



Outdoor Pioneer II

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Made in China

• Outdoor Pioneer II User Manual

The watch features a Dot matrix display and is equipped with special features such as sail, ski, altimeter, barometer and compass modes.

The altimeter and barometer is capable of storing 24 hours of data which enables the user to recall 24 hours of previous readings. The watch has a Log Data with a memory capacity of 20 logs maximum. The chrono and sail mode is has a capacity of 50 laps.

• Push button location:

All modes:

This watch has the following modes: Time, Compass, barometer, Altimeter, Log Data, Ski, Chronograph, Sail, and Alarm modes. Press S3 to scroll though these modes.

Time Mode

Press S3 from Alarm mode to enter Time mode. The watch will momentarily display TIME and then display view 1. The watch is equipped with a dual time feature which counts up individually with the same seconds. It also features 5 different views at time mode each with a different set of information. Following are the information in each view:

View 1→weather icon, month, date, day of the week, time, and year

View 2→weather icon, month, date, time and day of the week.

View 3→weather icon, day of the week, month, date, time and temperature.

View 4→weather icon, day of the week, month, date, time and current altitude.

View 5→weather icon, day of the week, month, date, time and current barometric



Figure 1

(S5)

Press S2 to change the display to your preferred view.

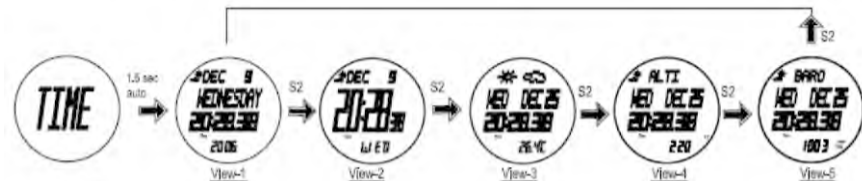


Figure 2

How to change from Time 1 to Time 2:

To change from Time 1 to Time 2 or vice versa, press and hold S1 till T1 or T2 icon stops blinking.

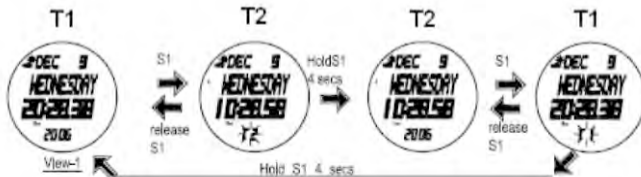


Figure 3

How to set the Time:

- While in time mode, press and hold S4 to enter time setting mode. The watch will display SET HOLD.
- Continue holding S4 until the hour digit starts to flash.
- Press S1 to increase the value of the flashing digit. Press and hold S1 to fast increase the value.
- Press S2 to decrease the value of the flashing digit. Press and hold S2 to fast decrease the value.
- Press S3 to set the next digit. The sequence of setting when you press S3 is as follows:
Hour→ Minute→ Second→ Year→ Month→ Day→ 12/24H→ Altitude→ Unit→ Pressure→ Unit
Temperature Unit→ Contrast→ back to Hour.
- After setting all the parameters, press S4 to exit setting mode. The watch will also auto exit setting mode if there is no button operation for 2-3 minutes.

Notes:

- You have to set Time 1 and Time 2 separately. T 1 and T2 have the same seconds.
- The watch has an auto calendar with year coverage from 2006 to 2055.
- There are 7 levels for LCD contrast (-3,-2,-1, 0, 1, 2, 3). Default value is 0.

Compass Mode

- Press S3 from Time mode to enter Compass mode. The watch will momentarily display COMP and then display “ - - - - ” and then the compass direction with bearing in degrees.
- The compass will be active for 30 seconds. After 30 seconds, it will display back “ - - - - ” .
- If the watch enters the Compass mode for the first time, it will automatically enter the Compass calibration mode. See compass calibration for details on how to calibrate the compass.

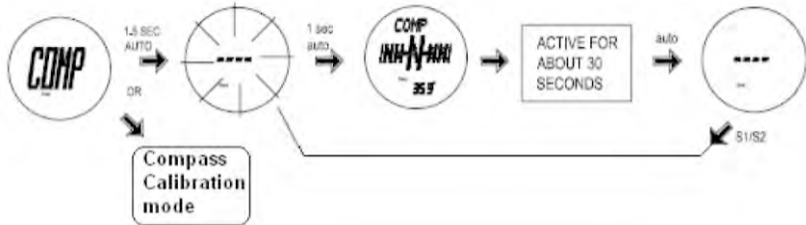


Figure 3

Compass Calibration mode:

1. Entering the compass mode for the first time (After watch reset):

1.1) When the watch enters the Compass mode for the first time, it will automatically enter the Compass calibration mode. The watch will display ROTATE CAL.

1.2) Rotate the watch horizontally 2 times at a rate of 15 seconds per rotation.

1.3) Press S1 or S2 to end calibration. The watch will display END CAL and then go to normal Compass mode. This procedure did not consider the declination angle of your current location. If you know the declination angle of your current location or you want your compass direction to be more accurate, follow the next procedure.

1.4) Setting the **Declination** angle:

1.5) After step 1.2 above, press S4 to set the declination angle of your location. The first

digit will start to flash.

1.6) Press S1 or S2 to change the value.

1.7) Press S3 to set the next digit. The next digit will start to flash.

1.8) Press S1 or S2 to change the value. The compass offset range is from 00 to 90 degrees.

1.9) Press S3 to set the direction (East or West). E or W will start to flash.

1.10) Press S1 or S2 to change.

1.11) Press S4 to exit setting mode. The watch will also auto exit calibration mode if there is no button operation after 2-3 minutes. The watch will display END CAL and then go to Compass mode.

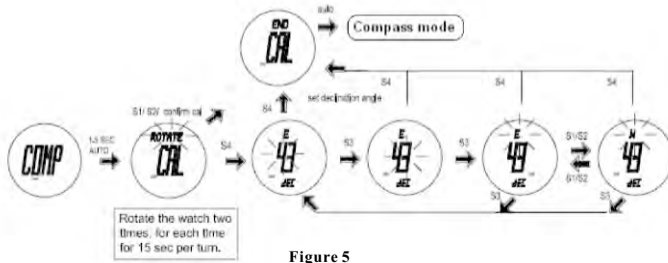


Figure 5

2. Normal Compass calibration mode: Follow this procedure if the watch has already been calibrated previously.

2.1) While in Compass mode, press and hold S4 for 2 seconds. The watch will display CAL HOLD.

2.2) Continue holding S4 until the watch will display ROTATE CAL.

2.3) Rotate the watch horizontally 2 times at a rate of 15 seconds per rotation.

2.4) Press S1 or S2 or S4 to end calibration. The watch will display END CAL and then go to normal Compass mode. This procedure did not consider the declination angle of your current location. If you know the declination angle of your current location or you want your compass direction to be more accurate, follow the next procedure.

2.5) Setting the **Declination** angle:

2.6) After step 1.3 above, press S3 to set the declination angle of your location. The first digit will start to flash.

2.7) Press S1 or S2 to change the value.

2.8) Press S3 to set the next digit. The next digit will start to flash.

2.9) Press S1 or S2 to change the value. The compass offset range is from 00 to 90 degrees.

2.10) Press S3 to set the direction (East or West). E or W will start to flash.

2.11) Press S1 or S2 to change.

2.12) Press S4 to exit setting mode. The watch will also auto exit calibration mode if there is no button operation after 2-3 minutes. The watch will display END CAL and then go to Compass mode.

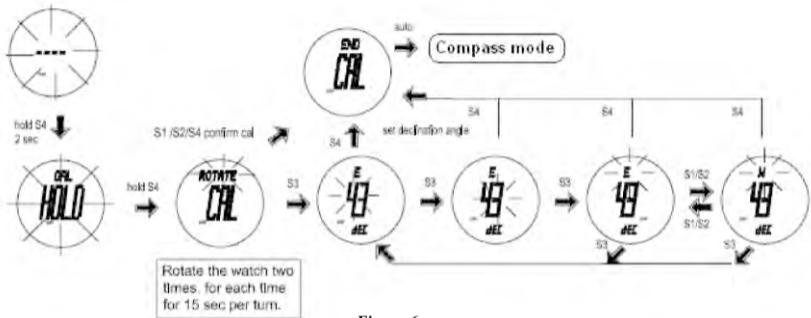


Figure 6

Barometer Mode

- Press S3 from **Compass** mode to **Barometer** mode. The watch will momentarily display BARO and then display view 1. Barometer mode has 5 views available for the user to choose.
- The watch can predict the weather condition for the next six hours provided it has accumulated 12 hours of previous barometric pressure readings

- View 1 → Weather icon/ Sea Level pressure/ Current barometric pressure/ pressure Graph/ Temperature
- View 2 → Weather icon/ Temperature/ Sea Level pressure/ Current barometric pressure/ Clock
- View 3 → Weather icon/ Sea Level pressure/ Current barometric pressure/ Temperature
- View 4 → Difference view - Weather icon/ Sea Level pressure/ Current barometric pressure/ Clock
- View 5 → 24 hour recall view.
- When entering the Barometer mode, the watch will show View 1 first always.
 - Press S2 to scroll through these views.

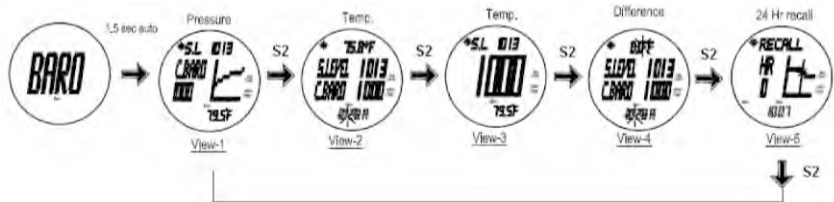


Figure 7

How to change the barometric pressure unit:

- You can change the barometric pressure unit from mbar/hpa to inHg or vice versa.
- Go to view 1 of Barometer mode.
- Press and hold S1. Notice the unit icon will change and start to flash.
- Continue holding S1 until the unit stops flashing.

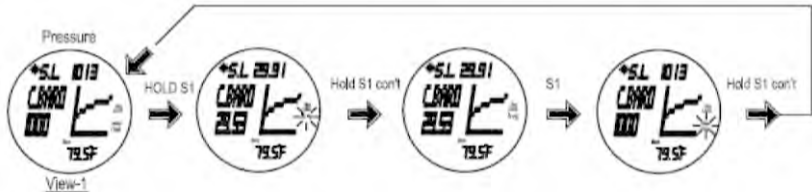


Figure 8

How to change the Temperature unit:

- You can change the temperature unit from “C to ” F or vice versa.
- Go to View 2 or View 3 of Barometer mode.
- Press and hold S1. Notice the unit icon will change and start to flash.
- Continue holding S1 until the unit stops flashing.

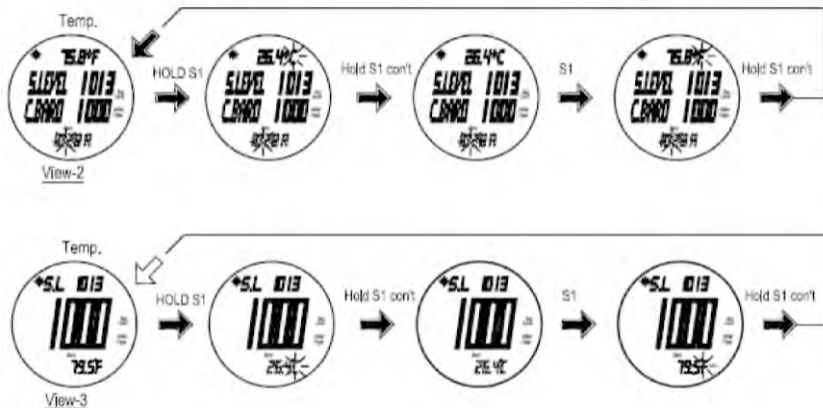


Figure 9

Difference View:

- Go to view 4 of Barometer mode. The watch will momentarily display the sea level and current Barometric pressure and then display DIFF START HOLD.

- Press and hold S4 until the watch resets the sea level and current barometric pressure to zero.
- Press S1 or S2 to go back to current values. Press S4 to abort the difference measurement.
- While the Sea level and Current barometric pressure is reset to zero, press S4 to confirm and the watch will start the measurement.
- Press S4 to stop the measurement. The watch will display DIFF STOP.
- Continue holding S4 will go back to view 4.

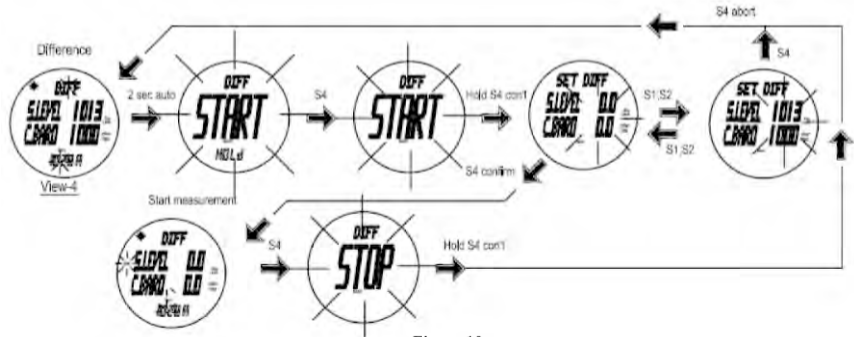


Figure 10

24 hour recall view:

The can display the barometric pressure for the last 24 hours in graphical presentation. Press S1 to scroll through the data. HR 0 means the current pressure, HR -1 is the pressure 1 our ago and so on.

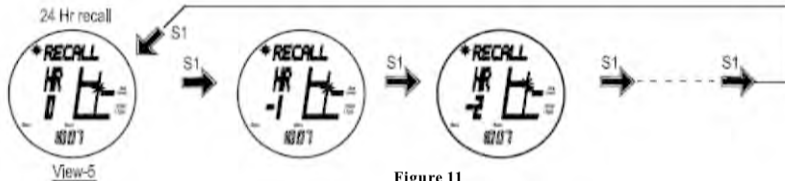


Figure 11

How to calibrate the Barometer:

To have a more accurate reading of the barometer and weather predictions shown by the weather icon, the watch must be regularly calibrated.

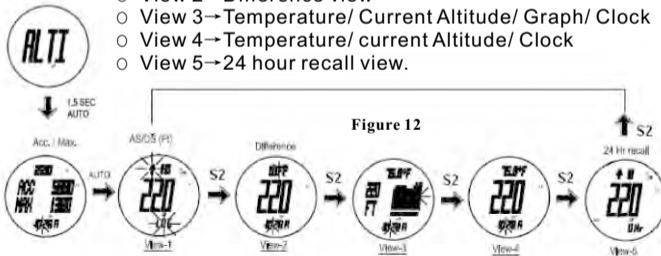
- While in View 1, view 2, or view 3 of the Barometer mode, press and hold S4. The watch will display HOLD.
- Continue holding S4 until the weather icon flashes.
- Press S1 or S2 to change the weather icon corresponding to the current weather condition of the surrounding.
- Press S3 to set the Sea level Barometric pressure. The digits will start to flash.

- Press S1 or S2 to change the values.
- Press S4 to exit calibration mode. The watch will also auto exit calibration mode if there is no button operation for 2-3 minutes.

Altimeter Mode

- Press S3 from Barometer mode to enter Altimeter mode. The watch will momentarily display ALTI and then display the current altitude, accumulated altitude, maximum altitude, and Time. The display will then change to view 1.
- Altimeter mode has 5 views available. Press S2 to change views. Following are the views when you press S2:

- View 1 → Ascending/ Descending view
- View 2 → Difference view
- View 3 → Temperature/ Current Altitude/ Graph/ Clock
- View 4 → Temperature/ current Altitude/ Clock
- View 5 → 24 hour recall view.



Recording an Altimeter Log:

- You can record an altimeter log in view 1 and view 2.
- Maximum of 20 logs can be recorded in memory. Your saved data can be viewed in LOG DATA mode.
- While in view 1 or view 2, press and hold S1 to start the log. The watch will display LOG 1 START and then display the following depending which view you have started the log:
 - View 1 Ascending or descending rate/ Ascending/ Descending/ current Altitude
 - View 2 Ascending or descending rate/ Current Altitude/ DIFF
- Press and hold S1 to stop. The watch will display LOG 1 STOP and then go back to view 1 or view 2.

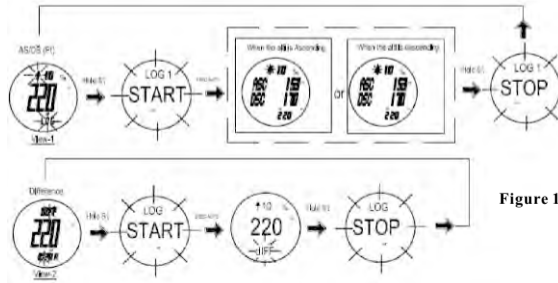


Figure 13

How to change the Altitude unit:

- You can change the temperature unit from Feet to Meter or vice versa.
- Go to **View 3** or **View 4** of Altimeter mode.
- Press and hold S1. Notice the unit icon will change and start to flash.
- Continue holding S1 until the unit stops flashing.

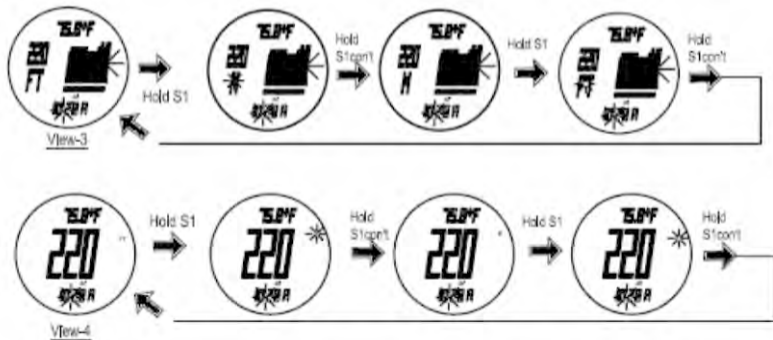


Figure 14

24 hour recall view:

You can view the previous 24 hours record of Altitude and the ascending or descending rate of that selected hour in the past.

Line 1 will display the Ascending or descending rate of the hour.

Line 2 displays the altitude of the hour.

Line 3 displays the previous time. 0 Hr means the current data, -1 Hr means the data of the previous hour, and -2 Hr means the data 2 hours ago, and so on.

Press S1 to scroll through the various data.

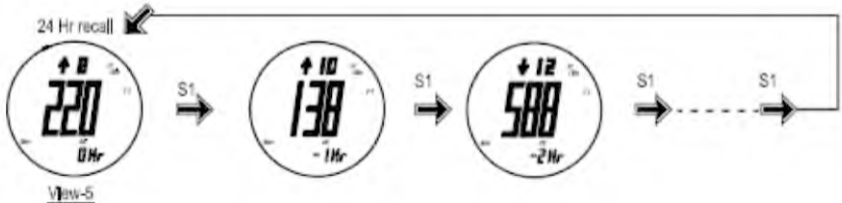


Figure 15

Altimeter Calibration mode:

- Regular calibration of the watch is important to maintain the accuracy of the Readings.
- While in altimeter mode, press and hold S4 and the watch displays SET HOLD

Continue holding S4 until the watch displays the Current altitude. The word CURRENT will be flashing.

Press S1 or S2 to select which parameter to set. Following is the sequence of setting when you press S1:

Current Altitude→ Local 1→ Local 2→ Local 3→ Max Altitude→ Accumulated→ Altitude Altitude Alarm→back to Current Altitude

The sequence will be in reverse if you press S2.

Press S3 to set the selected parameter. The digits will start to flash

Press S1/ S2 to change the value of the flashing digit

Press S3 to select another parameter to set.

Press S4 to exit setting mode. The watch will auto exit setting mode if there is no button operation for 2-3 minutes.

The watch has 3 preset Altitude value Local 1, Local 2, and Local 3. Each can be set by the user to his desired value which saved into the watch memory. The user can select among the preset values (Local 1, 2, 3) to replace the current value. This done by going to the preset value for example Local 1 and then press S4 to save the selection. The next time you enter Alti setting mode the Current value will be replaced by the value of Local 1.

Accumulated altitude and Max altitude cannot be set but will be reset to zero when you press S3 and then S1 or S2.

The last field in the Alti setting mode is the Alti Alarm. To turn on the alarm press S3 and then press either S1 or S2. Press S3 again to set the altitude value at which the alarm will sound. To increase the value press S1. To decrease the value press S2.

Then press S3 to go back to field selection. To exit and save modified settings press S4.

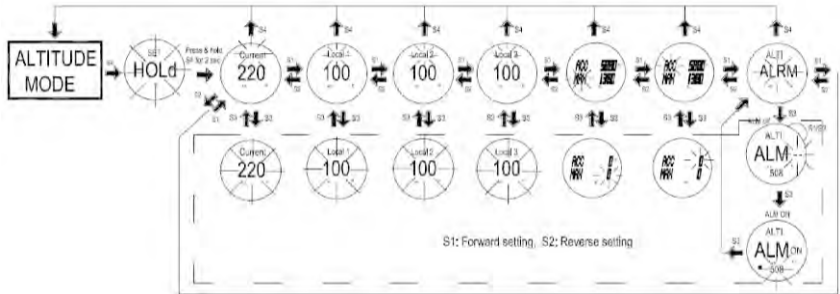


Figure 16

Automatic switching between Barometer mode and Altimeter mode:

The watch will automatically switch from Altimeter mode to barometer mode if there is no significant changes in altitude for 30 minutes. The weather icon will appear signifying that that watch has switched to barometer Mode. The current altitude value will be saved in memory.

While in Barometer mode and the air pressure changes significantly in a short period of time, the watch will automatically switch to Altimeter mode. The weather icon will disappear.

Log Data Mode

In this mode you can view your saved altimeter data. The watch has a maximum capacity of 20 Logs.

Press S3 from Altimeter mode to enter LOG DATA mode. The watch will momentarily display LOG DATA and then display the latest log File.

Press S1 to view the other log data files.

Press S2 to view the details of a selected log file. Each log contains your total ascend altitude and descend altitude, average descend rate and ascend rate, number of Hills (this vertical movement ascend and descend equal to a 150 ft/50 m or more) and total time of log book.

Press S1 to go back to log book selection.

How to delete a log file:

To clear a selected Log data press and hold S4 until the watch display CLEAR HOLD.

Release S4 after 2 seconds and the selected file is already deleted. The watch will then display the next log file.

To clear all logs continue to hold S4 and the watch will display CLEAR ALL HOLD.

Ski Mode

Press S3 from Log Data mode to enter SKI mode. The watch will momentarily display SKI and then display the reset view.

The reset view shows the following:

- 10 seconds Countdown Timer
- Current altitude
- Base Altitude
- Clock

This mode allows you to time your ski run accurately. Base Altitude must be set first before you will be able to use this feature.

Setting your Base Altitude:

Base altitude is the altitude of the finish line of your Ski run. There are 2 ways of setting your base altitude.

1. Using your current altitude at the finish line as your base altitude.

- While in SKI mode and you being in the finish line location, press and hold S2. The watch will display STORE ALTI.
- Continue holding S2 until the watch displays STORED ALTI.
- Release S2 and the watch returns to reset view.
- The watch is now ready to start but you still need to go up to your starting point considering you are setting at the finish line location.

2. Manually setting the Base Altitude:

- While in the reset view of the Ski mode, press and hold S4. The watch will display SET HOLD.
- Continue holding S4 until the watch displays the Base Altitude. The digits are now flashing.
- Press S1 or S2 to change the value of the Base Altitude.
- Press S4 to exit setting mode and the watch returns to reset view. The watch will also auto exit setting mode if there is no button activity for 2-3 minutes.
- The watch is now ready for the Ski run.

Performing the SKI run:

While in Ski mode reset view, press S1 to start. The 10 seconds timer will start to countdown. At the same time, the watch will check your current altitude.

If your current Altitude is less than the base altitude + 35 feet, The Ski mode will not run and the watch will return to reset view.

If your current Altitude is more than the base altitude + 35 feet, The Ski mode will start counting up until you reach the base altitude.

The watch will auto stop at the base altitude giving you the exact time of your Ski run. Press S4 to reset the timer.

Chrono Mode

- Press S3 from SKI mode to enter Chronograph mode. The watch will momentarily display CHRON and then the reset view.
- Press S1 to start the chronograph. To take a lap press S1 while the timer is running. Once you have exceeded the maximum capacity of laps the watch will display full.
- Press S2 to stop the chrono timer.
- To view your time per lap, best lap and average lap press S4.
- The Chrono mode of the watch has the capability to take a maximum of 50 laps and a maximum time of 24 hours. After the timer has been stopped, you can view your time per lap, the watch will also tell you your best lap together with the time of that lap, and also the average lap will also be provided.
- To reset the timer press and hold S2 until the watch displays a zero chrono timer.

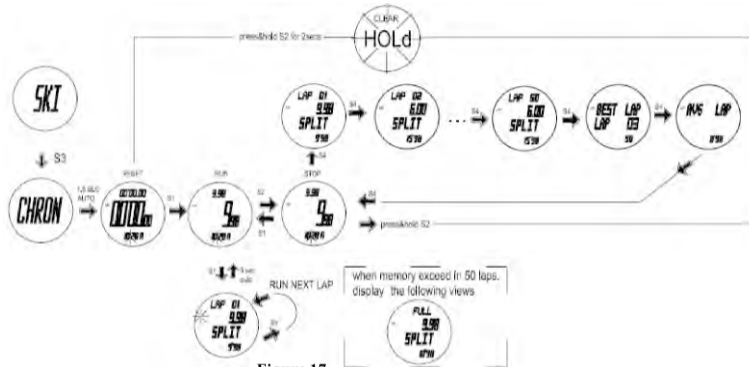


Figure 17

Sail Mode

- Press S3 from Chronograph mode to SAIL mode. The watch will momentarily display SAIL and then display the reset view.
- Sail timer is a chrono timer combined with a countdown timer. This feature has a maximum capacity of 50 laps and a maximum time of 120 minutes. When the countdown timer has been activated you here audible signals as shown below:

Every full minute	short double beep
Every 10secs during the last min.	short double beep
Every second during the last 10sec	short single beep
At completion of countdown timer	long single beep

The countdown timer set with the preset values ranging from 1 min to 120 min.

To select the length of the countdown timer press S2 while the timer hasn't started yet. You can select from 1 to 120 minutes. Preset values are 1 to 15, 15 to 55 at 5 minutes interval, and 60 to 120 minutes at 10 minutes interval.

You can also view the information of your previous race by pressing S4 before the timer has been started and then press S1 to scroll down the time per lap or S2 to scroll up.

Please take note that only one race data can be stored in the memory so once the timer has been restarted the previous data will be erased.

To start the sail timer press S1. After the countdown timer has started you stop it by pressing S1 and reset it by pressing S2.

Once the countdown timer reaches 0, the count up timer or chrono timer will be activated. So once the countdown timer reaches 0 it is time to start the race.

To take a split press S2 while count up or chrono timer is running.

To stop the count up timer press S1. To reset the timer press S2.

Alarm Mode

Press S3 from SAIL mode to enter ALARM mode. The watch will momentarily display ALARM and then display Alarm 1

The watch is equipped with a dual alarm which can be individually set. You can turn on or off an alarm and chime in this mode.

To select an alarm or chime press S2.

Turn on the selected alarm or chime press S1.

To set a selected alarm press and hold S4 until the watch display SET HOLD and then the hour digit starts flashing.

To adjust the digit, press S1 to advance or press S2 to decrease the value.

Press S3 to set the minutes digits.

Press S4 to save and exit alarm setting mode. The watch will also auto exit setting mode if there is no button operation for 2-3 minutes.

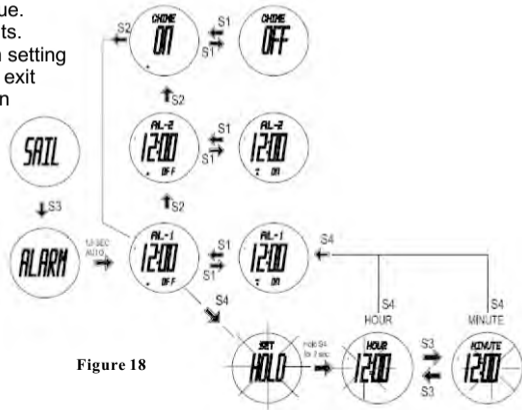


Figure 18

Specifications

Altimeter Mode

- Resolution: 1 m (1 ft)
- Measuring range: -706m to 9164m (-2316ft to 30065ft)
- Altitude with graphical trend.
- Vertical speed (ascent and descent rate); average, and max.
- Altitude difference between the reference point.
- Altitude alarm.
- Cumulative Ascent and Descent.
- Max. Altitude is recorded.
- 20 Logbook memories

Barometer Mode

- Resolution: 1 mbar/hPa (0.1 inHg)
- Measuring range: 300mbar \approx 1100mbar (8.9 inHg \approx 32.4 inHg)
- Sea level pressure.

Absolute barometric pressure

- Graphical trend display for sea level pressure
- Barometric pressure drops alarm
- 24 hours sea level pressure recall

Weather Forecast

- 4 symbols to indicate the predicted weather

Thermometer

- Resolution: 0.1 °C (0.1 °F)
- Measuring range: -10.0 °C to 60.0 °C (-14 °F to 140.0 °F)

Compass Mode

- Resolution: 1 display (digital)
- Measuring range: 0 to 359
- Electronic compass with 16 cardinal indicators
- Graphical direction bearing indicator
- Declination setting for true north

Ski Mode

- 1 press to record the base altitude
- Auto ski time & speed measurement from start point to base altitude

Sail Timer

- Adjustable count down period from 1 min to 120min.
- Audible warning signal.
- Auto sailing timer up to 120 hours
- 50 waypoint memory

Current Time Mode

- Hour, minute, second, month, date and day of week
- 12-hour or 24-hour format
- Auto-Calendar pre-programmed from the year 2006 to 2055

Chronograph Mode

- Resolution: 1/100 second in first one hour, 1 second after one hour
- Measuring Range: 23 hours 59 minutes 59 seconds
- 50 lap memories

Others

- 2 daily alarms
- Hourly chime
- Electro-Luminescent (EL) backlight
- Single 3V lithium battery (CR2032)
- Water resistance: 50m