ALTISET II 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

TACTICAL ALTIMETERS
www.LBAltimeters.com

WARNING

The **ALTISET II,** and all compatible units, are intended to be a backup device and must not be relied upon as your primary means of maintaining altitude awareness. Use the **ALTISET II**, and all compatible units, at your own risk

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 skydiving course

Please read ALL instructions carefully prior to use

Any **ALTISET II** compatible unit must be switched **ON** prior to entering the airplane

CONTENTS

CONTENTS 2
INTRODUCTION 3
Features 3
Functions 3
DESCRIPTION 3
TURN UNIT ON / OFF 3
Turn unit ON 3
Turn unit OFF 3
DISPLAY 4
Startup 4
Main window 4
Value window 4
Battery Indicator 4
MENU OVERVIEW 5
ALL SETTINGS 5
ALFA SETTINGS 5
ECHO SETTINGS 5
NAVIGATING MENUS / INPUT VALUES 5
ALL SETTINGS 6
Basic Settings 6
ALFA SETTINGS 7
Date / Time 7
ALFA Setup 7
Turn OFF ALFA 8
Return ALFA to Factory Default settings 8
Reset ALFA 8
ECHO SETTINGS 9
Memory Bank Selection 9
Warning Altitude Selection 9
ECHO Setup 10
Test ECHO 10
Turn OFF ECHO 10
Return ECHO to Factory Default settings 10
Reset ECHO 11
FUNCTIONALITY 12
IR Mode Activation – ALFA and ECHO 12
IR Mode Activation – MIL AltiTrack 12
MAINTENANCE 13
Reset ALTISET II 13
Battery Change 13
Trouble Shooting 13
SPECIFICATIONS 14
WARRANTY 15
WAIVER OF LIABILITY 15
QUICK START & ROAD MAP 16

INTRODUCTION

The **ALTISET II** remote control is an optional accessory developed by LB Altimeters, compatible with Military AltiTrack, ALFA and ECHO altimeters. It can be used to change settings on a single or multiple compatible units, accurately and efficiently by a single operator.

The **ALTISET II** remote control must be in line of sight within 30 cm/10 inch of the IrDA transceiver.

Features

- IrDA communication
- OLED menu screen
- Water proof and shock resistant aluminum casing with reinforced glass
- Intuitive menu system for ease of use

Functions

- User selection of Basic Settings for all compatible units:
  - mBar Offset
  - Backlight Settings

- User selection of Settings for ALFA:
  - Feet / meter and mph / kmh
  - Date / Time
  - Jump Counter
  - RESET / Turn OFF

- User selection of Settings for ECHO:
  - Feet / meter
  - Pre-set Modes:
    - Tandem
    - Student
    - Expert
  - Warnings
  - RESET / Turn OFF

DESCRIPTION

1 Back / Value Down
2 Scroll Menu / Confirm Value
3 Forward / Value Up
4 OLED Display
5 IrDA port
6 IR indicator - LINKED
7 Battery indicator - BATT
8 Battery compartment
9 Reset button

TURN UNIT ON / OFF

Turn unit ON

With the unit OFF, press any button to turn unit ON and enter main window

Turn unit OFF

The **ALTISET II** automatically returns to the main window if no button has been pressed within 1 minute, and IR transmit is not active

The **ALTISET II** automatically switches OFF if no button has been pressed within 2 minutes, and IR transmit is not active

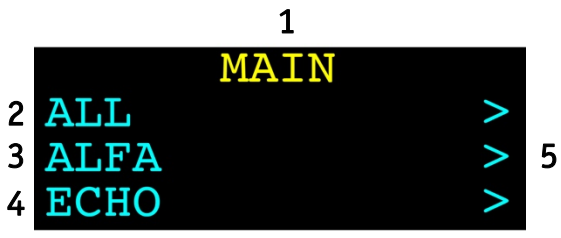
DISPLAY

Startup

When turning ON **ALTISET II**, the unit will display the main window

Main window

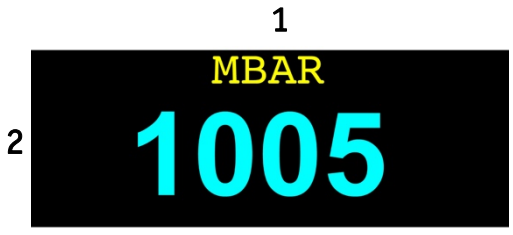
The main window is the default window after the unit is turned ON, and starting point for any actions



1 Headline / Current Window
2 Menu Item 1
3 Menu Item 2
4 Menu Item 2
5 Menu Forward / Value

Value window

The value window appears when selecting a numeric value for any Settings



1 Headline / Current Setting
2 Value of Setting

Battery Indicator

The battery indicator BATT will flash when the battery level is low.

The batteries must be replaced as soon as possible

MENU OVERVIEW

The **ALTISET II** menu system consists of 3 separate areas, which include the following (use road map for reference)

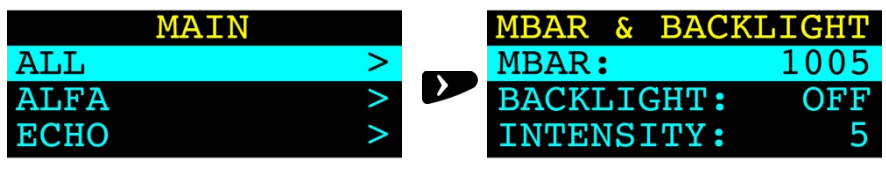
ALL SETTINGS	ALFA SETTINGS	ECHO SETTINGS
mBar Offset	Date / Time	Warnings
Backlight ON/OFF	Setup	Setup
Backlight Intensity	Turn unit OFF	Test Sound
	Factory Default	Turn unit OFF
	Reset Unit	Factory Default
		Reset Unit

NAVIGATING MENUS / INPUT VALUES

Menus on the **ALTISET II** are navigated using the 3 buttons on the front of the **ALTISET II** :

Use center button to scroll through menu

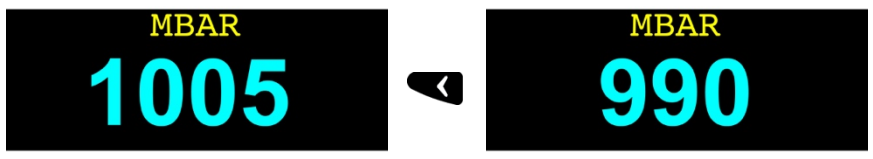
Use right button to move forward to a menu or select a value



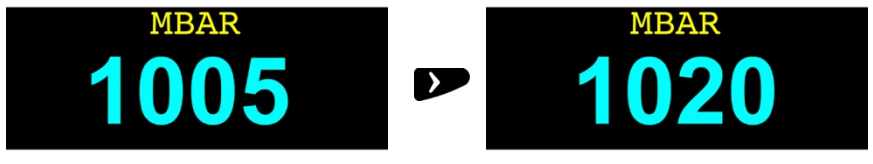
Use left button to return to a previous menu

Values on the **ALTISET II** are changed and confirmed using the 3 buttons on the front of the **ALTISET II**:

Press and hold left button to decrease value



Press and hold right button to increase value



Press center button to confirm value

ALL SETTINGS

ALL Settings are used to **setup the basic Settings for all compatible LB altimeters**

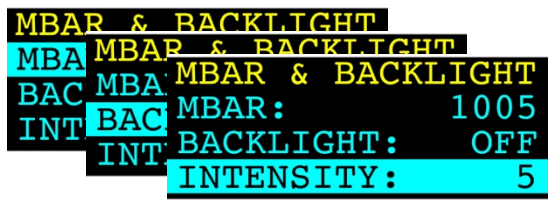
Turn on **ALTISET II** or use to return to main window
Press to scroll to select ALL
Press to move forward to ALL Settings

Basic Settings

The following values can be changed:

MBAR:	**OFFSET mBar value**
BACKLIGHT:	**Backlight ON / OFF**
INTENSITY:	**Backlight intensity level (1-10)**

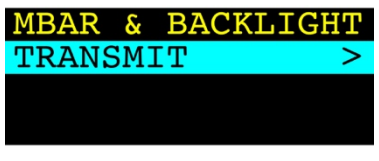
Press to scroll to each individual value
Press to select and enter value

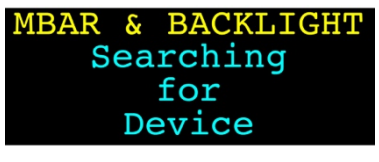


Press or to change the value

Press to confirm

Once all values have been entered, press to scroll to select TRANSMIT
Press to start IrDA transmission, and point towards LB altimeter set in IrDA transceiver mode





ALFA SETTINGS

ALFA Settings are used to **setup the ALFA digital Altimeter**

Turn on **ALTISET II** or use ◄ to return to main window
Press ■ to scroll to select ALFA
Press ► to move forward to ALFA Settings

Date / Time

Press ■ to scroll to select DATE / TIME
Press ► to move forward to Date / Time Settings

The following values can be changed:

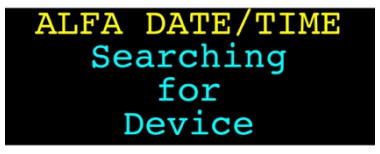
YEAR:	The current year	HOUR:	The current hour
MONTH:	The current month	MINUTE:	The current minute
DAY:	The current day		

Press ■ to scroll to each individual value
Press ► to select and enter value

Press ◄ or ► to change the value

Press ■ to confirm

Once all values have been entered, press ■ to scroll to select TRANSMIT
Press ► to start IrDA transmission, and point towards any **ALFA** set in IrDA transceiver mode



ALFA Setup

Press ■ to scroll to select SETUP
Press ► to move forward to ALFA Setup

The following values can be changed:

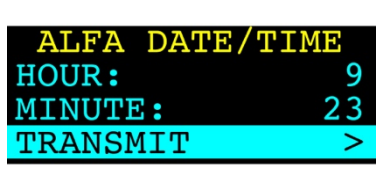
COUNTER:	Daily Counter	DIVE TYPE:	Dive Type
ALT.UNIT:	Feet / meter		
SPEED:	Mph / Kmh		

Press ■ to scroll to each individual value
Press ► to select and enter value

Press ◄ or ► to change the value

Press ■ to confirm

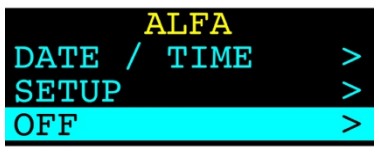
Once all values have been entered, press ■ to scroll to select TRANSMIT
Press ► to start IrDA transmission, and point towards any **ALFA** set in IrDA transceiver mode



Turn OFF ALFA

Selecting this option will turn **ALFA** OFF

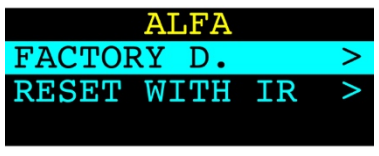
Press ■ to scroll to select OFF
Press ▶ to start IrDA transmission, and point towards any **ALFA** set in IrDA transceiver mode



Return ALFA to Factory Default settings

Selecting this option will return **ALFA** to Factory Default settings

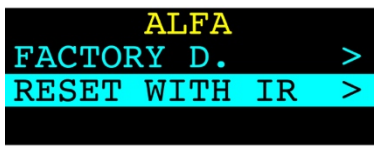
Press ■ to scroll to select FACTORY D.
Press ▶ to start IrDA transmission, and point towards any **ALFA** set in IrDA transceiver mode



Reset ALFA

Selecting this option will reset **ALFA, with IrDA active**

Press ■ to scroll to select RESET WITH IR
Press ▶ to start IrDA transmission, and point towards any **ALFA** set in IrDA transceiver mode



ECHO SETTINGS

ECHO Settings are used to **setup the ECHO digital Altimeter**

Turn on **ALTISET II** or use ◄ to return to main window
Press ● to scroll to select ALFA
Press ► to move forward to ALFA Settings

Memory Bank Selection

Press ● to scroll to select WARNINGS
Press ► to move forward to WARNINGS

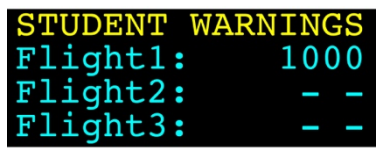
The following menus can be selected:

STUDENT:	Enter Warning altitudes for Student Memory Bank
TANDEM:	Enter Warning altitudes for Tandem Memory Bank
EXPERT :	Enter Warning altitudes for Expert Memory Bank

After making changes, Memory Banks can be transmitted individually from inside their respectivemenu, or all at once by moving back to the Memory Bank Selection

Press ● to scroll to each individual Memory Bank
Press ► to select the individual Memory Bank

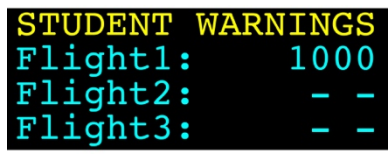
Press ◄ or ► to move back or forward between Memory Banks



To transmit all Memory Banks, press ● to scroll to select TRANSMIT ALL
Press ► to start IrDA transmission, and point towards any **ECHO** set in IrDA transceiver mode

Warning Altitude Selection

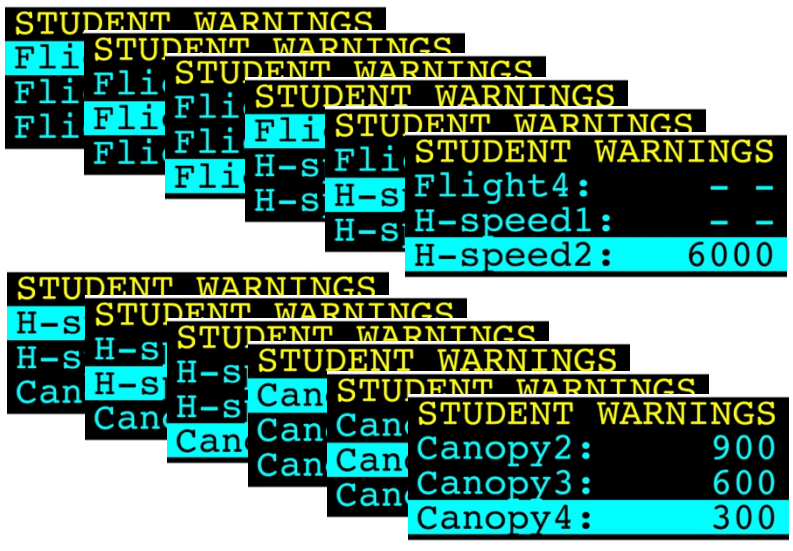
Press ● to scroll to select one of the 12 Warning altitudes for the selected Memory Bank
Press ► to move forward and input value for the selected Warning altitude



The following Warnings can be selected in each Memory Bank:

Flight1 – Flight4:	Enter Warning altitudes for Aircraft Alarms
H-speed1 – H-speed4:	Enter Warning altitudes for Freefall Alarms
Canopy1– Canopy4	Enter Warning altitudes for Canopy Alarms

If no value is added, the Warning will disabled.

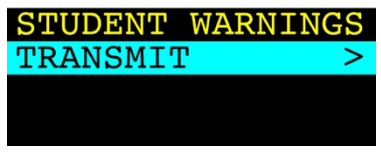


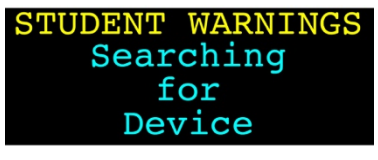
Press ● to scroll to each individual Warning
Press ► to select and enter the individual altitude

Press ◄ or ► to change the altitude

Press ● to confirm

Once all values have been entered, press ● to scroll to select TRANSMIT for current Memory Bank
Press ► to start IrDA transmission, and point towards any **ECHO** set in IrDA transceiver mode



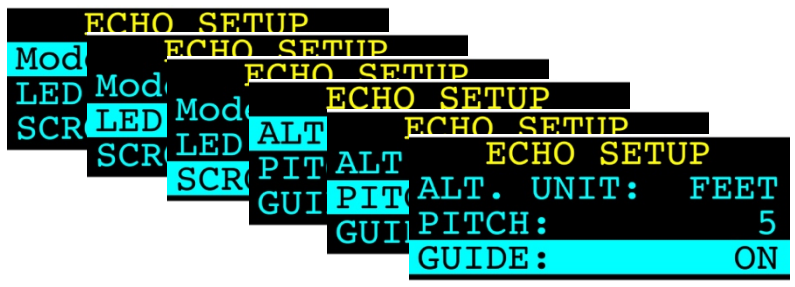


ECHO Setup

Press ▪ to scroll to select SETUP
Press ▸ to move forward to ALFA Setup

The following values can be changed:

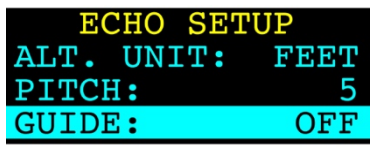
Mode:	Current Mode/Memory Bank	ALT. UNIT:	Feet / Meter
LED FLASH:	Turn LED ON/OFF	PITCH:	Dive Type
SCROLL:	Turn Altitude Scroll ON/OFF	GUIDE:	Canopy Guide ON/OFF



Press ▪ to scroll to each individual value
Press ▸ to switch value, or select and enter value

Press ◂ or ▸ to change the value

Press ▪ to confirm (if applicable)



Once all values have been entered, press ▪ to scroll to select TRANSMIT
Press ▸ to start IrDA transmission, and point towards any **ECHO** set in IrDA transceiver mode

Test ECHO

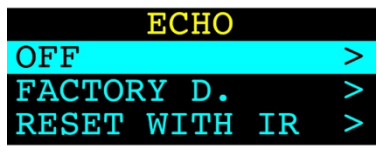
Selecting this option will test the **ECHO Warnings**

Press ▪ to scroll to select TEST
Press ▸ to start IrDA transmission, and point towards any **ECHO** set in IrDA transceiver mode

Turn OFF ECHO

Selecting this option will turn **ECHO** OFF

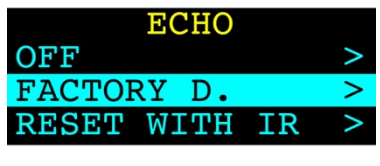
Press ▪ to scroll to select OFF
Press ▸ to start IrDA transmission, and point towards any **ALFA** set in IrDA transceiver mode



Return ECHO to Factory Default settings

Selecting this option will return **ECHO** to Factory Default settings

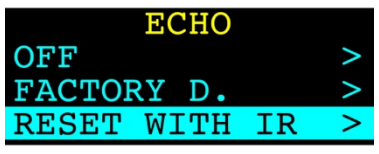
Press ▪ to scroll to select FACTORY D.
Press ▸ to start IrDA transmission, and point towards any **ECHO** set in IrDA transceiver mode



Reset ECHO

Selecting this option will reset **ECHO, with IrDA active**

Press ■ to scroll to select RESET WITH IR
Press ▶ to start IrDA transmission, and point towards any **ECHO** set in IrDA transceiver mode



IR Mode Activation – ALFA and ECHO

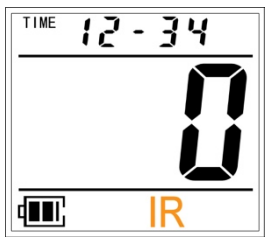
Activate/Deactivate IR Mode on ALFA and ECHO digital altimeters, for communication with **ALTISET II** remote control

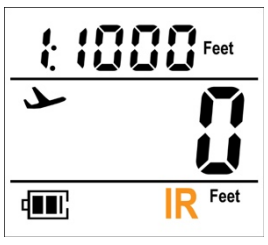
Press and hold ■ for 5 seconds

IR will flash on LCD, and IR mode is active for 2 minutes

*Activate IR Mode on **ALFA / ECHO***
*Activate IR Mode on **ALTISET II***

*Point the **ALTISET II** at the IR port on **ALFA / ECHO***
***ALFA / ECHO** adjusts to the **ALTISET II** preset parameters*





Press ■ to exit IR mode

IR Mode Activation – MIL AltiTrack

Activate/Deactivate IR Mode on MIL AltiTrack digital altimeter, for communication with **ALTISET II** remote control

Press and hold left front button for 5 seconds

OLED displays 'IR ACTIVE' and IR mode is active for 2 minutes

*Activate IR Mode on MIL **AltiTrack***
*Activate IR Mode on **ALTISET II***

*Point the **ALTISET II** at the IR port on the **MIL AltiTrack***
***MIL AltiTrack** adjusts to the **ALTISET II** preset altitude and/or backlight*

Press ■ to exit IR mode

MAINTENANCE

Reset ALTISET II

A reset may be necessary for troubleshooting and firmware verification

Locate the button on the backside of the battery compartment
Use a paper clip or similar to press and release button
Battery system calibrates

The firmware version and battery voltage will be displayed after reset

Battery Change

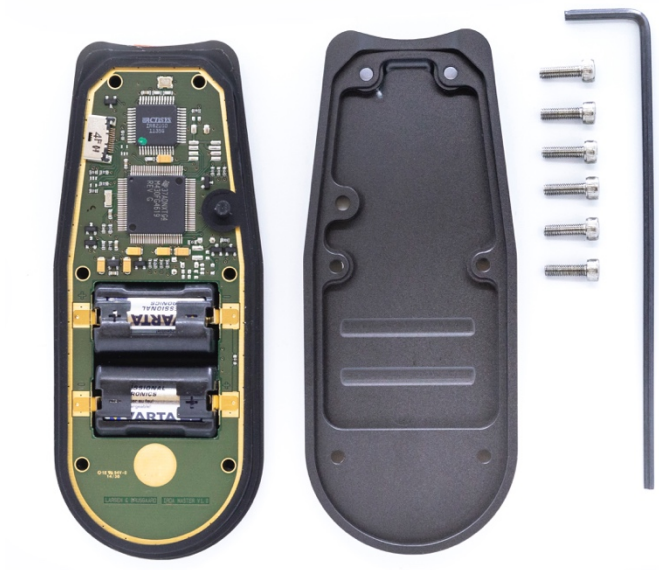
Only use SANYO 2CR-1/3N batteries, or equivalent (2 ea.)

Battery cover screw specs: M3/T6 head (4.5mm length)

Remove the 6 screws and back cover
Remove both batteries by pushing down the battery holder to release
Install 2 new batteries into battery holders
Place battery holders into print from the front, with attention to polarity
Install back cover, and ensure rubber seal is in correct placement
*Place and tighten 6 screws, using a torque screwdriver set **0.4 Nm***

---

*Reset **ALTISET II** after battery replacement*



WARNING: The battery cover and seal must be installed correctly, using correct screws and torque

Trouble Shooting

If the **ALTISET II** detects an issue, an error symbol is shown (ERR) with a number on the OLED screen

*Always restart **ALTISET II** to attempt to remedy a single ERR code*

If the ERR code persists, then also perform battery change

If the **ALTISET II** is still faulty after reset and battery change , it must be serviced by an LB Altimeters Service Center

SPECIFICATIONS

Mechanical:	
Casing:	Rugged, precision machined aircraft aluminum
Screen glass:	Scratch proof lens made of high impact etched glass
Dimensions:	120mm x 50mm x 18mm
Weight:	136g
OLED viewing area:	4.2 cm^2
MIL AltiTrack IrDa compatible:	Yes
ALFA IrDa compatible:	Yes
ECHO IrDa compatible:	Yes
Other:	
IrDa transmission range:	Maximum 30 cm/ 10 inches
Operating altitude:	0 to 40,000 ft. (0 to 12,200 m)
Storing Temperature:	-20C to +70C
Operating Temperature Range:	-35C to +80C continuous operation
Storing Pressure:	200 to 1075 mbar
Maximum allowable humidity:	Up to 99,9% relative humidity
Waterproof:	No
Water resistant:	Yes
Battery type:	2 x SANYO 2CR-1/3N batteries, or equivalent
L&B part no.:	801000
NATO Stock no.	5820-22-616-5040

WARRANTY

The following conditions apply to the **ALTISET II** warranty:

If within 12 months of the purchase of **ALTISET II** 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 **ALTISET II** indemnify the manufacturer and vendor from any liability for damage incurred before, during and after skydiving with the instrument

TACTICAL ALTIMETERS
For download and support visit
www.LBAltimeters.com

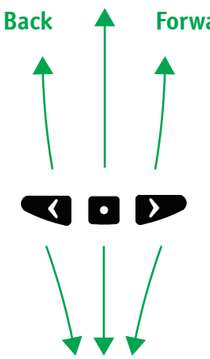
Navigating Menus

AltiSet II is ON

Scroll Menu

Back

Forward



Turn AltiSet II ON

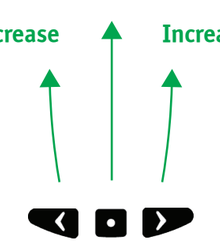
AltiSet II is OFF

Input Values

Confrm Value

Decrease

Increase



SETTINGS menu for ALL units

```
MAIN
ALL          >
ALFA         >
ECHO         >
```

Scroll to ALL using

```
MAIN
ALL          >
ALFA         >
ECHO         >
```

Press ›
to step forward into ALL menu

```
MBAR & BACKLIGHT
MBAR:        1005
BACKLIGHT:    OFF
INTENSITY:      5
```

```
MBAR & BACKLIGHT
TRANSMIT         >
```

Scroll to menu items using

SETTINGS menu for ALFA units

```
MAIN
ALL          >
ALFA         >
ECHO         >
```

Scroll to ALFA using

```
MAIN
ALL          >
ALFA         >
ECHO         >
```

Press ›
to step forward into ALFA menu

```
ALFA
DATE / TIME      >
SETUP            >
OFF              >
```

```
ALFA
FACTORY D.       >
RESET WITH IR    >
```

Scroll to menu items using

SETTINGS menu for ECHO units

```
MAIN
ALL          >
ALFA         >
ECHO         >
```

Scroll to ECHO using

```
MAIN
ALL          >
ALFA         >
ECHO         >
```

Press ›
to step forward into ECHO menu

```
ECHO
WARNINGS         >
SETUP            >
TEST             >
```

```
ECHO
OFF              >
FACTORY D.       >
RESET WITH IR    >
```

Scroll to menu items using

TACTICAL ALTIMETERS