

summit/altitech²



ALTWARE
SERIES

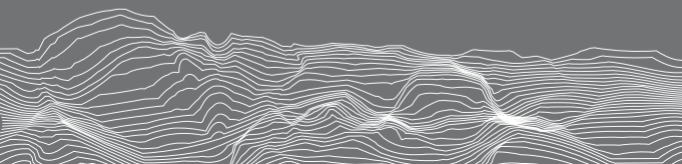


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Congratulations on your purchase of a **SUMMIT/ALTITECH2 OUTDOOR INSTRUMENT**. These products represent the state-of-the-art in recreational sensor instruments. We use only the finest Swiss sensors to create the most accurate and dependable products possible. The Summit/Altitech² features an altimeter/barometer/weather station along with a full selection of advanced watch and chronograph functions. Please keep in mind, the Summit/Altitech² is a sensitive technical instrument. With proper care and maintenance, it will last for many years of use. However improper care and handling can cause the various sensors to be damaged and to stop functioning. Please read all sections of this manual carefully and become fully familiar with the operation of the unit before using it in the field.

WARNING: Before starting any exercise program or performing any vigorous physical activity, we strongly suggest you visit your doctor for a complete physical and to discuss your plans.

CAUTION: Your instrument is designed to be water resistant to a static pressure of 3 ATM and can be worn while showering and light swimming. We recommend that extensive use of the unit in the water be avoided whenever possible as water could enter the unit through the altimeter sensor port and damage the unit. The unit should not be worn while snorkeling or scuba diving as these activities will damage the altimeter sensor.

CAUTION: Care should be taken not to press any keys while the unit is wet or submerged as this can force moisture past the key seals and damage the unit.

CAUTION: Exposure to strong magnetic fields will cause the compass unit to malfunction and may even permanently damage the compass sensor. Keep the unit away from magnetic sources.

WARNING: This product is NOT designed to be used as a PRIMARY altitude instrument for flying, skydiving, hang gliding or other sports where sudden major changes in altitude may occur or when there is a need for industrial precision.

Your **SUMMIT/ALTITECH2 OUTDOOR INSTRUMENT** should be protected from shocks, extreme heat and extended exposure to direct sunlight. You should only perform service procedures related to the changing of the battery as shown in this manual. **NEVER** attempt to disassemble or otherwise service your instrument. Store the unit in a clean, dry area at room temperature.

Clean your instrument using a moist cloth. Care should be taken when cleaning the lens not to rub dirt into the surface as it can become scratched and hard to read.

CHANGING WATCH BATTERY

The Summit/Altitech² uses a common **CR2032 3V** Lithium battery.

Normal battery life is approximately 1yr.

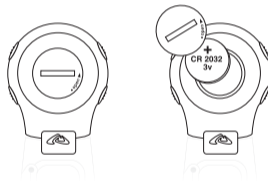
NOTE: Heavy use of the Altimeter, Compass or Backlight system may significantly reduce battery life.

NOTE: A blank display or inaccurate altimeter or compass readings are indications that the battery is getting weak and should be replaced.

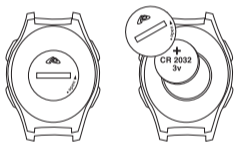
REPLACING THE INSTRUMENT BATTERY

1. Remove battery door using a coin.
2. Carefully remove the old battery. Do not damage the O-ring seal.
3. Place a fresh battery in the battery compartment with the positive (+) side facing up. Slide battery underneath the gold battery tab.
4. Replace battery door using a coin.
5. If the O-ring has been damaged, replace it before reinstalling the battery door. Most jewelers and watch shops should have replacement O-ring seals.

ALTITECH 2







SUMMIT



NOTE: Extreme care should be taken when replacing the battery to ensure the unit remains fully water resistant. Failure to properly replace the battery and correctly seal the unit may cause the unit to become damaged and may void the warranty.

THE DISPLAY ICONS

WEATHER ICONS

symbol	description	what it means
	RAINY	Barometric pressure very low or falling, raining or rain likely
	SUNNY	Barometric pressure high, weather fair
	CLOUDY	Barometric pressure low, rain possible but not likely
	PARTLY CLOUDY	Barometric pressure falling or rising, weather changeable

TIME ICONS

symbol	description	what it means
T1	TIME ZONE 1	Time Zone 1 on Display
T2	TIME ZONE 2	Time Zone 2 on Display
((●))	DAILY ALARM	Daily Alarm Active

THE DISPLAY ICONS

ALTIMETER ICONS

symbol	description	what it means
Ft	FEET	Current Altitude measured in feet
M	METERS	Current Altitude measured in meters

BAROMETER ICONS

symbol	description	what it means
mbar	MILLIBAR	Barometric pressure units
°F	DEGREES F	Fahrenheit temperature units
°C	DEGREES C	Centigrade temperature units

The Summit/Altitech² is equipped with 4 individual keys. Each key has several functions listed below.

S1 KEY

- Changes View in Time, Barometer, Altimeter, Altimeter Log and Chronograph Log modes
- Start/Stop information storage in Altimeter mode
- Advances variable in Setting mode
- Start/Lap/Split action in Chronograph mode
- Turns Daily Alarm On/Off

S2 KEY

- View/Select Time 1 / Time 2 in Time of Day mode
- View/Select C/F in Barometer mode
- View/Select Ft/M in Altimeter mode
- Scroll through Altitude Log files
- Stop Chronograph/Save Chronograph Files
- Scroll through Chronograph Log files
- Select Alarm 1 or 2

S3 KEY

- Advances display through the various operational modes
- Selects variable in setting mode

S4 KEY

- Enter/Exit Setting mode for each function
- Clear Chronograph and Altimeter memories,

**KEY ACTIONS – QUICK PRESS VS. PRESS AND HOLD**

There are two key actions used to program the watch:

QUICK PRESS

The key is pressed quickly and immediately released. This is the most common key action and is used for most aspects of the watches operation.

PRESS & HOLD

The key is pressed and held for 2-3 seconds. This key action is generally used to initiate a programming sequence or to change an on screen variable.

NOTE: Generally, when a **PRESS & HOLD** action is required, the word **HOLD** will appear on the center line of the display.

NOTE: In this manual we will indicate when a **PRESS & HOLD** is required. In most other instances, if not specifically stated, a **QUICK PRESS** should be assumed.

PROGRAMMING THE WATCH – COMMON KEY ACTIONS

The following are key presses required to perform the most common operations.

ENTER A PROGRAMMING SEQUENCE

PRESS & HOLD the **S4** key.

The words **ADJUST – HOLD** will appear in the top and center lines of the display. Continue to hold the key until the display automatically advances to the first variable in the programming sequence.

ADJUST VARIABLE IN A PROGRAMMING SEQUENCE

QUICK PRESS the **S1** & **S2** keys.

Variables in a programming sequence are adjusted up using **QUICK PRESSES** of the **S1** key and down using **QUICK PRESSES** of the **S2** key.

In most programming options, a **PRESS & HOLD** of either the **S1** or **S2** key will cause the variable to fast advance, allowing you to quickly advance to a different number.

Continued next page.

ADVANCE TO NEXT VARIABLE IN A PROGRAMMING SEQUENCE

QUICK PRESS the **S3** key.

When you have chosen the variable you want for a particular portion of a programming sequence

QUICK PRESS the **S3** key to set and advance to the next variable.

EXIT A PROGRAMMING SEQUENCE

QUICK PRESS the **S4** key.

Once all variables of a programming sequence have been entered to your satisfaction, **QUICK PRESS** the **S4** key to exit the programming sequence and return to the initial main display.

NOTE: As long as you press the **S3** key, you will continue to cycle through the variables for that sequence.

ACTIVATE THE DISPLAY BACKLIGHT SYSTEM-

QUICK PRESS the **S4** key.

The backlight will stay active for a period of approximately 5-seconds.

NOTE: Excessive use of the backlight system will result in shorter battery life.

MAIN DISPLAY MODES

Advance through the above modes using a **QUICK PRESS** of the **S3** key. Upon entering a mode, the name of the mode will be displayed on screen for a period of 1.5 seconds before advancing automatically to the modes primary screen.



TIME



COMPASS

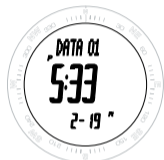


BAROMETER



ALTIMETER

MAIN DISPLAY MODES (continued)



ALTIMETER LOG



CHRONOGRAPH



CHRONOGRAPH DATA



ALARM

VIEW TIME 1 / TIME 2

The Summit/Altitech² is equipped with a full feature watch package including Time of Day, Day/Date/Day of Week, Two Time Zones and Two Daily Alarms.

The Time Zone being displayed is indicated by a small T1/T2 in the upper left corner of the display.

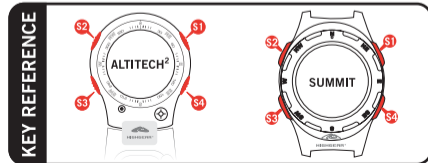


VIEW / CHANGE TIME ZONE

PRESS & HOLD the **S2** key.

SETTING THE TIME OF DAY

1. Start in **TIME** Mode.
2. Select **TIME 1** or **TIME 2** using the **S2** key.
3. **PRESS & HOLD** the **S4** to enter the setting sequence.
4. Adjust **HOUR, MINUTES, SECONDS, YEAR, MONTH, DATE, 12/24 HOUR** mode using the **S1** and **S2** keys. The variable you are programming (Hours, Min, Sec, ect.) will be shown in the top line of the display.
5. Set and advance from variable to variable using a **QUICK PRESS** of the **S3** key.
6. Exit setting sequence using the **S4** key.
7. Select alternate time and repeat the above procedure.



KEY REFERENCE

SECONDARY TIME SCREENS

There are 3 secondary time display options accessed by **QUICK PRESSES** of the **S1** key.

**SCREEN 1**

Top Line: **DAY AND DATE**
Center Line: **TIME OF DAY**
Bottom Line: **TEMPERATURE**

**SCREEN 2**

Top Line: **GRAPH OF BAROMETRIC PRESSURE FOR THE PAST 24HOURS**
Center Line: **TIME OF DAY**
Bottom Line: **SEA LEVEL BAROMETRIC PRESSURE**

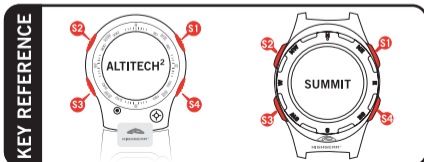
SECONDARY TIME SCREENS (continued)

**SCREEN 3**

Top Line: **GRAPH OF BAROMETRIC PRESSURE FOR THE PAST 24HOURS**
Center Line: **TIME OF DAY**
Bottom Line: **TEMPERATURE**

NOTE: All three screens also have an icon in the upper right hand corner showing a visual representation of the weather forecast.

NOTE: The temperature sensor measures the temperature of the unit. If worn on your wrist or exposed to direct sunlight, the sensor may read artificially high. For accurate temperature readings, remove the instrument from your body and place in a shaded area for 10-15 minutes.



KEY REFERENCE

The Summit/Altitech² are equipped with a highly accurate digital magnetic compass with a resolution of one degree. The compass can be adjusted to compensate for the magnetic declination corresponding to the area where the compass is being used.

COMPASS SCREEN

There is only one screen display available in the **COMPASS** mode. The display shows the **CURRENT HEADING IN DEGREES** in the center line and the bearing in half cardinal points in the top line. Opposite to one another on the display you will see a single segment and three segments activated. The single segment indicates **NORTH** and the center of the three segments indicates **SOUTH**.



CALIBRATING THE COMPASS

The compass of the Summit/Altitech² must be calibrated on a regular basis. The compass should be calibrated any time it does not seem to be working properly. We recommend calibrating the compass prior to any activity where optimal accuracy is desired, such as a long back country trip. The watch must also be calibrated to your local altitude prior to your initial use.

1. Start in **COMPASS** mode.
2. **PRESS & HOLD** the **S4** key to enter the calibration sequence.
3. **CAL** will appear in the center line of the display.
4. Rotate the unit clockwise for 3 complete rotations of approximately 10-seconds per rotation.
5. To exit the calibration sequence at this point using the **S1** key. Or advance to setting the magnetic declination using the **S4** key.

NOTE: For the optimum accuracy, the compass must be held completely level during the calibration process. We recommend placing the unit on top of a drinking glass while performing the calibration as this will make it easier to keep the compass level.

CALIBRATING THE COMPASS (continued)

6. If the calibration is successful the display will show **CAL** in the center line and **END** in the upper line and automatically advance to the compass display.
7. If the calibration was unsuccessful an **ERR** message will appear in the upper line of the display and you will need to repeat the calibration sequence.
8. If you have chosen to set a magnetic declination, adjust the degrees and direction using the **S1** and **S2** keys. Set and advance from variable to variable using a the **S3** key.
9. If you do not know the magnetic declination for your area, leave this setting at **ZERO**.
10. When you have completely entered the magnetic declination you desire, exit the calibration sequence using the **S4** key.



MAGNETIC DECLINATION

A magnetic compass points to the earth's magnetic north pole. Depending on your location, this may be different from True North. Adjusting the magnetic declination allows you to compensate for this variation. Magnetic declination for an area can be found on topographical maps. Declination can change over time and distance. Make sure the source for your declination settings is up to date. The following websites are good sources for finding local magnetic declination.

http://www.gsc.nrcan.gc.ca/geomag/field/mdcalc_e.php

<http://www.ngdc.noaa.gov/seg/geomag/jsp/Declination.jsp>

REACTIVATING COMPASS

To save power, the compass feature of the Summit/Altitech² only remains active for a period of 10 seconds. To reactivate the compass display, **QUICK PRESS** the **S1** key.

BAROMETER

The Summit/Altitech² are equipped with a highly sensitive barometer/weather station. The barometer measures the local Barometric Pressure and calculates the Barometric Pressure corrected to Mean Sea Level (MSL). Barometric pressure is displayed in Millibar/HectoPascals (mbar/hpa).

PROGRAMMING STEPS

1. Start in **BAROMETER** mode.
2. **PRESS & HOLD** the **S4** key to enter setting the sequence. The variable you are adjusting will appear in the top line of the display as a scrolling message.
3. Adjust current weather using the **S1** and **S2** keys.
NOTE: There are four different icons for weather. **SUNNY**, **PARTLY CLOUDY**, **CLOUDY** and **RAIN**. Choose the icon which most closely matches the weather at the present. The icon will change to indicate an estimate of what the weather will be like for the next 6-hours.
4. Advance to setting the barometric pressure using the **S3** key.
NOTE: The local barometric pressure Corrected to Mean Sea Level (CMSL) may be adjusted if desired to achieve the highest levels of accuracy.
CAUTION: Do not randomly adjust the barometric pressure setting of the watch. Inaccurate setting of the barometric pressure may result in inaccurate altimeter and weather readings.
5. Adjust the **SEA LEVEL BAROMETRIC PRESSURE** using the **S1** and **S2** keys.
6. Set and advance from variable to variable using the **S3** key.
7. Exit the barometer setting sequence using the **S4** key.



BAROMETER

SECONDARY BAROMETER SCREENS

There are 3 secondary **BAROMETER** display options accessed by **QUICK PRESSES** of the **S1** key.



SCREEN 1

Top Line: **GRAPH OF BAROMETRIC PRESSURE FOR THE PAST 24-HOURS**
Center Line: **BAROMETRIC PRESSURE MSL**
Bottom Line: **LOCAL UNADJUSTED BAROMETRIC PRESSURE**



SCREEN 2

Top Line: **GRAPH OF BAROMETRIC PRESSURE FOR THE PAST 24-HOURS**
Center Line: **BAROMETRIC PRESSURE MSL**
Bottom Line: **TIME OF DAY**



SCREEN 3

Top Line: **GRAPH OF BAROMETRIC PRESSURE FOR THE PAST 24-HOURS**
Center Line: **BAROMETRIC PRESSURE MSL**
Bottom Line: **TEMPERATURE**

BAROMETRIC PRESSURE GRAPH

The top line of the **BAROMETER** screens, as well as two of the **TIME OF DAY** screens, shows a **GRAPH OF BAROMETRIC PRESSURE CHANGES** over the past 24-hours. The Graph updates once every hour and only indicates changes relative to the previous measurement.



CHANGE TEMPERATURE UNITS

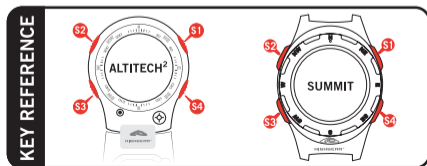
While the unit is in **BAROMETER SCREEN** showing temperature, you can view and change the **TEMPERATURE DISPLAY UNITS** between degrees **FAHRENHEIT** and **CELSIUS** using a **PRESS & HOLD** of the **S2** key. Continue to hold the key until the temperature units icon stops flashing.

NOTE: The **TEMPERATURE** units chosen while in the **BAROMETER** mode will be the units displayed in the **TIME OF DAY** mode.



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ALTIMETER

Because the **ALTIMETER** system in the Summit/Altitech² relies on barometric pressure for its measurements, it is critical that you regularly calibrate the unit to a known altitude. For maximum accuracy, daily calibration is a must. If you are using the unit during times of changeable weather, the unit may need to be calibrated more often. Generally, the small pressure changes experienced during a day of use will have only a minor effect on the accuracy of the unit, however, the arrival or departure of a weather front can change the current weather display by several hundred feet or more.

The **ALTIMETER** has one display screen. When you enter the altimeter the **TOP LINE** will scroll, showing you your **MAXIMUM AND ACCUMULATED** altitude since the last time they were reset. After the scroll has completed, the **TOP LINE** shows you a graphic indication of altitude changes over time. The **CENTER LINE** of the display shows your current elevation and the **BOTTOM LINE** shows the **TIME OF DAY**.

SET ALTIMETER

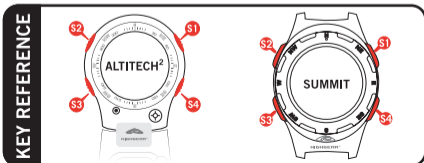
1. Start in **ALTIMETER** mode.
2. **PRESS & HOLD** the **S4** key to enter the setting sequence.
3. The **CURRENT ALTITUDE** will appear flashing in the center line of the display.
4. Adjust the **CURRENT ALTITUDE** up and down using the **S1** and **S2** keys.



ALTIMETER

SET ALTIMETER (continued)

5. Set the **CURRENT ALTITUDE** and advance to the **ALTITUDE MEMORY** displays using the **S3** key.
6. There are two altitude memory displays showing the Maximum Altitude and Accumulated Ascent since the last time the memory was cleared. Clear each memory using the **S1** or **S2** key and advance from the **MAXIMUM** to the **ACCUMULATED** memories using the **S3** key.
7. Exit the **ALTIMETER CALIBRATION** sequence using a **QUICK PRESS** of the **S4** key.



CHANGE ALTITUDE UNITS

Change the display units for altitude between Feet and Meters using a **PRESS & HOLD** of the **S2** key. Continue to hold the key until the altitude units icon stops flashing.

MAX/ACC SCROLLING MESSAGE

When you enter the **ALTIMETER** mode, the top line of the display will show you your **MAXIMUM** and **ACCUMULATED ALTITUDE** since the last time you cleared the memories.

NOTE: To skip the scrolling message, **QUICK PRESS** the **S1**, **S2** or **S4** keys.

NOTE: To see **MAXIMUM** and **ACCUMULATED ALTITUDES** during use, **QUICK PRESS** the **S1** key. To **CLEAR** the **MAXIMUM AND ACCUMULATED MEMORIES**, see Set Altimeter section.

ALTITUDE LOCK

If the altitude does not change significantly for a period of 30-minutes the Summit/Altittech² will automatically activate the **ALTITUDE LOCK** function. **ALTITUDE LOCK** is indicated by the weather icons appearing on the altimeter display. When the unit enters the Altitude Lock mode, the altitude at that time is locked in memory and will not change in response to gradual external barometric pressure changes. You can unlock the Altitude Lock function at any time simply by pressing any key. The Altitude Lock function will automatically deactivate if it detects any major change in pressure/altitude over a short period of time.



The Summit/Altittech² is equipped with an Altitude Data Point memory system. This system allows you to capture to memory the altitude of a particular location along with the date and time of the capture. The Summit/Altittech² is capable of storing up to 20 individual Altitude Data Points.

STORING DATA POINTS

At any time in the Altitude display, **PRESS AND HOLD** the **S1** key for a period of approximately 3-seconds. During this time the top line of the display will show the word **STORE**, and **DATA** will flash in the middle line with the number of the Data Point appearing in the lower display line.

When the Data has been stored in memory, the top line will change from **STORE** to **STORED**. Release the **S1** key and the unit will return to the altitude display after approximately 2-seconds.

RETRIEVING DATA INFORMATION

Advance to the **ALTITUDE DATA** (Alti DATA) using **QUICK PRESSES** of the **S3** key. The top line of the display will show the file number, the middle and bottom lines will show the time and date the file was captured. Every 3 seconds the display will change to show the Altitude of the file in the middle line and Alti in the lower line. Use a **QUICK PRESS** of the **S1** or **S2** keys to move through multiple captured files. The number of the file will always be shown in the upper line of the display. The file system works on a First-In Last-Out system, where the newest files are the ones with the highest file numbers.



CLEARING DATA INFORMATION

To Clear the information in the Altitude Data memory, **PRESS & HOLD** the **S4** key. The display will show the word **HOLD** flashing in the center line of the display with the words **CLEAR – ALL** in the top and bottom lines respectively. Continue to hold the **S4** key until **DATA 01** appears in the top line along with 4-dashes in the middle line indicating all data has been cleared from memory.

The Summit/Altitech² features a sophisticated digital **CHRONOGRAPH** timing system capable of storing multiple timed workouts. The chronograph has a resolution of 0.01 seconds and displays both lap time and split time on screen simultaneously.

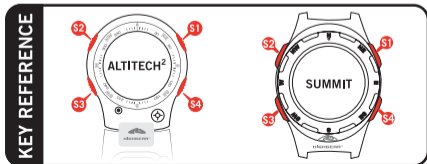
WHAT ARE LAPS AND SPLITS

The Summit/Altitech² displays both **LAP** and **SPLIT** times on screen. A **LAP** is a discrete period of time from when the **CHRONOGRAPH** has started (Lap 1) or since the end of a previous lap. A **SPLIT** is the cumulative total of all previous **LAPS**. Any time an individual lap is timed it also automatically generates a corresponding split.



OPERATING THE CHRONOGRAPH TIMING LAPS AND SPLITS

The Summit/Altitech² is capable of timing up to 100 **LAPS** and **SPLITS**. These can be stored in any combination in up to 30 individual Runs or workouts. While the **CHRONOGRAPH** is running, the top line will display the time of the current lap, the middle line will show the time for the current Split. When the timing of a Lap/Split is initiated the bottom line will show the number of the Lap/Split for approximately 5-seconds.



KEY REFERENCE

OPERATING THE CHRONOGRAPH (continued)

START TIMING

QUICK PRESS the **S1** key.

TIME A LAP/SPLIT

QUICK PRESS the **S1** key.

When the **S1** key is pressed the display will show the final lap and split time for the timed segment as well as the number of the **LAP** and **SPLIT** on the bottom line of the display. At the end of the 6-second period the display will show the time for the currently timing lap and split including the 6 seconds where the previous lap and split times.



STOP TIMING

QUICK PRESS the **S2** key.

This will stop the **CHRONOGRAPH** and show the final times for the last lap and split which was being timed. When timing has stopped, you then have two options.



OPTION 1 – STORE A RUN/WORKOUT

PRESS & HOLD the **S2** key.

OPTION 2 – CLEAR A RUN/WORKOUT PRIOR TO STORING

PRESS & HOLD the **S4** key.

When you store a Run/Workout using a **PRESS & HOLD** of the **S2** key it is captured by the **CHRONOGRAPH DATA LOG MEMORY**.

MANAGING THE CHRONOGRAPH DATA LOG

Runs are stored in the **LOG MEMORY** with the oldest runs first. The center line of the display will show the date the run was recorded and the top line will show the number 1-20 for the stored run.

REVIEWING RUNS

Move through the stored runs using the **S2** key. When you stop at a run, the screen will automatically scroll to the time for **LAP/SPLIT #1**.

REVIEWING LAP/SPLIT DATA FOR EACH RUN

Once you have selected the **RUN/WORKOUT**. Scroll through the stored data using the **S1** key. As you scroll through the data the display will show the following information:

1. **LAP** and **SPLIT** times for the recorded laps starting with **LAP 1**.
2. The top line will show the **LAP**.
3. The center line will show the time for the **SPLIT**.
4. The bottom line will show the number of the **LAP/SPLIT**.

After reviewing all **LAP/SPLIT** information the display will show the **BEST TIME OF ALL LAPS**.

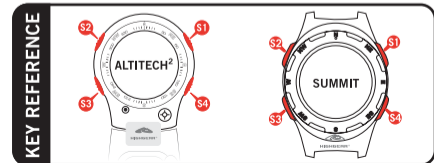
The final display will show the **AVERAGE TIME OF ALL LAPS** which were timed.



CLEARING LAPS AND RUNS

To **CLEAR** an individual **RUN/WORKOUT**, advance to the desired Run/Workout using the **S2** key. **PRESS & HOLD** the **S4** key. The display will show the **RUN** number in the top line of the display, **HOLD** flashing in the center line and **CLEAR** in the lower line. Continue holding the **S4** key until the message in the lower line changes **ALL**. **RELEASE** the **S4** key before the **ALL** indication stops flashing, or you will clear **ALL** the runs in memory.

To delete **ALL RUN/WORKOUT** files, continue to **PRESS & HOLD S4** key while the **ALL** message is displayed in the lower line. When files are cleared, **4 DASHES** will be displayed in the center line.



The Summit/Altitech² is equipped with two individual daily alarms which can be set to the hour and minute for either Time Zone 1 or Time Zone 2.

TURNING AN ALARM ON/OFF

1. Starting in **ALARM** mode.
2. The top line of the display will show either **AL1** or **AL2**, the center line will show the **CURRENT ALARM SETTING** and the lower line will indicate if the alarm is **ON** or **OFF**.
3. **TOGGLE** between **ON** and **OFF** using **QUICK PRESSES** of the **S1** key.



SELECTING ALARM 1 OR 2

TOGGLE between **ALARM 1** and **ALARM 2** shown in the top line of the display using the **S2** key.

SETTING THE DAILY ALARM

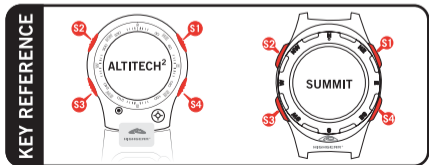
1. Choose the **TIME ZONE** you wish to program an alarm for in the **TIME OF DAY** screen.
2. Starting in **ALARM** mode.
3. **SELECT** the alarm you wish to program using the **S2** key.
4. **PRESS & HOLD** the **S4** key to enter the programming sequence.
5. **ADJUST** the **HOURS**, **MINUTES**, **TIME ZONE** and **CHIME** using the **S1** and **S2** key.
6. **SET** and **ADVANCE** from variable to variable using the **S3** key.
7. **EXIT SETTING SEQUENCE** using the **S4** key.

NOTE: The **CHIME** is a single beep each time a key is pressed and a single beep at the start of each hour. The **KEY PRESS CHIME** is useful if you are trying to operate the watch under circumstances where it is difficult to look at the watch to confirm that an action has taken place when a key is pressed.

RESETTING THE INSTRUMENT

To **RESET** the instrument back to its default values **PRESS** the **S1**, **S2**, **S3** and **S4** keys down at the same time. The display will light up showing all segments followed by a sequence of screens showing various numbers. The display will then automatically change to the **TIME OF DAY** screen at 12 o'clock on the first of January.

Resetting the instrument will clear any information stored in the instrument. This should be done only as a last resort.

**GENERAL**

Operational Temperature -10C to +50C/ 14F to 120F
 Water Resistance Altitech2 10 meters/Summit 30 meters
 Watch Battery CR 2032 3v Lithium

ALTIMETER

Range -703 to +9158m / -2305 to +30,045f
 Resolution 1m / 1f
 20 Memories with Date, Time and Altitude

THERMOMETER

Range -10 to +50C / +14 to +122F
 Resolution 0.1C/0.1F

COMPASS

Resolution of 1 degree
 Bearing direction in degrees and half-cardinal points

BAROMETER

Range 300 to 1100mbar
 Resolution 1mbar

CHRONOGRAPH

Range 24 hours
 Resolution 0.01 second for first hour; 1.0 second for hours 2-23

CHRONOGRAPH LOG

100 Laps/Splits
 30 Runs/Workouts showing Lap/split times, Best Lap/Split, Average Lap/Splits

The Summit/Altitech² is a very sensitive and sophisticated instrument. If properly cared for it should last and remain accurate for many years. However, from time to time problems may happen. It has been our experience that the majority of the problems seen by consumers with products such as these are related to dead or dying batteries.

While the estimated life of a fresh battery in the unit is approximately one year, this can be shortened considerably if the compass, altimeter or EL systems of the unit are used extensively. Whenever you are experiencing issues related to the function of the unit it is recommended that you install a fresh battery as a first course of action, especially if it has been more than a half a year since the last time the battery was replaced.

BE AWARE – Lithium batteries of the type used in this instrument are very susceptible to improper storage. Many times, batteries purchased as new are dead or weak before they are purchased. Do not assume that batteries in stores are good. If you try a new battery and problems persist, please try a second battery from another source, just to be certain. If the battery of the Summit/Altitech² is failing it may show itself in several ways.

Indications of a weak battery are:

1. A fading or blank display.
2. If the display goes blank when the EL system is operated and then comes back on when the EL system turns off.
3. Inaccurate readings from the Altimeter or Compass systems.

Because the compass is magnetic it may be affected by local sources of electromagnetic radiation (EMI). Avoid using the compass near appliances, in cars, near home security systems and other sources of EMI. If after several compass calibration attempts, you still see an ERR message- please demagnetize your compass. You can demagnetize your compass by holding your watch over a demagnetizing machine while in compass mode with "CAL" displayed. Most retail stores and libraries have demagnetizing machines for anti-theft purposes. An example of a demagnetizer is a machine that deactivates the magnetic security strip within a product.

The Summit/Altitech² is equipped with a display which allows it to be used in a wide variety of environments. However, if the unit is used in extreme cold (<32 F or 1c) the function of the display may be slower than normal. If exposed to extreme heat or cold, the display may also darken. The display should return to normal once the temperature returns to normal operating levels.



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ALTWARE
SERIES

