



ALTIS

ENGLISH

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INTRODUCTION

The ALTIS unit features an altimeter/barometer/weather station along with a full selection of advanced watch and chronograph functions. Please keep in mind, your watch is a sensitive technical instrument. With proper care and maintenance, it will last for many years. However, improper care and handling can cause the various sensors to be damaged and to stop functioning.

This manual is prepared in easy-to-read sections to familiarize you with setting and operating the watch's functions. Please read all sections of this manual carefully and become fully familiar with the operation of the watch before using it in the field.

Proper setup and operation will greatly enhance the watches usefulness and your enjoyment.

HOW TO USE THIS MANUAL

The manual is divided into sections outlining each of the major functions of the watch. A drawing of the watch screen that represents the starting point or other important screen for each operational process is shown adjacent to the instructions for the process; important keys are shown in color indicating **PRESS & HOLD** and **PRESS**.

The steps for the programming or operation are adjacent to the screen illustration. Key points and important information are shown in highlighted blocks.

WARNINGS AND CAUTIONS

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 watch is designed to be water resistant to a static pressure of 5 ATM and can be worn while showering and light swimming. However, 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 significant changes in altitude may occur or when there is a need for industrial precision.

WATCH FUNCTIONS

TIME

- Time/Day/Date/Month
- Dual Time Zone
- Dual Daily Alarm

COMPASS

- Digital Compass
- Adjustable Declination

ALTIMETER

- Digital Altimeter
- Working Range: -2296 ft to 29520 ft (-700m to 9000m)
- Rate of Ascent and Descent
- Altitude Alarm
- 20 Log Book Files with Log Date, Average ascent and descent, Total ascent and descent, number of laps and total time

BAROMETER

- Digital Barometer
- Sea Level Pressure and Absolute Pressure Display (mbar/hPa or inHg reading)
- 1 mbar (0.05 hPa) Resolution
- Working Range: 300 mbar to 1100 mbar (8.16 inHg to 32.48 inHg)
- Weather Forecast
- 24 Hour Graphic Pressure Trend Display

WATCH FUNCTIONS

THERMOMETER

- Digital Thermometer
- User option for Fahrenheit or Celsius
- Working range from 14 °F to 140°F (-10°C to 50°C)

SKI CHRONO

- Calculates descent time from starting point to base altitude
- Calculates Rate of Descent

CHRONOGRAPH

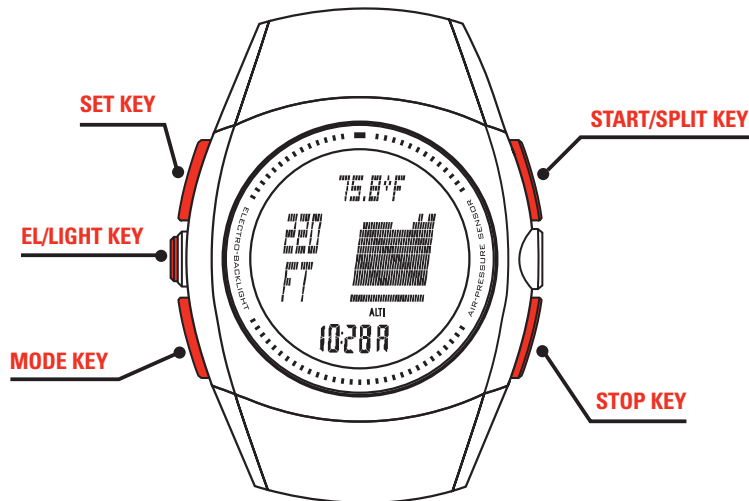
- 1/100 Second Resolution
- 24 hr / 50 Laps
- 20 Run file memory with Lap/Split, with Best and Average Lap Times

OTHER

- EL Backlight System
- Water Resistant 50m (165ft)
- User Replaceable Battery

KEYS AND THEIR FUNCTIONS

The ALTIS has 5 individual keys. Each key has several functions. The drawing identifies the keys and their names as used in this manual.



KEYS AND THEIR FUNCTIONS

MODE KEY

- Scrolls through the various operational modes
- Selects variable in Setting Sequence

EL/BACKLIGHT KEY

- Activates the EL/Backlight System

SET KEY

- Enter/Exit a Setting Sequence
- Delete Data Log File
- Scrolls through Chronograph data

START/SPLIT KEY





- Accesses Time Zone 1 or Time Zone 2
- Reactivate Compass Function
- Switches temperature units (°F or °C)
- Switches Barometric Pressure units (mbar/hpa or inHg)
- Activates Data Log
- Increases a variable in Setting Sequence
- Starts Lap Chronograph
- Activates Lap/Split in Chronograph mode
- Starts Ski Chronograph
- Turns Alarm On/Off
- Activates/Deactivates Chime

STOP KEY




- Scrolls through secondary modes
- Decreases variable in Setting Sequence
- Stops Chronograph
- Resets Chronograph

DISPLAY SYMBOLS AND THEIR MEANINGS

WEATHER ICONS




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

TIME ICONS

symbol	description	what it means
A	AM	A.M. time
P	PM	P.M. time
	DAILY ALARM	Daily Alarm is active
	KEY CHIME	Key Chime is active
	LOW BATTERY INDICATOR	Battery needs to be replaced

DISPLAY SYMBOLS AND THEIR MEANINGS

ALTIMETER ICONS

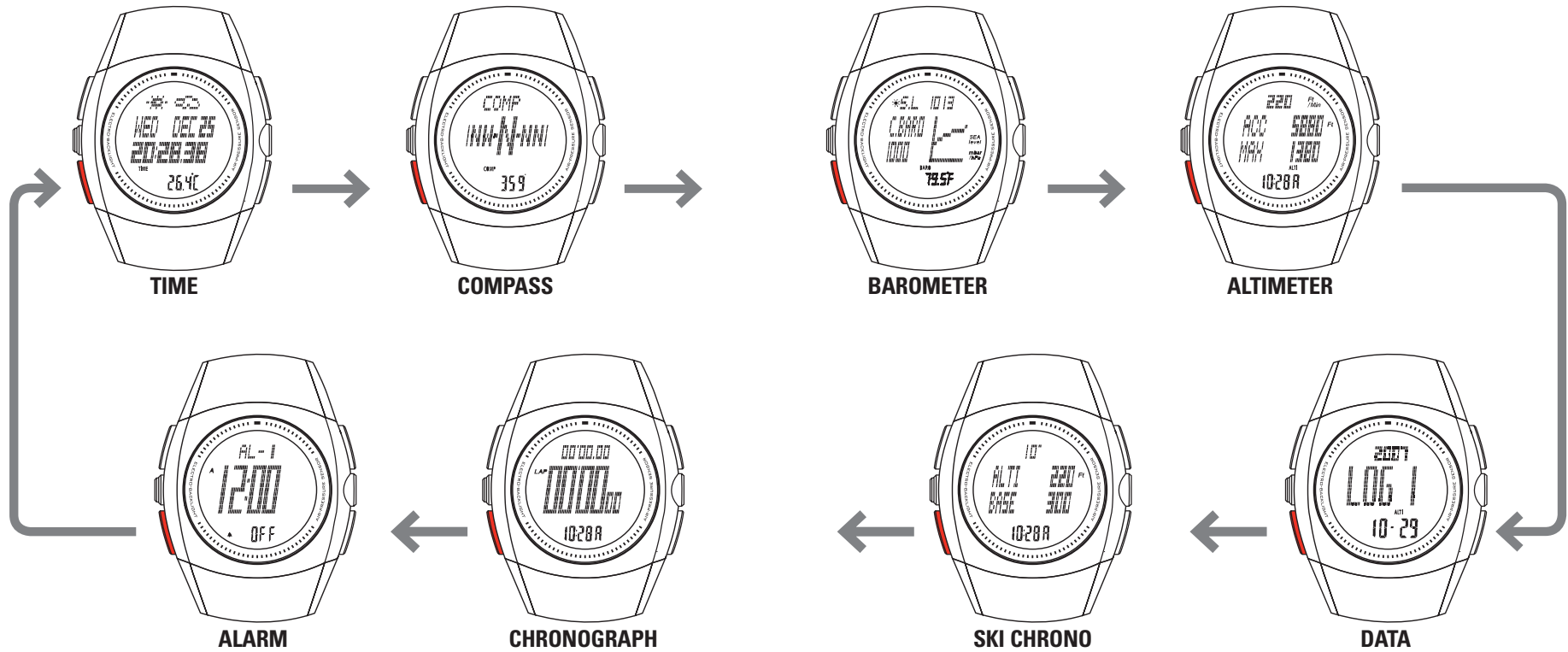
symbol	description	what it means
	ASCENDING ARROW	User is ascending
	DESCENDING ARROW	User is descending
$\frac{Ft}{Min}$	FEET PER MINUTE	Rate of ascent or descent in feet
$\frac{M}{Min}$	METERS PER MINUTE	Rate of ascent or descent in meters
	LOG BOOK RECORDING ICON	Log Book recording in progress
<i>Diff</i>	ALTITUDE DIFFERENTIAL READING	Altitude Differential Reading active when blinking

BAROMETER ICONS

symbol	description	what it means
<i>SEA level</i>	SEA LEVEL	Sea Level Barometric Pressure reading
<i>inHg</i>	INHG	Inches of Mercury barometric pressure units
$\frac{mbar}{hPa}$	MBAR	Millibar barometric pressure units
$^{\circ}C$	DEGREES C	Centigrade temperature units
$^{\circ}F$	DEGREES F	Fahrenheit temperature units
<i>Diff</i>	BAROMETER DIFFERENTIAL	Barometric Pressure Differential Reading active when blinking

MAIN DISPLAY MODES

The ALTIS has 8 main display modes. **ADVANCE THROUGH MAIN MODES** by **PRESSING** the **MODE** key.
SCROLL THROUGH SECONDARY MODES by **PRESSING** the **STOP** key.



MAIN DISPLAY MODES

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SETTING THE WATCH FUNCTIONS

SETTING TIME, DATE & DISPLAY UNITS

1. Advance to **TIME MODE** by **PRESSING** the **MODE** key.
2. Select **TIME ZONE 1** or **TIME ZONE 2** by **PRESSING & HOLDING** the **START/SPLIT** key.
3. **PRESS & HOLD** the **SET** key to enter the **SETTING SEQUENCE**.

NOTE: upper display will indicate display unit currently being set/adjusted. The display unit currently being set will flash. Start/Split key will increase variable being set and Stop key will decrease variable being set. Press & Hold keys to fast scroll.

4. **ADJUST HOUR** by **PRESSING** of the **START/SPLIT** or **STOP** keys.
5. Advance to **SET MINUTES** by **PRESSING** the **MODE** key. **ADJUST** by **PRESSING** the **START/SPLIT** or **STOP** keys.
6. Advance to **SET SECONDS** by **PRESSING** the **MODE** key. **ADJUST** by **PRESSING** the **START/SPLIT** or **STOP** keys.
7. Advance to **SET YEAR** by **PRESSING** the **MODE** key. **ADJUST** by **PRESSING** the **START/SPLIT** or **STOP** keys.
8. Advance to **SET MONTH** by **PRESSING** the **MODE** key. **ADJUST** by **PRESSING** the **START/SPLIT** or **STOP** keys.
9. Advance to **SET DAY** by **PRESSING** the **MODE** key. **ADJUST** by **PRESSING** the **START/SPLIT** or **STOP** keys.
10. Advance to **12** or **24-HOUR FORMAT** by **PRESSING** the **MODE** key. **ADJUST** by **PRESSING** the **START/SPLIT** or **STOP** keys.



SETTING THE WATCH FUNCTIONS

SETTING TIME, DATE & DISPLAY UNITS (continued)

11. Advance to **SET ALTIMETER UNITS** (feet or meters) by **PRESSING** the **MODE** key. **ADJUST** by **PRESSING** the **START/SPLIT** or **STOP** keys.
12. Advance to **SET BAROMETRIC PRESSURE UNITS** (INHG or MBAR) by **PRESSING** the **MODE** key. **ADJUST** by **PRESSING** the **START/SPLIT** or **STOP** keys.
13. Advance to **SET TEMPERATURE UNITS** (°F or °C) by **PRESSING** the **MODE** key. **ADJUST** by **PRESSING** the **START/SPLIT** or **STOP** keys.

NOTE: You may exit a Setting Sequence at any time by Pressing the Set key.

SETTING TIME ZONE 2

1. In **TIME MODE**, **PRESS & HOLD** the **START/SPLIT** key. Alternate Time Zone (T1 or T2) will blink in lower display line.
2. **PRESS & HOLD** the **SET** key to **ENTER** the **SETTING SEQUENCE**.
3. **ADJUST** Hour, Minutes, Seconds, Month, Day and Year.
4. **PRESS** the **SET** key to **EXIT** the **SETTING SEQUENCE**.

NOTE: display units (12/24 hr., Altimeter, Barometer, Temperature, etc.) are not independent of Time Zone selected.

SETTING THE WATCH FUNCTIONS

CALIBRATING THE COMPASS

The ALTIS is equipped with a highly accurate digital magnetic compass with reading in one-degree increments. The compass can be adjusted to compensate for magnetic declination corresponding to the area of use.

The compass 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.

In Compass Mode:

1. **PRESS & HOLD** the **SET** key to enter the **CALIBRATION SEQUENCE**. '**ROTATE CAL**' will appear in the display.
2. **ROTATE THE WATCH CLOCKWISE** for two complete rotations of approximately 15 seconds per rotation.

NOTE: For 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.

3. Advance to **SET DECLINATION** by **PRESSING** the **MODE** key (see "Magnetic Declination: next page).

NOTE: If you do not know the Magnetic Declination for your area, leave this setting at zero and exit the Calibration Sequence by Pressing the Set key.

4. **ADJUST** first digit (blinking digit) of declination setting by **PRESSING** the **START/SPLIT** or **STOP** key.
5. Advance to **SET** second digit of declination setting by **PRESSING** the **MODE** key. **ADJUST** by **PRESSING** the **START/SPLIT** or **STOP** keys.
6. **PRESS** the **SET** key to **EXIT THE CALIBRATION SEQUENCE**.



SETTING THE WATCH FUNCTIONS

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 web sites are good sources for finding local Magnetic Declination.

FOR U.S. DECLINATIONS:

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

FOR CANADIAN DECLINATIONS:

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

SETTING THE WATCH FUNCTIONS

SETTING BAROMETRIC PRESSURE

The ALTIS is equipped with a highly sensitive barometer/weather station. The barometer measures the Absolute Barometric Pressure and calculates the Barometric Pressure corrected to Mean Sea Level (MSL). Barometric pressure may be displayed in either Inches of Mercury (inHg) or Millibar/HectoPascals (mbar/hpa).

In Barometer Mode:

1. **PRESS & HOLD** the **SET** key.
2. **SET CURRENT WEATHER ICON** by **PRESSING** the **START/SPLIT** or **STOP** key.

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 time. The icon will change to indicate an estimate of what the weather will be like for the next 6-hours.

3. Advance to **SET BAROMETRIC PRESSURE** by **PRESSING** the **MODE** key.

NOTE: 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. If you are not certain of the proper use of this function, it is better to leave this variable at its factory setting. The Mean Sea Level barometric pressure may be adjusted if desired to achieve the highest levels of accuracy.

4. **ADJUST SEA LEVEL BAROMETRIC PRESSURE** by **PRESSING** the **START/SPLIT** or **STOP** key.
5. **PRESS** the **SET** key to **EXIT THE SETTING SEQUENCE**.



SETTING THE WATCH FUNCTIONS

SETTING ALTIMETER

Because the altimeter system in the ALTIS 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.

NOTE: In the Altimeter Setting Sequence, the variable to be adjusted will be indicated by a flashing display. Scroll through variables to be adjusted by Pressing the Start/Split or Stop key. Select variable for adjustment by Pressing the Mode key. Once the variable is set, Press the Mode key to return to the Altimeter main setting sequence. You may exit the Setting Sequence any time by Pressing the Set key.

The ALTIS is equipped with 6 Altimeter sub modes. Scroll through sub modes by pressing the Stop key. You may enter the Altimeter Setting Sequence from any sub mode except the TEMP/Altitude/TIME display. (See page 29 "Operating the Watch" for a detailed explanation of submodes.)

SETTING THE WATCH FUNCTIONS

SETTING ALTIMETER (continued)

The ALTIS is equipped with three altimeter Preset Locations. Preset Locations allow you to pre-program 3 known altitudes into the watch's memory. These presets allow you to easily compensate for altitude drift caused by changes in atmospheric pressure and are useful in the daily calibration process. If you know the exact altitude of a particular place (example: your home, a favorite trail head or the base of your favorite ski hill), you can preset your ALTIS to this location for quick calibration at that location. You can also adjust the current altitude of your watch independent of the Preset Locations.

In Altimeter Mode (any Altimeter screen except TEMP/Altitude/TIME):

1. **PRESS & HOLD** the **SET** key. Upper display line will flash name of selected location (**CURRENT ALTITUDE, LOCAL 1, LOCAL 2 OR LOCAL 3**).
2. **SCROLL** through locations by **PRESSING** the **START/SPLIT** or **STOP** Key.
3. When selected location is flashing in the upper display line, **PRESS** the **MODE** key to advance to set the Altitude of that location. The Altitude display field will flash.
4. **ADJUST** Altitude by **PRESSING** the **START/SPLIT** (to increase) or **STOP** (to decrease) key.

NOTE: Press & Hold the Start/Split or Stop keys to fast scroll altimeter setting.

5. Once Altitude is adjusted, **PRESS** the **MODE** key to return to Altimeter Setting Menu. Upper display line will flash. After all desired Altitude Locations have been adjusted, **PRESS** the **START/SPLIT** key to continue scrolling through Altimeter Settings.



SETTING THE WATCH FUNCTIONS

RESETTING MAXIMUM AND ACCUMULATIVE ALTITUDE

6. To **RESET MAXIMUM ALTITUDE**, **PRESS** the **MODE** key when **MAX** is flashing in display. Maximum Altitude field will flash. **PRESS START/SPLIT** or **STOP** key to reset.

NOTE: display will reset to 0 and assume current altitude reading when you return to operation mode.

To preserve Max Altitude reading, **PRESS** the **START/SPLIT** key to **RETURN TO ALTIMETER SETTING MENU**.

7. When **ACC** field is flashing, **PRESS** the **MODE** key to adjust. When the Accumulative Vertical field is flashing, **PRESS START/SPLIT** or **STOP** to **RESET**.

NOTE: To preserve ACC reading, this step may be bypassed by Pressing the Start/Split or Stop key when the ACC field is flashing and returning to the Altimeter setting menu.

(CONTINUED NEXT PAGE)



SETTING THE WATCH FUNCTIONS

ALTITUDE ALARM

The ALTIS is equipped with an audible Altitude Alarm that will sound when a pre-set altitude is crossed. This function may be turned **ON** and **OFF** from the Altimeter Setting Sequence.

- Advance to Altitude Alarm by **PRESSING** the **START/SPLIT** or **STOP** key. **ALRM** will flash in the center display line.
- PRESS** the **MODE** key set Altitude alarm. **ADJUST** Altitude Alarm **on (ON)** or **off (--)** by **PRESSING** the **START/SPLIT** or **STOP** key.
NOTE: Alarm must be activated (**ON**) to advance to next step.
- Advance to set designated altitude by **PRESSING** the **MODE** key. **ADJUST ALTITUDE** by **PRESSING** the **START/SPLIT** or **STOP** key.
NOTE: Press & Hold the Start/Split or Stop keys to fast scroll altimeter setting.
- Once Altitude is set, **PRESS** the **MODE** key to return to Altitude Alarm ON/OFF window. **ACTIVATE/DEACTIVATE ALARM** by **PRESSING** the **START/SPLIT** or **STOP** key.
- Return to Altimeter main **SETTING SEQUENCE** by **PRESSING** the **MODE** key.
- To **REVIEW ALTIMETER SETTINGS**, **PRESS START/SPLIT** or **STOP** keys. **PRESS SET** key to **EXIT THE SETTING SEQUENCE** and return to Operation Mode.



SETTING THE WATCH FUNCTIONS

CALIBRATING THE WATCH USING ALTIMETER PRESETS

In Altimeter Mode:

- PRESS & HOLD** the **SET** key.
- Scroll through Altimeter Presets (**CURRENT**, **LOCAL 1**, **LOCAL 2** & **LOCAL 3**) by **PRESSING** the **START/SPLIT** or **STOP** key.
- When desired Preset is flashing, **PRESS** the **SET** key. The unit will be automatically calibrated to corresponding Preset's altitude setting.
NOTE: if you are calibrating the unit to a known altitude not in the Preset menu, select Current and repeat steps 3 – 5 from "Setting Current Altitude and Altimeter Presets" on page 19.
- PRESS** the **SET** key to return to Operation Mode.



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SETTING THE WATCH FUNCTIONS

SETTING DAILY ALARM

The ALTIS is equipped with 2 individual daily alarms.

Setting Daily Alarms

1. In Alarm Mode, **SELECT ALARM 1 OR ALARM 2** (AL-1 or AL-2 in the upper display line) by **PRESSING** the **STOP** key.
2. **PRESS & HOLD** the **SET** key.
3. **ADJUST HOURS** by **PRESSING** the **START/SPLIT** or **STOP** key.
4. **PRESS** the **MODE** key to advance to set Minutes. **ADJUST MINUTES** by **PRESSING** the **START/SPLIT** or **STOP** key.
5. **PRESS** the **SET** key to **EXIT THE SETTING SEQUENCE**.



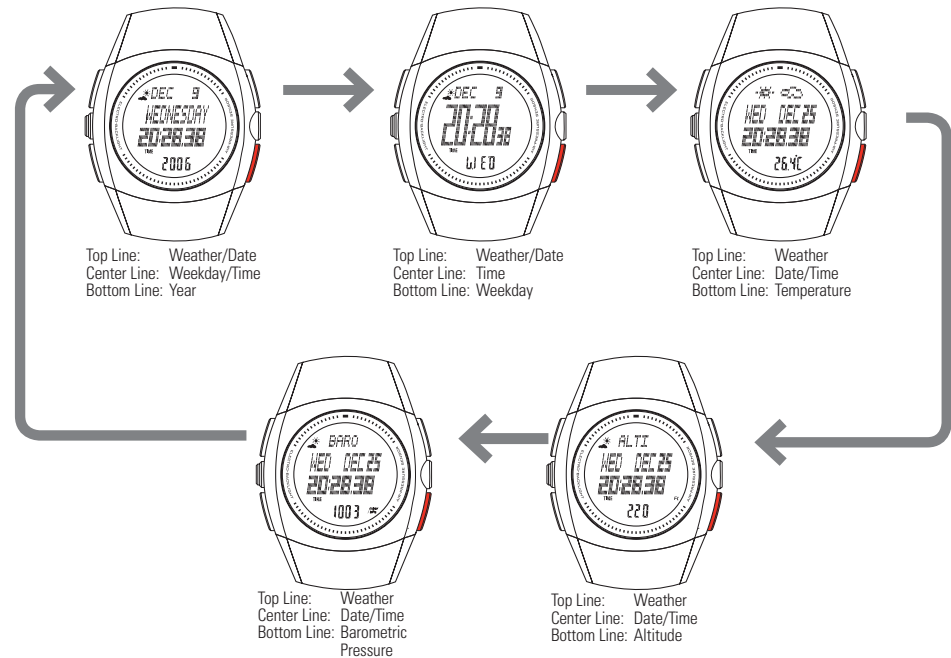
Turning Alarm ON or OFF

1. In Alarm Mode, **SELECT ALARM 1** or **ALARM 2** (AL-1 or AL-2 in the upper display line) by **PRESSING** the **STOP** key.
2. **TURN ALARM ON** or **OFF** (lower display line) by **PRESSING** the **START/SPLIT** key.
3. **PRESS** the **STOP** key to **SCROLL THROUGH OTHER ALARM SETTINGS**.
4. When CHIME is displayed in upper display line, **TURN THE KEY CHIME ON** or **OFF** by **PRESSING** the **START/SPLIT** key.

OPERATING THE WATCH

TIME MODE

The ALTIS is equipped with 5 different time display options. **SCROLL THROUGH DISPLAY OPTIONS** by **PRESSING** the **STOP** key.



VIEWING AND SELECTING TIME ZONES

To **VIEW/CHANGE TIME ZONE**, **PRESS & HOLD** the **START/SPLIT** key in any Time display mode.

OPERATING THE WATCH

COMPASS MODE

There is only one screen display available in the Compass mode. The current heading in quarter cardinal points is shown as a rotating scale across the center line and the bottom line displays the current heading in degrees.



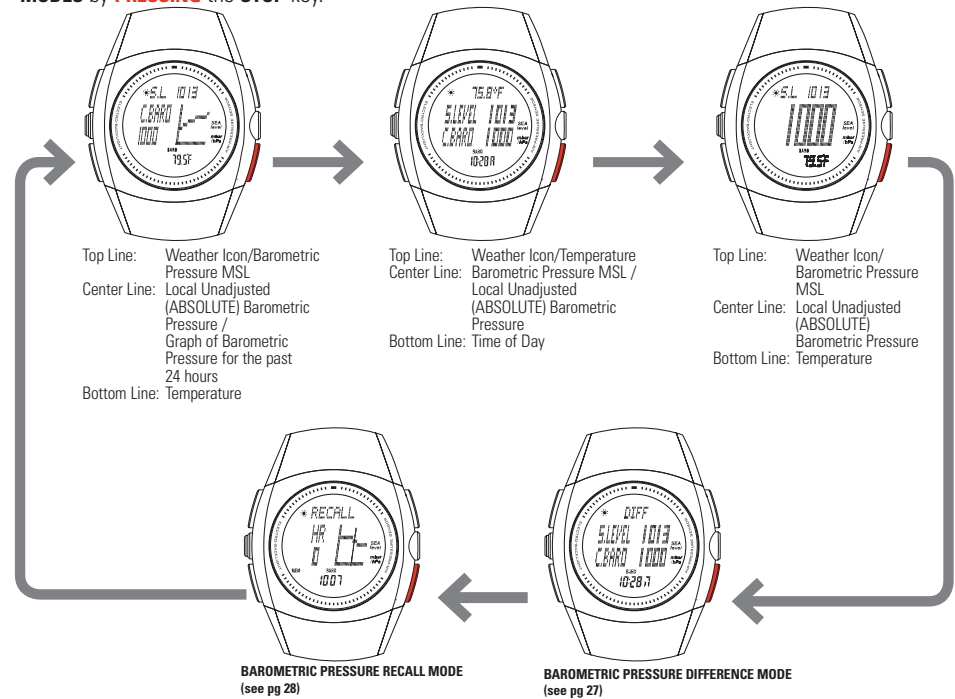
REACTIVATING COMPASS

To save power, the compass feature of the ALTIS unit remains active for a period of 30 seconds. To **REACTIVATE THE COMPASS** display, **PRESS** the **START/SPLIT** key.

OPERATING THE WATCH

BAROMETER MODE

The ALTIS is equipped with 5 Barometer display modes. **SCROLL THROUGH DISPLAY MODES** by **PRESSING** the **STOP** key.



NOTE: In displays 1, 2 and 3, you may change Barometric Pressure units (Inches of Mercury [INHG] or Millibar/HectoPascals [MBAR/HPA]) and Temperature display (°F or °C) by **PRESSING & HOLDING** the **START/SPLIT** key.

OPERATING THE WATCH

BAROMETRIC PRESSURE DIFFERENCE MODE

The ALTIS allows you to track changes in Barometric Pressure in real time.

When Barometric Pressure Difference is active:



Top Line: Weather Icon/Mode Indicator (DIFF)
Center Line: Change in Barometric Pressure MSL
Change in Local Unadjusted
(ABSOLUTE) Barometric Pressure
Bottom Line: Time of Day

To record change in Barometric Pressure:

1. In Barometric Pressure Difference Mode, **PRESS & HOLD** the **SET** key. The upper display line will read **SET DIFF**.
2. **PRESS** the **START/SPLIT** or **STOP** key so the Sea Level & Current Barometric Pressure readings (**S.LEVEL & C.BARO** in middle display line) are set to **0**.
3. **PRESS** the **SET** key to **BEGIN READING**.
4. To **TERMINATE A READING**, **PRESS & HOLD** the **SET** key.
5. To **ABORT** this function, **PRESS** the **START/SPLIT** or **STOP** key until the Sea Level & Current Barometric Pressure readings (**S.LEVEL & C.BARO** in middle display line) display actual pressure readings.
6. **PRESS** the **SET** key to **RETURN TO BAROMETRIC PRESSURE MODE**.

OPERATING THE WATCH

DISPLAY MODE 5 BAROMETRIC PRESSURE RECALL MODE

The ALTIS tracks barometric pressure changes over the past 24 hours and charts the trend in a scrolling graph.

PRESS the **START/SPLIT** key to **SCROLL THROUGH TIME READINGS**.

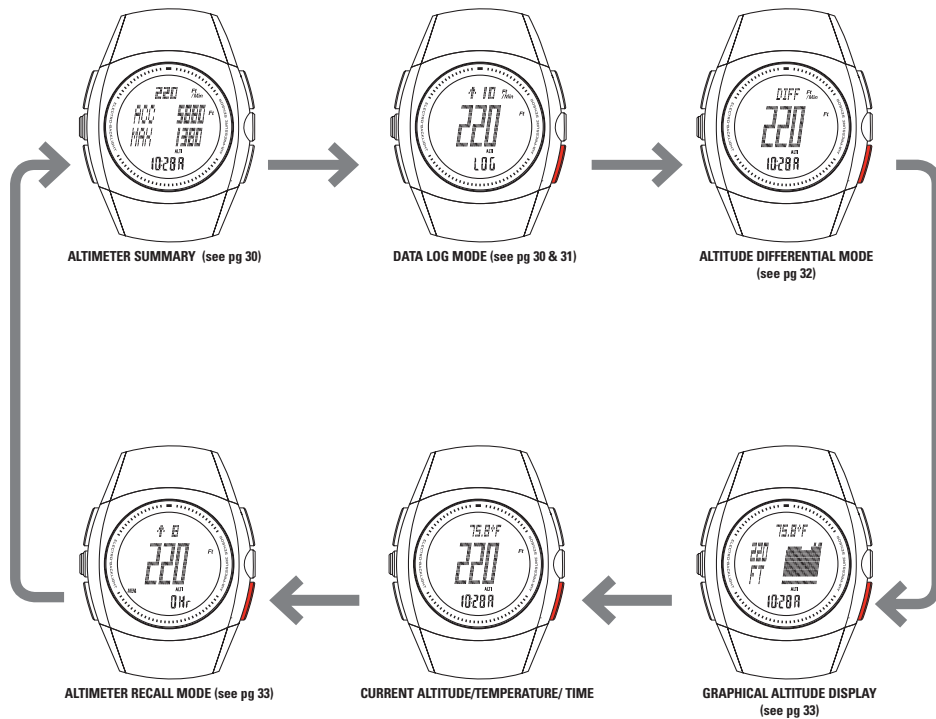


Top Line: Weather Icon/Mode Indicator (RECALL)
Center Line: Time line (from current) of Pressure reading /
Local Unadjusted (ABSOLUTE) Barometric Pressure
Graph of Barometric Pressure for the past 24 hours
Bottom Line: Barometric Pressure MSL at time of reading

OPERATING THE WATCH

ALTIMETER MODE

The ALTIS is equipped with 6 Altimeter display modes. **SCROLL THROUGH DISPLAY MODES** by **PRESSING** the **STOP** key.



OPERATING THE WATCH

ALTIMETER SUMMARY

Upon entering Altimeter Mode, the ALTIS will display an altimeter summary for approximately 2 seconds then revert to the Log Book function. (Values can be reset in the Altimeter Setting Sequence.)



Top Line: Current Altitude
Center Line: Accumulated Vertical (in Feet or Meters)
Maximum Altitude (in Feet or Meters)
Bottom Line: Time of Day

DATA LOG

The ALTIS records and stores up to 20 Altimeter Data Logs. Stored information includes date, total vertical ascent/descent, average rate of ascent/descent, and total time.

When Data Log is active:



Top Line: Current Rate of Ascent/Descent (in Ft/M per minute)
Center Line: Total Vertical Ascent
Total Vertical Descent
Bottom Line: Current Altitude

DATA LOG (continued)

To record a Data Log:

1. In the Data Log screen, **PRESS & HOLD** the **START/SPLIT** key.
2. The **DATA LOG NUMBER** will appear in upper display line. The center display line will flash **START**. **CONTINUE HOLDING** until the active Data Log window appears (approximately 2 sec.).



To stop recording and store a Data Log:

1. In the Data Log screen, **PRESS & HOLD** the **START/SPLIT** key.
2. The **DATA LOG NUMBER** will appear in upper display line. The center display line will flash **STOP**. **CONTINUE HOLDING** until the static Log Book window appears (approximately 2 sec.).
3. To view Data Log files, see **DATA RECALL** page 34.

ALTITUDE DIFFERENTIAL

The ALTIS allows you to track change in altitude from a set point and also tracks time from beginning of recording.

When Altitude Differential is active:



Top Line: Ascent/Descent indicator arrow/Current Rate of Ascent/Descent (in Ft/M per minute)
 Center Line: + or - change from base elevation
 Bottom Line: Elapsed time

To activate Altitude Differential function:

1. In Altitude Differential Mode, **PRESS & HOLD** the **SET** key.
2. **PRESS** the **START/SPLIT** or **STOP** key so the **ALTITUDE READING** (middle display line) is set to **0**.
3. **PRESS** the **SET** key to **BEGIN READING**.
4. To **TERMINATE A READING**, **PRESS & HOLD** the **SET** key.

NOTE: You may also **STOP** and **START A DATA LOG** recording in this mode by **PRESSING AND HOLDING** the **START/SPLIT** key.
5. To **ABORT** this function, **PRESS** the **START/SPLIT** or **STOP** key so the **ALTITUDE READING** (middle display line) displays current altitude.
6. **PRESS** the **SET** key to **RETURN TO BAROMETRIC PRESSURE MODE**.

OPERATING THE WATCH

GRAPHICAL ALTITUDE DISPLAY

The ALTIS tracks your Altitude over the previous 24 hours and displays it in a bar graph format.



Top Line: Ascent/Descent Rate for period displayed
Center Line: Elevation for time period
Bottom Line: Time line (from current) of Altimeter reading

NOTE: You may **SWITCH ALTIMETER UNITS** (feet or meters) by **PRESSING AND HOLDING** the **START/SPLIT** key.

ALTIMETER RECALL MODE

The ALTIS tracks Maximum Altitude over the past 24 hours and charts the trend in a scrolling graph.

SCROLL THROUGH 24-HOUR TIME LINE by **PRESSING** the **START/SPLIT** key. **PRESS** the **STOP** key to **SCROLL THROUGH ALTIMETER MODES**.



Top Line: Ascent/Descent Rate for period displayed
Center Line: Elevation for time period
Bottom Line: Time line (from current) of Altimeter reading

OPERATING THE WATCH

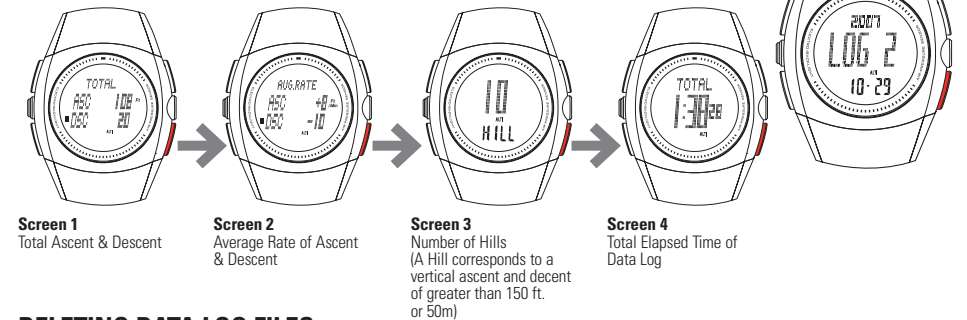
LOG BOOK/DATA RECALL MODE

Reviewing Altimeter Data Logs

Starting in the Data Log screen:

The watch will automatically display the most recent Altimeter Log File recorded with the **LOG NUMBER** in the center line of the display and the **DATE** of the file in the upper and lower lines.

1. **SCROLL** through the recorded files by **PRESSING** the **START/SPLIT** key.
2. **PRESS** the **STOP** key to **VIEW THE SELECTED DATA LOG**.
3. **SCROLL THROUGH DATA LOG INFORMATION** by **PRESSING** the **STOP** key.
4. View the information in the following screens:



DELETING DATA LOG FILES

Starting in the Data Log screen:

1. **SCROLL** through the recorded files by **PRESSING** the **START/SPLIT** key.
2. When selected file is displayed, **PRESS & HOLD** the **SET** key. The display will read **HOLD CLEAR**. **CONTINUE HOLDING** the **SET** key. **RELEASE** the **SET** key.
3. To **CLEAR ALL FILES** from memory, **CONTINUE TO HOLD** the **SET** key. When all files are cleared, the screen will display a series of 4 dashes (----). **RELEASE** the **SET** key.

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OPERATING THE WATCH

SKI CHRONOGRAPH

The ALTIS is equipped with a timing system which is started at the top of a vertical drop (such as a ski run) and will track the time of your descent back to the base, stopping at a preset base altitude (within 35 ft/10m to allow for altitude drift due to barometric pressure changes).

STORING A BASE ALTITUDE

A Base Altitude can be stored either automatically or manually.

AUTOMATIC STORE

When you are physically at the location you want to establish as your base altitude (such as if you are standing at the bottom of a run you want to time), in Ski Mode:

1. **PRESS & HOLD** the **STOP** key. The display will read **STORE ALTI** while the current altitude is being stored as the base altitude.
2. When complete, the top line of the display will show **STORED** and you may **RELEASE** the **STOP** key. Your new base altitude will now be displayed in the lower center line of the display.



MANUAL STORE

If you wish to manually store a base altitude:

1. **PRESS & HOLD** the **SET** key. The display will read **SET HOLD** for a period of approximately 3 seconds and then automatically change to the screen for manual adjustment of the Base Altitude with Altitude displayed in the center line.
2. **ADJUST THE BASE ALTITUDE** by **PRESSING** the **START/SPLIT** and **STOP** keys until you have adjusted the display to your chosen altitude.
3. **PRESS** the **SET** key to **EXIT THE SETTING MODE** and return to the primary Ski Chronograph screen.

NOTE: We recommend you store your base altitude often as local pressure changes may cause it to shift up or down and effect the accuracy of the timing.



OPERATING THE WATCH

OPERATING THE SKI CHRONOGRAPH

1. Once you have established a Base Altitude, at the top of a ski run, **PRESS** the **START/SPLIT** key. The 10 second countdown timer will start.
2. When the timer reaches zero (0) the watch will beep. Begin skiing. The timer will automatically stop once you reach your programmed base altitude.
3. At the end of a run, the display will read the following:



Top Line: Elapsed Time for Run
Center Line: Current Altitude
Base Altitude
Bottom Line: Time of day

4. To begin timing another run, **PRESS** the **START/SPLIT** key to use the current base altitude or enter the Automatic or Manual base altitude storing sequence.



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OPERATING THE WATCH

CHRONOGRAPH MODE

The ALTIS features a sophisticated 24-hour, 50-lap digital chronograph. The chronograph has a resolution of 0.01 seconds for the first hour (1-second resolution after that) and displays both lap time and total time on screen simultaneously.

OPERATING THE CHRONOGRAPH

In chronograph mode:

1. To **START TIMING**, **PRESS** the **START/SPLIT** key. The display will read the following:



Top Line Current lap time
Center Line Total elapsed time
Bottom Line Time of Day

2. To **TIME A LAP**, **PRESS** the **START/SPLIT** key. The display will read the following:



Top Line Lap number/time of last Lap
Lower Line Split Time (Total elapsed time at end of Lap)

3. To **STOP TIMING**, **PRESS** the **STOP** key.

OPERATING THE WATCH

REVIEWING WORKOUT DATA

The ALTIS displays a summary of your latest workout.

In Chronograph Mode with the timer stopped:

1. **PRESS** the **SET** key.



Top Line Lap number/time for Lap (in ascending order from Lap 1)
Lower Line Split Time (Total elapsed time at end of Lap)

2. **SCROLL THROUGH LAP DATA** by **PRESSING** the **SET** key.
3. After Lap detail, the watch displays **BEST LAP** (shortest timed segment). **PRESS** the **SET** key to continue data recall.
4. The final display is Average Lap Time.
5. To **EXIT DATA RECALL**, **PRESS** the **START/SPLIT** or **STOP** key.

NOTE: you may **PRESS** the **START/SPLIT** key to **RESUME TIMING** without clearing the Chronograph.

CLEARING THE CHRONOGRAPH

In Chronograph Mode with the timer stopped:

1. **PRESS & HOLD** the **STOP** key for approximately 2 seconds.



SPECIFICATIONS AND RANGES

GENERAL

Water Resistance 5ATM
Watch Battery CR 2032 3v Lithium

ALTIMETER

Range -702 to +9158m / -2305 to +30,045ft
Resolution 1m / 1ft

ALTIMETER LOG

20 Individual date coded files storing date, time, vertical ascent and decent distance and rate, hills and total elapsed time
Log Book has a resolution of 7 ft/ 2 meters

THERMOMETER

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

COMPASS

Resolution of 1 degree
Rotating digital bezel in quarter cardinal points

BAROMETER

Range 300 to 1100mbar/hPa or (8.86 inHg to 32.48 inHg)
Resolution 1mbar/hPa or 0.01InHg

CHRONOGRAPH

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

CHRONOGRAPH LOG

50 Laps/Splits
20 Runs/Workouts showing Lap/split times, Best Lap, Average Lap

TROUBLE SHOOTING – BASIC

The ALTIS 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 watch 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 on the watch unit of the ALTIS 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 on the screen. 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 ALTIS 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 levels.

CARE AND MAINTENANCE

The ALTIS 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 watch. Store your watch in a clean, dry area at room temperature.

Clean your watch 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 ALTIS use a common **CR2032 3V** Lithium battery.

Normal battery life is approximately 1yr.

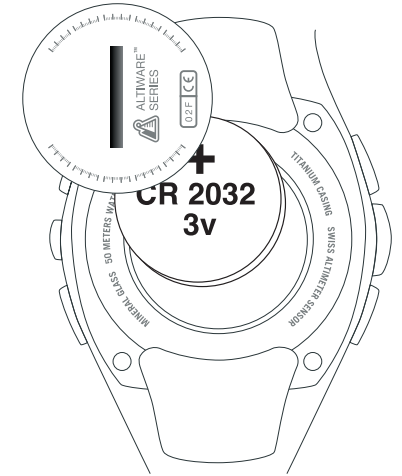
NOTE: Heavy usage of the Altimeter, Compass or Backlight system may significantly reduce battery life.

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

CARE AND MAINTENANCE

REPLACING THE WATCH BATTERY

1. Remove battery door using a coin.
2. Turn the stainless steel battery retainer counter-clockwise.
3. Carefully remove the retainer and old battery. Do not damage the O-ring seal.
4. Place a fresh battery in the battery compartment with the positive (+) side facing up.
5. Slide the battery retainer over the battery and position the tabs into their appropriate holes.
6. Slide the retainer counter clockwise.
7. Replace battery door using a coin.
8. 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.



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.

ALTIWARE SERIES

