

▲
NORTH EDGE
GAVIA

Manual | 说明书



Manual

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1.Introduction

GAVIA watch incorporate altimeter, barometer, compass, pedometer, temperature gauge, log recorder, clock, calendar, stopwatch and diving etc. This user guide describes main functions, working method, operation method and some application living example. Every chapter describes one mode with LCD display drawing. Setting method and using method are also described in it. You can enjoy the outdoor sport.

2.Features

- Time function: hour/minute/second, year (2019-2099)/ month/date/week, two time modes to switch
- Alarm clock reminding function
- World time and daylight saving time setting
- Countdown function (99 hours59minutes59 seconds-0)
- Stopwatch function (0-99:59:59:9), Max record 50 sets of data
- Pedometer, speed measurement, distance record, record calorie
- Compass, height, air pressure, temperature, air pressure change trend
- 24-hour air pressure changing curve and sea level air pressure
- Check sports relative height
- Diving function, water depth, water temperature, depth alarm function
- Max diving depth 50 meters(165Ft)
- 200 ATM waterproof
- Digital compass, 16 direction display
- Low battery reminding function
- EL backlight
- Sleep function

3.Start.

Button definition :

A. Altimeter /up/start/stop

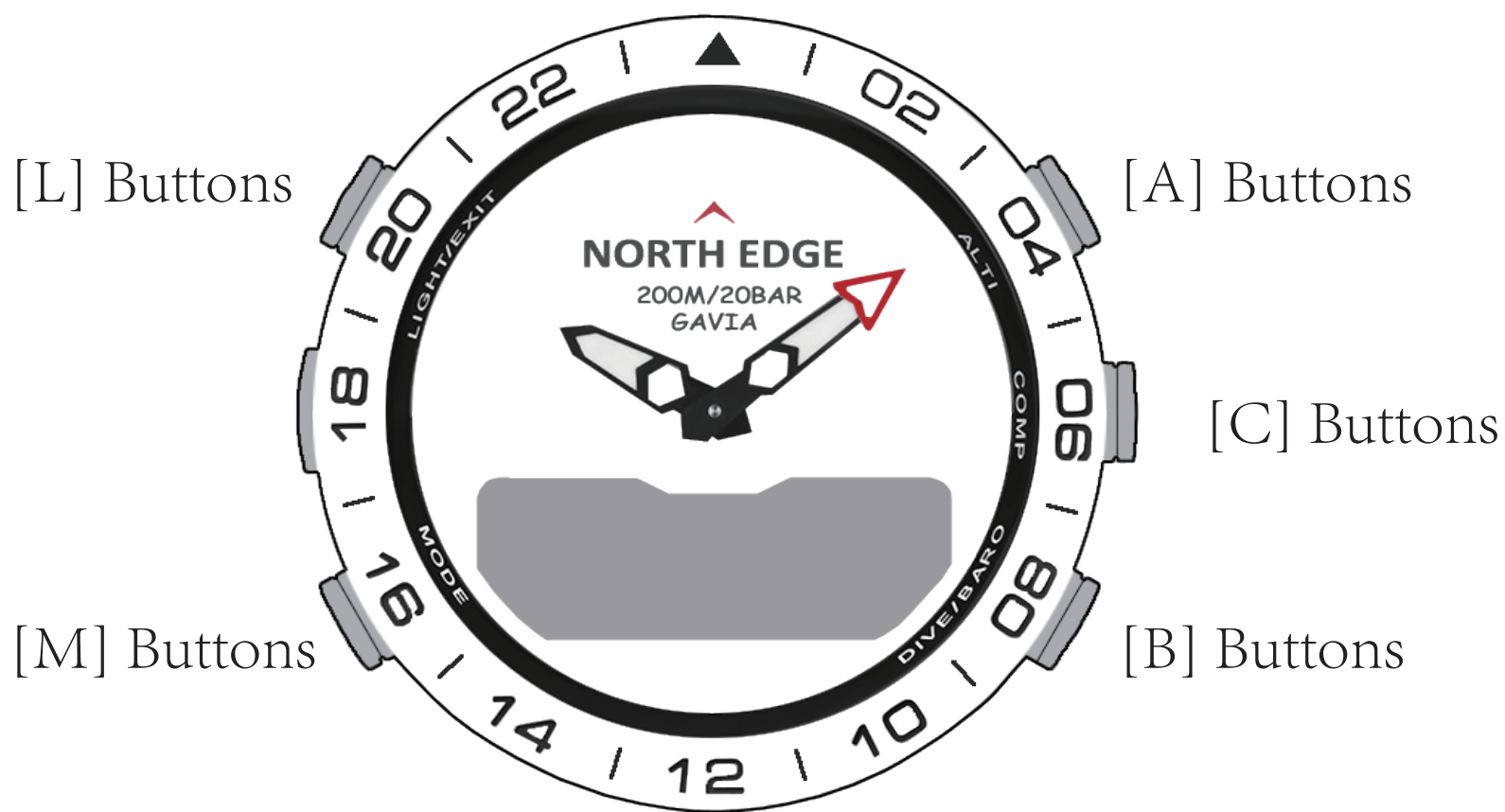
B. Barometer/diving/down/Reset/switch, compass calibration

C. Compass measurement

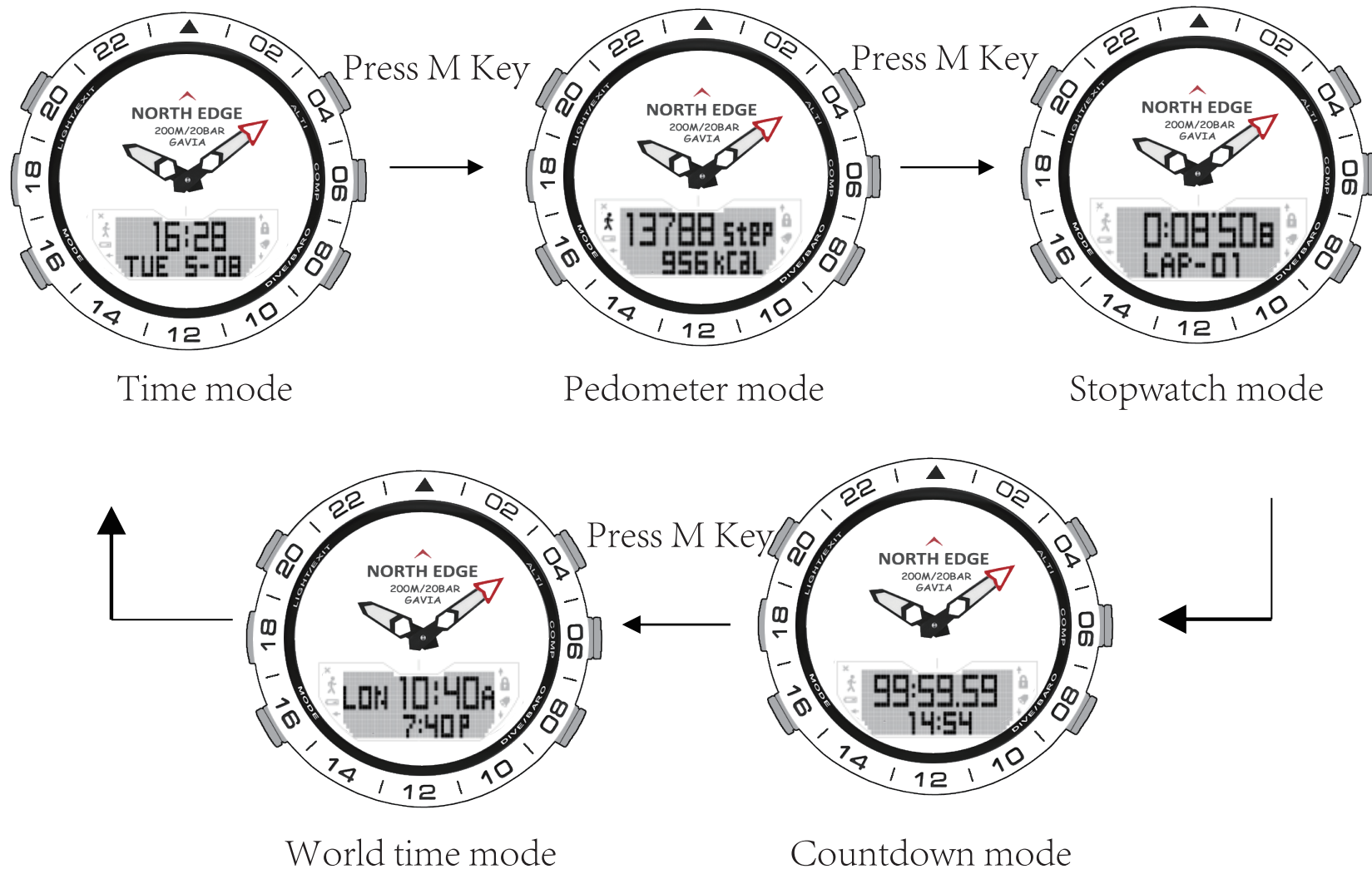
M. Time/setting/confirm/history

L. Backlight/lock/return

Sleep mode: under time mode, long press [L] and [B] to enter into the sleep mode, awake sleep mode by pressing any button.

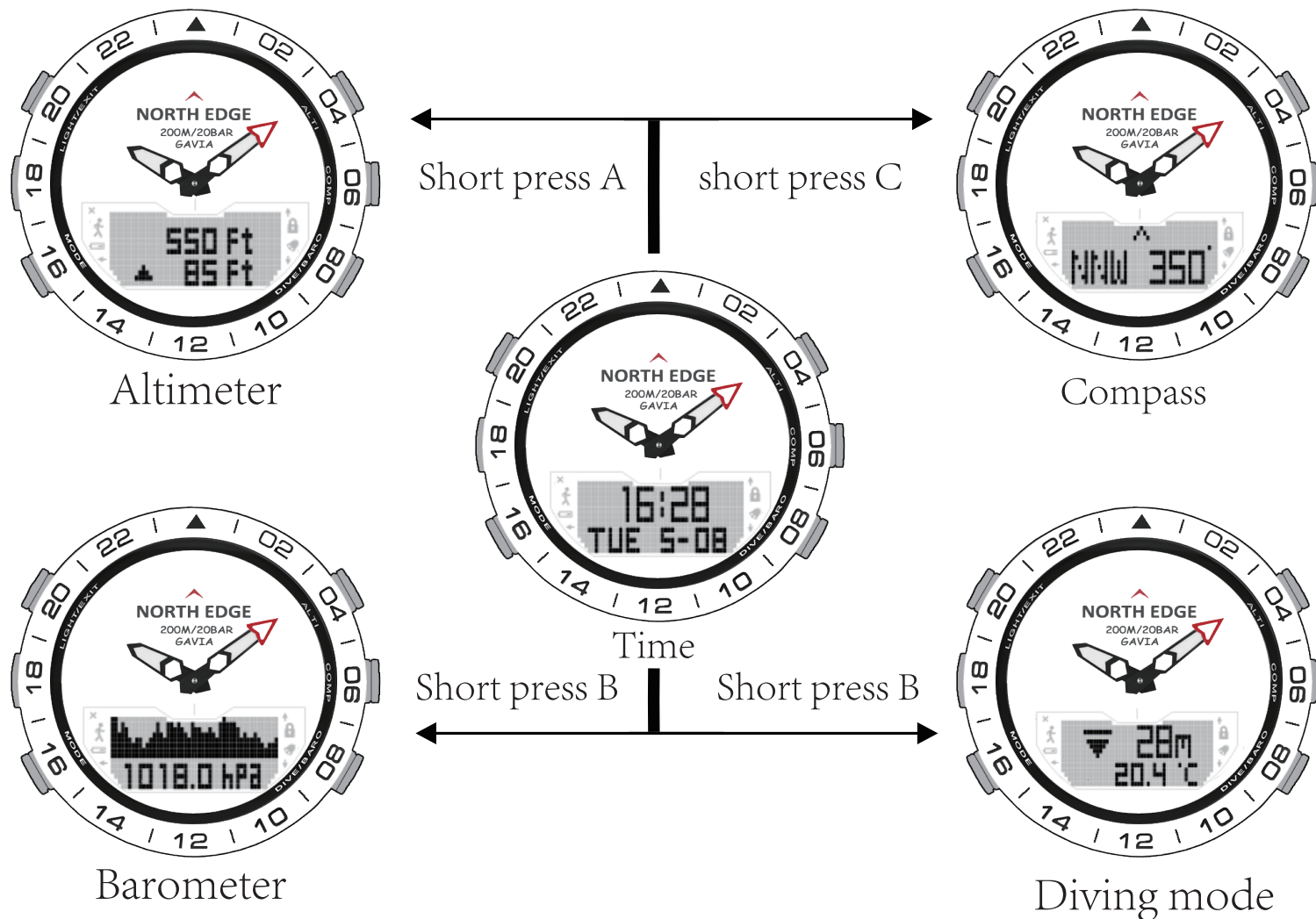


4. Function mode LCD display



Under time mode, short press [M] button to enter into pedometer, stopwatch, countdown mode and world time mode.

Under time mode, short press [A] to enter into altimeter mode, short press [C] to enter into compass mode; short press [B] to enter into air pressure mode, long press [B] to enter into diving mode; press [M] to return time mode.

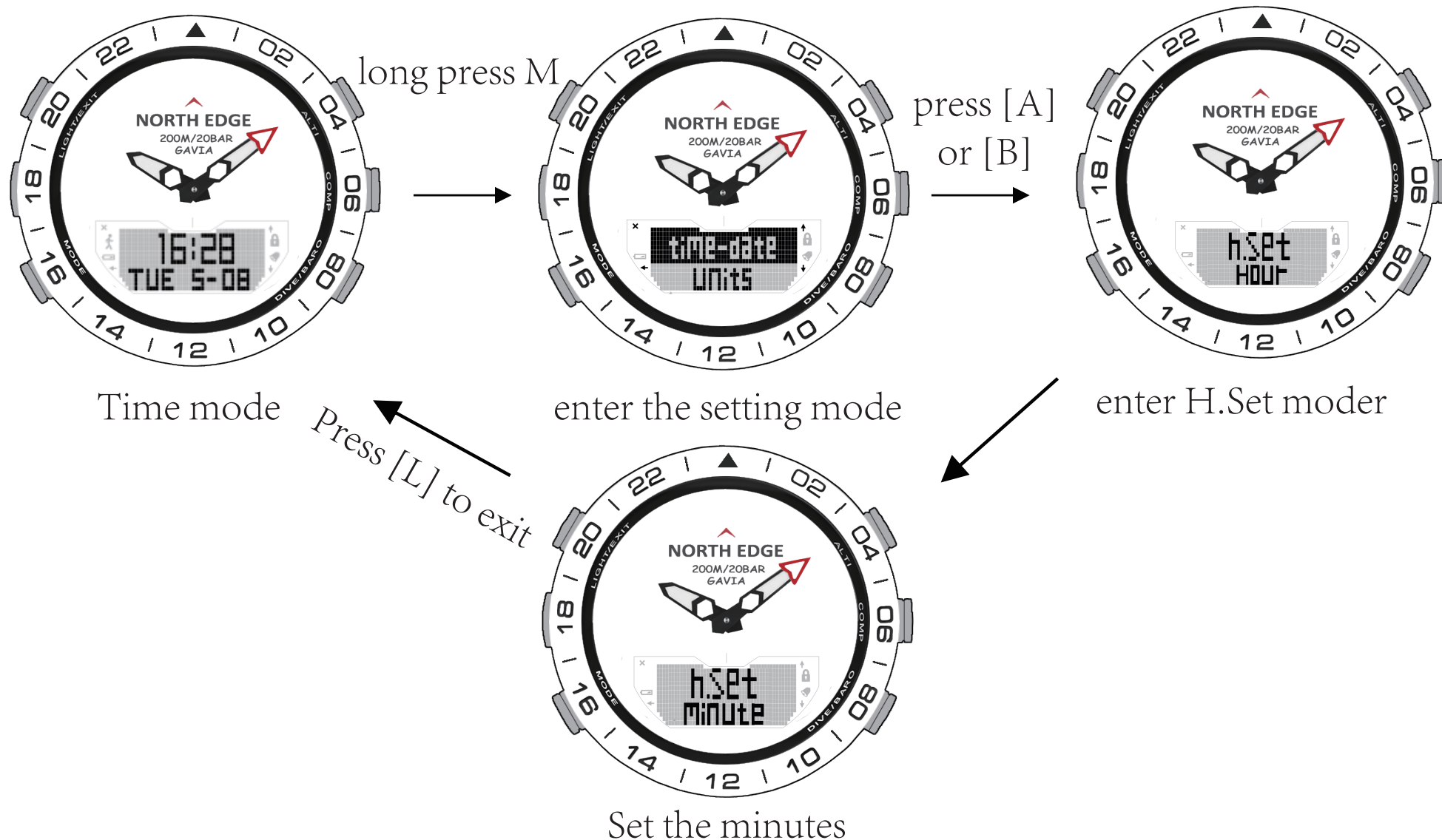


5. Menu Setting

Before you start to use your sports watch, it is better to set the measure units, calibrate watch hand and general setting according to your preference. You can change the general setting in the MENU. If you want to enter the MENU, please long press the [M] button for 2 seconds under the time mode, press [L] button to exit the MENU. When exit option in the MENU is usable, a "X" will appear on the nearby of the [L] button. You can choose press any button to exit the MENU or press [L] button to exit.

5.0 Calibrate watch hand

GAVIA Watch use the Smart Alien axis movement which is designed by NORTH EDGE. When you use the watch for the first time You need to calibrate the watch hand as below methods.



1, Under time mode long press [M]—enter the setting mode—press [A] or [B] to switch each items and press [M] to enter H.Set moder—Long press or Short press [A] or [B] button to rotate the hour hand and minute hand to the 12H position ---Short press [L] to exit setting moder, then the hour hand and minute hand point to the right place automatically.

After finishing calibrating watch hand, you need to set the time. Please refer to 6.2.1

5.1 General Setting Item

After enter the setting, press [A] or [B] button to switch each item; press [M] button to enter into the setting item, press [L] button to return and exit the setting item.

Detail setting as follow:

- Time-date: set time date, countdown, alarm clock, world time, DST
- Units: set time format, temperature unit, barometer unit, height unit, weight unit and stride out unit.
- Pedometer item: set stride out data and weight data.
- General item: set button tone, contrast.
- Compass item magnetic declination setting.
- Alti-baro: Absolute altitude, sea level air pressure setting
- Hands calibration(h.set), calibration hour hand and minute hand to 12H to synchronize with LCD digital time. Enter hands calibration (h. set) mode, press M key to choose hour hand or minute hand, press A or B key to adjust hand overlap at 12H, press L key to exit setting.
- Dive: setting depth reminder (Max depth measurement is 50m)

5.2 Change data

It needs to enter MENU if you want to change the setting, any setting in the MENU mode will work immediately. For example, if you change time-date in MENU from 12:00 to 11:30, press [A] button to add data, press [B] button to decrease data, press [M] button to confirm and switch the changing item, press [L] to exit, the time will be set as 11:30.

5.3 Change unit

Choose and change measure unit in UNITS, details as following:

- TIME: 24H/12H
- TEMPERATURE: ° C/T
- AIR PRESSURE: hPa/in Hg
- ALTITUDE: M/Ft
- WEIGHT: Kg/Lb
- STEPS: CM/In

Enter UNITS in the MENU as following:

- 1) Long press [M] to enter into MENU under the time mode.
- 2) Use [A] to roll to UNITS item
- 3) Press [M] to enter.

Change units:

- 1) Use [A] button and [B] button to roll in a list item
- 2) Press [M] to enter
- 3) Use [A] button and [B] button to change unit data
- 4) Press [L] button to confirm and return the last item.

5.4 Change general setting

You can set in GENERAL, including:

- BUTTON TONE: ON/OFF
- CONTRAST: 0-10 level

5.5 Backlight

Under each function mode, press [L] to open backlight; Under setting mode, long press [L] button to open backlight, the backlight will automatically close after 5 seconds.

5.6 Activate Key Lock

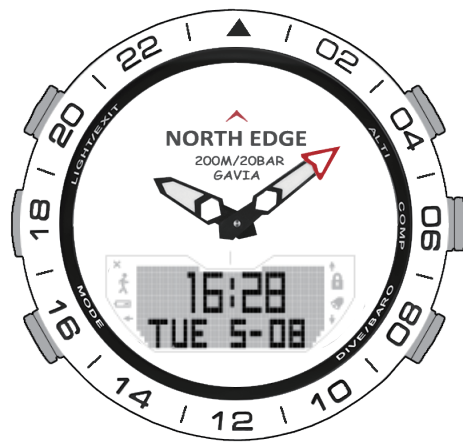
Long press [L] button to activate or stop Key Lock. When the Key Lock is in an activate state, it will display lock 

6.TIME mode

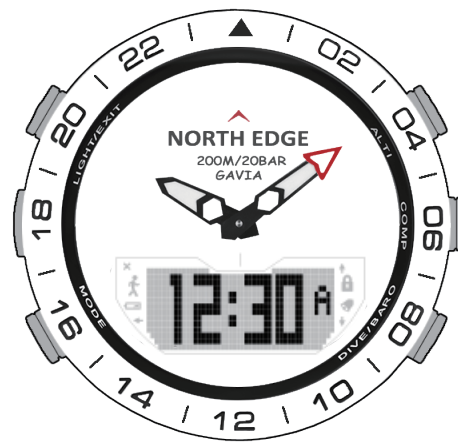
The time mode comprises A mode and B mode.

The A mode displays time, week and date, the B mode displays time.

Note: the system default time mode is the A mode, and the user can set any item in MENU according to preference.



A mode



B mode

6.1 Time mode

You can change time mode in MENU.

If you want to enter into the time mode in MENU as following:

- 1) Under time mode, long press [M] button to enter MENU.
- 2)press [A] or [B] button to roll in UNITS item, press [M] to enter.
- 3)Press [A] or [B] button to roll in the Time mode item, press [M] to enter.
- 4)Press [A] or [B] button to switch A and B mode, press [L] to confirm and return the last item.

6.2 Change time setting

You can change time setting in MENU.

- 1) Under time mode, long press [M] to enter MENU.
- 2) Press [A] or [B] button to roll to TIME-DATE item.
- 3) Press [M] to enter.

6.2.1 Set time

You can time setting in TIME.

Details as following:

- 1) Select TIME in TIME-DATE item.
- 2) Short press [A] or [B] button to change hour, minute and second, long press [A] or [B] button to increase or decrease data quickly.
- 3) Press [M] to confirm and switch changing item.

6.2.2 Set date

You can set year, month and date in DATE item.

- 1) Choose DATE in TIME-DATE item.
- 2) Short press [A] or [B] button to change year, month and date, long press [A] or [B] button to increase or decrease data quickly.
- 3) Press [M] to confirm and switch changing item.

6.2.3 Set DST

You can choose open or close daylight saving time in DST item.

- 1) Choose DST in TIME-DATE item.
- 2) Press [A] or [B] button to open or close DST.
- 3) Press [L] button to save and return MENU.

Note: open DST, the time will be added one hour automatically.

6.3 Set alarm

Use alarm and set alarm as following:

- 1) Choose TIME-DATE in MENU.
- 2) Choose ALARM, press [M] button to enter.
- 3) Press [A] or [B] to open or close the alarm, press [M] button to enter setting.
- 4) Press [A] or [B] to set time, long press [A] or [B] to rapidly increase or decrease data.

When the alarm is open, the alarm icon will appear on the screen.

When the alarm is ring, press any button to stop the alarm; if do not press any button, the alarm will automatically stop after 30 seconds, and the alarm will ring again at the same time of the second day.

6.4 Countdown mode

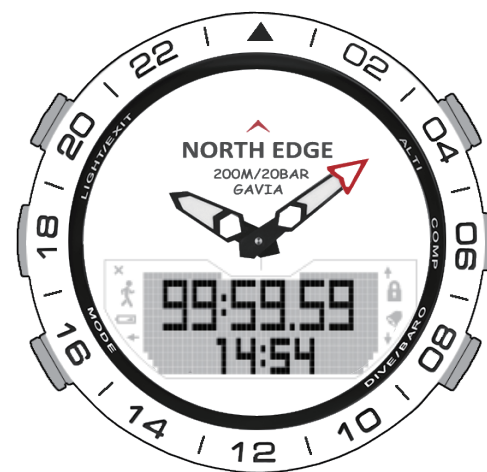
You can set countdown timer in Countdown from preset time to zero. It will ring when reach zero. Detail is as following:

Change countdown time:

- 1) Choose TIME-DATE item in MENU.
- 2) Choose COUNTDOWN through [A] or [B], press [M] to enter.
- 3) Use [A] or [B] to set hour, minute, second data (max 99:59:59), long press [A] or [B] to rapidly increase or decrease data.
- 4) Use [M] to confirm and switch setting item.

Start to countdown:

- 1) Switch to TIME mode.
- 2) Press [M] button three times, switch to the countdown mode.
- 3) Press [A] to start, stop and restart.
- 4) Long press [B] to reset countdown.



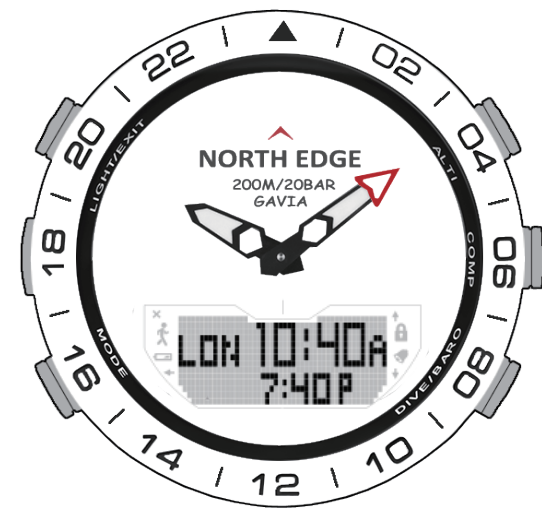
6. 5 World time

Under time mode, press [M] four times to enter world time mode, the upper part displays world time, and the lower part displays current time. Press [A] or [B] to switch the world time display in an upper-down manner.

Before check the world time, you need to set the time zone you locate in. Details as following:

- 1) Long press [M] to enter setting mode
- 2) press [M] Enter (Time-Date) setting
- 3) press [M] Enter (Time) setting
- 4) Press [A] or [B] to set the time zone of the city which you locate in

Note: open DST, world time and current time will be added one hour.

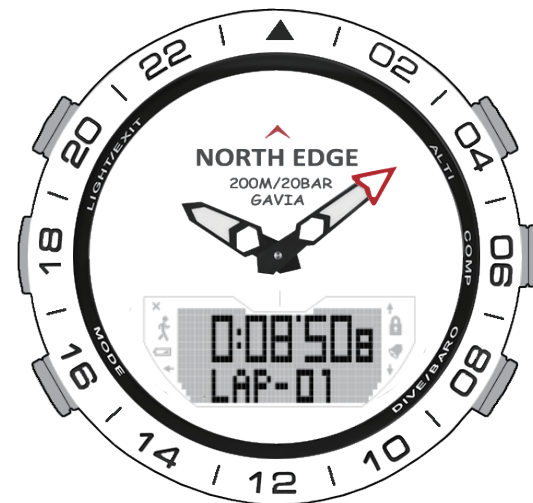


6. 6 Stopwatch (STP)

The stopwatch is used for measuring time. the division data is 0.1 second.

Details as following:

- 1) Press [M] button 2 times under TIME mode to enter into the stopwatch mode.
- 2) Press [A] to start, stop or restart the stopwatch.
- 3) Press [B] to record the timing time of each loop, max 50 sets of LOOPS.
- 4) Press [B] to check record after stop the stopwatch.



Check history data is as following:

1) Press [B] to enter into data check mode after stop the stopwatch.

2) Press [B] to check LOOP timing data and total timing time.

3) Press [B] two seconds to reset the stopwatch.

Note: when the data is recorded, the stopwatch will display the record interface 2-3 seconds, it is easy to check the record data for users.

6.7 Set pedometer as following:

In time mode, press M key one time to enter pedometer mode, upper row display step number, press B key can switch current time, sport time, step speed, calorie and mileage in below row.

- Current time(00:00)
- Sport time (lap0:00.0)
- Step number(0.00Km/h or Mi/h)
- Calorie (0 Kcal)
- Mileage (0.00Km or Mile)

Setting pedometer:


1) Choose PEDOMETER item in MENU.

2) Press [M] to enter

3) Press [A] or [B] button to set stride data and weight

4) Choose UNITS in MENU if the unit of the pedometer is changed, find WEIGHT and STEPS, press [M] to enter, press [A] or [B] button to set unit.

Use pedometer as following:

Under the pedometer mode, press [A] to start or stop the pedometer. The low part of the screen will show  icon when the pedometer starts to work; under timing mode or sensor mode, like height, air pressure, compass and dive mode all can work after the pedometer starts to work. The pedometer cannot auto clear data, if need to clear measured data of last time, please press [A] to stop the pedometer, long press [B] to clear the data. When pedometer starts to work, it only can detect effective steps when more than 20 steps data.

Under the following situations, the pedometer cannot measure the correct data.

- 1) In bag with irregular shaking
- 2) Hanging on waist or backpack vertically
- 3) Walking unnatural
- 4) Wearing sandals, slippers, clogs etc
- 5) Walking irregular at crowded place
- 6) Walking very slowly
- 7) Stand up for a while, sit down for a while
- 8) Climbing at steep slope or going up or down stairs
- 9) Taking bus or car etc.

7. Altimeter or barometer mode

7.1 How altimeter & barometer work

The altimeter & barometer is measured based on measuring air pressure continuously. Knowing the work method of altimeter and barometer, it helps you using this unit more accurately.

Note: please ensure there is no dirty or sand near sensor. Please don't insert anything into the hole of the sensor.

7.1.1 Obtain correct reading

Under barometer mode, you can obtain the current air pressure. If you want to get accuracy sea level altitude, please input accuracy sea level Altitude base on your location. Sea level air pressure can be checked on some weather newspaper or website.

Weather changing can influence altitude measurement. When the weather changing very frequent, it's better to calibrate sea level altitude or sea level air pressure. Especially calibrate when start to climbing.

7.1.2 Reading error

If keeping altimeter mode for a long time at the same place, and if weather changes, the altitude value read from the watch will be not accurate.

During climbing or downing the mountain, if the weather changes high frequency, the altitude will be not accurate. You may get the sea level air pressure data of local place at current time (through the related weather network), then reset the sea level air pressure in the ATI- BARO item of MENU, you can get the accurate altitude. If you know the altitude of local place (most map has the local altitude data), you can get the accuracy sea level pressure data through setting altitude data under altimeter/barometer in MENU.

7.2 Set reference data

Setting reference value:

- 1) In MENU, press A or B key to choose (ALTI-BARO) item.
- 2) Press [M] button to choose altitude or air pressure item to enter
- 3) Press [A] or [B] button to set the reference data: sea level air pressure data or altitude data. Long press (A) or (B) button to rapidly increase or decrease data.
- 4) Press [L] to confirm and save setting.

7.3 Altimeter mode

The altitude is calculated under altimeter mode according to the reference data, and the reference data is sea level air pressure or previous altitude reference data. Starting Altimeter mode as following:

In time mode, short press [A] button to enter into the altimeter mode under the time mode, the LCD will display:

the upper part is the current altitude, the lower part displays the following views through pressing [B] button.

- Relative altitude: measure the altitude difference between one place and a special place
- Temperature: measure the current temperature
- Climbing or decent speed

Note: during measuring temperature, please take off on wrist and let it placed for more than 10 minutes, as the body Temperature will influence the accuracy.

Relative altitude:

The relative altitude will display the altitude difference between one place and a special place. It is very useful for climbing when you want to know the climbing status.

Note: long press [B] 2-3 seconds to reset relative altitude to zero.

7. 4 Barometer mode

It will display the current air pressure data, sea level air pressure data, history air pressure change chart and so on. Sea level air pressure data is displayed on the upper part of the screen; the air pressure change graph and sea level air pressure data are switched by pressing A button. The current air pressure data, current temperature and current time are switched on the lower part by pressing [B] button.

The air pressure change chart displays the air pressure change record for 24 hours, the record interval is 30 minutes.

8. Compass mode

Under COMPASS mode, watch need to keep level.

If no any key operation in 30s, compass will switch to power saving mode, display “START” , press [C] to re-active compass.

8. 1.1 Obtain correct reading

The correct reading will be displayed though calibration because the geomagnetic field will influence the compass performance. The geomagnetic field influence is removed through automatically calibrate the compass.

Compass calibration

- 1) Keep the watch to be level
- 2) Rotate the watch clockwise (each circle is 30 seconds), until the compass to be worked.



Re-calibrate compass

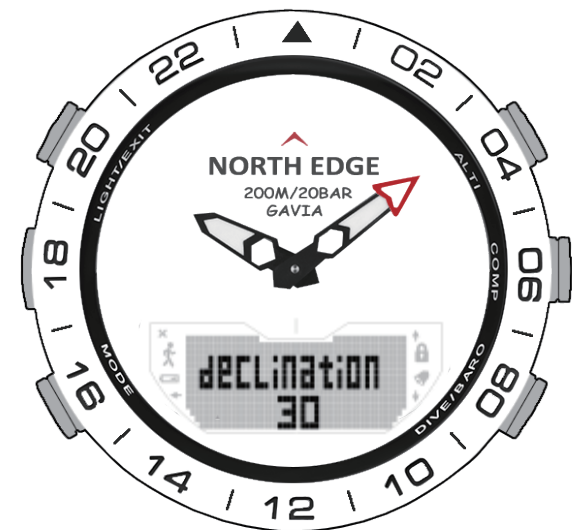
If the compass has deviation, long press [B] button to enter into the calibration mode. Under the compass mode, keep the watch to be level, rotate it 2-3 loops clockwise, until the watch enters into the compass mode.

8. 1. 2 Magnetic declination

Magnetic declination is defined as the angle between magnetic north(the north end of a compass needle points) and true north. The magnetic north and geography north are not in the same place, so the compass is needed to set the magnetic declination, the magnetic different data is the angle between the magnetic north and geography north, most of maps all mark the magnetic bias data; the position of the magnetic north can change every year, so you need to find the newest exact magnetic bias data on the internet.

Magnetic bias data setting

- 1) Choose compass item in MENU.
- 2) Press [A] or [B] to set magnetic declination, long press [A] or [B] to increase or decrease data.
- 3) Press [L] to save and exit.



8.2 Use Compass

1) Under compass mode, the watch rotates uniformly in a clock wise manner, the arrow arranged on the upper part of the screen is forward direction like the direction arrow of the compass, the forward direction displays on the left side of the lower part of the screen; the forward direction data is display on the right side of the lower part of the screen.

2) Under compass mode, the hour hand and minute hand in direct line. The minute hand Point to the NORTH.

*(If hour hand and minute hand are not in direct line please calibrate watch hand firstly (refer to 5.0))

*(If compass is not accurate please calibrate compass (refer to 8.1.1))



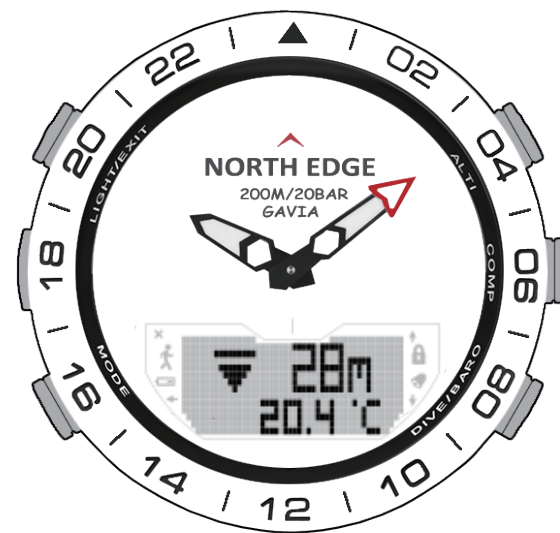
9. Dive mode

Under time mode, long press [B] five seconds to enter dive mode.

Long press [A] 2-3 seconds to open/close the dive mode, the down dive icon T will display/disappear. the watch will automatically measure water depth every 1 seconds.

LCD display: when the diving water mode is an open state, the left side of the upper part display a down arrow icon V, the right side display the current diving depth data; the lower part displays the current temperature. When the diving depth arrives 50m(165Ft), the screen will appear "full", and the "full" replaces of "50 meters".

Note: the watch only supports the max 50 meters (165Ft) diving depth.



9.1 Dive mode setting

If you want to change dive mode setting in MENU, please enter into the dive mode setting in MENU,

- 1) Under time mode, long press [M] to enter into MENU.
- 2) Press [A] or [B] to roll to the DIVE item, press [M] to enter into Deep alarm.
- 3) Press [A] or [B] to roll to add or decrease data, long press [A] or [B] to rapidly add or decrease data.
- 4) Press [L] to confirm and return the last item.

It means that the sound reminding function is open when you set number, the dive watch will ring when the preset data is arrived after entering the dive mode. When the depth alarm setting is max 50m (165Ft), after entering dive mode, the dive watch will ring and display "full" when you dive the preset data. The "full" replaces "165Ft". You can change depth or close depth alarm according to personal preference. (the number is 0, the depth alarm is closed.)

10. Replace battery

The unit adopts 3V lithium battery. Model number is CR2430.

Note: To reduce the risk of fire or burns, do not crush, puncture or dispose of used batteries in fire or water. Recycle or dispose of used batteries properly.

Note: Please take care of O-ring at battery notch. If it is missed, The water proof level will be reduced.

Note: Turn on backlight high frequency will reduce battery life.

Note: when the power of the dive watch is insufficient, it will display a battery symbol as warning. When the condition is happened, don't use the diving watch to dive, until the battery is replaced.

Replace battery as following:

- 1) Screw to loose the back cover and take off the sticker from the battery. Please take care O-ring on battery cover notch and keep unit clean and dry, Take off old battery.
- 2) Keep Battery "+" at top and install battery
- 3) Cover the battery case, paste the sticker on the battery
- 4) Screw up the back cover.

11.Specifications

- Operation temperature: -20,C— +60,C / -4 ° F — +140T
- Storage temperature: -30°C— +60,C / -22T — +140T
- Water-resistant: 200m/660ft

- Battery: CR2430
- Battery life time: about 12 months in normal use

Altimeter

- Display range:-500m - 9000m / -1640ft -- 32760ft
- Resolution: 1m/3ft

Barometer

- Display range: 300—1100hpa / 8.8—32.60inHg
- Resolution: 0.1hpa /0.03inHg

Temperature

Resolution : 1 ° C/1 ° F

Compass

- Resolution: 1 °

Attention

- 1)the safe diving depth of diver is 40 meters(131ft)
- This device is not used as a professional diving equipment.
 - Please in safety depth in diving.
 - Do not use this device to high-risk diving!
 - The device should not be given to any may cause the potential risk of responsibility!

2) Waterproof performance specification

The waterproof depth of the dive watch is 200 meters (660 feet),

In order to keep the waterproof performance, please take the following actions:

- Don't use the watch for unexpected purpose.
- The waterproof rubber ring is easy to be broken, please periodic change it, or change it in repair.
- Keep it clean
- Wipe it dry when the water is on the watch.
- If the glass of the watch is broken, it will influence the waterproof performance, please change it in time.
- Keep it from rapid air temperature and water temperature change.
- If the watch meets saline water, please use fresh water to wash all the time.
- Don't knock on or drop the watch.

3) Operation instruction

The dive watch is a complicated precise instrument, it can be used to resist the rigor condition of diving activity, you need to carefully prudently love it like other precise instrument. Please take care of operate the watch, don't knock or drop it, don't band the wrist strap of a diving computer too tight, and the distance between the wrist strap and wrist can be inserted the finger.

28 World times:

City code	City	Time zone
LON	London	0
PARA	Paris	1
CAI	Cairo	2
ANK	Ankara	2
JED	Guida	3
THR	Teheran	3.5
DXB	Dubai	4
KBL	Kabul	4.5
KHI	Karachi	5
DEL	Deri	5.5
DAC	Dacca	6
RGN	Dacca	6.5
BKK	Bangkok	7
HKG	Hong Kong	8
TYO	Tokyo	9
ADL	Adelaide	9.5
SYD	Sydney	10
NOU	Noumea	11
WLG	Wellington	12
PPG	Pago-Pago	-11
HNL	Honolulu	-10
ANC	Anchorage	-9
LAX	Los Angeles	-8
DEN	Denver	-7
CHI	Chicago	-6
NYU	New York	-5
CCS	Caracas	-4.5
RIO	Rio de Janeiro	-3