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Thank you for purchasing **CANYON CNS-SW9**, a multi-functional watch device with digital compass function developed from advanced sensor technology. You have made an excellent choice and we hope you will enjoy all of its exciting features. To fully utilize the functions and features of **CANYON CNS-SW9**, please read through the user manual carefully before using the product, and follow all of the procedures in the manual to fully enjoy all features of the product.

Introduction

Safety Precautions

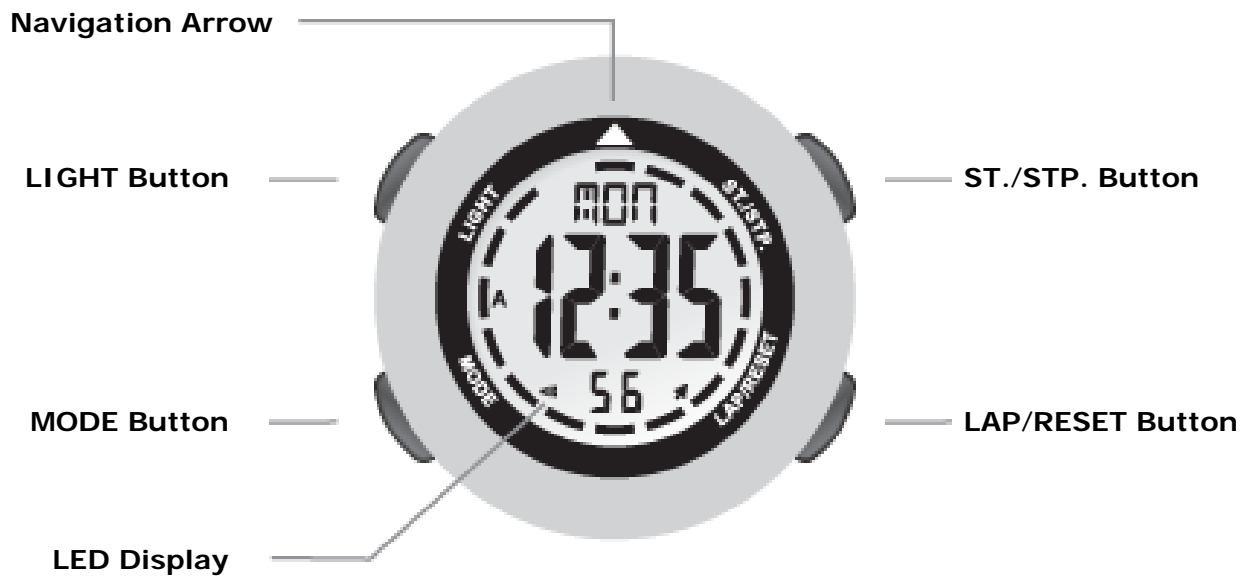
Please observe all safety precautions before using the device. Please follow all procedures outlined in this manual to properly operate the device. The device and its accessory, like most electronic or magnetic devices, may be at interference with pacemaker. Please consult doctor or other professionals before using the product.

- Do NOT attempt to disassemble or alter any part of the device that is not described in this guide.
- Do NOT place the device near a heat source or directly expose it to flame.
- Never place the device in vicinity of equipments generating strong electromagnetic fields. Exposure to strong magnetic fields may cause malfunctions.
- Avoid exposing the device to extreme temperatures or chemicals such as gasoline and alcohol.
- Avoid strong impacts for it will damage the device permanently.
- Store device and its accessory at a dry and well ventilated location when they are not in use.

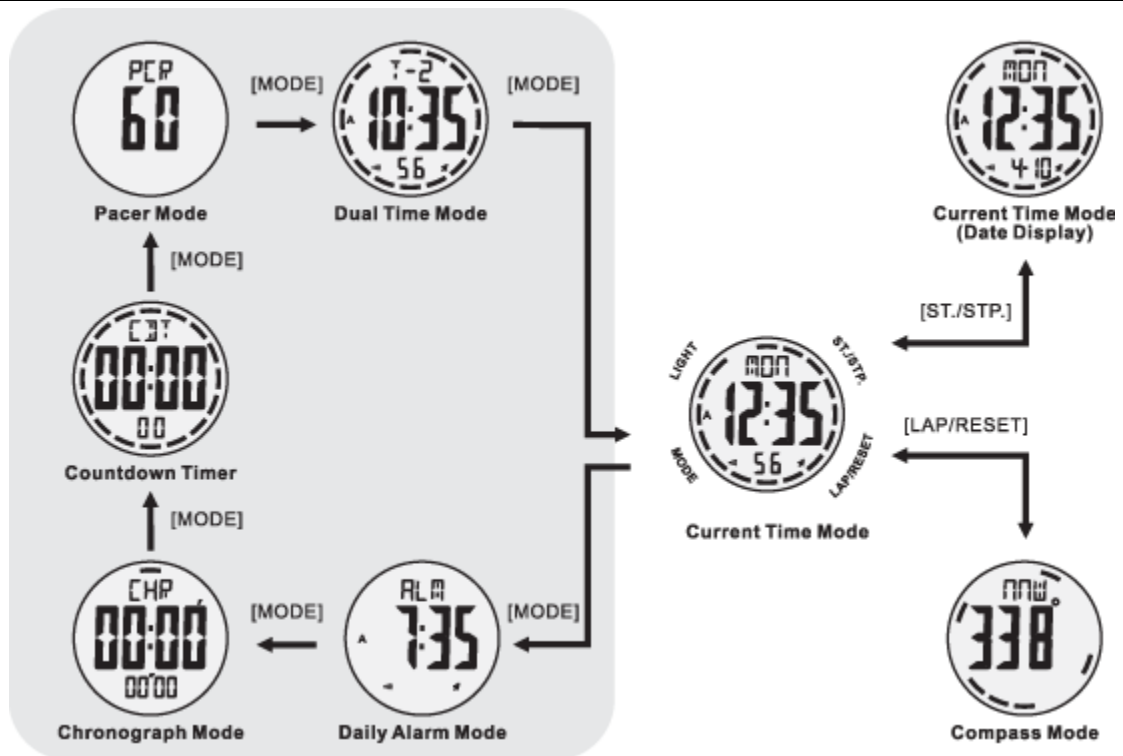
Package Contents

Product Image	Item Name
	CANYON CNS-SW9 Main Unit
	Quick Guide
	Documentation CD

Device Overview

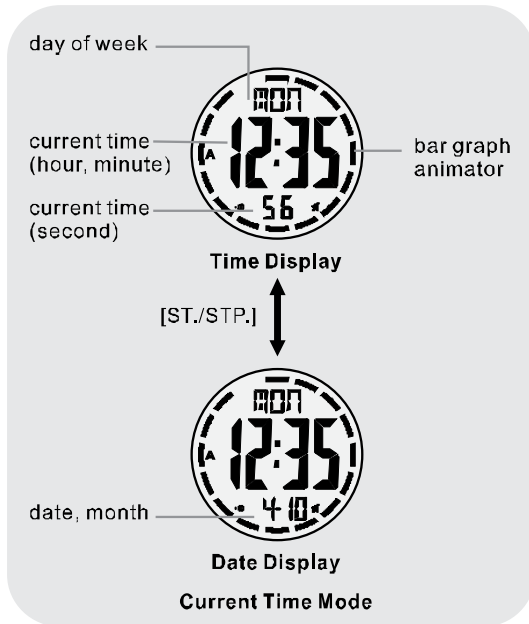


Basic Operation

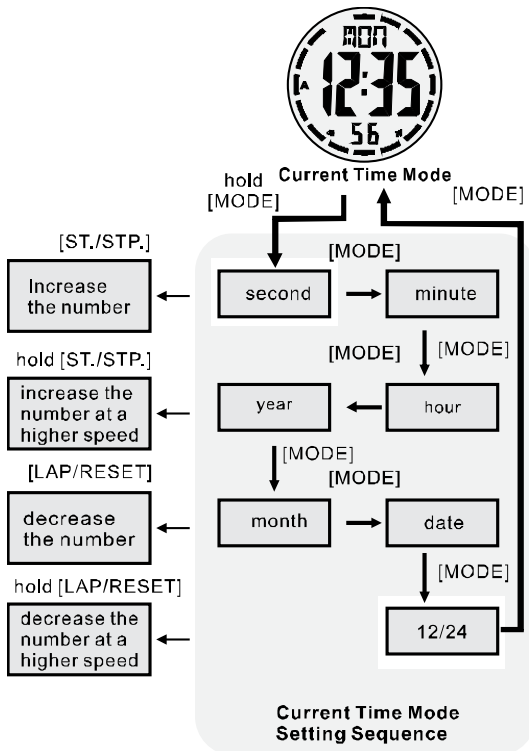


CANYON CNS-SW9 is a multi-functional watch device that contains 7 functional modes including Current Time Mode, Daily Alarm Mode, Chronograph Mode, Countdown Timer Mode, Pacer Mode and Dual Time Mode. Press **[MODE]** to cycle through 6 functional modes and **[LAP/RESET]** to activate Compass Mode as shown above.

Current Time Mode

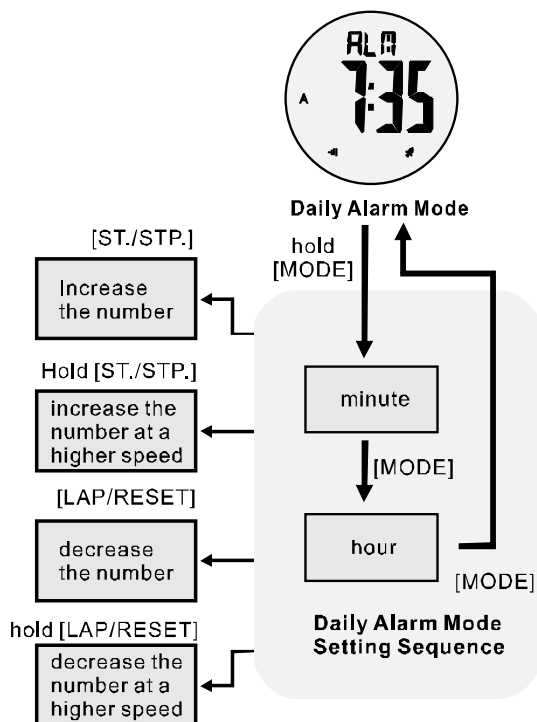
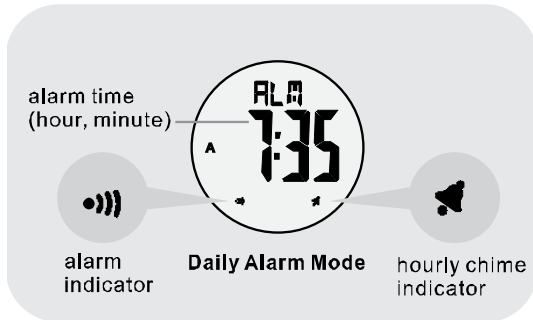




- Press **[ST./STP.]** to toggle between Time Display and Date Display.
- Press and hold **[ST./STP.]** at Date Display to switch date format between Month-Date and Date-Month.



- Press and hold **[MODE]** for 2 seconds to enter Settings Mode.
- Press **[MODE]** to shift through different digits and settings. Press **[ST./STP.]** and **[LAP/RESET]** to adjust values.
- Press **[MODE]** after 12/24 hour format settings to save modified settings and exit Settings Mode.

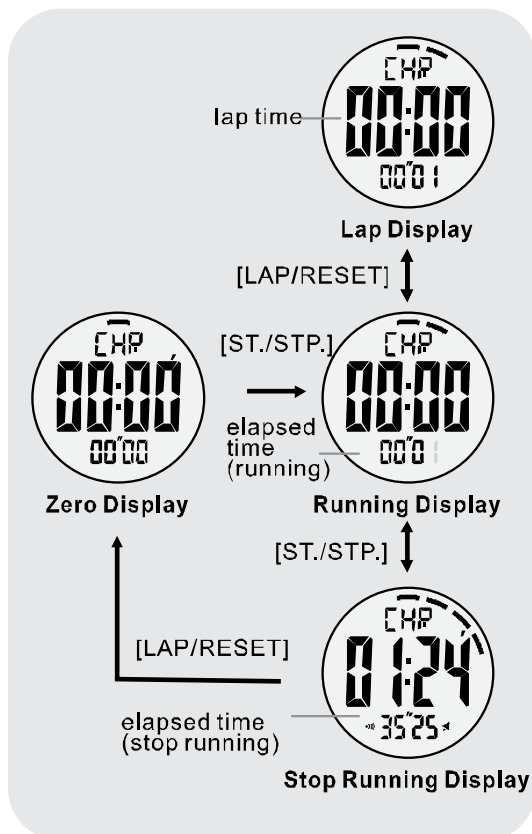
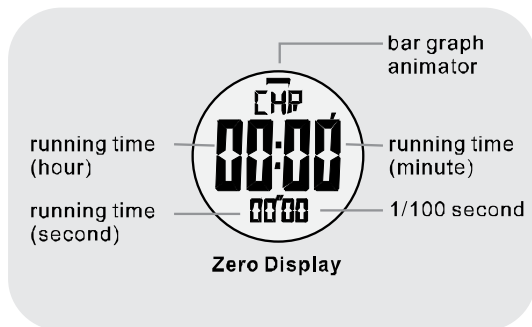
Daily Alarm Mode



- Press **[ST./STP.]** to switch daily alarm on/off. A daily alarm indicator  will be displayed on the screen. The alarm will ring continuously for 30 seconds.
- Press **[LAP/RESET]** to switch hourly chime on/off. An hourly chime indicator  will be displayed on the screen.

- Press and hold **[MODE]** for 2 seconds to enter daily alarm setting.
- Press **[MODE]** to switch between hour and minute digits. Press **[ST./STP.]** and **[LAP/RESET]** to adjust values.
- Press **[MODE]** after the hour settings to save modified settings and exit Settings Mode.

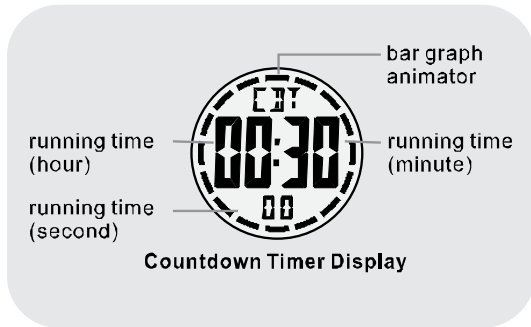
Chronograph Mode



- Upon entering, the Chronograph Mode indicator **CHR** will be displayed at the top of screen.
- The device measures elapsed time and current split time.

- Press **[ST./STP.]** to start counting. Press the button again to stop counting and the elapsed time will be displayed on the screen. Press the button the third time to resume counting.
- Press **[LAP/RESET]** while counting to display current split time and press the button again to display current counting.
- Press and hold **[LAP/RESET]** for 2 seconds to reset counter.

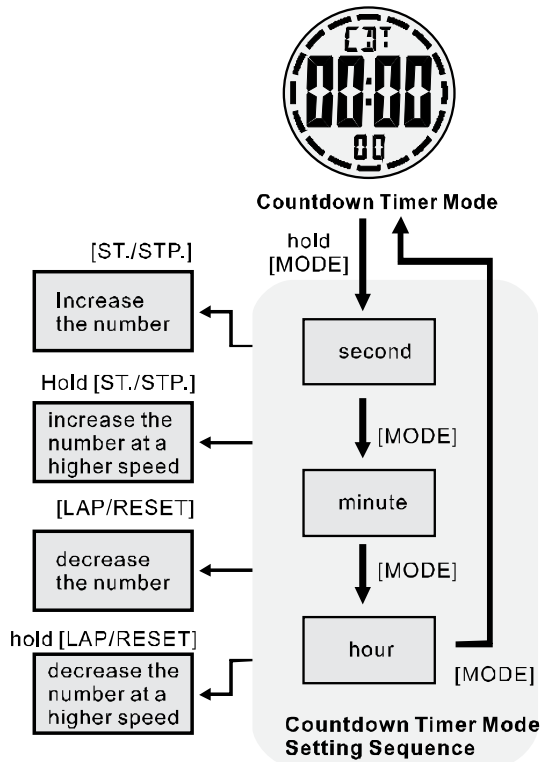
Countdown Timer Mode



- Upon entering, the Countdown Timer Mode indicator **CDT** will be displayed at the top of screen.
- Press **[ST./STP.]** to start countdown. The residual time will be displayed on the screen.
- Press **[ST./STP.]** during countdown to pause. Press the button again to resume countdown.
- Press **[LAP/RESET]** to reset countdown timer to target time.

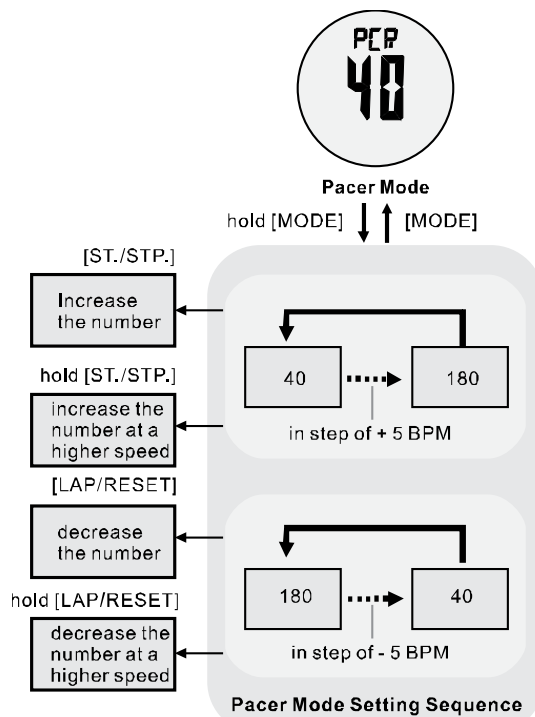
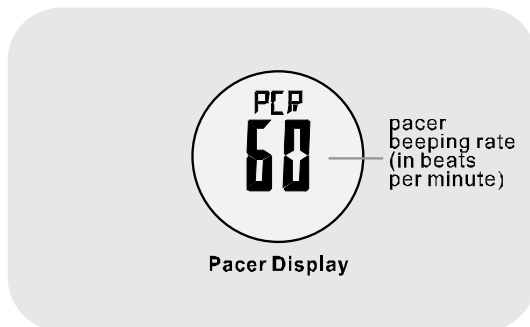
NOTE:

The device will beep once per second when the timer reaches last 5 seconds. It will also beep for another 10 second when timer reaches target time.



- Press and hold **[MODE]** for 2 seconds to enter target time setting.
- Press **[MODE]** to switch between hour, minute, and second digits. Press **[ST./STP.]** and **[LAP/RESET]** to adjust values.
- Press **[MODE]** after the hour settings to save modified settings and exit Settings Mode.

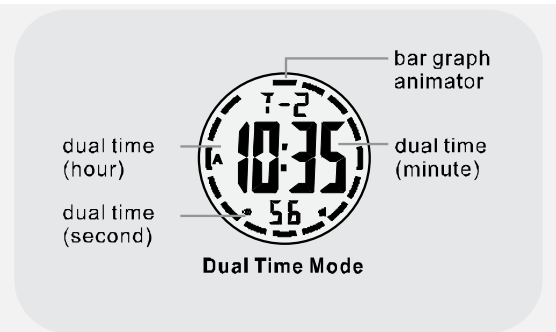
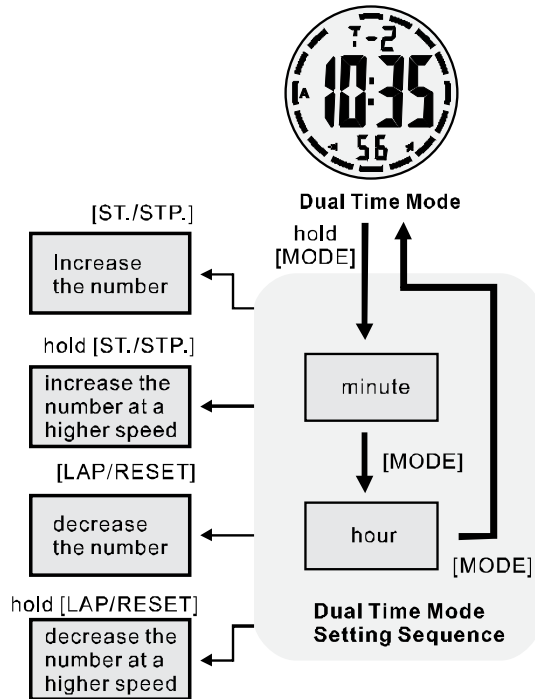
Pacer Mode



- Upon entering, the Pacer Mode indicator **PCR** will be displayed at the top of screen.
- Press **[ST./STP.]** to generate beeps at a pre-defined pacer rate. Press the button again to stop.

- Press and hold **[MODE]** for 2 seconds to enter target time setting.
- Press **[ST./STP.]** and **[LAP/RESET]** to adjust values.
- Press **[MODE]** again to save modified settings and exit Settings Mode.

Dual Time Mode

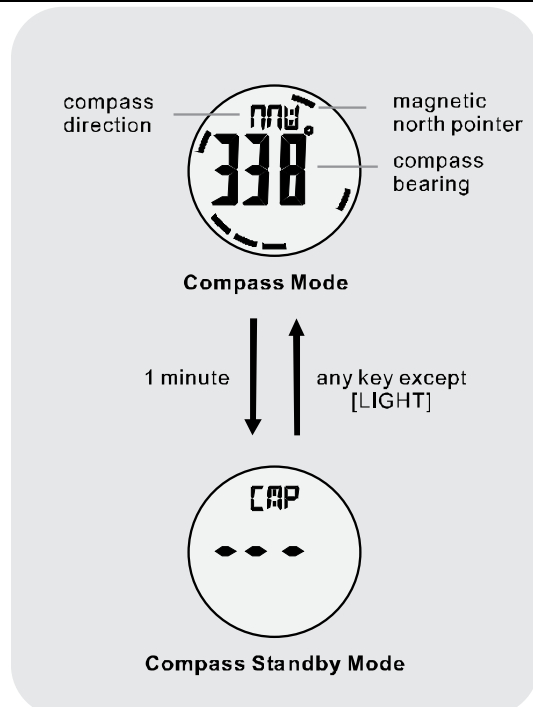


- Press and hold **[MODE]** for 2 seconds to enter Settings Mode.
- Press **[MODE]** to shift through different digits and settings. Press **[ST./STP.]** and **[LAP/RESET]** to adjust values.
- Press **[MODE]** after 12/24 hour format settings to save modified settings and exit Settings Mode.

Compass Function

Precautions:

- Please keep the device away from all magnets or appliances that generate magnetic fields such as mobile phones, speakers, motors, etc.
- The device, like most magnetic compass, points to the magnetic North which is slightly different from the true North. Please refer to section below for more details.
- Please perform compass calibration under the following conditions:
 1. Using the device for the first time.
 2. When the magnetic distortion icon **DIST** indicator is flashing.
 3. After battery replacement.
 4. When the device was calibrated at a distanced location.
- To acquire a more accurate measurement, please avoid using the device under the following conditions:
 1. When the device is in vicinity of magnets or magnetized objects.
 2. When the device is in vicinity of electrical appliances.
 3. When the device is inside a moving object or a reinforced concrete building.

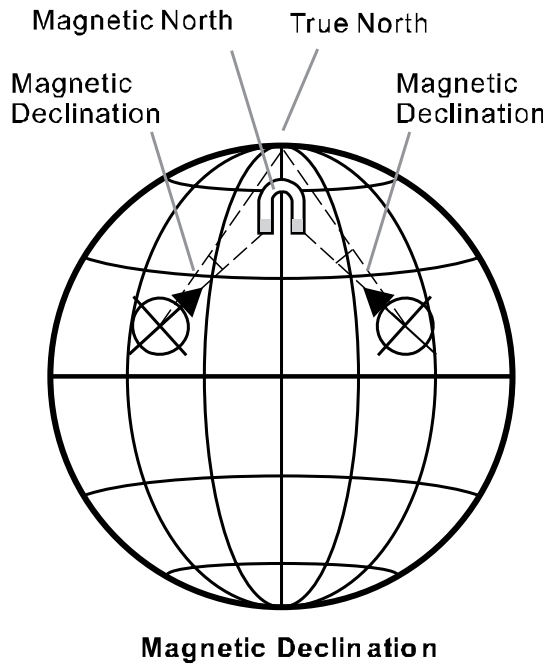


- Press **[LAP/RESET]** to enter compass mode.
- The device provides magnetic directions, compass bearing, and magnetic North pole direction.
- The Compass Mode enters Standby Mode to extend device battery life if no action is performed for more than 1 minute. Press any button except **[Light]** to resume normal operation.

NOTE:

1. The Magnetic North Pole is slightly different from the True North Pole. The device, like most magnetic compass, points to the Magnetic North Pole while directions on maps are measured in accordance to True North Pole.

- The angular difference between Magnetic North Pole and True North Pole is called *magnetic declination*. Its magnitude (in units of degrees and minutes) and direction (East or West) are dependent on the location of device.
- For users who intend to perform accurate navigations, device must be adjusted to compensate magnetic declination. Please refer to following section Compass Calibration for more details.



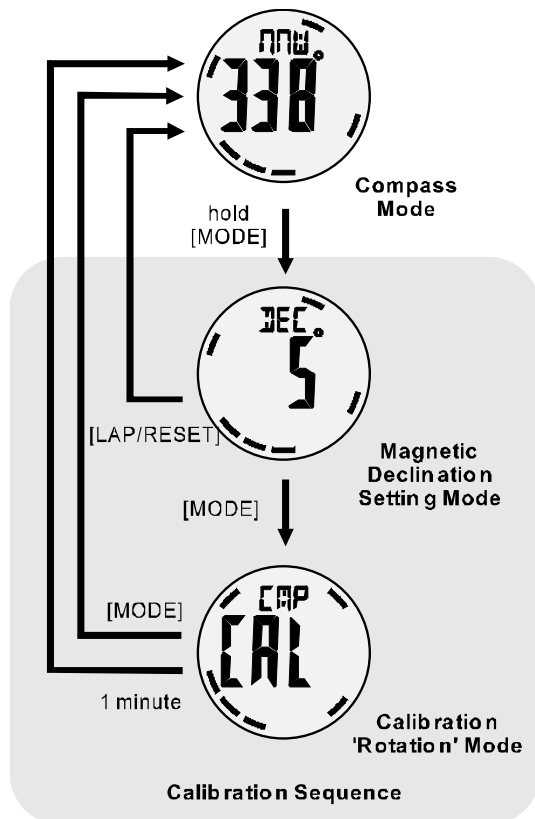
Magnetic Declination:

- Most topographic maps display Magnetic North Pole or information about *magnetic declination*. Please refer to chart below for information about *magnetic declination* at major cities.
- Please refer to below websites for those cities not included in the chart:

http://www.geolab.nrcan.gc.ca/geomag/mirp_e.shtml

<http://www.ngdc.noaa.gov/seg/geomag/declination.shtml>

No.	Country/Place	Major City	Declination	No.	Country/Place	Major City	Declination
1	Afghanistan	Kabul	2-E	33	Netherlands	Amsterdam	1-W
2	Australia	Canberra	12-E	34	New Zealand	Wellington	22-E
3	Austria	Vienna	2-E	35	Norway	Oslo	0
4	Bahrain	Manama	2-E	36	Pakistan	Islamabad	2-E
5	Bangladesh	Dhaka	0	37	Philippines	Manila	1-W
6	Belgium	Brussels	1-W	38	Portugal	Lisbon	5-W
7	Brazil	Brasilia	19-W	39	Russia	Moscow	9-E
8	Canada	Ottawa	14-W	40	Singapore	Singapore	0
9	Chile	Santiago	5-E	41	South Africa	Cape Town	23-W
10	China	Beijing	6-W	42	Spain	Madrid	3-W
11	China	Hong Kong	2-W	43	Sweden	Stockholm	3-E
12	Costa Rica	San Jose	0	44	Switzerland	Bern	0
13	Cuba	Havana	3-W	45	Taiwan	Tai-pei	3-W
14	Czech Republic	Prague	2-E	46	Thailand	Bangkok	0
15	Denmark	Copenhagen	1-E	47	UAE	Abu Dhabi	1-E
16	Egypt	Cairo	3-E	48	United Kingdom	London	3-W
17	Finland	Helsinki	6-E	49	United States	Washington, DC	10-W
18	France	Paris	1-W	50		Juneau	25-E
19	Germany	Berlin	1-E	51		Phoenix	12-E
20	Greece	Athens	3-E	52		Little Rock	2-E
21	Hungary	Budapest	4-E	53		Sacramento	16-E
22	India	New Delhi	1-E	54		Denver	10-E
23	Indonesia	Jakarta	1-E	55		Atlanta	4-W
24	Israel	Jerusalem	3-E	56		Honolulu	10-E
25	Italy	Rome	1-E	57		Boston	16-W
26	Japan	Tokyo	7-W	58		Saint Paul	2-E
27	Jordan	Amman	3-E	59		Jackson	1-E
28	Kenya	Nairobi	1-E	60		Santa Fe	10-E
29	Korea	Seoul	7-W	61		Oklahoma City	6-E
30	Malaysia	Kuala Lumpur	1-E	62		Salem	18-E
31	Mexico	Mexico City	6-E	63		Harrisburg	11-W
32	Nepal	Kathmandu	0	64		Salt Lake City	14-E

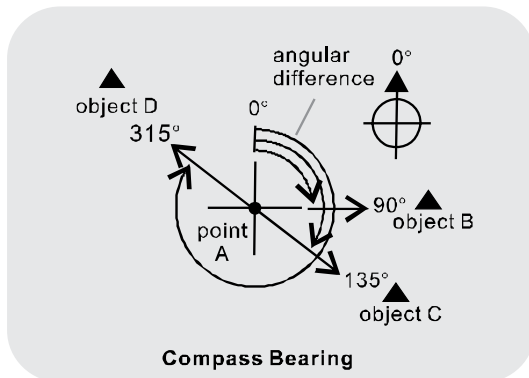
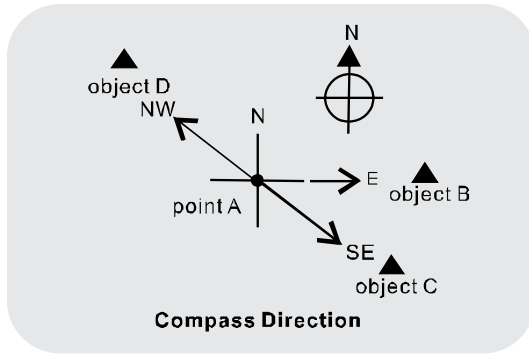


NOTE:

Please observe **Precautions** section and check up magnetic declination values from chart above or websites provided before perform compass calibration.

- To calibrate compass function, press and hold **[MODE]** for 2 seconds to enter compass calibration settings.
- Upon entering, the magnetic declination indicator **DEC** will be displayed at the top of screen.
- Press **[ST./STP.]** to adjust magnetic declination value (from -90 to 90). Press **[MODE]** to continue settings.

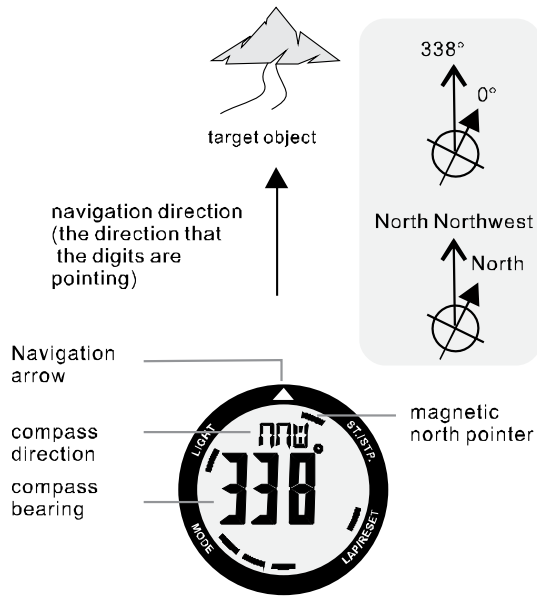
- Upon entering, the rotation indicator **CAL** will be displayed at the top of screen.
- Place the device on a flat surface or parallel to horizon, then rotate the device counterclockwise 2 times while keeping the north pole pointer towards the same direction during rotation.
- Press **[MODE]** to save modified settings and exit Settings Mode.



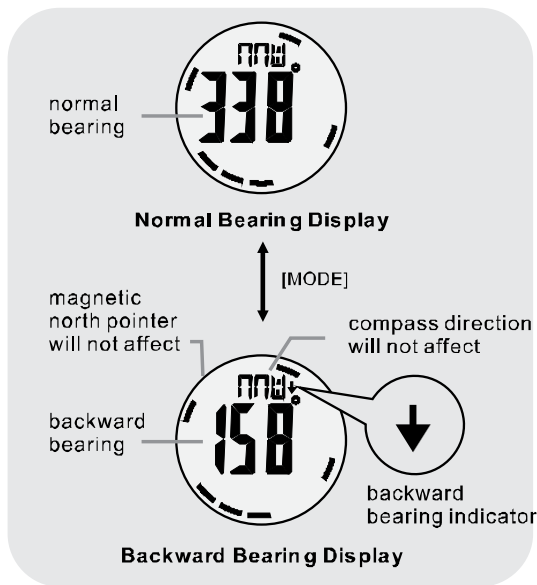
The direction of an object can be represented in term of either compass direction or compass bearing.

- The compass directions are North, Northeast, East, Southeast, South, Southwest, West, and Northwest.
- The compass bearing direction of an object is defined as the angular difference between North and the object while assuming 0° being North and measuring range from 0° to 359°.
- Please refer to below table to convert between compass direction and compass bearing.

Marks	Compass Direction	Compass Bearing
N	North	348.75° to 11.25°
NNE	North Northeast	11.25° to 33.75°
NE	Northeast	33.75° to 56.25°
ENE	East Northeast	56.25° to 78.75°
E	East	78.75° to 101.25°
ESE	East Southeast	101.25° to 123.75°
SE	Southeast	123.75° to 146.25°
SSE	South Southeast	146.25° to 168.75°
S	South	168.75° to 191.25°
SSW	South Southwest	191.25° to 213.75°
SW	Southwest	213.75° to 236.25°
WSW	West Southwest	236.25° to 258.75°
W	West	258.75° to 281.25°
WNW	West Northwest	281.25° to 303.75°
NW	Northwest	303.75° to 326.25°
NNW	North Northwest	326.25° to 348.75°



Measure Compass Directions



To take a compass measurement:

NOTE:

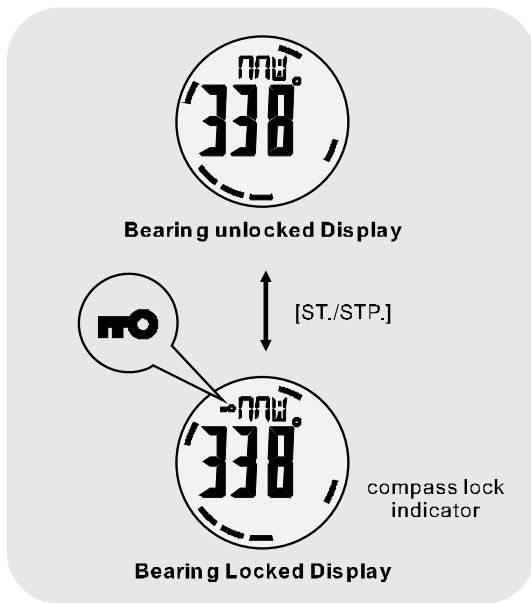
Please make sure that the device is parallel to horizon to acquire the most accurate measurement.

- Turn the device until the navigation arrow is pointing at the direction of desired object for measurement.
- Press **[LAP/RESET]** to enter Compass mode and to display corresponding compass direction and compass bearing.
- The bar graph pointer will be pointing at the direction of magnetic North.
- Press **[MODE]** to toggle display of normal/backward bearing directions of current object.
- The backward bearing indicator ↓ will be displayed at the top of screen.

NOTE:

During backward bearing compass display, the magnetic North pointer and the compass direction will maintain forward readings.

- The backward bearing will return to normal bearing automatically once the device enters standby mode or manually switched back to Current Time Mode.



- Press **[ST./STP.]** to fix/release current compass readings.
- The compass lock indicator **🔑** will be displayed at the top of screen.
- The compass lock will be released automatically once the device enters standby mode or manually switched back to Current Time Mode.