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# **6 IN 1    DIGITAL ALTIMETER & BAROMETER & THERMOMETER & COMPASS & WEATHER FORECAST & TIME INSTRUCTION MANUAL**

## **General Description:**

Ideal and oecumenical for outdoor enthusiasts seeking extreme performance technology, the multifunction digital altimeter is designed to deliver extensive, accurate and vital information with an altimeter, barometer, thermometer, compass, weather forecast and time display.

## **Functions And Technical Specifications:**

### ***Altimeter:***

- -2,296 feets to 29500 fts. range
- Resolution of 1meter or 3 fts.

### ***Barometer:***

- 300mbar to 1100mbar range
- Resolution of 1mbar.
- Sea level pressure manual setting

### ***Weather forecast:***

- The weather forecast for next 12 to 24 hours
- 4 weather status indication, Sunny–Slight sunny–Cloudy–Rain

### ***Electronic Compass:***

- 4-bearing mode display
- external Magnetic field calibration
- High Accuracy of + or - 3 degrees
- Resolution of + or - 1 degree

### ***Thermometer:***

- Thermometer -10 to +60 degree C (°C or °F selectable)
- Resolution of 1 degree

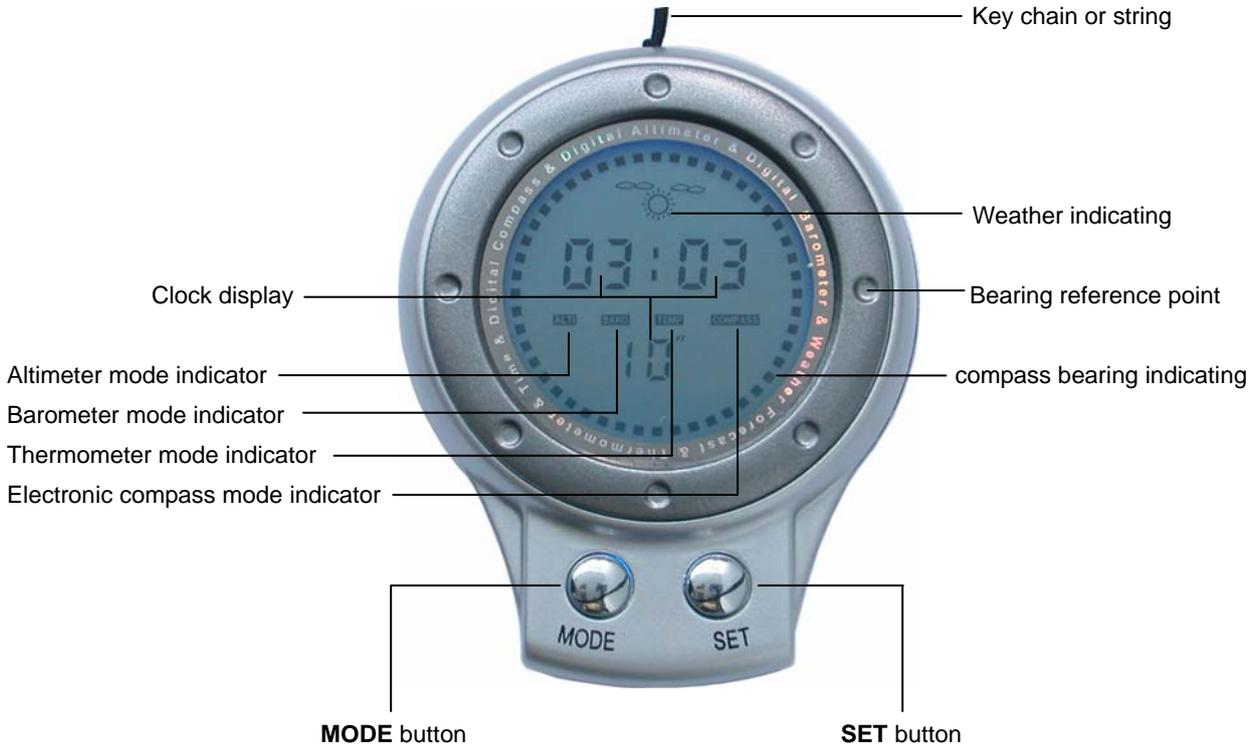
### ***Time:***

- Time with hour, minute, second
- 24hours format clock display

### ***Backlight:***

- 5 seconds super bright LED backlight.

**Instructions:**

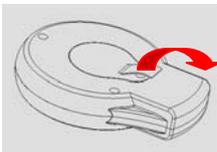


**MODE** button: switch for altimeter, barometer, thermometer, electronic compass and time, long press to enter or exit user setting mode, long press to switch for °C or °F and meter or ft.

**SET** button: the shortcut key of relative altitude measuring mode, lighten backlight, Adjust for time and SEA level pressure, select weather status, setting the Magnetic declination, enable compass calibration mode.

**Use before:**

Please draw out the plastic piece before using the device. The operation should be done according to the steps below.



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## Operation:

### a) Weather forecast and clock mode

This is a default mode of the device. When the device power on, this mode will be displayed, which will display clock and weather forecast. The weather forecast will stay on the slight sunny status. And you can change it by long pressing MODE button to enter into USER SETTING MODE (Please refer to the operation in f))



### b) Altimeter mode

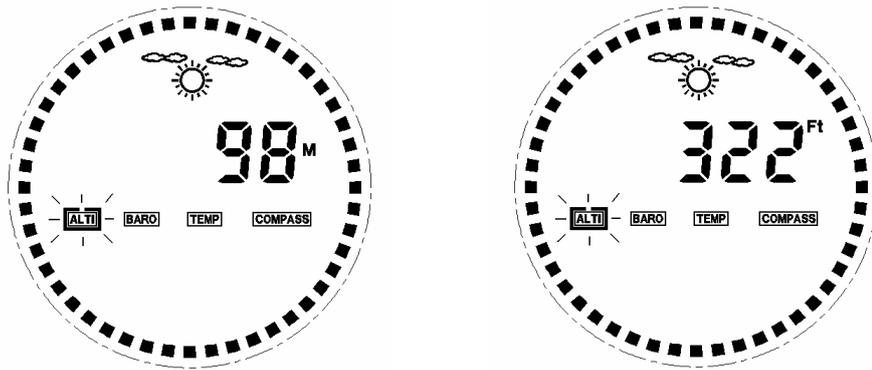
Under this mode, besides displaying the altitude information, it also displays the weather forecast. And the icon which indicates the altimeter mode will glitter. The altimeter has a working range from -2,296 feet to 29,500 feet and resolution of 1 meter or 3 feet. The altitude will display in unit of meter, and you can switch for feet or meter by long pressing MODE button under this mode. Press SET button to return to the default mode.

**Attention:** you can enter into this mode by short pressing MODE button or SET button, but the mode which enter into is two kinds of status different by short pressing MODE button and SET button.

When you enter into this mode by pressing MODE button, it is a measure mode of the absolute altitude. To obtain better accuracy, the altitude information have avoided the effect of wavy atmosphere to get, so it can't respond the change of atmospheric pressure quickly, and it also can't show the change of altitude at once either. If you want to get the altitude information of place where you are at once, it needs a long time to avoid the effect of atmosphere. But you can correct it to fit for the current pressure manual by long pressing MODE button when the device is under barometer mode.

In addition, you can obtain accurate absolute altitude by setting the SEA level pressure, you can get the information of sea level pressure where you are from broadcasting station, TV or newspaper. The sea level pressure setting refers to operation in f).

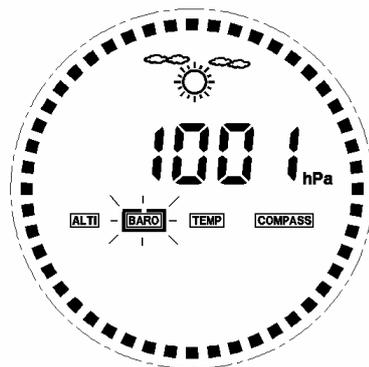
If you want to obtain the altitude information of place where you are at once, you can enter into this mode by short pressing SET button when the device is under the default mode. The altimeter will measure at once, whenever you short press the MODE button. But you can only enter into this measure status by short pressing SET button when the device is under the default mode. This status is measuring relative altitude conformable.



### c) Barometer mode

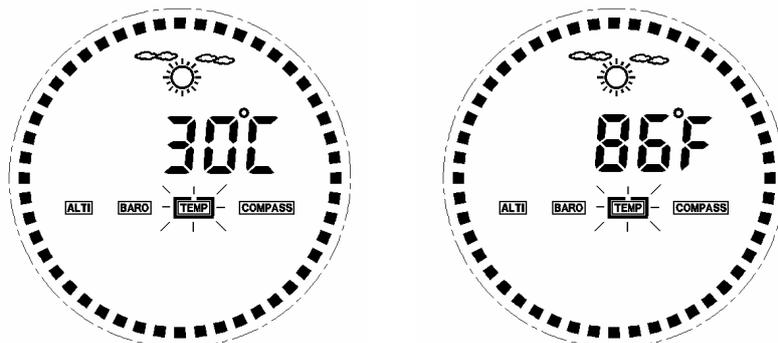
You can enter into this mode by short pressing MODE button, and exit this mode by short pressing SET button. Under this mode, it will display the atmospheric pressure information and the weather forecast. The icon which indicates the barometer mode will glitter. The barometer has a working range from 300mbar to 1100mbar and resolution of 1mbar.

In addition, to measure the absolute altitude where you are at once, and you can long press MODE button to sample air pressure under this mode. And the device will switch into the altimeter mode automatically.



### d) Thermometer mode

You can enter into this mode by short pressing MODE button, and exit this mode by short pressing SET button. Under this mode, it will display the air temperature information and the weather forecast. The icon which indicates the thermometer mode will glitter. The thermometer has a working range from -10 to +60 degree C and resolution of 1degree. and you can switch for °C or °F by long pressing MODE button.



**e) Electronic compass mode**

You can enter into this mode by short pressing MODE button. Under this mode, it will display these information of compass bearing, angle, 4-bearing, indicating point and the weather forecast. The icon which indicates the electronic compass mode will glitter. The 4-bearing, indicating point shows the four bearing of East, south, west, and north deasil, and the three points show to indicate the north.

**Attention: the electronic compass had been calibrated before leaving factory, but for getting a better accuracy during using, you must calibrate the compass again under the USER SETTING MODE(Please refer to the operation in f)).**



**f) User setting mode**

you can enter into this mode by long pressing MODE button when the device is under the default mode. It will have a circle of time setting, sea level pressure setting, weather forecast setting, magnetic declination setting and electronic compass calibration by short pressing MODE button. Finally you can let it automatically return to the default mode after 20 seconds without pressing any key, or I press MODE button to return when the device is under the time setting status.

**1. Time setting:** The hour and minute will flash when it is selected, you can set it by short pressing SET button.



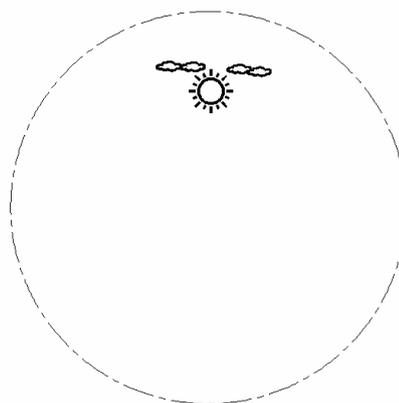
**2. Sea level pressure setting:** you can switch to the figures by short pressing MODE button, and also set the figures by short pressing SET button.



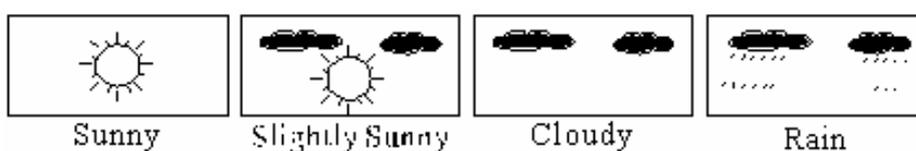
### 3. weather forecast setting:

3.1 You can enter into this setting by long pressing MODE button.

3.2 When the weather indicator is showed, press SET button to change the weather indicator in this order: Sunny–Slight sunny–Cloudy–Rain



When the device power on, the weather indicator will show the slight sunny automatically. For getting a better result of weather forecast indicator, and you can choose the suitable indicator according to the current weather condition.

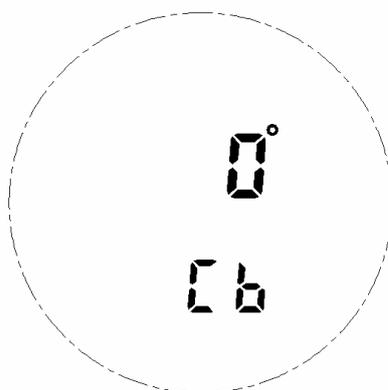


#### Attention:

1. Do not set the weather indicator when it is raining.
2. Do not set the weather indicator in nighttime.
3. The accuracy of a general pressure-based weather forecast is about 70% to 75%, and therefore, cannot be responsible for any inconvenience caused by a fault data.
4. The weather forecast is meant for next 12 to 24 hours. It may not reflect the current situation.

**4. Magnetic declination setting:** you can enter into this setting by long pressing MODE button.

When the LCD displays "Cb", press SET button to set the magnetic declination, it will be cycled from "00" to "30", and from "-30" to "00", please set it according to the magnetic declination of place where you are, press MODE button to complete setting.

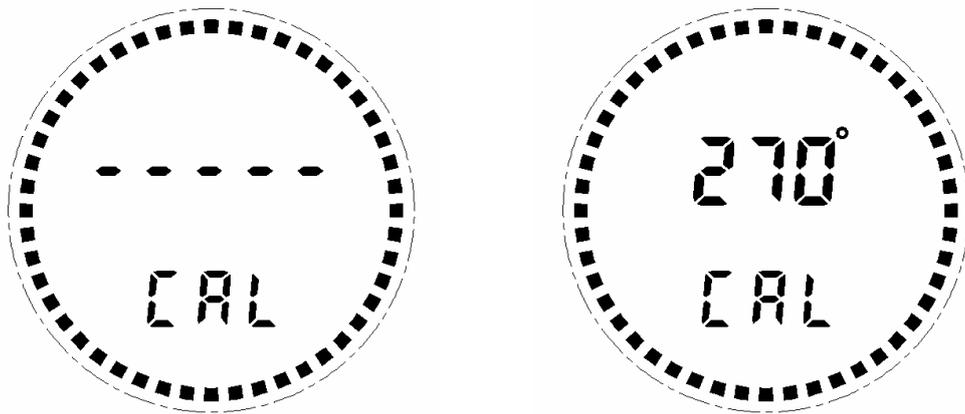


**5. Electronic compass calibration:** This electronic compass function of the device had been calibrated before leaving factory. But if the electronic compass has been used for a long time, or has been replaced a new battery, and because the effect of external magnetic field made the accuracy bad. So for getting a better accuracy, you must calibration again.

5.1 You can enter into this electronic compass calibration status by long pressing MODE button. And the LCD will display "CAL" to indicate the calibration status.

5.2 At this time, you can begin calibrating by short pressing SET button. During calibrating, the direction point of ext-circle will turn anticlockwise on the LCD, also it displays the compass angle and "CAL" icon.

5.3 During calibrating, place the digital compass on the flat of your hand with the face pointed upwards. Keep you hand parallel to the ground and turn the compass very slowly (It is probably easier to turn your body rather than your hand). The device will change into the electronic compass mode automatically after completing calibration. If not, you must do it repeatedly until the device return to the electronic compass mode automatically.



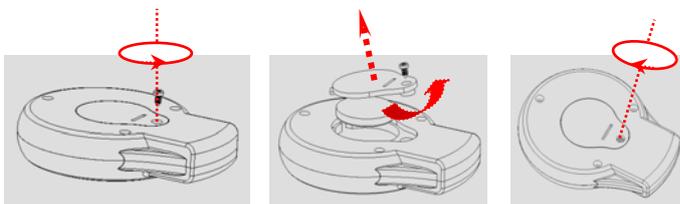
#### g) Backlight Operation

You can lighten the backlight by long pressing SET button. The backlight will be lighted for 5 seconds, then it will be closed automatically for saving power.

#### h) Low Battery Indicator

When the battery does not have enough power to operate the device, the low battery indicator "🔋" will appear to remind you to place a new battery.

**Replace with new battery according to these icons as follows:**



#### Precautions:

1. The device is not designed as a commercial navigation device.
2. Never place the device near magnetic field equipment.
3. Keep away your digital compass from much moisture and humidity situation. Avoid direct water exposure.
4. Use this device within temperature range(-10° to 60°C).
5. Always place the device horizontally when using electronic compass.