



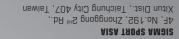
JNDER: **WWW.SIGMA-QR.COM/ROX10**

ROX 10.0 GPS

INSTALLATION ON THE BIKE







St. Charles, IL 60174, U.S.A. .9vA noznaw2 7846. ASU TAOAR AMBIR

D-67433 Neustadt/Weinstraße Dr.-Julius-Leber-Straße 15 SIGMA-ELEKTRO GmbH

This Class digital apparatus complies with Canadian ICES-003.

(2) this device must accept any interference, including interference that may cause undesired

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

(1) this device may not cause interference,

void the neer's authority to operate the equipment.

Consult the dealer or an experienced radio/TV technician for help.

Connect the equipment into an outlet on a circuit different from that to which the receiver

Reorient or relocate the receiving antenna.
 Increase the separation between the equipment and receiver.

be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: If this equipment does cause harmful interference to radio or television reception, which can However, there is no guarantee that interference will not occur in a particular installation.

protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable NOTE: This equipment has been tested and found to comply with the limits for a Class B digital

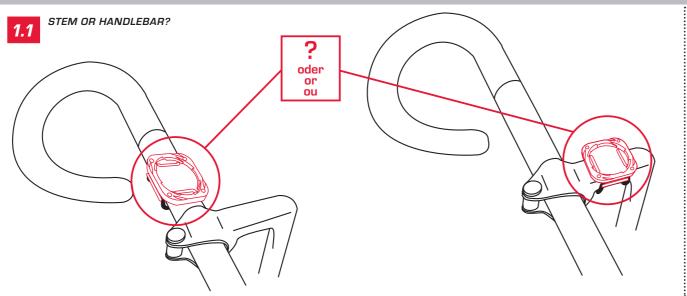
that may cause undesired operation.

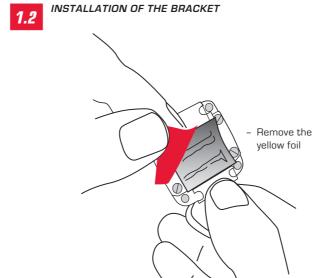
(2) this device must accept any interference received, including interference

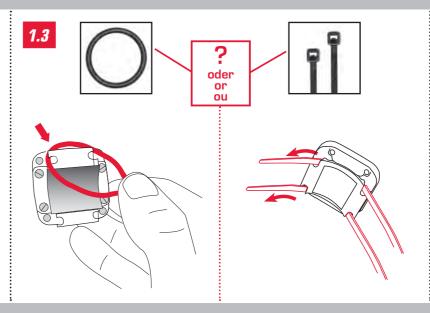
This device complies with part 15 of the FCC Rules. Operation is subject to the following two FCC STATEMENT

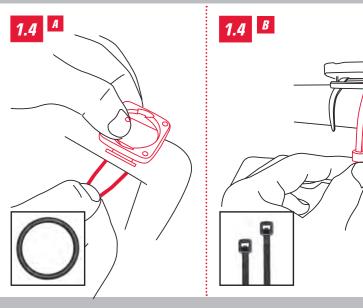
ROX 10.0 GPS INSTALLATION ON THE BIKE

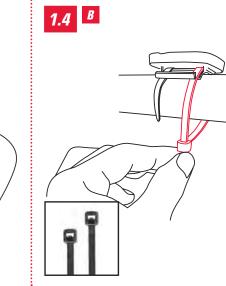
1. INSTALLATION OF THE BRACKET



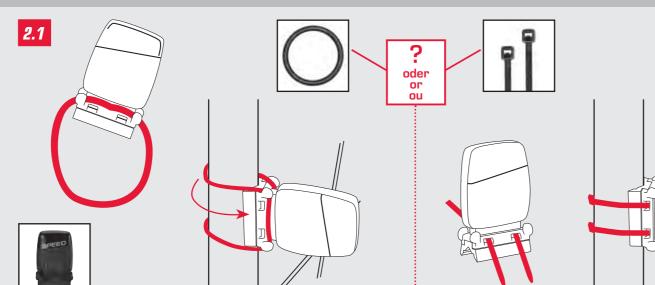


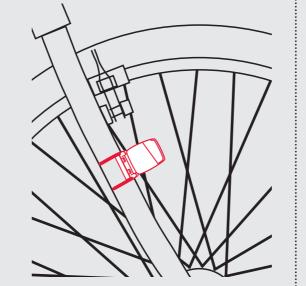


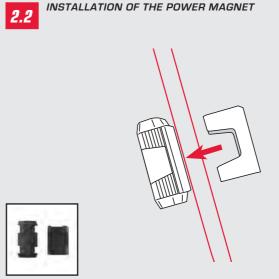


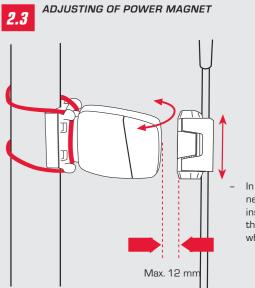


2. INSTALLATION OF THE WIRELESS SPEED TRANSMITTER



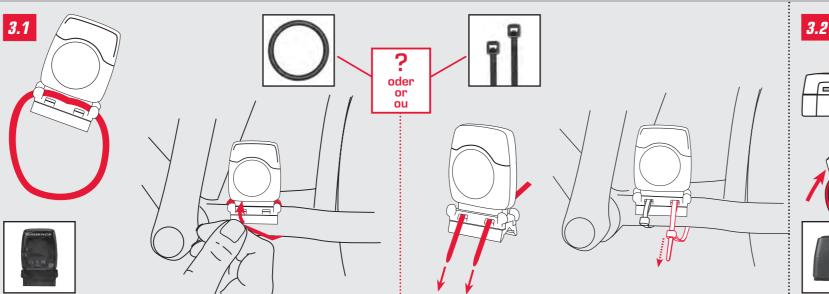


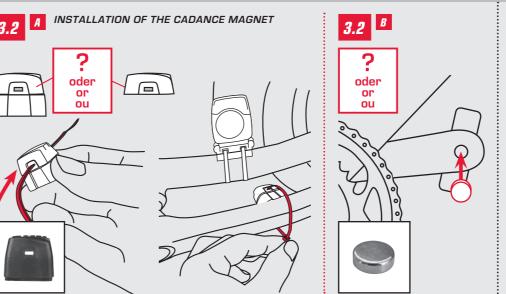


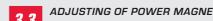


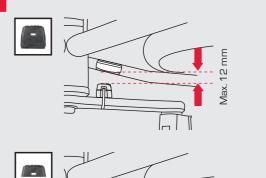
- In order to achieve the necessary 12 mm or less install the transmitter and the magnet closer to the wheel hub.

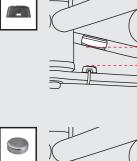
3. INSTALLATION OF THE WIRELESS CADENCE TRANSMITTER

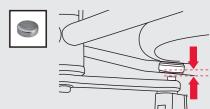




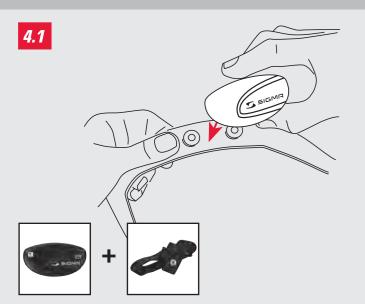




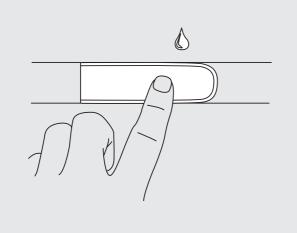




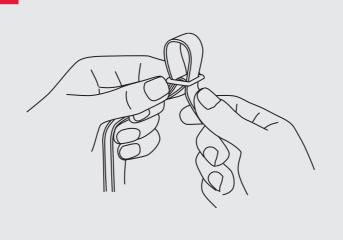
4. ATTACHING THE WIRELESS HEART RATE TRANSMITTER

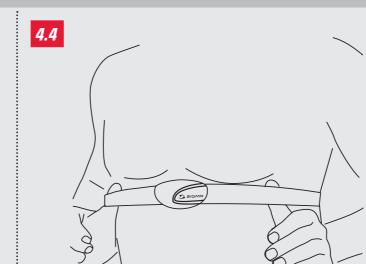




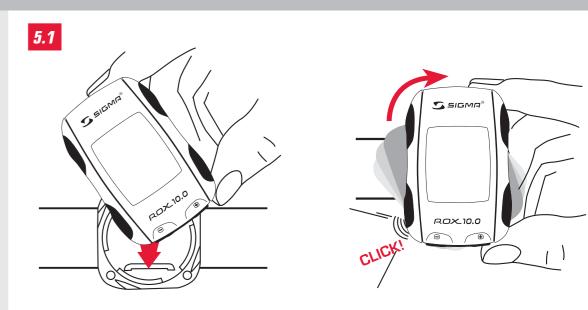








5. INSTALLING THE SIGMA ROX TO THE BRACKET



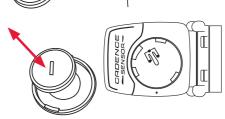
6. BATTERY CHANGE / LOAD





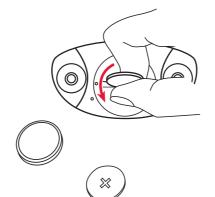


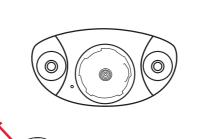








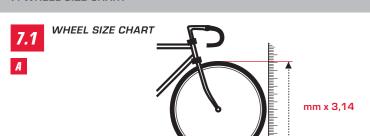






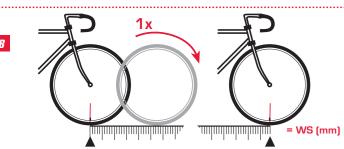
LOAD BATTERY / ROX 10.0 GPS

7. WHEEL SIZE CHART



 $WS = mm \times 3,14$

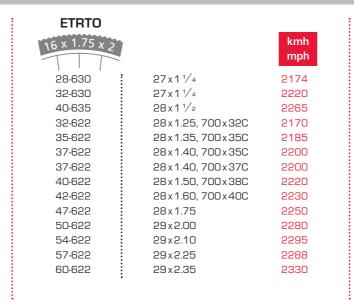
WS = mm x 3,14

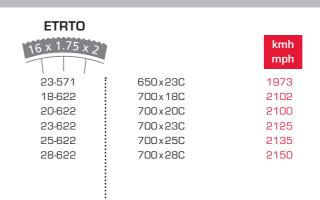


WS = mm



ETRTO 16 x 1.75 x 2		kmh mph
47-305	16 x 1.90	1272
47-406	20 x 1.75	1580
37-540	24x1 ³ / ₈	1948
47-507	24 x 1.75	1900
37-584	26 x 1 ³ / ₈ , 650 STD	2086
37-590	26 x 1 ³ / ₈ , 650 x 35A	2100
40-559	26 x 1.50	2030
42-559	26 x 1.60	2025
47-559	26 x 1.75	2050
50-559	26 x 2.00	2075
54-559	26 x 2.10	2100
57-559	26 x 2.25	2120
57-584	27 ½x2.25	2128





8. FIRST WAKE UP



- 1. Installation of the bracket and sensors
- 2. Wake up ROX 10.0 GPS
- Press the key for 5 seconds. Press for 5 change your language.
- Select your language with the keys and press and press
- Press the key BACK twice to return to the Main Menue.
- 3. Download the instruction manual from www.sigmasport.com or load it from the cd rom.
- 4. Pairing the sensors with the ROX 10.0 GPS
- Before using the transmitter, they have to be paired with the ROX 10.0 GPS.
- To pair a sensor, it must be activated. (Use the magnet at ANT+ Speed sensor and ANT+ Cadence sensor). the appropriate sensor for the pairing and start the pairing with the KNYER key.
- For a few moments "Search" will be displayed, then the ID of the transmitter appears. The pairing process is complete and the sensor can be used in training. Go back to the main menu to enter the training mode.

5. Start training

Note: Load completely before you start using this device.













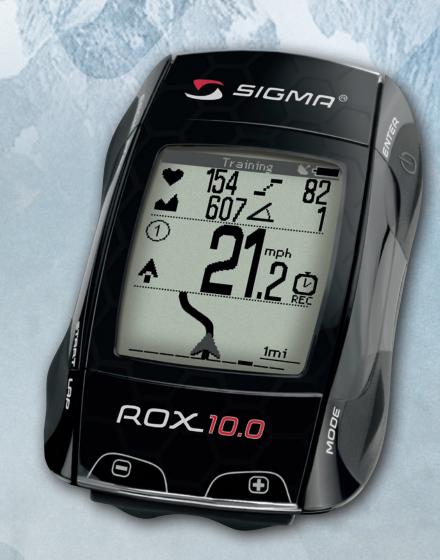












ROX 10.0 GPS

BIKE COMPUTER BLACK SET

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1 Functions and contents

1.1 Foreword

Thank you for choosing a SIGMA SPORT bike computer. Your new ROX 10.0 GPS will be a reliable companion for years to come. To familiarize yourself with and learn how to use the many functions of your new bike computer, please read these operating instructions carefully.

Enjoy the ride with your new ROX 10.0 GPS!

The ROX 10.0 GPS is a GPS bike computer that provides you with a broad range of information both during and after your rides:

- Speed, time, distance, power and position, altitude, incline, heart rate, intensity zones, and much more.
- Download all information to a PC or Mac so that you can view and analyze your ride data.
- Plan tracks with DATA CENTER 3.1.

1.2 Contents



1.2.1 Optional/Additional accessories



^{*} Included with ROX 10.0 GPS complete set only

1.3 ROX 10.0 GPS functions

The ROX 10.0 GPS is a versatile bike computer. Thanks to its five navigation functions, nine bicycle, nine heart rate, eight performance, and five altitude measuring functions, as well as several other functions, the ROX 10.0 GPS is the perfect companion for any ambitious cyclist. To measure cadence, power, and heart rate, you need the appropriate accessories (depending on the set).

All current values – current speed, current altitude, current heart rate, current cadence, and current incline – can be easily viewed on the large display.

The ROX 10.0 GPS is more than a classic bike computer. It features three bike profiles, a configurable automatic start/stop function, and three different altitude calibration methods.

1.3.1 ANT+ speed transmitter (optional accessory)

Use the ANT+ speed transmitter to precisely determine your speed and trip distance regardless of GPS signal quality. An ANT+ speed transmitter can also be used to automatically detect different bike profiles.

1.3.2 ANT+ heart rate transmitter (optional accessory)

Use the ANT+ heart rate transmitter to precisely tailor your training. The heart rate zones and intensity zones will keep you on track toward reaching goals.

1.3.3 ANT+ cadence transmitter (optional accessory)

The ANT+ cadence transmitter enables you to see your cadence at all times. The cadence transmitter is also required to calculate your power using the power formula.

1.3.4 GPS transmitter

The integrated GPS transmitter determines your current speed and distance ridden. When the ROX 10.0 GPS is switched on, it automatically searches for GPS satellites. When indoors, you may not be able to receive GPS satellite signals, or those received may be weak. Move outdoors to for better satellite reception or use the optionally available ANT+ speed transmitter.

1.3.5 Favorites

Favorites A & B allow you to personalize your ROX 10.0 GPS.

Select up to 28 functions that are most important to you during a ride. Don"t worry, the ROX 10.0 GPS will record all functions in the background for post ride analysis.

This reduces the amount of "clicking" and lets you focus on your ride.

1.3.6 PC / Mac interface

The ROX 10.0 GPS can be connected to a PC or Mac. The micro USB cable supplied can be used to charge the ROX 10.0 GPS and transfer data between your computer and the ROX 10.0 GPS.

You can also configure the settings for the ROX 10.0 GPS on the computer and then transmit them to the bike computer. This enables you to quickly and easily configure your ROX 10.0 GPS without having to navigate through all the menu levels. Before starting, install the Data Center software from the CD supplied. Keep an eye out for regular updates online.

2 Attaching the ROX 10.0 GPS and initial use

2.1 Attaching the bracket

- Determine whether you want to attach to the handlebars or stem.
- Remove the yellow foil.
- Please bracket on handlebar or stem and attach using either cable ties (permanent attachment) or the O-rings.

Detailed attachment information can be found in the quick start guide provided.

2.2 Before initial use

Fully charge the ROX 10.0 GPS:

Charge the device using the micro USB cable and the USB port on your PC or use the wall charger supplied. The process takes approximately three hours.

On the back of your ROX 10.0 GPS, lift the rubber plug to expose the micro USB port.

2.3 Initial use

- 1. Press and hold the ENTER button for five seconds.
- 2. Press ENTER to change the language.
- 3. Now press the **A** and **+** buttons to select your desired language then press **ENTER**.
- 4. Configure the remaining settings using the same method.

2.4 Pairing the transmitters with the ROX 10.0 GPS

To use the transmitters, they must be paired with the ROX 10.0 GPS.

Information on how to pair the transmitters can be found under "ANT+ pairing" in section '10.3 Bike 1-3 & totals'.

Synchronizing the transmitters

2.5 Synchronizing the transmitters

To synchronize the transmitters, the ROX 10.0 GPS must be switched on and in training mode.

Once synchronization is complete, the respective values appear on the ROX 10.0 GPS"s top display segment in "Bikecomputer" view mode.

2.5.1 Synchronizing the speed

There are two options for synchronizing the speed:

- Start cycling the receiver usually synchronizes with the transmitter after five wheel rotations.
- Spin the wheel until the current speed appears on the display.

2.5.2 Synchronizing the cadence

There are two options for synchronizing the cadence:

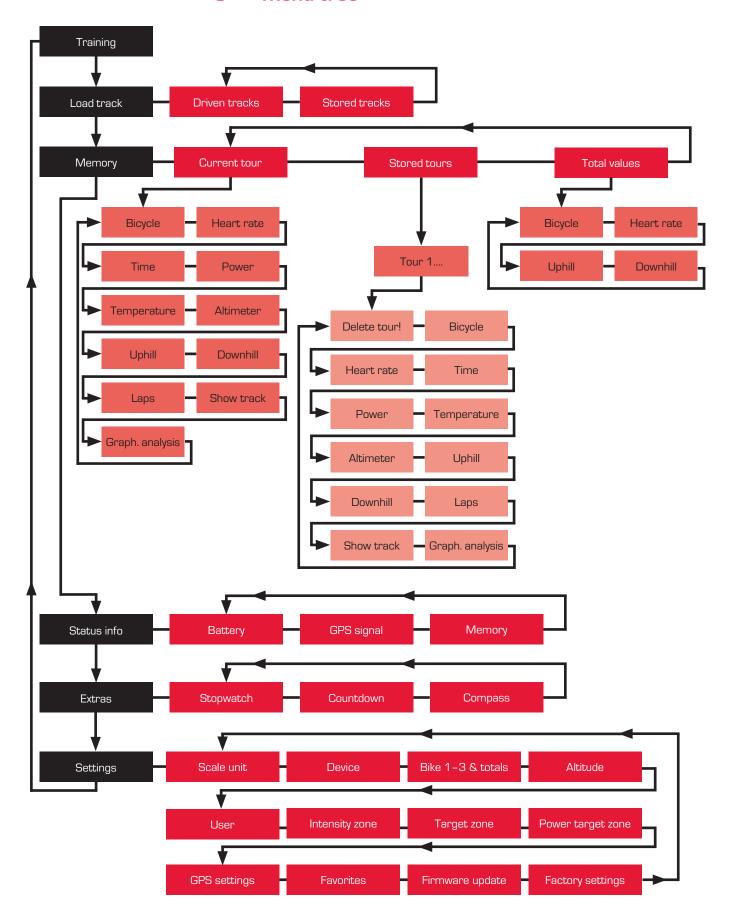
- Start cycling the receiver usually synchronizes with the transmitter after five pedal rotations.
- Turn the pedals until the current cadence appears on the display.

2.5.3 Synchronizing the chest belt

Slightly moisten the electrodes and put on the chest belt. Move into the vicinity of the ROX 10.0 GPS or get onto your bike. The ROX 10.0 GPS usually synchronizes with the chest belt in less than 10 seconds.

The current heart rate then appears on the display.

3 Menu tree



4 Operating concept

4.1 ROX 10.0 GPS navigation principle

The ROX 10.0 GPS has up to seven menu levels. When navigating through the ROX 10.0 GPS menus and submenus, you can use the tree diagram in section '3 Menu tree' as a guide.

The navigation bar at the top of the ROX 10.0 GPS screen will help guide you through the menus. The possible functions of the PACK and ENTER buttons are also displayed in the navigation bar:

- Go to the next level down (ENTER/SELECT/EDIT)
- Go back to the next level up (BACK)
- Go to the next editable position (NEXT)
- Activate or deactivate a function (ON/OFF)
- Scroll forward or backward within the menu levels (and and and
- Confirm/save a setting (SAVE).

4.2 Button functions

Shortcut Only in training mode

Simultaneously press the BACK and ENTER buttons to open the short menu.

Back/Stop button

Press this button to exit the submenus or stop a current data log.

Press and hold the button in training mode to reset all data and save the current trip.

Start/Lap button

Press this button to start a data log. During a data log press this button to start a new lap.

SIGMA® Training 154 - 82 607 - 1 10 21,2 Ecc Imi

Enter button

Press this button to access the submenus or zoom the top display data (HR, Alti, Cad, Slope).

Press and hold the button to turn the ROX 10.0 GPS on and off.

Mode button

Press this button to switch between the "Bikecomputer", "Track View" and "Altitude View" modes in the training menu.

Minus button

Scroll backward in a menu level ...

- ... or lower/change the value displayed ...
- ... or zoom out in Track/Altitude View.

Backlight on/off

Simultaneously press the START and MODE buttons.

Plus button

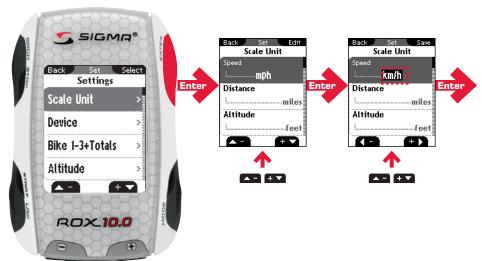
Scroll forward in a menu level ...

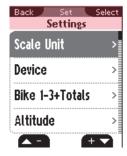
- ... or increase/change the value displayed ...
- ... or zoom in in Track/Altitude View

4.3 Operating concept for the remaining menu

All settings are done following the same procedure:

- Press the and buttons to select the desired menu.
- Open this menu by pressing ENTER.
- Navigate to the respective unit using and and press to edit it.
- The value to be edited has a black background and can be modified by pressing the and buttons.
- Save your changes by pressing ENTER.





4.3.1 Top display segment

The top line of the upper display segment will change depending on which menu you are in. The possible functions of the BACK and ENTER buttons will be displayed to assist you.

The second line of the top display segment always shows which menu/submenu you are currently in.



4.3.2 Bottom display segment

The submenus and programmable values are displayed in the bottom display segment.

Press the and to select the desired menu/submenu.

Press to open the menu/submenu.

4.4 Training menu operating concept & display structure

The ROX 10.0 GPS"s training menu is divided into three view modes:



While training, you can track your current training values using the three modes "Bikecomputer", "Track View" and "Altitude View". Press the work button to switch between the different modes.

4.4.1 "Bikecomputer" view mode

The "Bikecomputer" view mode is divided into three display segments.



4.4.1.1 Top display segment

The first line displays the following values:



Battery status indicator or



Battery charging



GPS signal available

Beneath these, four current values are displayed:



Current heart rate (only if you are wearing the chest belt)



Current cadence (only if the cadence transmitter has been attached)



Current altitude (permanent)



Current incline (permanent)

Press ENTER to zoom in so that only one of the four functions is displayed. Press to scroll through each current value and return to the multi-view screen.



4.4.1.2 Middle display segment

This displays your current speed plus other icons:



Bike I/bike II/bike III icon



Current to average speed comparison

GPS

Indicates that the speed signals are coming from the GPS signal

mph

Preset unit (km/h or mph)



Exercise time active



Training countdown active (see section '10.2 Device')



4.4.1.3 Bottom display segment

This segment displays up to 10 individually programmable values (see section '10.10 Favorites').

Press the and to display the individual values.



4.4.2 "Track View" mode

In "Track View" mode, up to six individually programmable values (see section "10.10 Favorites") are displayed in the upper display segment. Press the button to navigate through the values.

Your route is graphically displayed in the bottom segment. Press the and buttons to zoom the display.



4.4.3 "Altitude View" mode

In "Altitude View" mode, up to six individually programmable values (see section "10.10 Favorites") are displayed in the upper display segment. Press the button to navigate through the values.

Your altitude profile is graphically displayed in the bottom segment. Press the and buttons to zoom the display.



5 Training with the ROX 10.0 GPS

5.1 Favorites A + B

The functions/values that are most important to you can be stored under favorites A and B. This enables you to quickly and easily access the functions you want (speed, altitude, heart rate, cadence, incline, and the favorite functions) while riding. Up to 28 functions can be stored in each of the favorites.

Once you set favorites A and B they cannot be changed during a training session (see section '10.10 Favorites'). Ten functions per favorite can be specified for the "Bikecomputer" view mode, and six for each of the "Track View", "Altitude View" and "Lap Message" view modes.

Before each ride, choose favorites A or B using the short menu.

Preset functions for favorite A in "Bikecomputer" view mode:

Trip distance
 Average speed
 Max. speed
 Max. incline uphill
 Altitude ascent
 Temperature
 Exercise time
 Max. speed
 Trip distance uphill
 Altitude profile
 Clock

Preset functions for favorite B in "Bikecomputer" view mode:

Trip distance
 Lap time
 Average speed
 Power
 Average heart rate
 Intensity zone
 Altitude ascent
 Temperature
 Exercise time
 Average speed
 Altitude ascent
 Clock

Preset functions for favorite A in "Track View" mode:

Current speed
 Trip distance
 Time of arrival
 Distance to destination
 GPS accuracy
 Driving direction

Preset functions for favorite B in "Track View" mode:

Current speed
 Trip distance
 Current heart rate
 GPS accuracy
 Trip distance
 Current power
 Driving direction

Preset functions for favorite A in "Altitude View" mode:

Current speed
 Incline
 Altitude ascent
 Trip distance
 Current altitude
 Trip distance uphill

Preset functions for favorite B in "Altitude View" mode:

Current speed
 Incline
 Altitude ascent
 Trip distance
 Current rise rate
 Max. altitude

Preset functions for favorite A in "Lap Message":

Lap time
 Avg. HR per lap
 Empty
 Lap distance
 Avg. lap speed

Preset functions for favorite B in "Lap Message":

Avg. HR per lap
 Avg. Power per lap
 Lap time
 Empty
 Avg. Power per lap
 Empty
 Avg. lap speed

5.2 Calibrating the altitude IAC+

The ROX 10.0 GPS"s altitude measurement is determined by barometric air pressure. Any change to the weather means a change to the air pressure, which can lead to a change to your current altitude. To offset these changes in air pressure, you must enter a reference altitude into the ROX 10.0 GPS (process known as calibration).

The ROX 10.0 GPS offers three types of calibration (only one has to be used):

1. Home altitude 1-3

The home altitude is a known altitude of your start location. You can program up to three different home altitudes.

2. Current altitude

The current altitude is the altitude at your current location. The current altitude is used if you are out on your bike and altitude information is provided.

3. Air pressure at sea level

If you are at an unknown altitude, you can enter the "air pressure reduced to sea level" to calculate the current altitude. The air pressure reduced to sea level can be found online (e.g. www.meteo24.de), in the daily newspaper, or at airports.

Altitude points list

To prevent weather-induced changes of altitude, the device stores "altitude measurement points". Every time the user calibrates the barometric altitude, the ROX 10.0 GPS stores the location. Whenever the user returns to this location (within a 30 m radius), the altitude is automatically calibrated.

The altitude measurement points from the IAC+ altitude calibration are stored in the altitude points list (see '10.4 Altitude'). You can also delete individual altitude measurement points from this list.

CAUTION:

The air pressure at your weather station is the air pressure at the measurement site and not the air pressure reduced to sea level! An opening below the button on the ROX 10.0 GPS is used to measure the air pressure. This opening must not be covered. Do not insert sharp objects into the measurement hole!



5.3 Power calculation or measurement

The ROX 10.0 GPS can calculate (!) the power using of several parameters or power values sent via an ANT+ compatible power meter. Please choose between power meter and formula under Settings/Device/Power Meter or Formula.

5.3.1 Power calculation

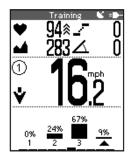
Power is calculated (!) using speed, cadence, incline, bike weight, bike type, rider position, body weight, shoulder width and body height. The wind speed is not considered.

Power can only be calculated when a cadence transmitter is used.

The power values displayed are approximations and are calculated given average wind speed and average road conditions.

5.3.2 Power measurement

The ROX 10.0 GPS is fully compatible with ANT + compatible power meters (e.g. SRM power meter – www.srm.de). These power meters measure power using forces (e.g. on the pedals) and are independent of external influences.



5.4 Intensity zones

The arrow below the bar chart indicates which intensity zone you are currently training in. Intensity distribution is also continuously calculated and displayed throughout your training session.

Athletes can set their intensity zones themselves (see section '10.6 Heart rate intensity zones'). In the default setting, the intensity zones are based on common German definitions of the training zones:

- Intensity zone 1 = 60-70% HRmax (e.g. BE1)
- Intensity zone 2 = 70-80% HRmax (e.g. BE1/2)
- Intensity zone 3 = 80-90% HRmax (e.g. BE2 or development zone)
- Intensity zone 4 = 90–100% HRmax (e.g. CE or peak zone)

5.5 Training



5.5.1 Using the short menu to select training settings

You can use the short menu to select the following basic settings for your training:

- Altitude
- Favorites A or B
- Load track
- Track settings (reverse track (on/off), same track back (on/off), and track direction (driving direction/north)
- Target zone alarm
- Auto pause (on/off)
- Altitude (home altitude 1–3, sea level calib., manual calib.)
 Information about altitude settings can be found in section '5.2 Calibrating the altitude IAC+'.
- Bike selection
- Calibrate compass

To access the short menu, simultaneously press the BACK and ENTER buttons in training mode.

Press the and two buttons to select the desired functions and open or confirm these by pressing ENTER.

Functional description of track settings:

1. Reverse track (on/off)

Use this function to reverse the direction of a tour that you have stored. If, for example, you have downloaded a tour to your ROX 10.0 GPS from the Internet and have switched the start and finish locations, you can directly reverse the tour on the ROX 10.0 GPS. If you do not do this, your device will indicate that you are riding in the wrong direction.

Note

"Reverse track" must be activated before a track is loaded to reverse the track!

.....

2. Same track back (on/off)

Use this function to return along the same track that you have just ridden.

3. Track direction (driving direction/north)

Use this function to define the type of direction indication. Driving direction means that the route is always in front of you. North means that the track is always pointing north and the arrow rotates on the display in accordance with your ride direction. This means that if you are cycling south, the arrow on the display will point down.

5.5.2 Starting logs

To start logs for your training session, press the START button. A brief confirmation message "Exercise time started" is displayed and the "stopwatch active" icon appears in the "Bikecomputer" view mode.

5.5.3 Stopping/ending logs

To end logs for your training session, press the button. A brief confirmation message "Exercise time stopped" is displayed and the "exercise time active" icon disappears from the "Bikecomputer" view mode.

You can continue the log at any time by pressing the START button.

5.5.4 Saving a log

To reset all values and save the log, press and hold the stop button for five seconds.

The tour evaluation data can be found under the menu item "Memory/Stored Tours".



5.5.5 Auto pause

The auto pause function can be activated and deactivated in the short menu.

Auto pause function activated:

You can start training as soon as you have pressed Start. The ROX 10.0 GPS waits until it can record a speed of more than 2.2 km/h before starting to record the training session. From then on, the activated auto pause function ensures that the exercise time pauses for speeds of less than 2.2 km/h ("Auto Pause" appears on the display) and restarts at speeds of over 2.2 km/h (auto start).

Note:

If you have stopped the device manually, it will no longer automatically restart; you must also manually restart it.

Auto pause function deactivated:

The exercise time starts as soon as you have pressed start and stops when you press stop. This enables you to record your heart rate even when resting, for example.

Note:

The exercise time is linked to the logging. If the exercise time is stopped, no data is recorded for further analysis. If the auto pause function is activated, the exercise time is identical to the trip time. If the auto pause function is deactivated, the trip time and the exercise time differ.

5.5.6 Displaying training parameters

During the training session your current training parameters can be displayed using the three modes "Bikecomputer", "Track View" and "Altitude View" and the preset values or values defined in the favorites.

All training parameters for the current ride are stored under the menu item "Memory/Current Tour" and can be used to evaluate the training session after the tour.



5.5.7 Lap Message view

You can use the lap function to start a new lap (or interval) after riding a certain distance or reaching a certain position. This enables you to compare your performance on different sections with similar distances.

A training log must be started for the lap function to operate.

Press the LAP button to end the current lap and automatically start a new one. The "Lap Message" view appears for eight seconds, displaying all the key values for the last lap. The display then jumps back to the previous view mode.

The preset lap functions can be changed (see '10.10 Favorites').

Note

The analysis data for the individual laps can be found under the menu path "Memory/Current Tour or Stored Tours (section '7.3.9 Tour data – laps').

Training functions

5.6 Training functions

5.6.1 Zoom function in Track View and Altitude View

Press the and to select the optimum zoom setting.

5.6.2 Same track back function

With the "same track back" function, the ROX 10.0 GPS guides you back to your start location.

5.6.3 Track found message

The "track found message" appears if you ride along a previously loaded track.

5.6.4 Off-track alarm

The "off-track alarm" helps you stay on route and is triggered if you leave it.

5.6.5 Wrong direction message

The ROX 10.0 GPS detects if you are riding in the wrong direction and indicates this message.

If a tour has been incorrectly stored (start and end points mixed up), you can use the "Reverse track" function (see section '5.5.1 Using the short menu to select training settings') to directly reverse the tour on the ROX 10.0 GPS.

.....

Note

"Reverse track" must be activated before a track is loaded to reverse the track!

5.6.6 Waypoint alarm

The waypoint alarm reminds users that they have reached an interesting waypoint that was marked in advance.

5.7 Analysis

The analyses for the current tour, stored tours, and total values can be found under the menu item "Memory".



6 Load track



This function enables you to select, start, display, and delete driven or stored tracks.

Note

Information on the memory capacity of the tracks and points can be found in section '6.1.1 Track data memory'.

6.1 Memory capacity for track data

The memory for the training sessions can store up to 100 training files. The maximum storage period also depends on the log interval selected.

The log times in hours per log interval can be seen in the table:

Log interval	Log time in hours	
1 sec		8:12:00
2 sec		16:25:00
5 sec		41:04:00
10 sec		82:08:00
20 sec		164:16:00
30 sec		246:24:00

The log interval can be set at the menu path "Settings/Device" (see section '10.2 Device').

6.1.1 Track data memory

The track memory can store up to 50 tracks with a total of up to approx. 42,000 track points.

A maximum of 384 waypoints can be stored. You can also mark special points of interest (POI) located near the route as waypoints.



6.2 Driven tracks

This area displays all the tracks you have recorded.

Information on how to delete driven tracks can be found in section '7.2 Stored tours'.



After selecting a track by pressing the button, you have three options:

- Start track
- Show track
- Show altitude profile



6.2.1 Start track

Select "Start track" to ride the selected track.

Once you have selected "Start Track" the display will automatically switch to the training menu in "Track View" mode and your ride will begin. Follow the route shown on the display.

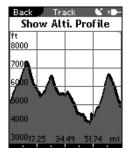
Press the and buttons to zoom in and out.



6.2.2 Show track

Select "Show track" to display the route for the selected tour. Press the and buttons to zoom in and out.

Press BACK to return to the driven tracks menu.



6.2.3 Show altitude profile

Use "Show altitude profile" to view a graphical representation of the route"s altitude profile.

Press BACK to return to the driven tracks menu.



Back Track Select

Tag3_cap_arabba_110

Show Alti. Profile >

Start Track Show Track

Show Details

6.3 Stored tracks

Note

Information on the memory capacity for tracks and waypoints can be found in section '6.1.1 Track data memory'.

Here you can locate the tracks that you have transferred to the ROX 10.0 GPS with the help of SIGMA Data Center.

Data Center enables you to download, modify, and store tracks from other users or plan your own tracks on an interactive map. These tracks can be loaded onto the ROX 10.0 GPS. Further information about Data Center can be found in the Data Center instructions.

After selecting a track by pressing the ENTER button, you have four options:

- Start track
- Show track
- Show altitude profile
- Show details



6.3.1 Start track

Select "Start track" to cycle the selected track.

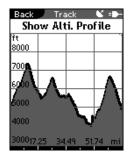
Once you have selected "Start track" by pressing FNTER, the track starts. The display automatically switches to the training menu in "Track View" mode. Follow the route shown on the display.



6.3.2 Show track

Select "Show track" to display the route for the selected tour.

Press BACK to return to the stored tracks menu.



6.3.3 Show altitude profile

Select "Show altitude profile" to view a graphical representation of the trip"s altitude profile.

Press BACK to return to the stored tracks menu.



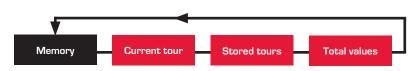
6.3.4 Show details

Select "Show Details" to see the following:

- Trip distance
- Altitude ascent 1
- Ride Rating



7 Memory





7.1 Current tour

Current tour provides all values for your current tour. These are divided into 11 sub-items (see section '7.3 Stored data').



7.2 Stored tours

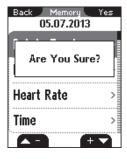
Stored tours provides an overview of your stored/saved tours.

Use the __ and +_ buttons to select the tour for which you want to view then press ENTER.

All the values for the selected tour are displayed. These are divided into 11 subitems (see section '7.3 Stored data').



You can delete individual tours. Press the __ and __ buttons to select "Delete tour!" then press __ ENTER.



The question "Are you sure?" appears. Press the ENTER button again to delete the tour.



7.3 Stored data

All trip data is stored per trip.

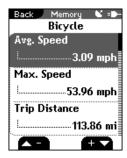
The data is divided into the following 11 areas:

- 1. Bicycle
- 3. Time
- 5. Temperature
- 7. Uphill
- 9. Laps
- 11. Graph. analysis

- 2. Heart rate
- 4. Power
- 6. Altimeter
- 8. Downhill
- 10. Show track

Note:

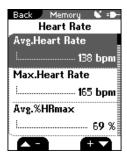
Certain values (heart rate, power, work, cadence) can only be determined when using the ANT+ heart rate transmitter, ANT+ cadence transmitter, and/or ANT+ power meter.



7.3.1 Tour data - bicycle

The bicycle menu displays the following bike values:

- Average speed
- Max. speed
- Trip distance
- Average expansion
- Average cadence
- Max. cadence



7.3.2 Tour data - heart rate

The heart rate menu displays the following values:

- Average heart rate
- Max. heart rate
- Average % of the max. heart rate
- Calories
- Time in target zone
- Time at intensity 1
- Time at intensity 2
- Time at intensity 3
- Time at intensity 4



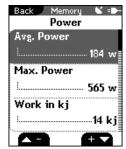
7.3.3 Tour data - time

The time menu displays the following values:

- Start date
- Start time
- Exercise time
- Trip time

Note:

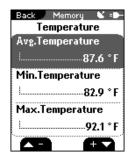
Reset all data prior to the start of a ride to ensure proper start date and time



7.3.4 Tour data - power

The power menu displays the following values:

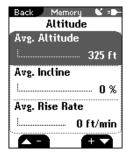
- Average power
- Max. power
- Work (kj)
- Average power in W/kg
- Time in target zone



7.3.5 Tour data - temperature

The temperature menu displays the following values:

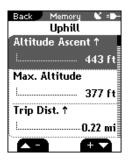
- Average temperature
- Min. temperature
- Max. temperature



7.3.6 Tour data - altimeter

The altimeter menu displays the following values:

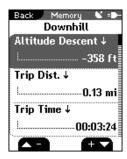
- Average altitude
- Average incline
- Average rise rate



7.3.7 Tour data - uphill

The uphill menu displays the following values:

- Altitude ascent 1
- Max. altitude
- Trip distance ↑
- Trip time ↑
- Average speed 1
- Average rise rate ↑
- Max. rise rate ↑
- Average incline ↑
- Max. incline 1
- Average expansion ↑



7.3.8 Tour data - downhill

The downhill menu displays the following values:

- Altitude descent ↓
- Trip distance ↓
- Trip time ↓
- Average speed ↓
- Average rise rate ↓
- Max. rise rate ↓
- Average incline ↓
- Max. incline ↓
- Average expansion ↓



7.3.9 Tour data - laps

The lap menu displays the following values:

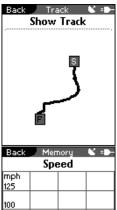
- Average lap time
- Average lap distance
- Lap
- Lap 01, 02 (average speed, distance)

The individual values for each lap can be found in the respective submenus:



- 1. Lap time
- 3. Lap distance
- 5. Avg. lap speed
- 7. Avg. heart rate per lap
- 9. Calories per lap
- 11. Max. lap cadence
- 13. Max. lap power
- 15. Max. lap altitude
- 17. Lap altitude ↓
- 19. Avg. incline ↓

- 2. Time since start
- 4. Distance since start
- 6. max. lap speed
- 8. Max. heart rate per lap
- 10. Avg. lap cadence
- 12. Avg. lap power
- 14. Avg. lap altitude
- 16. Lap altitude ↑
- 18. Avg. incline ↑



7.3.10 Tour data - show track

Show track displays a graphical outline of your route.

7.3.11 Tour data - graph. analysis

Graph analysis displays graphs of the following values:

- Speed
- Heart rate
- Cadence
- Power
- Altitude



7.4 Total values

All total values for the three bikes are divided into the following sub-areas:

1. Bicycle

2. Heart rate

3. Uphill

4. Downhill



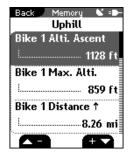
7.4.1 Total values - bicycle

Displays the total values for the distance and trip time for each bike.



7.4.2 Total values - heart rate

Displays the total calories for each bike.



7.4.3 Total values - uphill

Displays the total values for the altitude ascent, max. altitude, distance \uparrow and trip time \uparrow for each bike.



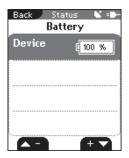
7.4.4 Total values - downhill

Displays the total values for the altitude descent, distance \downarrow and trip time \downarrow for each bike.



8 Status info



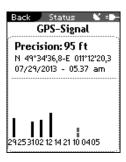


8.1 Battery

ROX 10.0 GPS receiver

The ROX 10.0 GPS comes with a rechargeable battery. This can be charged using a micro USB cable and the USB port on your PC or the USB wall charger supplied.

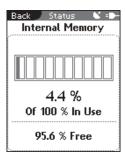
The charge status is always shown at the top right of the display. If the device is switched off, the charge status will appear in the center of the display while the device is charging.



8.2 GPS signal

View information about the GPS signal:

- Accuracy in meters / feet
- Position (coordinates)
- Date and time
- Satellites and signal strength

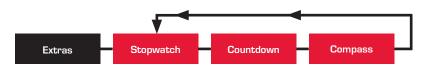


8.3 Memory

Shows how much internal memory is used and free.



9 Extras



Note

In addition to the normal training functions, your ROX 10.0 GPS has functions that you can use when not training.



9.1 Stopwatch

Use the stopwatch to record times during sports events.

Start the stopwatch by pressing the stopwatch in "Extras" is not the same as the stopwatch in the training mode.

Press the START button again (after starting the stopwatch) to time laps.

Press the STOP button to stop the stopwatch and ENTER to reset it to zero.

Press the and to scroll through the list of laps.



9.2 Countdown

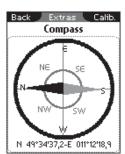
Use the countdown function to make sure you do not miss important events.

Press the ENTER button to pre-program the countdown. Press the A and + V buttons as well as the ENTER button to set the time.

After setting the time, start the countdown by pressing the START button. Press the ENTER button to pause the countdown and STOP to end the countdown.

Note

Please note that the countdown in the "Extras" menu is not the same as the countdown in the "Training" menu.

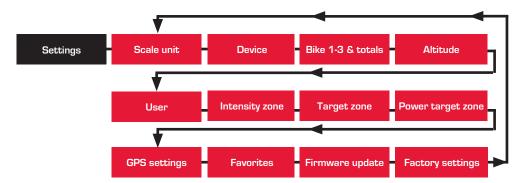


9.3 Compass

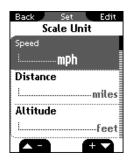
The compass indicates your direction and location so that you can navigate while on or off the bike.



10 Settings



All functions can either be set on the ROX 10.0 GPS or on the PC and then transferred to the ROX 10.0 GPS.



10.1 Scale unit

You can define the following units for the ROX 10.0 GPS:

- Speed (km/h, mph)
- Distance (km, miles)
- Altitude (meter, feet)
- Temperature (°C, °F)
- Weight (kg, lb)
- Date (DD.MM.YYYY, MM/DD/YYYY)
- Clock (24h, 12h)



10.2 Device

Language
 Press the and buttons followed by to select the language for the ROX 10.0 GPS.

- Log interval

Press the and two buttons followed by enter to select the recording interval (1 sec, 2 sec, 5 sec, 10 sec, 20 sec, 30 sec) for the ROX 10.0 GPS.

For information about how the log recording interval affects the memory capacity, see section '6.1.1 Track data memory'.

- Time zone

Press the __ and __ buttons followed by __ to select the time zone.

Note:

Time zones are listed alphabetically (i.e. - US - Eastern -05:00, or US - Central -06:00)

- Summer (daylight savings) time (on/off)
- Countdown (on/off)

Press the A- and + V buttons followed by ENTER to specify the time for a countdown to help you complete your training. The countdown begins as soon as your training session starts.

- My name
- Auto pause (on/off)
- Target zone alarm (on/off)
- Button tone (on/off)
- System tone (on/off)
- Contrast

Press the \triangle and \triangle buttons followed by ENTER to set the contrast (1-4) on the ROX 10.0 GPS.

- Backlight time

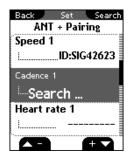
Press the __ and +_ buttons followed by __ to set the backlight time (permanent, 5 min on, 2 min on, 30 sec on) for the ROX 10.0 GPS.



10.3 Bike 1-3 & totals

This section is used to program the following information for up to 3 bikes:

- Bike type (race drop, race hoods, mountain bike)
- Bike weight (1.0–50.0 kg)
- Wheel size (500-3999 mm)



10.3.1 Pairing with the ROX 10.0 GPS

ANT+ pairing (speed, cadence, heart rate, power)

The transmitter to be paired must be activated (by the magnet passing the ANT+ speed or ANT+ cadence transmitters or by putting on the chest belt with the heart rate transmitter).

Press the and two buttons to select the appropriate transmitter for pairing and start the pairing process by pressing the ENTER button ("Search").



"Search" appears briefly followed by the transmitter's ID. The pairing process is now complete and the transmitter can be used for training.

Note

Maintain a gap of one to two feet between the transmitter and the ROX 10.0 GPS. Also ensure that there are no other ANT+ transmitters within a 20 foot radius.

10.3.2 Pairing power meters

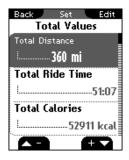


Activate your power meter as described by the manufacturer (usually by turning the pedals or the wheel).

Once the pairing process has successfully completed, you can calibrate the power zero point automatically or manually. Please note that this is not necessary for all power meters. For additional information, please refer to the operating instructions of your power meter.

Note

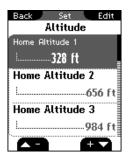
The zero point is the value that the power meter sends to the ROX 10.0 GPS if it is not recording any forces. It is important to set the zero point before setting off or the automatic zero point will be activated. This value is used to calculate all power data.



10.3.3 Total Values

 Total values (total distance, total ride time, total calories, total altitude ascent, total maximum altitude, total distance up, total time up, total altitude descent, total distance down, total time down)

Enter existing cumulative totals (i.e. - transferred from your old bicycle computer) and all new values will be added.



10.4 Altitude

The home altitude is the altitude of your usual start location (usually your home). You can find this information on road or country maps. You can set three different home altitudes on the ROX 10.0 GPS.

- Home altitude 1
- Home altitude 2
- Home altitude 3
- Altitude points list

The altitude measurement points that are manually entered during rides are stored here in the altitude points list (see section '5.2 Calibrating the altitude IAC+')

In this setting option you can also delete individual altitude measurement points.

Note

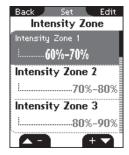
The altitude points list stores a maximum of 20 altitude measurement points.



10.5 User

Use this area to set the following user data:

- Gender (male, female)
- Date of birth (mm/dd/yyyy)
- Body weight (40–400 lbs)
- Body height (40–100 inches)
- Shoulder width (15–30 inches)
- Max. HR (100-240 bpm)



10.6 Heart rate intensity zones

The ROX 10.0 GPS has four intensity zones, which make it easier to manage your training. The values are automatically calculated based on your maximum heart rate. You can manually modify the % values for the individual intensity zones.

The four pre-calculated zones are:

- Intensity zone 1 (60–70%)
- Intensity zone 2 (70–80%)
- Intensity zone 3 (80–90%)
- Intensity zone 4 (90–100%)

Note

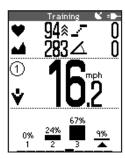
In training mode you can view the intensity zone function which includes the percentage of time spent in each zone.



10.7 Heart rate target zone

You can select one of three target zones when training with the ROX 10.0 GPS. The target zones "Fitness" and "Fatburning" are automatically calculated based on your maximum heart rate. You can personalize the heart rate value for the "Individual" target zone. The target zone function can also be deactivated.

- Fitness
- Fatburning
- Individual
- Off



If the target zone is activated, a zone indicator arrow next to the heart rate and an optional beep sound indicate if you are above or below the target zone in training mode.



10.8 Power target zone

Set the upper and lower limits of the power target zone function or deactivate the function. The following values can be set:

- On or off
- Lower limit and upper limit



10.9 GPS settings

- GPS (on/off)
- GPS coordinate format (hddd°mm"ss,s or hddd°mm,mmm)
- Off-track-alarm (131 ft, 262 ft, 394 ft, off)

This alarm informs you that you have left the route. You can set the distance (131 ft, 262 ft, 394 ft, off) at which the alarm should be triggered or deactivate it.

 Waypoint alarm (waypoints are special points of interest that you have marked (POI) along near the route). The Waypoint alarm indicates that you are approaching a designated point of interest. You can set the distance (131 ft, 262 ft, 394 ft, off) at which the alarm should be triggered or deactivate it.

Auto-zoom track (on/off)



10.10 Favorites

Favorites A and B can be filled with up to 28 functions in the various view modes (Bikecomputer, Track View, Altitude View, Lap Message). You can select the functions that are most important to you.

To set your favorites:

- Start by pressing the and buttons to set Favorite A or Favorites B and then press ENTER.
- 2. Press the and to buttons to select the view mode (Bikecomputer, Track View, Altitude View, or Lap Message) then press INTER.
- In the "Bikecomputer" view mode, you can define up to 10 values and their display positions. Press the → and + → buttons to choose the position (1-10) in which the value should be displayed then confirm your selection by pressing ★■■■

Note

Six functions (1A-3B) can be selected in the "Track View", "Altitude View" and "Lap Message" view modes.

- 4. Press and to select the function category then press ENTER
- 5. You are now shown the function choices. Press the and two buttons to select the desired functions then press ENTER.
- 6. Your selection is confirmed and a check mark appears.
- 7. The ROX 10.0 GPS automatically moves to the next setting position. Select the next function and repeat steps 4 through 6.
- 8. Press the BACK button to return to the view mode (step 2). Repeat the steps above to program the other view modes..

The following list contains all the selectable functions that can be added to your favorites:

Bikecomputer		
Bicycle		
Current speed	Avg. speed	
Max. speed	Trip distance	
Expansion	Avg. expansion	
Current cadence	Avg. cadence	
Max. cadence		
Heart rate		
Current heart rate	Avg. heart rate	
Max. heart rate	% of the max. heart rate	
Avg. % HR max	Calories	
Target zone	Intensity zone	
Heart rate graph		
Time		
Exercise time	Trip time	
Clock	Date	
Countdown		
Power		
Current power	3s avg. power	
30s avg. power	Avg. power	
Max. power	Work in kJ	
Current power in W/kg	Power target zone	
Temperature		
Current temperature	Minimum temperature	
Maximum temperature		
Altitude		
Current altitude	Incline (in %)	
Rise rate	Altitude profile	
Uphill		
Altitude ascent ↑	Max. altitude	
Trip distance ↑	Trip time ↑	
Avg. speed ↑	Max. rise rate ↑	
Avg. incline	Max. incline	
Avg. expansion		

Downhill			
Altitude descent ↓	Trip distance ↓		
Trip time ↓	Avg. speed ↓		
Max. rise rate ↓	Avg. expansion		
Status			
Battery status	GPS accuracy		
GPS signal			
Navigation			
Time to destination	Time of arrival		
Distance to destination	Direction		
Mini track			
Lap			
Lap number	Lap time		
Lap distance	Avg. speed per lap		
Max. speed per lap	Avg. heart rate per lap		
Max. heart rate per lap	Calories per lap		
Avg. cadence per lap	Max. cadence per lap		
Avg. power per lap	Max. power per lap		
Altitude ascent per lap ↑	Altitude descent per lap ↓		
Avg. incline per lap ↑	Avg. incline per lap ↓		

Track View, Altitude View	
Bicycle	
Current speed	Avg. speed
Max. speed	Trip distance
Expansion	Avg. expansion
Current cadence	Avg. cadence
Max. cadence	
Heart rate	
Current heart rate	Avg. heart rate
Max. heart rate	% of the max. heart rate
Avg. % of the max. heart rate	Calories
Time	
Exercise time	Trip time
Clock	Date
Countdown	
Power	
Current power	3s avg. power
30s avg. power	Avg. power
Max. power	Work in kJ
Current power in W/kg	

Temperature			
Current temperature	Minimum temperature		
Maximum temperature			
Altitude			
Current altitude	Incline (in %)		
Rise rate			
Uphill			
Altitude ascent ↑	Max. altitude		
Trip distance ↑	Trip time ↑		
Avg. speed ↑	Max. rise rate ↑		
Avg. incline ↑	Max. incline ↑		
Avg. expansion ↑			
Downhill			
Altitude descent ↓	Trip distance ↓		
Trip time ↓	Avg. speed ↓		
Max. rise rate ↓	Avg. incline ↓		
Max. incline ↓	Avg. expansion ↓		
Status			
Battery status	GPS accuracy		
Navigation			
Time to destination	Time of arrival		
Distance to destination	Direction		
Lap			
Lap number	Lap time		
Lap distance	Avg. speed per lap		
Max. speed per lap	Avg. heart rate per lap		
Max. heart rate per lap	Calories per lap		
Avg. cadence per lap	Max. cadence per lap		
Avg. power per lap	Max. power per lap		
Avg. altitude per lap	Max. altitude		
Altitude ascent per lap ↑	Altitude descent per lap ↓		
Avg. incline per lap ↑	Avg. incline per lap ↓		

Lap Message	
Lap	
Lap number	Lap time
Time since start	Lap distance
Distance since start	Avg. speed per lap
Max. speed per lap	Avg. heart rate per lap
Max. heart rate per lap	Calories per lap
Avg. cadence per lap	Max. cadence per lap
Avg. power per lap	Max. power per lap
Avg. altitude per lap	Max. altitude

Altitude ascent per lap ↑	Altitude descent per lap ↓
Avg. incline per lap ↑	Avg. incline per lap ↓



10.11 Firmware update

Caution

Firmware updates reset all values to zero restore initial factory settings.. Before starting the firmware update, download your ride data and all relevant settings to your PC or Mac.

To complete the firmware update:

- 1. Use the micro USB cable to connect your ROX 10.0 GPS to your PC or Mac then press ENTER on the ROX 10.0 GPS.
- 2. Open the "Data Center" on your PC.
- 3. Within the Data Center, select the Firmware Update option and follow the on-screen instructions. Additional information can be found in the Data Center instruction manual.

After the update, the ROX 10.0 GPS turns off.



10.12 Factory settings

Caution

Resetting the ROX 10.0 GPS to factory settings resets all values to zero and restores initial factory settings. Before restoring the factory settings, download your ride data and all relevant settings to your PC or Mac.

To restore the factory settings:

- 1. Press the and two buttons to select "Yes" then press ENTER.
- 2. The question "Are you sure?" appears. Confirm that you are sure by pressing
- 3. The device is now reset to factory settings.

After the ROX 10.0 GPS has been reset to factory settings, it turns off.

11 Important information, troubleshooting, and FAQ

11.1 Important information

11.1.1 ROX 10.0 GPS water resistance

The ROX 10.0 GPS is watertight in accordance with Standard IPX7. It can be used in the rain without risk of damage. The buttons can be pressed.

11.1.2 Water resistance of the transmitters (optional accessory)

ANT+ speed transmitter and ANT+ cadence transmitter

Watertight in accordance with IPX7:

They can be used in the rain without risk of damage.

ANT+ heart rate transmitter

Watertight up to 3 ATM and therefore suitable for many sporting activities.

General

ANT+ wireless transmission does not work under water!

11.1.3 Chest belt care (optional accessory)

The COMFORTEX+ cloth chest belt is machine washable on the delicate cycle. Conventional laundry detergent is recommended.

Note

Bleach or detergents containing bleach must not be used. Do not use soap or fabric softener! Do not dry clean the COMFORTEX+ chest belt. Air dry only. Lay flat to dry and do not iron.

11.1.4 Training advice

Consult your physician before starting an exercise program.

If you have a pacemaker, please check with your physician prior to use!

11.2 Troubleshooting

No speed displayed via the ANT+ speed transmitter

- Do you have both the ANT+ speed transmitter and the magnet properly installed?
- Has the ANT+ speed transmitter been paired with the ROX 10.0 GPS?
 (See section '10.3 Bike 1-3 & totals')
- Have you checked the distance between the magnet and the ANT+ speed transmitter (max. 12 mm or 1/2 inch)? If the distance between the magnet and transmitter is correct and the transmitter is properly paired, the LED light on the transmitter will flash with the first 10 wheel rotations.
- Have you checked whether the magnet is magnetized?
- Have you checked the ANT+ speed transmitter"s battery status? To do so, press the button on the transmitter and check if the LED illuminates.

No speed displayed via the GPS signal

- You can switch off the GPS function under the menu path "Settings/GPS Settings". Is it switched on?
- Are you outdoors?
- Does your ROX 10.0 GPS have satellite connection? (See section '8.2 GPS signal'). Please note that it can initially take approx. 1 minute for a GPS signal to be received.

No cadence displayed

- Do you have both the ANT+ cadence transmitter and the magnet properly installed?
- Has the ANT+ cadence transmitter been paired with the ROX 10.0 GPS?
 (See section '10.3 Bike 1-3 & totals')
- Have you checked the distance between the magnet and the ANT+ cadence transmitter (max. 12 mm or 1/2 inch)? If the distance between the magnet and transmitter is correct and the transmitter is properly paired, the LED light on the transmitter will flash with the first 10 pedal rotations..
- Have you checked whether the magnet is magnetized?
- Have you checked the ANT+ cadence transmitter"s battery status?

No heart rate displayed

- Are the electrodes moist enough?
- Is the ANT+ heart rate transmitter correctly positioned against your body?
- Has the ANT+ heart rate transmitter been paired with the ROX 10.0 GPS?
- Have you checked the ANT+ heart rate transmitter"s battery status?

Blank display

- Have you checked the ROX 10.0 GPS"s charge status?
- Is the battery charged?
- Is the ROX 10.0 GPS switched on?

Display weak/slow

- Is the temperature too high (> 140 °F) or too low (< 32 °F)?

Incorrect speed displayed

- Have two magnets been attached?
- Is the magnet correctly positioned (parallel and centrally alligned to the ANT+ speed transmitter)?
- Is the wheel size correctly set?

11.3 Frequently asked questions

Can I change the batteries myself?

The ROX 10.0 GPS uses an integrated rechargeable battery. It is not possible for you to change this battery yourself.

All of the ANT+ transmitters use a CR 2032 battery which can easily be changed. You simply need a coin to open the battery compartment.

The battery will not fully charge

Please disconnect the micro USB cable from the ROX 10.0 GPS and reconnect it after 20 seconds.

Can another person with a different bike computer/heart rate monitor cause interference?

The ANT+ transmitter work on a high digital frequency and are extremely resistant to electromagnetic interferences. The pairing process assigns the transmitters to specific bikes. All other ANT+ transmitters that are not paired are ignored in training mode. This almost entirely prevents any interference between two different devices.

How long will the battery in the transmitter last?

In general, all three transmitter batteries should last at least a year (based on one hour of use each day). The heart rate transmitter"s battery lasts for three years.

Is the ANT+ transmission system compatible with other transmission systems (e.g. Bluetooth, STS, DTS etc.)?

No, the various transmission systems are not intercompatible.

Why has the altitude changed even though I have not moved?

The ROX 10.0 GPS"s altitude measurement is based on a barometric altitude measurement. Barometric air pressure constantly changes, therefore current altitude can change even though you are not moving.

Why do I always have to calibrate the current altitude?

Barometric air pressure is used determine the current altitude, the constant changes to the current air pressure lead to changes to the current altitude. To offset these fluctuations and achieve an accuracy of one meter in the current altitude information, a reference altitude should be entered before each trip. Entering this reference altitude is known as calibration.

Data transfer between the ROX 10.0 GPS and the Data Center software does not work or is faulty or slow:

Please ensure that the ROX 10.0 GPS is installed in the device manager as a COM port.

Avoid connecting the device via a USB hub.

Preferably use USB 1.1 or 2.0 connections.

If you still have data transfer problems, please contact our customer service team.

12 Technical data

12.1 Max, min, and default values

	Unit	Min.	Max.
Bicycle			
Current speed	kmh/mph	2.2	199.8
Avg. speed	kmh/mph	0.00	199.80
Max. speed	kmh/mph	0.00	199.80
Trip distance	km/mi	0.00	9999.99
Expansion	m/ft	0.0	10.0
Avg. expansion	m/ft	0.0	10.0
Current cadence	rpm	20	180
Avg. cadence	rpm	20	180
Max. cadence	rpm	20	180
Heart rate			
Current heart rate	bpm	30	240
Avg. heart rate	bpm	30	240
Max. heart rate	bpm	30	240
% of the max. heart rate	%	12	240
Avg. % of the max. heart rate	%	12	240
Calories	kcal	0	99999
Time			
Exercise time	mm:ss.x/hhh:mm:ss	00:00.0	999:59:59
Trip time	mm:ss.x/hhh:mm:ss	00:00.0	999:59:59
Time	hh:mm:ss (12 h/24 h)	00:00:00	23:59:59
Date	DD.MM.YYYY or mm/dd/yyyy	01.01.2011	31.12.2099
Countdown	hh:mm:ss	00:00:00	09:59:59
Power			
Current power	Watt	0	2000
3s avg. power	Watt	0	2000
30s avg. power	Watt	0	2000
Avg. power	Watt	0	2000
Max. power	Watt	0	2000
Work in kJ	kj	0	99999
Current power	Watt/lb	0	80
Power target zone	Watt	0	2000
Temperature			
Current temperature	°C/°F	-10.0/+14.0	+70.0/150.0
Minimum temperature	°C/°F	-10.0/+14.0	+70.0/150.0

	Unit	Min.	Max.
Maximum temperature	°C/°F	-10.0	+70.0/150.0
Altitude	-7		
Current altitude	ft	-999	16.999
Incline (%)	%	-99	99
Current rise rate	ft/min	-499	499
Uphill	7		
Rise rate	ft	0	99999
Max. altitude	ft	-999	16.999
Trip distance uphill	km /mi	0	9999.99
Trip time uphill	mm:ss.x/hhh:mm:ss	00:00.0	999:59:59
Avg. speed uphill	mph	0.00	199.80
Max. positive uphill speed	ft/min	0	499
Avg. incline uphill	%	0	99.5
Max. incline uphill	%	0	99
Avg. expansion uphill	ft/r	0.0	10.0
Downhill	,		
Incline	ft	О	-99999
Trip distance downhill	km /mi	0	9999.99
Trip time downhill	mm:ss.x/hhh:mm:ss	00:00.0	999:59:59
Avg. speed downhill	mph	0.00	199.80
Max. negative rise rate	ft/min	-499	0
Avg. incline downhill	%	-99.5	0
Max. incline downhill	%	-99	0
Avg. expansion downhill	ft/r	0.0	10.0
Status	7		
Battery status	%	0	100
GPS accuracy	ft	0	-
GPS signal strength	-	-	-
Navigation			
Time to destination (estimated)	hh:mm:ss	00:00:00	99:59:59
Estimated time of arrival	hh:mm:ss	00:00:00	23:59:59
Distance to destination	mi	0	9999.99
Direction	NO UNIT	N	NW
Laps			
Lap number	NO UNIT	0	999
Lap time	mm:ss.x/hhh:mm:ss	00:00.0	999:59:59
Time since start	mm:ss.x/hhh:mm:ss	00:00.0	999:59:59
Lap distance	mi	0	9999.99
Distance since start	mi	0	9999.99
Avg. max. speed per lap	mph	0.00	199.80
Max. speed per lap	mph	0.00	199.80

	Unit	Min.	Max.
Avg. HR per lap	bpm	40	240
Max. HR per lap	bpm	40	240
Calories per lap	kcal	0	99999
Avg. cadence per lap	rpm	20	180
Max. cadence per lap	rpm	20	180
Avg. power per lap	Watt	0	2000
Max. power per lap	Watt	0	2000
Avg. altitude per lap	ft	-999	16.999
Max. altitude per lap	ft	-999	16.999
Altitude ascent per lap	ft	0	99999
Altitude descent per lap	ft	0	-99999
Avg. incline per lap ↑	%	0	99.5
Average incline per lap ↓	%	-99	0

12.2 Temperature, batteries

Bike computer

Ambient temperature +140 degrees F/ +14 degrees F

ANT+ speed transmitter

Ambient temperature +140 degrees F/ +14 degrees F

Battery type CR 2032 (ref. no. 00342)

ANT+ cadence transmitter

Ambient temperature +140 degrees F/ +14 degrees F

Battery type CR 2032 (ref. no. 00342)

ANT+ heart rate transmitter

Ambient temperature +140 degrees F/ +14 degrees F

Battery type CR 2032 (ref. no. 00342)

13 Warranty and guarantee

We are liable to our contracting partners for defects in line with legal provisions. The warranty does not extend to batteries. In the event of a warranty claim, please contact the retailer from whom you purchased your bike computer. You can also send your bike computer, together with your receipt and all accessories, to the address below. Please ensure you pay sufficient postage.

SIGMA SPORT USA 3487 Swenson Ave. St. Charles, IL 60174, U.S.A.

Toll free: 888-744-6277

E-mail: sigmarox@sigmasport.com

In the event of justified warranty claims, you will receive a replacement device. You will only be entitled to the model available at the time of replacement. The manufacturer retains the right to make technical modifications.





Batteries must not be disposed of in household waste (Battery Law - BattG)! Please take the batteries to an official collection point for disposal.



Electronic devices must not be disposed of in household waste. Please take the device to an official waste collection point.



The CE declaration can be found at: www.sigmasport.com

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

- 1 This device may not cause harmful interference
- 2 This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made to this equipment not expressly approved by SIGMA may void the FCC authorization to operate this equipment.

This Class B digital apparatus complies with Canadian ICES-003.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this

Temperature, batteries

equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for help.

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