rest point at home
- Automatically show earth elevation as soon as the route is completed!
- Able to synchronize the route to Memory-Map Bike 270 Pro
- Import/Export .gpx .kml files for other usages
- Access multiple projects in the same project window.

Features of ezPlanner Plus.

- Display statistic data in month, week, or day view. Support both chart view and table view.
- Analyze sport data in terms of time, distance, speed, and elevation.
- Allow users keep notes of every activity.
- Replay the activity on map and detailed information of every point.
- Analyze detailed information for user defined segment of activity. (marker1 marker2 support.)
- Export statistic data to Excel report.
- Plan routes before trip or activity.
- Automatically find route by start and end points setting.
- User defined point of interest.
- Support check-points and itinerary for trip/activity.
- Share routes with friends by exporting/importing kml, gpx files.
- Support various exercises or sports.

Normal Care and Maintenance.

To ensure the unit's normal operation and extended life span, please note the following while using and storing:

- **Do not drop the unit**

If violently impacted or shocked, serious damage may be caused.

- **Avoid sudden temperature changes**

Condensation may occur when entering a warm room on a cold day. To prevent condensation from damaging the unit, please place into an airtight plastic bag before sudden temperature changes.

- **Keep away from strong magnetic fields**

When using or storing, please keep away from strong electromagnetic/radioactive or magnetic field equipment.

- **Operating temperature**

The products operating temperature is between 0°C ~ 40°C; please do not operate under extreme temperatures.

- **Avoid exposure to sunlight**

Please avoid long periods of sunlight or high temperature exposure.

- **Cleaning the screen**

Using a soft clean cloth to wipe the screen is recommended; do not use ordinary tissue to wipe the screen.

- **Do not disassemble**

Please do not disassemble the product, this may void the warranty and damage the unit.

- **Storage**

When the product is not being used for a long period, store the device in a cool and dry place. For long-term storage, keeping the unit in a dry box is recommended.

Please do not keep the product in the following environments:

1. Unventilated and humid locations.
2. In a car window that is exposed to excessive amounts of sunlight.
3. In an environment where humidity is over 90%.

Specifications.

GPS Chip	Chipset: MTK 3329
Dimensions	81.7x 54x 22 mm
Weight	84g
Battery	Rechargeable 1050 mAh lithium battery
Power	DC5V/1A
Button	2 buttons : Menu / Power + 5 Direction keys
Antenna	Built-in patch antenna
IO Interface	Mini USB
Display	High-contrast electro-luminescent backlit display, 4-level grayscale LCD. Dimensions : 33.5 × 33.5 mm, 1.5 » Resolution: 128 x 128 pixels
Environmental Temperature	Operating Temperature: -10°C to 60°C Storage Temperature: -20°C to 70°C Battery Recharging Temperature: 0°C ~40°C
Water proof	IPX7
Wireless Protocol	Supports ANT+ 2.4G wireless protocol: <ul style="list-style-type: none"> • ANT+ heart rate monitor sensors • ANT+ bike cadence sensors • ANT+ bike speed sensors • ANT+ combo bike speed/cadence sensors

Service under Warranty.

Your device comes with a standard one year manufacturer's warranty. For help and support please visit **snooperneo.co.uk** or call **0333 240 1000**.

If, for some reason, your unit requires service under warranty return your device, via special delivery (insured) and in suitable packaging to:

The Returns Department, Performance Products Limited, Cleaver House, Sarus Court, Manor Park, Cheshire WA7 1UL

Enclose the following information:

- (a) Your name, address and a full description of the problem.
- (b) A telephone number where you can be reached during business hours. (c) Your units' serial number.

Disposal of Old Electrical & Electronic Equipment.

(applicable in the European Union).

This symbol on a product or its packaging indicates that this product shall not be treated as household waste. It should be handed over to an applicable collection point for the recycling of electrical equipment. By ensuring that this product is disposed of correctly you will help/prevent potential negative impact on the environment. The recycling of materials will help to conserve natural resources. For further details about recycling please contact your local civic office or the shop where it was originally purchased.

Performance Products Ltd, Cleaver House, Sarus Court, Manor Park, Runcorn WA7 1UL. Tel 0333 240 1000 Fax 0333 240 1100 www.snooper.co.uk