# USER MANUAL

**ALTIX**

**PARASPORT** Est.1987

AltiX is a digital altimeter designed to be easy to use and clear to read. Only basic altimeter functions are available, with the addition of a simulation mode, helping training students to recognize the altitude during ground training. It also records exit and pull altitudes, as well as freefall time and average freefall speed, of last jump.

## CONFIGURATION
From ground mode (click the button in case the LCD shows the time), press and hold the button until the offset setting screen will show. You can then browse thru the different settings by pressing and holding the button until the next screen shows. Once in a function, you can change the setting by clicking on the button. Once set, pressing and holding the button will save the setting and exit the function. If the setting is not confirmed by pressing and holding the button, the unit will return to ground mode without saving after about 10 seconds without touching the button. Use the quick reference for easier setup.

## OFFSET
Click the button to change the offset of the drop zone compared to the take off place. On each click the altitude difference will switch from "higher" to "lower" and then increase the amount of the difference. Offset can be set up to ±1500 meters with 10 meters increments, or ±5000 feet, with 25 feet increments. Offset is reset after next jump or entering again into the offset setting function. Press and hold to confirm the offset setting.

*Offset of the drop zone 180 meters higher than the take off place.*

*Offset of the drop zone 450 feet below the take off place.*
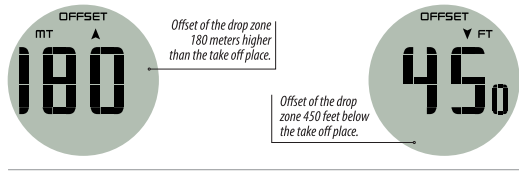
## UNITS
Click the button to switch between meters and feet, the selected setting will flash. Press and hold to confirm.
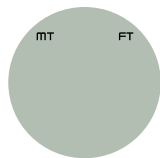
## ALTITUDE FORMAT
It is possible to decide the level of detail of altitude information displayed while in freefall. See examples below showing how an altitude of 3650 meters and 13250 feet are displayed according to the different settings. Click to switch among the different modes, press and hold to confirm. The first setting (the one with the up arrow) is a simplified display mode, using as many large digits as possible at the center of the display.

Under the open canopy the altimeter will always show the highest possible detail.

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## SIMULATION
Useful to practice altimeter reading, the function simulates a jump and canopy ride to the ground. Can be interrupted by clicking the button. Exit and pull altitudes can be adjusted (see the respective functions below). Entering the simulation mode, the LCD will briefly show the pull altitude set, and then the exit altitude. Press the button to start the simulation.

*Simulation pull altitude*

*Simulation exit altitude*
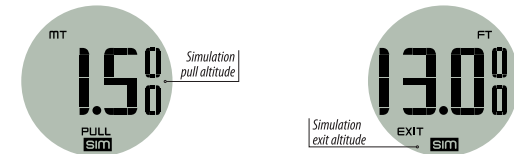
**WARNING - SIMULATION MODE DISABLES ALTIMETER FUNCTION. DO NOT LOAD THE AIRCRAFT WHILE THE SIMULATION IS RUNNING.**

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## UNIT INFORMATION
Allows checking manufacturing information and battery voltage. You can browse in sequence this information by clicking the button. Press and hold to return to ground mode after checking unit information.

*Software version*

*Serial number*

*Battery status*

*Jumps Counter*

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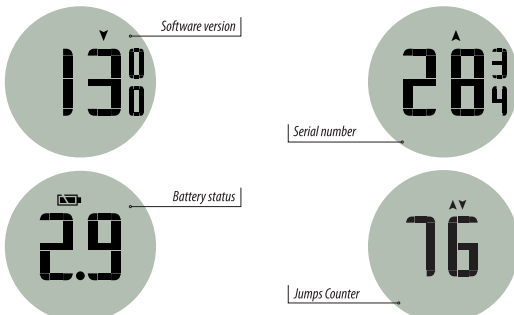
## SETTING SIMULATION EXIT ALTITUDE
It is possible to change the simulation exit altitude. Entering the function the unit will show the current setting. Click the button to change the value, increasing the default preset of 3000 meters (9500 feet) by 100 meters (or 500 feet), up to 4500 meters (15000 feet). Save by pressing and holding the button. The value is preserved when replacing the battery.

## SETTING SIMULATION PULL ALTITUDE
It is possible to change the simulation pull altitude. Entering the function the unit will show the current setting. Click the button to change the value, increasing the default preset of 1500 meters (4500 feet) by 100 meters (or 500 feet), up to 500 meters (1500 feet) below the current setting of the simulation exit altitude. Save by pressing and holding the button. The value is preserved when replacing the battery.

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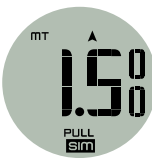
## CLOCK FUNCTION
The AltiX integrates a clock so you can use it as a watch! When you activate the unit (for example after a battery change) you will be able to set the current time. When in standby mode, the unit will show the clock.

*Clock display*
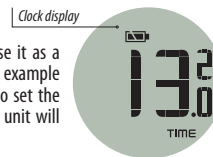
You can also adjust the time by holding the button depressed when the time is shown. Once in clock setting mode you can increase hours first by clicking the button (the up arrow is shown to indicate you're adjusting the hours). Hold key depressed to set minutes (the down arrow is now shown to indicate you're adjusting the minutes). Click to increase minutes, hold key depressed to save the clock setting. Hours are shown in 24 hours format only.

*Hours setting*

*Minute setting*

## GROUND MODE
Shows that the unit is calibrated to ground reference. It shows zero unless an offset is set. In this case, it will show the offset set for the drop zone (the offset indicator will flash), with an arrow indicating if the drop zone is above (up arrow) or below (down arrow) the current altitude, by the displayed value.

*Regular ground mode*

*Ground mode with offset, drop zone above the current altitude by 250 feet*
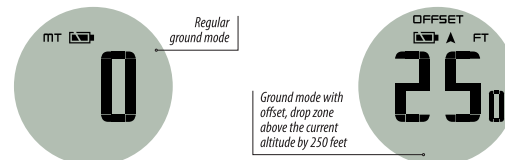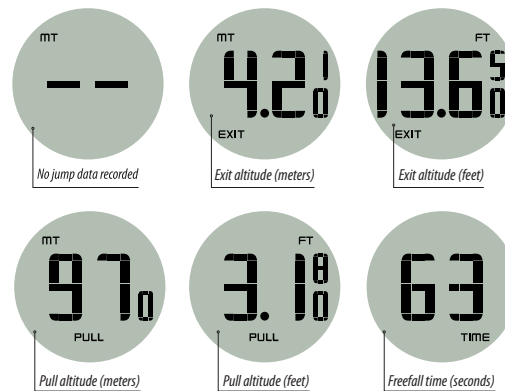
In order to save battery, the unit will go to battery saving mode showing the time. You can show the ground mode by pressing the button. At take off, the unit will automatically switch to altimeter from both clock and ground modes.

## ALTIMETER MODE
After take off, the unit will start automatically to show the current altitude. Time required to switch to this mode depends on several factors. After landing the unit will return to ground mode, and then clock mode.

## LAST JUMP INFO
The altimeter records exit and pull altitude, with freefall time and average freefall speed, for the last jump. To review the data, click on the button from ground mode. Click to browse the values recorded, press and hold to return to ground mode. Speed is shown in meters per second or feet per second, according to units chosen in configuration

*No jump data recorded*

*Exit altitude (meters)*

*Exit altitude (feet)*

*Pull altitude (meters)*

*Pull altitude (feet)*
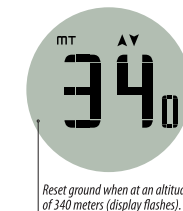
*Freefall time (seconds)*

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## AVERAGE SPEED
The calculation of the average freefall speed of the last jump is not just the math of the average speed (distance divided by time), but takes into account the acceleration phase. It is shown in the statistics, after freefall time, in meters per second or feet per second, according to the units chosen.

## GROUND RESET
It may happen (for example when driving to the drop zone involves crossing hills or mountains) that the altimeter will not show zero on the ground. In this case it's possible to manually reset the ground reference. To set the new ground reference enter the configuration mode and go to the reset ground screen.

Then click the button several times until you'll see the ground mode on display.

If for any reason the unit does not show the ground mode after returning to the ground (jumping or landing with the aircraft), set the new ground reference by clicking the button several times until you'll see the ground mode on display.

*Reset ground when at an altitude of 340 meters (display flashes).*

**WARNING! THIS MUST BE DONE ONLY WHILE ON THE GROUND!**

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## REPLACING THE BATTERY
Remove the bottom of the altimeter turning counterclockwise and expose the battery compartment. Insert a CR2450 coin cell (positive contact up). The unit will run an LCD check turning on all the segments, and then turns itself off to save battery. **PUSH THE BUTTON AFTER REPLACING THE BATTERY TO ACTIVATE THE ALTIMETER!** Pushing the button after changing the battery will briefly show the battery voltage and then the clock setting. Close the bottom of the altimeter tightening gently.
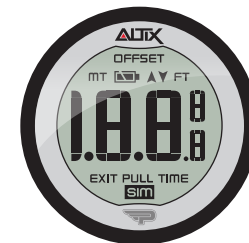
## FEATURES
- Digital altimeter with large digits display.
- No power on, no calibration required, manual reset allowed.
- Altitude range : 0-10.000 meters (0-33,000 feet)
- Temperature range : -25..+70 °C (-13..+158 °F)
- Statistics about last jump: exit altitude, pull altitude, freefall time, average freefall speed.
- Display of number of digits in freefall can be configured.
- Jumps counter
- Meters or feet.
- Freefall simulation with user setting of exit and pull altitudes.
- Configuration information preserved when changing the battery.
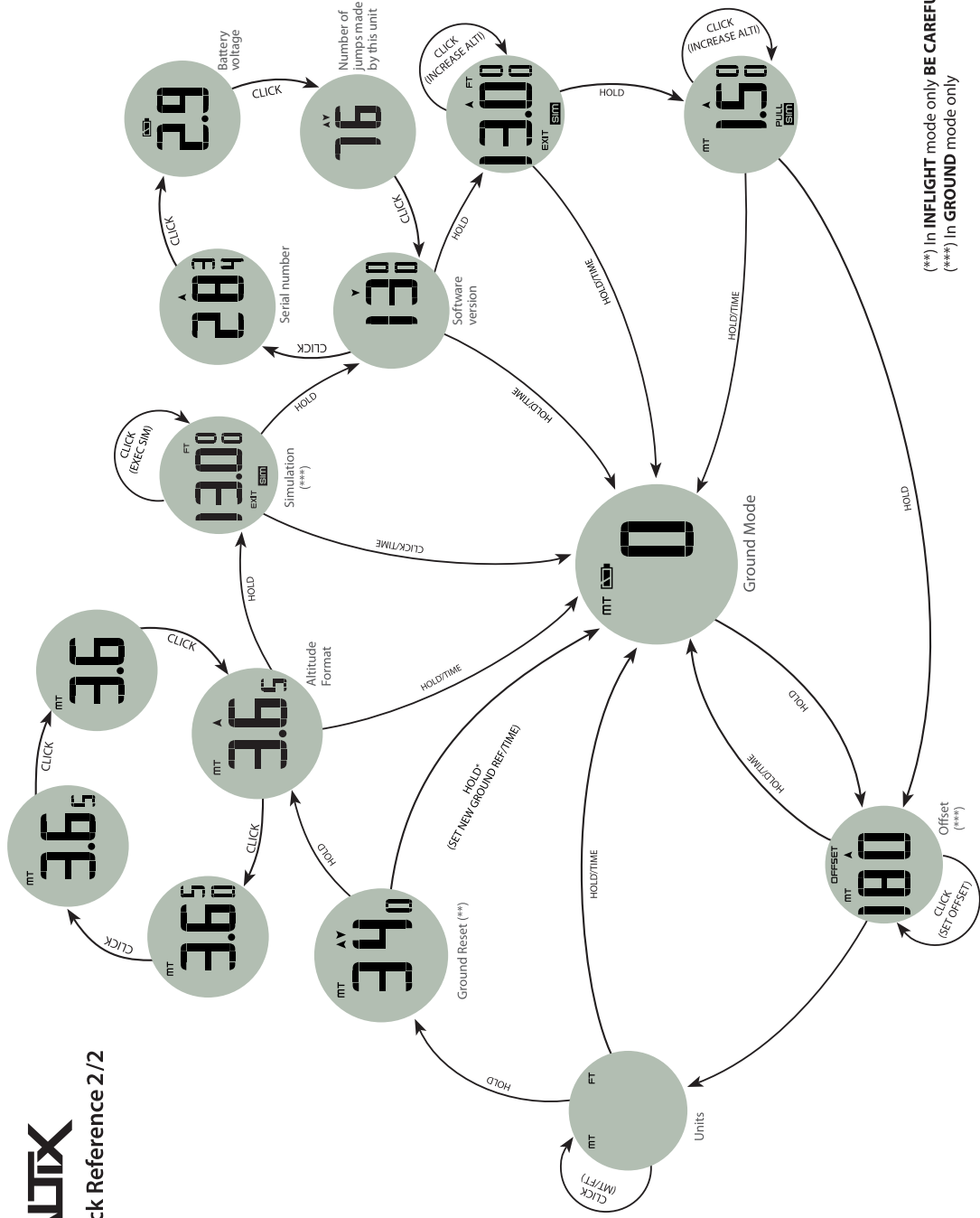- Drop zone offset can be set up to 1500 meters (5000 feet) above or below the airport.

PARASPORT
skydiving
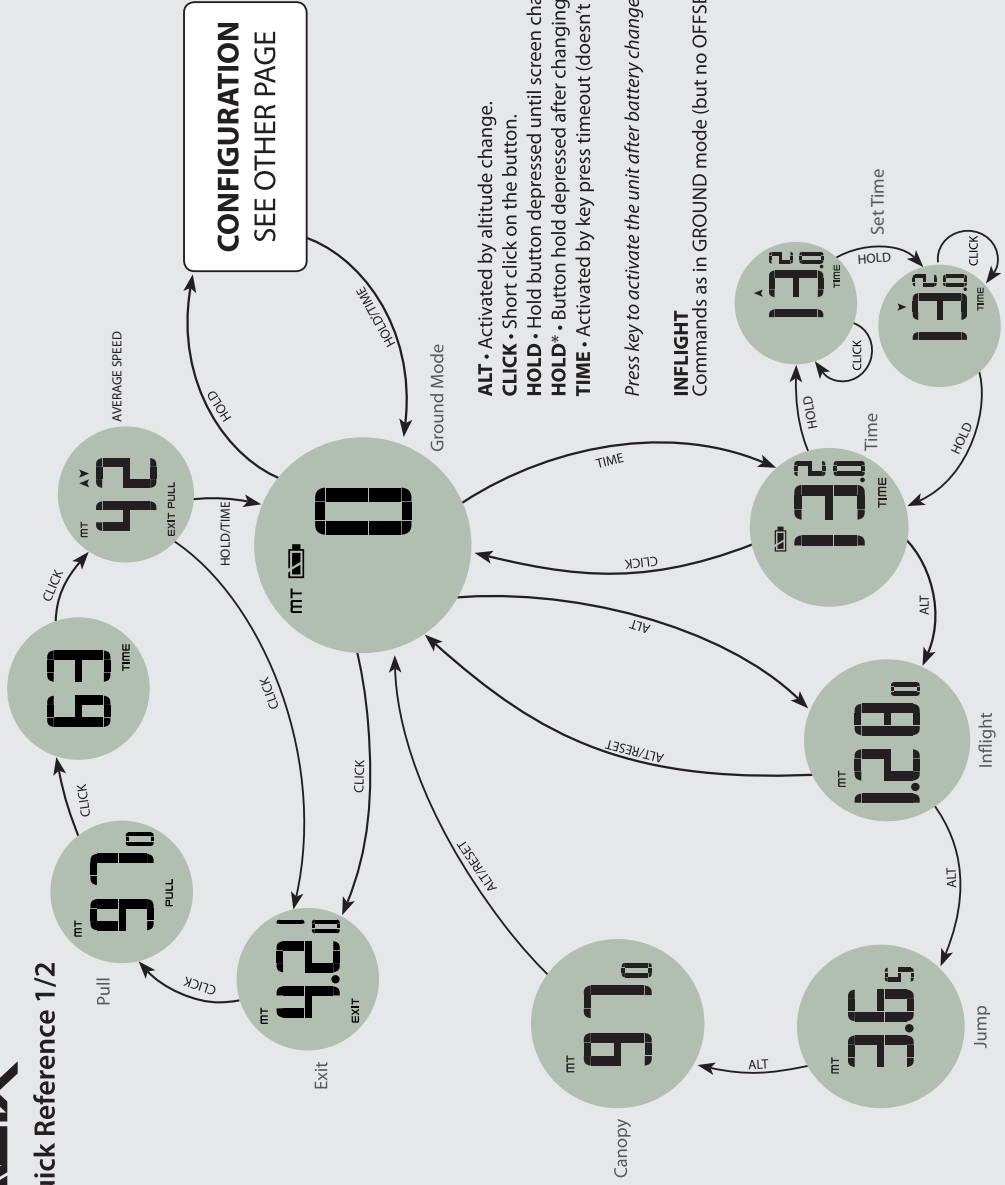
**CONFIGURATION**
SEE OTHER PAGE

Ground Mode

**ALT** · Activated by altitude change.
**CLICK** · Short click on the button.
**HOLD** · Hold button depressed until screen change.
**HOLD** · Button hold depressed after changing at least one parameter.
**TIME** · Activated by key press timeout (doesn't save changes).

*Press key to activate the unit after battery change!*

**INFLIGHT**
Commands as in GROUND mode (but no OFFSET and SIM functions).

AVERAGE SPEED

Pull

Exit

Canopy

Jump

Inflight

Time

Set Time

Battery voltage

Number of jumps made by this unit

Serial number

Software version

Simulation (***)

Altitude Format

Ground Reset (**)

Ground Mode

Offset (***)

Units

(**) In **INFLIGHT** mode only **BE CAREFUL!**
(***) In **GROUND** mode only