PHOTO **SCOTT BEACH**

TACTICAL ALTIMETERS



ALFA 3™ MANUAL

WARNING

The ALFA 3™, even when used as your primary means of maintaining altitude awareness, may fail. Always use your eyes to determine your approximate altitude.

Altimeters may give erroneous readings if you are tumbling or the altimeter is in a burble (wake). Chest mount altimeters are more vulnerable to this problem compared to hand/ wrist mounted altimeters. If you are in doubt about how this limitation affects your skydiving, consult a licensed instructor.

DO NOT use this equipment unless you are currently participating in, or have successfully passed, an approved parachuting or freefall course.

Please read ALL instructions carefully prior to use.

The ALFA 3™ must be switched ON prior to entering the airplane.

ALFA 3™ is a trademark of LB Altimeters, Denmark

LB Altimeters operates a policy of continuous development.
Therefore, we reserve the right to make changes and improvements to any of the products described in this guide without prior notice.

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INTRODUCTION

The ALFA 3™ is LB Altimeters' proven tactical visual altimeter, built for consistent performance in demanding conditions. It delivers precise, real-time altitude you can trust across a wide range of applications. With industry-leading error correction technology, the ALFA 3™ maintains dependable accuracy when it matters most.

Core Features

- Large, high-contrast, non-flicker LCD
- Adjustable high-efficiency backlight with uniform, controlled output
- Waterproof and shock-resistant aircraft-grade aluminum case
- Impact-resistant hardened glass
- Quick access to essential functions
- Automatic calibration to local elevation

Flight and Performance Functions

- Precise, real-time altitude to 40,000 feet MSL
- Accelerometer enables automatic device and display power-on from low power states
- Altitude offset for varying landing zones
- Time display available under canopy
- Simulator mode to aid in real time training for students and experienced skydivers

User Controls and Settings

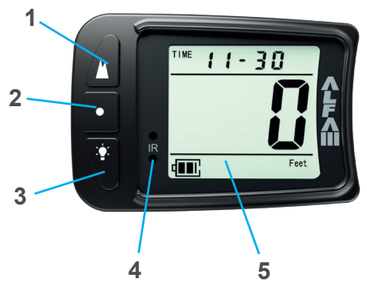
- Set date and time in EU or US format
- User-settable jump counter
- Displays altitude in in FEET or METERS
- Display logbook speeds in MPH or KMH
- Display turns off automatically to save power
- Economy and automatic modes for shutoff or low-power standby
- Remote settings control via Altitrack II™

Jump Data and Logging

- Daily and total jump counters
- Logbook capacity: up to 200 jumps
- Stores detailled data for the last 200 jumps:
  - o Date and time
  - o Exit and opening altitudes
  - o Freefall time
  - o Max and average speed
- Stores up to 10 minutes of data from the last jump

DESCRIPTION

1 Altitude Offset / Up
2 Main
3 Backlight / Down
4 IR Port
5 Display
6 Battery cover
7 Reset button





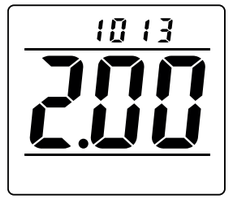
DISPLAY

Startup

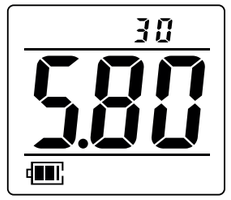
When turning on ALFA 3™, the unit will display the following self-test during startup



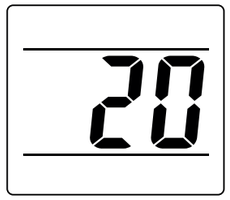
Full display



Air pressure reading (mbar)
Firmware version



Temperature (Celcius)
Battery voltage (V)

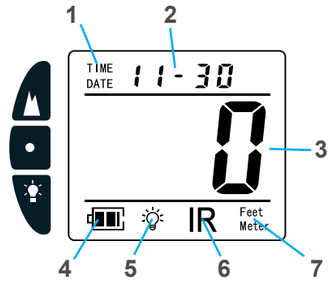


Self-test control number

Main Window

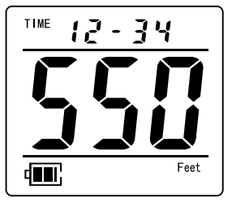
The Main Window is the default window after the unit is turned ON, and starting point for any further actions.

1 Time / date indicator
2 Time / date display
3 Altitude display
(flashes when negative)
4 Battery indicator
5 Backlight indicator
6 IR indicator
7 Feet / meter indicator



Altitude Window

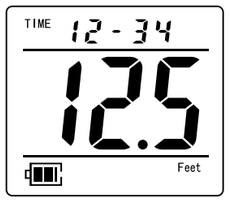
Shortly after take-off, the ALFA 3™ will enter Flight Mode. The Main Window will automatically display the current altitude when entering Flight Mode. The displayed altitude increments (feet / meter) depend on the current altitude.



0-990
Altitude display: normal
Increments of 10 feet / 5 meters



1.000-9.990
Altitude display: 10s
Increments of 10 feet / 10 meters



10.000 and above
Altitude display: 100s
Increments of 100 feet / 100 meters

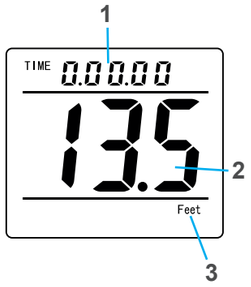
Logbook and Jump Info / Settings

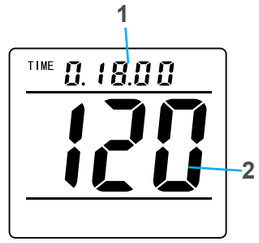
See "Logbook and Jump Info" section for display examples and more information.

Jump Profile

The jump profile window is used when playing back the last jump.

1 Freefall time display
2 Altitude / Speed display
3 Feet / meter indicator





Battery Indicator

The battery indicator shows the current battery status.

- Full capacity: Two black bars are shown inside the battery symbol
- Half capacity: One black bar is shown inside the battery symbol
- Low capacity: The battery symbol is empty. The batteries must be replaced as soon as possible
- Empty: The battery symbol is flashing. Do not continue jumping. Replace batteries immediately

Warning: **Do not** perform night jumps, or jumps in sub-zero temperatures (Celsius), when the battery symbol shows low capacity.

MENU OVERVIEW

The ALFA 3™ menu system consists of 3 separate areas, which include the following (use road map for reference).

Quick Buttons

- Turn ON unit
- Altitude Offset
- Display Date
- IR Mode
- Backlight
- Fast Off

Logbook and Jump Info

- Daily Jump Counter
- Total Jumps
- Exit Altitude
- Opening Altitude
- Freefall Time
- Average Freefall Speed
- Maximum Freefall Speed
- Altitude Profile - Last Jump
- Speed Profile - Last Jump

Settings

- Format - Date and Time
- Date
- Time
- Year
- Jump Counter
- Exit to Main Window
- Units – Altitude
- Units – Speed
- LCD Timeout
- Economy Mode
- Show the Time Under Canopy
- Backlight Intensity
- Dive Type
- Delete Last Jump
- Delete Logbook
- Turn OFF

PERFORMING ACCESS

In order to access each of the individual areas, the following steps must be performed from the Main Window (Use road map for reference).

Quick Buttons

Press and hold the designated button for 3 seconds or as described below.

Performing ACCESS to Logbook and Jump Info



Press and release • When the lock icon appears, press • and hold ····· Continue holding •, the lock icon will disappear ····· When the lock icon reappears, release • Logbook and Jump Info window

Settings



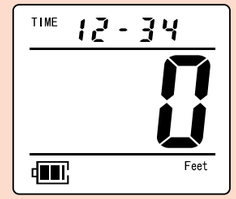
Perform ACCESS to Logbook and Jump Info window · Press • and hold ····· Continue holding • for 5 seconds ····· Release • Settings window

QUICK BUTTONS

Quick Buttons are accessible from the Main Window and do not require ACCESS.

Turn the unit on

Turn on the ALFA 3™ on the ground before use. The unit runs a self-test and calibrates to the current ground level. The ALFA 3™ will stay on for 14 hours after the last jump, the last detected movement, or after last ACCESS performed.



With the unit off, press and hold any button for 2 seconds.

If ALFA 3™ is turned on during flight, the present altitude must be adjusted manually.

Calibration at Startup

Barometric altimeters require ground calibration to ensure accurate altitude readings.

This is typically done automatically when the altimeter is switched on at ground level, using the local QFE (pressure at Take Off zone).

Switching On in Flight – Unpressurized Aircraft

If the altimeter is turned on while already in flight, it will lack a ground reference for calibration. To ensure accuracy, you must manually adjust the altimeter by either:

Setting an altitude offset in Feet/Meter correction compared to the Target DZ.

Entering the correct QFE value (mBar) for the Target DZ (Either on the altimeter itself or through the ALTISET 2™).

Switching On in Flight – Pressurized Aircraft

If the altimeter is switched on during flight in a pressurized aircraft, it will also lack a ground reference for calibration.

To ensure accurate readings, you must manually enter the correct QFE value for the Target DZ (Either on the altimeter itself or through the ALTISET 2™).

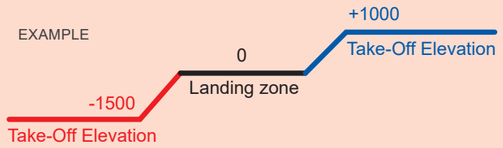
Altitude Offset

Use Altitude Offset to adjust for altitude difference between landing zone and take-off elevation

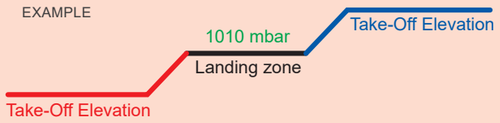
To ensure proper ground reference on landing zone:

Select a positive offset, if take-off elevation is HIGHER than the landing zone.

Select a negative offset, if take-off elevation is LOWER than the landing zone.



Alternatively enter the absolute air pressure for the landing zone. Select the mbar value registered/calculated for the landing zone.

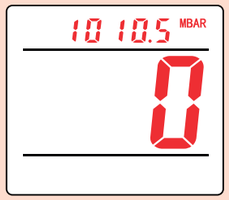


Press and hold ▲ for 3 seconds.

The altitude will begin flashing and the barometric pressure will be displayed on the top line.

Press ▲ to increase altitude. Press ▼ to decrease altitude.

Press ● to confirm Altitude Offset setting. The Altitude Offset will now be displayed in the Main Window (flashing when negative) and the barometric pressure will remain displayed on the top line. Altitude Offset **must** be confirmed within 15 seconds following an altitude change. Altitude Offset is cancelled if no button is pressed within 15 seconds.



Consecutive Offset Jumps

The ALFA 3™ should be powered down between consecutive offset jumps. This ensures that a fresh ground reference is established before the next offset is applied. The ALFA 3™ can be powered down via the ALTISET™, in the settings, via Fast Off, or by resetting the unit.

Note: If using Altitude Offset during flight use the aircraft altimeter for reference.

Note: When performing an Altitude Offset, the ALFA 3™ enters Flight Mode and will retain any offset for 14 hours if no jump is made. After 14 hours the unit will calibrate itself to the field elevation where it is located.

Note: If an altitude offset is set and no significant pressure change is detected within 20 minutes, the ALFA 3™ will enter low power mode. The ALFA 3™ wakes when any button is pressed or movement is detected.

Note: For slow climbing aircraft, we recommend inputting an offset to ground level to ensure accuracy. See "Slow Climbing Aircraft" Section in Functionality for more information.

Display Date

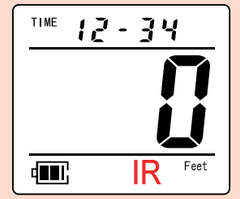
To display the current date, press ▲ and release.
The date will display for 15 seconds.

IR Mode

Activate/Deactivate IR Mode for communication with ALTISET II™ remote control.

Press and hold ● for 5 seconds.

IR will flash and IR mode is active for 2 minutes.



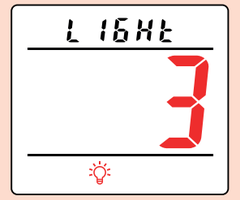
Activate IR Mode on ALTISET II™. Point the ALTISET II™ at the IR port.
ALFA 3™ adjusts to the ALTISET II™ preset altitude and/or backlight.

Press ● to exit IR mode.

Note: Refer to the ALTISET II™ manual for more information on using the ALTISET II™ remote control.

Backlight

☼ indicates if backlight is on or off.



To enable/disable backlight, press and hold ▼ for 3 seconds.

When turning on the backlight, the LCD will display the word "LIGHT" on the top, the intensity level in the main window, and ☼ on the bottom.

The backlight has five levels. (1 = dimmest, 5 = brightest)

Press ▲ and ▼ to adjust the backlight intensity. To confirm the backlight setting, press ● or wait 7 seconds after the last button push. The ALFA 3™ will return to the main window and the light bulb icon will remain on the LCD.

The backlight will automatically turn off when the LCD enters power saving mode and will automatically turn back on when movement is sensed or a button is pushed.

The backlight will automatically turn off after 4 hours, if the ALFA 3™ is not in Flight Mode.
The backlight must be manually turned on after 4 hours of inactivity.

The backlight will turn off after completely after a jump is completed.
The backlight must be manually turned on after a jump.

Note: See LCD Timeout section in Settings for more information about power saving settings.

Fast Off

To switch the unit off from the Main Window, press and hold ▲ and ▼ for 5 seconds.
The unit enters fast off mode.

Increase the number on the left to **5** using ▲ and ▼.

Press ● to turn the ALFA 3™ off. When powered off, the ALFA 3™ cannot be used for jumping.

LOGBOOK AND JUMP INFO

Logbook and Jump Info contain detailed information regarding previous jumps.

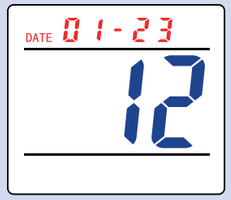
Perform ACCESS to enter the most recent entry of Logbook and Jump info.

Press ▪ to scroll through all the entries.

ALFA 3™ exits Logbook and Jump info if no button is pressed within 15 seconds after ACCESS.

Daily Jump Counter

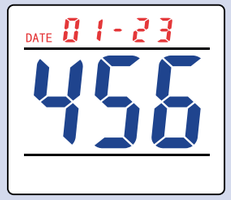
Displays daily jump counter for individual dates.



Press ▲ to select later date(s).
Press ▼ to select earlier date(s).
Press ▪ to continue.

Total Jumps

Displays total number of jumps.
Select jump number to display more information.



Press ▲ to select next jump.
Press ▼ to select previous jump.
Date and time will alternate at the top of the screen for the selected jump.
Press ▪ to continue.

Exit Altitude

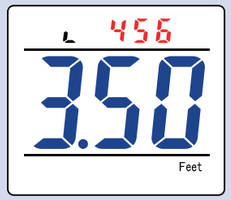
Displays exit altitude for selected jump.



Press ▲ to select next jump.
Press ▼ to select previous jump.
Selected jump number is shown at the top of the screen.
Press ▪ to continue.

Opening Altitude

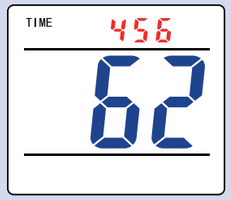
Displays opening altitude for selected jump.



Press ▲ to select next jump.
Press ▼ to select previous jump.
Selected jump number is shown at the top of the screen.
Press ▪ to continue.

Freefall Time

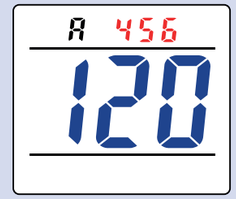
Displays freefall time registered for selected jump.



Press ▲ to select next jump.
Press ▼ to select previous jump.
Selected jump number is shown at the top of the screen.
Press ▪ to continue.

Average Freefall Speed

Displays average speed for selected jump.

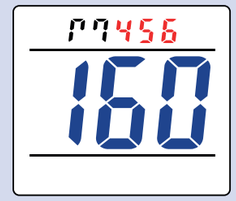


Press ▲ to select next jump.
Press ▼ to select previous jump.
Selected jump number is shown at the top of the screen.
Press ▪ to continue.

Note: Freefall time must be a minimum of 23 seconds to store Average Speed.

Maximum Freefall Speed

Displays maximum speed for selected jump.



Press ▲ to select next jump.
Press ▼ to select previous jump.
Selected jump number is shown at the top of the screen.
Press ▪ to continue.

Note: Freefall time must be a minimum of 23 seconds to store Maximum Speed.

Altitude Profile - Last Jump

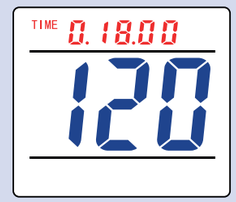
Displays the altitude profile, at a given time, for the last jump.



Press ▼ to scroll down in altitude and forward in time (seconds).
Press ▲ to scroll up in altitude and backward in time (seconds).
Holding down either ▲ or ▼ will fast scroll.
Time is shown at the top of the screen.
Press ▪ to continue.

Speed Profile - Last Jump

Displays the speed profile, at a given time, for the last jump.



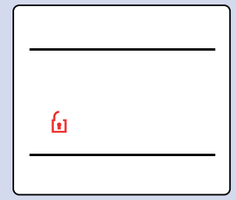
Press ▼ to scroll down in altitude and forward in time (seconds).
Press ▲ to scroll up in altitude and backward in time (seconds).
Holding down either ▲ or ▼ will fast scroll.
Time is shown at the top of the screen.
Press ▪ to continue.

Note: Freefall time must be minimum 8 seconds to store a speed profile.

Exit Logbook and Jump Info

🔓 is flashing.

Allows manual exit from menu.



Press ▲ or ▼ to exit from menu.
Press ▪ to start from the beginning.

SETTINGS

Settings are used to customize the ALFA 3™.

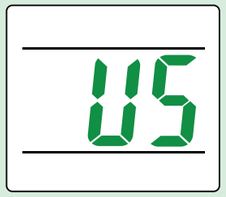
Perform ACCESS to enter the Logbook and Jump Info Window. While in the Logbook and Jump Info Window, press and hold ▪ for 5 seconds to access Settings.

Press ▪ to scroll through all settings.

ALFA 3™ will exit Settings if no button is pressed within 15 seconds after performing ACCESS.

Date and Time Format

Sets the date format to either US (MM/DD) or EU (DD/MM) format and the time format to either US (12-hour) or EU (24-hour) format.

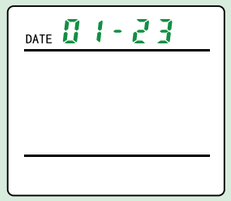


Press ▲ or ▼ to switch formats.
Press ▪ to continue.

DEFAULT: US

Date

Sets the current date.



Press ▲ or ▼ to select month.
Press ▪ to continue.

Press ▲ or ▼ to set date.
Press ▪ to continue.

Note: In EU format, the date is set first, followed by the month.

Time

Sets the current time.



Press ▲ or ▼ to set hour.
Press ▪ to continue.

Press ▲ or ▼ to set minute.
Press ▪ to continue.

Year

Sets the current year.

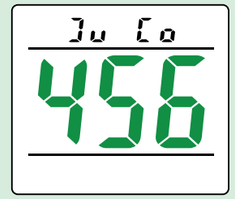


Press ▲ or ▼ to set year.

Year is displayed at the top of the screen.
Press ▪ to continue.

Jump Counter

Sets the current total number of jumps.

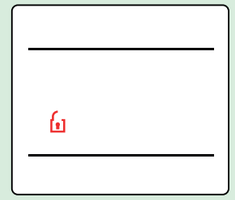


Press ▲ or ▼ to set number of jumps.

Holding down either ▲ or ▼ will fast scroll.
Press ▪ to continue.

Exit Settings

🔓 is flashing.



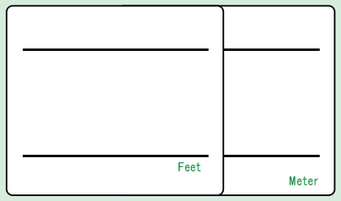
Exits to the Main Window.

Press ▲ or ▼ to exit settings.

Press ▪ to continue.

Units - Altitude

Sets the altitude display in either feet or meters.

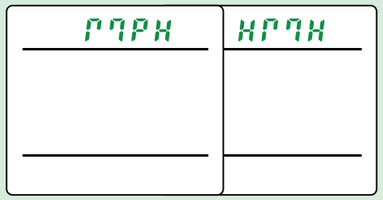


Press ▲ or ▼ to switch units.
Press ▪ to continue.

DEFAULT: FT

Units - Speed

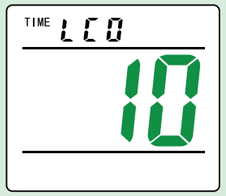
Sets the altitude display in either MPH or KMH.



Press ▲ or ▼ to switch units.
Press ▪ to continue.

DEFAULT: MPH

LCD Timeout



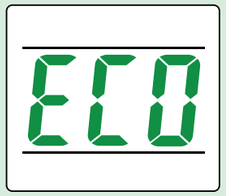
Sets the number of minutes (1-60) before the LCD turns off and enters power saving mode.

Press ▲ to increase the time
Press ▼ to decrease the time
Press ● to continue

DEFAULT: 10 minutes

NOTE: The ALFA 3™ LCD will turn on if it detects movement or Flight Mode.

Economy Mode



Sets the ALFA 3™ to either AU (Automatic) or ECO (Economy) mode.

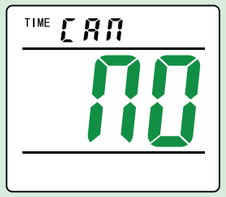
Press ▲ or ▼ to switch modes
Press ● to continue

AU: In Automatic Mode, the ALFA 3™ never completely turns off, but the ALFA 3™ will go to sleep after 14 hours of inactivity. The ALFA 3™ wakes when any button is pressed or movement is detected.
ECO: In Economy Mode, the ALFA 3™ fully turns off after 14 hours of no movement or activity. The ALFA 3™ must be powered up manually after 14 hours of no activity.

DEFAULT: ECO

NOTE: When the ALFA 3™ is off, the device is not jumpable and must be turned on before boarding an aircraft for skydiving.

Show the Time Under Canopy

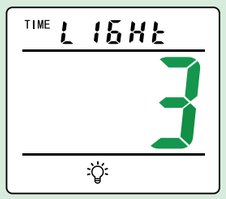


Allows the time to be displayed while under canopy.

Press ▲ or ▼ to toggle between YES (time display on) and NO (time display off)
Press ● to continue

DEFAULT: NO

Backlight Intensity

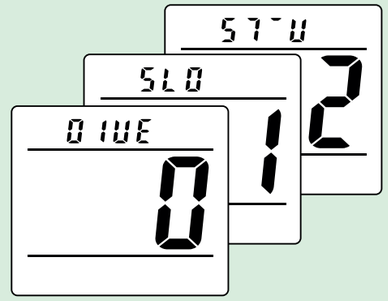


Sets the intensity of the backlight (1-5).

Press ▲ to increase backlight intensity.
Press ▼ to decrease backlight intensity.
Press ● to continue

DEFAULT: 3

Dive Type



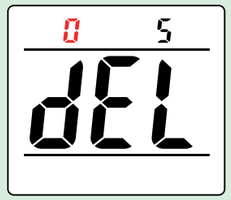
Sets the current dive type used for logging data:

0: Standard. Standard parameters.
1: Slow. The exit and deployment parameters are designed to fit very slow fall rates, such as wingsuiting. Freefall detection is very sensitive, and may register jumps if the airplane descends.
2: Student. The descent rate parameters are changed to fit very short freefalls (2 seconds).

Press ▲ or ▼ to switch between Dive Types.
Press ● to continue.

DEFAULT: 0 - Standard

Delete Last Jump



Deletes the last jump in the logbook. To avoid unintentional deletions, the number on the top left of the screen must be set to ‘5’.

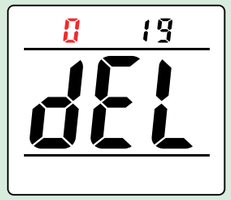
The main window will alternate between dEL and the jump number to be deleted.

Use ▲ and ▼ to match the number to ‘5’.
Press ● to confirm deletion of last jump.

WARNING: If the number is set to ‘5’, ● cannot be used to scroll through settings and will delete last jump. Once deleted, the jump data is lost.

Press ● to continue.

Delete Logbook



Deletes the entire logbook. To avoid unintentional deletions, the number on the top left of the screen must be set to ‘19’

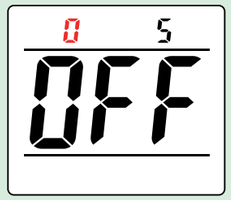
Use ▲ and ▼ to match the number to ‘19’.
Press ● to confirm deletion of entire logbook.

WARNING: If the number is set to ‘19’, ● cannot be used to scroll through settings and will delete the entire logbook. Once deleted, ALL logbook data is lost.

Press ● to continue.

Turn Off

Turns the ALFA 3™ off.



To avoid unintentionally turning the ALFA 3™ off, the number on the top left of the screen must be set to ‘5’

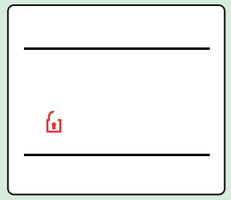
Press ▲ and ▼ to match the number to ‘5’
Press ● to confirm turning off the ALFA 3™.

Warning: If the number is set to ‘5’, ● cannot be used to scroll through settings and will turn off the ALFA 3™.

Press ● to continue.

Exit Settings

🔓 is flashing



Allows manual exit from the settings menu.

Press ▲ or ▼ to exit the settings menu.

Press ● to start from the beginning of the settings menu..

SIMULATOR MODE

The ALFA 3™ can be used as a simulator to aid in real time training for students and experienced sky-divers. The exit altitude, opening altitude, freefall speed, and canopy speeds can be set to allow a full dirt dive from freefall through canopy flight.

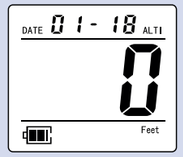
NOTE: While the ALFA 3™ is in Simulator Mode, it can NOT be used as an altimeter.

Make sure to exit Simulator Mode on the ALFA 3™ before boarding an airplane for an actual skydive.

The ALFA 3™ exits simulator mode after 10 minutes of inactivity.
Button presses or the simulator running counts as activity

Accessing Simulator Mode

From Main Window

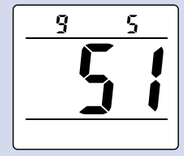


Press and hold ▲ and ▼ for 5 seconds

ALFA 3™ enters fast off mode



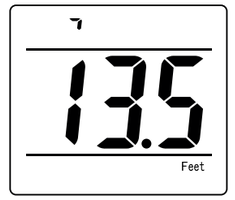
Using ▲ increase the left number to 9



Press ● to activate simulator mode

Exit Altitude

Sets the simulator’s exit altitude.



Press ▲ to increase altitude.
Press ▼ to decrease altitude.
Press ● to continue.

DEFAULT: 13,500 ft.
MAXIMUM ALTITUDE: 40,000 ft.

Opening Altitude

Sets the simulator’s opening altitude.



Press ▲ to increase altitude.
Press ▼ to decrease altitude.
Press ● to continue.

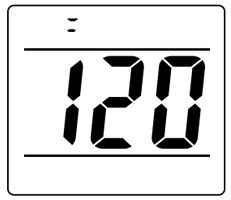
DEFAULT: 5,500 ft.
MAXIMUM ALTITUDE: No higher than 100 feet below Exit Altitude.

Average Freefall Speed

Sets the simulator's average freefall speed

Press ▲ to increase speed.
Press ▼ to decrease speed.
Press ● to continue.

DEFAULT: 120 MPH
MINIMUM and MAXIMUM SPEED: 40-400 MPH

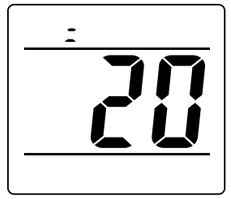


Average Canopy Speed

Sets the simulator's average canopy speed

Press ▲ to increase speed.
Press ▼ to decrease speed.
Press ● to continue.

DEFAULT: 20 MPH
MINIMUM and MAXIMUM SPEED: 5-60 MPH

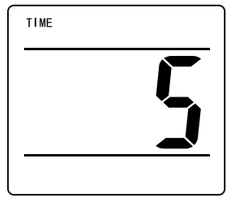


Delay Before Start

Sets the simulator's delay (in seconds) from the moment the play button is pressed until the moment the simulation starts.

Press ▲ to increase time.
Press ▼ to decrease time.
Press ● to continue.

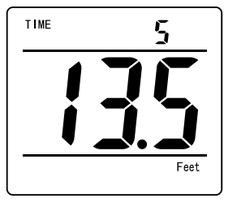
DEFAULT: 5



Simulation Playback

Start, stop, end, and replay the simulated skydive.

Press ▲ to replay the simulation.
Press ▼ to play or end the simulation.
Press ● to pause the simulation.



Exit Simulator Mode

From any Simulator window, press and hold ▲ and ▼ for 5 seconds. The ALFA 3™ will restart in ground mode.

FUNCTIONALITY

Automatic Calibration / Flight Mode

After the ALFA 3™ is turned on, it will continue to automatically calibrate itself to the field elevation where it is currently located. This will continue after each jump / landing, to ensure the unit is always zeroed before jumps are made and will take into account weather related pressure changes.

After take-off, the ALFA 3™ will enter Flight Mode.

Altitude Offset

When performing Altitude Offset, the ALFA 3™ enters Flight Mode and will retain any offset for 14 hours if no jump is made.After 14 hours the unit calibrates itself to the field elevation where it is located.

To exit Flight Mode, turn the unit off, then on.

Manual Zeroing

If the unit does not display the correct altitude when arriving at the drop zone, it must be manually zeroed. Turning the unit off, then on, will clear any Altitude Offset and re-enter automatic calibration.

Automatic Off

The ALFA 3™ automatically switches off if no jump has been made within 14 hours, no button has been pressed within 14 hours, or the unit has not been in Flight Mode within 14 hours.

Fast Off

To switch the unit off from the Main Window, press and hold ▲ and ▼ for 5 seconds. The unit enters fast off mode.

Increase the number on the left to **5** using ▲ and ▼.

Press ● to turn the ALFA 3™ off. When powered off, the ALFA 3™ cannot be used for jumping.

Slow Climbing Aircraft

If the aircraft does not exceed a climb rate of 400 feet per minute after takeoff, the ALFA 3™ may not properly detect an accurate ground level. For slow climbing or pressurized aircraft, we recommend inputting an offset to ground level to ensure accuracy.

To input a zero offset, adjust the offset away from 0, then return it to 0.

Press and hold ▲ for 3 seconds.
The altitude will begin flashing and the barometric pressure will be displayed on the top line.

Press to ▲ increase altitude above 0.
Press to ▼ decrease to 0.

Press ● to confirm Altitude Offset setting.

MAINTENANCE

Reset ALFA 3™

A reset may be necessary for troubleshooting and firmware verification.



Locate the small button to the right of the battery cover.
Insert a paper clip or similar into hole, press and release.
Battery system calibrates.

The firmware version will be displayed after reset.

Battery Change

Only use Renata 3V CR 2325 batteries (2 ea.).



Remove the screws and battery cover.
Remove both batteries and note the polarity.
Install 2 new batteries.
Install battery cover, and ensure rubber seal is in the correct placement.
Place and tighten screws, using a torque screwdriver set at
0.3 Nm or 2.7 in-lb.

Reset the ALFA 3™ after battery replacement.
All settings and logbook data are kept in non-volatile memory and will not be lost, however the time may need to be set again after a battery change.

WARNING: The battery cover and seal must be installed correctly, using correct screws and torque, before any water jumps are made.

⚠ WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH of CHILDREN**.
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



Air Filter Change

The ALFA 3™ is waterproof to a depth of 5 feet, for 24 hours.

If the ALFA 3™ is submerged into water, allow the unit and air filter to dry in a warm, dry place for 48 hours. The air filter must be replaced if jumping is to be resumed immediately, or if the air filter is suspected to be contaminated.

Remove the screws and battery cover.
Install new battery cover and ensure rubber seal is in the correct placement. Place and tighten the screws using a torque screwdriver set at 0.3 Nm or 2.7 in-lb.



Reset the ALFA 3™ after battery cover replacement.

TROUBLESHOOTING

If the ALFA 3™ detects an issue, an error symbol is shown (ERR) with a number at the top of the screen.

Error codes:

1: Transducer defective
2: Transducer out of range
3: Transducer Time Out too long
4: Crystal defective
5: Communications error to flash
100: Flash defective

Always restart the ALFA 3™ to attempt to remedy a single ERR code.

If the ERR code persists, then perform a battery change.

After unsuccessful restart of the ALFA 3™, a Factory Reset is necessary:

To perform a Factory Reset, press and hold ▪ then press the reset button.
Continue to hold ▪ until all LCD segments flash 5 times.

The ALFA 3™ will power down after a Factory Reset.

WARNING: All logbook data will be lost with Factory Reset.

If the ALFA 3™ is still faulty after Factory Reset, it must be serviced by an LB Altimeters Service Center.

CALIBRATION AND MAINTENANCE REQUIREMENTS

Calibration and maintenance by LB Altimeters Service Center is optional every 4, 8, and 12 years, following the ALFA 3™ original date of manufacture.

If the ALFA 3™ exceeds mbar tolerances listed in the Specifications section, and absolute air pressure is required for DZ elevation or offset, calibration can be performed by LB Altimeters Service Center.

Note: When turned on the ALFA 3™ unit runs a self-test and calibrates to the current ground level, and the ALFA 3™ will use measured air pressure for altitude calculations.

The ALFA 3™ can continue to be used until calibration is possible.

When setting/changing the altitude using the mbar setting via Altitude Offset, the ALFA 3™ will use absolute air pressure for altitude calculations.

It is recommended the ALFA 3™ is calibrated by LB Altimeters Service Center before continued use.

SPECIFICATIONS

Mechanical:

Casing:	Rugged and precision machined aircraft aluminum
Screen glass:	2mm thick - Hardened glass lens
Dimensions:	64mm x 44mm x 15mm
Weight:	70g with batteries installed
LCD viewing area:	34mm x 29.5mm
Backlight intensity steps:	5

Altitude Adjustment:

Altitude in feet / meter offset:	Yes
Altitude feet / meter offset range:	-29900 ft. to +29900 ft. (-9100 m to +9100 m)
Present altitude increments:	± 10 ft. (5 meters)

Tolerances:

Altitude display:	± 1%
Exit altitude:	± 1.2%
Deployment altitude:	± 1.2%
Freefall time:	± 1 sec
Speed:	± 3 mph (± 5 km/h)

Logbook:

Minimum freefall time for logbook generation in Normal mode:	8 seconds
Minimum freefall time for logbook generation in Student mode:	3 seconds
Maximum logging altitude (Normal mode):	30,000 ft. (9,150 m) MSL
Maximum logging altitude (Student mode):	40,000 ft. (12,200 m) MSL
Maximum Profile storage (last jump):	10 minutes. Sampling rate: 4/sec.
Accumulated number of jumps:	999
Exit Altitude, Deployment, Freefall Time, Speed:	200 Jumps
Storage principle:	First In First Out

Factory default settings:

Time Format	US
Feet / meter:	Feet
Mph / kmh:	Mph
LCD Timeout:	10
Automatic / Economy Mode	ECO
Show the Time Under Canopy	NO
Backlight intensity	3
Type of Dive:	0
Date:	01:18 (month : date)
Time:	12:00:00 (hours : minutes : seconds)

Other:

Operating altitude:	0 to 40,000 ft. (0 to 12,200 m) MSL
Clock:	± 4 min/month
Storing Temperature:	-20C to +70C
Operating Temperature Range:	-20C to +60C continuous operation
Will operate at -50C for	10 minutes
Storing Pressure:	200 to 1075 mbar
Maximum allowable humidity:	Up to 99,9% relative humidity
Waterproof:	5 feet for 24 hours
Function Period:	14 hours
Maintenance:	4, 8 and 12 years, from date of manufacture
Battery type:	2 x 3V Renata CR 2325
L&B part no.:	901-00046
NATO Stock no.	6675-22-641-7990

WARRANTY

The following conditions apply to the ALFA 3™ warranty:
If within 24 months of the purchase of ALFA 3™ a defect or damage is identified by faulty manufacture, LB ALTIMETERS will repair the unit at no cost to the end user.

To make a claim under this warranty, send the unit to an authorized dealer or directly to LB ALTIMETERS together with the dated purchase invoice or receipt.

The warranty becomes void if damage is caused by external circumstances or if the unit has been serviced or repaired by third parties unauthorized by our national agents or LB ALTIMETERS. All further claims, especially for defects after skydiving accidents, are excluded. LB ALTIMETERS has no obligation to honor any extension of warranty granted by any national agent.

WAIVER OF LIABILITY

The buyer and user of the ALFA 3™ indemnify the manufacturer and vendor from any liability for damage incurred before, during and after skydiving with the instrument.

CE labelling

By means of the CE mark LB Altimeters declares that this product meets the general safety requirements stipulated in the CE marking directives.

By means of the CE mark, LB Altimeters guarantees that the product is manufactured in accordance with common European safety, health, and environmental requirements.”

WEEE

Electrical and electronic equipment (EEE) and materials can be dangerous or hazardous to either health or the environment and must be disposed of correctly. Device must not be disposed of as general household waste but must be collected separately.