

# **Handheld GPS Receiver**

User manual and Reference guide

## CAUTION

The Global Positioning System (GPS) is a system of 24 satellites which circle the earth twice a day in a very precise orbit and transmit information to earth. The unit must continuously find at least three of these satellites to calculate your position and your movement.

This GPS system is operated by the government of the United States, which is solely responsible for its accuracy and maintenance. Any changes of the system could affect the accuracy and performance of all GPS equipment.

Information in this manual is subject to change without notice. The Corporation reserves the right to change or improve its products and to make changes in the content without obligation to notify any person or organization of such changes. If you have any questions or comments regarding the use of the GPS\_DESIGNER, you can visit our website or contact the local dealer or retailer.

## WARNINGS

Some certain knowledge is required to be well known by the user for proper and safe use of GPS\_DESIGNER GPS handheld receiver. Please read this User's Manual first before operation.

***This product can help the user to find out his way and orient him in travelling, BUT it can not totally replace the user's own personal judgment. Never lose your own reasonable judgment and solely rely on one device.***

***Please press the POWER key to turn off the unit after operation, the data in the unit will be saved. If the unit is not turned off, please don't take off the power, otherwise the data in the unit will be lost.***

Because GPS\_DESIGNER is an assistant device, it will NOT undertake any legal responsibility for any accident or damage caused by the user's wrong operation and/or wrong judgment in navigating with GPS\_DESIGNER.

If the battery in the unit is not rechargeable, please take off the battery before using the function of communication or USB to avoid blast.

Thank you for choosing GPS handheld receiver ! It will never let you lose yourself no matter where you are.

Take it now ! It can be your best friend!

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## Definitions

**LON (Longitude):** The angular distance east or west of the prime meridian (Greenwich meridian) as measured by lines perpendicular to the parallels and converging at the poles from  $0^{\circ}$  to  $180^{\circ}$ .

**LAT (Latitude):** The angular distance north or south of the equator measured by lines encircling the earth parallel to the equator in degrees from  $0^{\circ}$  to  $90^{\circ}$ .

**ALT (Altitude):** Distance above mean sea level.

**COG:** Course over ground. Your direction of movement relative to a ground position.

**SOG:** Speed over ground. The actual speed the unit is moving over the ground. This may differ from airspeed or nautical speed due to such things as sea conditions or head winds.

**WPT (Waypoint):** A permanently stored and named position in the unit's memory.

**Track:** Record the user's route.

**Route:** A route consists of start point, end point and in-between waypoints. A single route is a kind of simple route only having start point and end point, in another word it is a "Goto" route. Route can also be made up of several legs from one waypoint reaching up to 50 other different waypoints.

**XTE:** Cross-Track Error.

**DIS (Distance):** The linear length from current position to named waypoint or between two waypoints along a route.

**Area:** The route or track's area can be calculated.

## *Definitions*

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**Goto:** A single leg route with the present position being the start of the route and a defined waypoint as the destination. You can use this function when you want to go directly to one of the waypoints saved in the memory. Select the waypoint you want, and highlight the “Goto” in the option menu, press the **NAV** key to start navigation in this mode.



## Features



- ① **POWER** key
  - turns the unit off and on
  - turns the back-light off and on
- ② **ESCAPE** key
  - switches among pages
  - cancels current operation
  - backs to last step or last page
- ③ **UP / DOWN / RIGHT / LEFT / NAV** key
  - highlights menu options and enters data
  - direction keys
  - controls cursor movement on the map page
  - update data
  - initiates entry and accepts the selected value
- ④ Built-in high sensitivity patch antenna, this site will be affected if objects block the reception.
- ⑤ USB interface.

## **Battery Installation**



### **Battery Installation**

1. Turn battery cover screw counterclockwise until the battery cover can be removed.
2. Insert two new AA(or rechargeable) 1.5 V batteries as shown in the left picture, be sure to check the polarity, and replace the battery cover.
3. Replace the screw and turn the screw clockwise until the battery cover is held securely. While the battery cover does provide the waterproofing seal to the batteries, you should avoid over-tightening the battery door screw.

## Chapter 1 Grammar

### 1. The principle of fixing position

The whole world artificial satellite fixer system (GPS) is composed of 24 artificial earth satellites. It is controlled, defended also being ensured that whose accuracy is in progress as well as by the USA government. The unit searches for the GPS signal and calculates the longitude, latitude, speed, time and so on. Please put the unit in spacious, fine place of signal. A large-scale building or a dense forest will block the GPS signal. If you want to check the GPS signal state, please turn to the page of satellite information.

### 2. Navigating a waypoint

If you go out to camp, you can save the camp as a waypoint. When you come back to the field of camp, you can use the function of WPT navigation, it will form a route of directing the camp, it can guide you to return to the camp from current place. When use the function of WPT navigation, the waypoint of navigation will be shown on the map, the icon of the waypoint will be shown on compass ring on the Navigation Page. If the bearing pointer points directly to the waypoint's icon, you are going ahead to the target.

### 3. Navigating a route

A route is composed of two waypoints or a sequence of waypoints, you can use the route to get to your destination. For example, being going to arrive at Beijing from Hangzhou to Shanghai, you must first save every place's data as a waypoint, the data can be saved when ramble on the map or inquiry the data from other datum and imports the data to the unit. Then create a route, add the three waypoints to the route. After the data inputting, the route can be navigated. When a route is navigating, the Map Page displays your movement, the route line, and waypoints on the route. The Navigation Page shows compass direction, the next waypoint's icon, and the route's name. If the bearing pointer points directly to the waypoint's icon, you are going ahead to the waypoint

#### **4. Navigating a track**

If you want to return along a traveled path, you can record a track when you go to the destination or another user's path. When you are ready to return to where you started, find the track on the Track List Page and use the Return feature. When a track is navigating, the Map Page displays your movement, the track line, and the track's start point and end point. The Navigation Page shows compass direction, the destination's icon, and the track's name. If the bearing pointer points directly to destination's icon, you are going ahead to the destination.

## Chapter 2 Basic Operation

### 1. Turning the unit on

- 1) Press the **POWER** key until the Welcome Page appears.
- 2) The unit will search the GPS signal for 30 seconds, you can use the **ESC** key to jump over the page.
- 3) After completing searching the GPS signal, the Satellite Page will appear.
- 4) Press **ESC** key continuously, the main pages come out in order.
- 5) Press the **NAV** key on these main pages, you can enter the **Main Menu** Page and start operation as stated below.

\* **NOTE :**

*After turning on, please set the time parameter according to the **Time** setting in the **SETUP**.*

### 2. Turning the unit off

Press the **POWER** key for 2-3 seconds until the unit turns off.

### 3. Turning the backlight

In any step of the operation, just press **POWER** key to turn it on and off.


\* **NOTE :**

*When you use the unit for the first time or move the unit exceeding 200 kilometers under the unfix, it will take 2 minutes to track the satellites and fix position for the unit. After the first use, it will only take you less than one minute at the beginning for each time.*

### 4. Shortcut Operation

☺ Hold down the **RIGHT** key, then hold the **ESC** key lasted 2~3 seconds, to achieve save data manually.

## Chapter 3 System Setup

The Setup Pages allow you to customize the unit to your personal preference, you can choose system settings, map datum, unit, time settings, alarm settings, display backlight and contrast settings. You can highlight the Main Menu icon  to open the Main Menu. On the Main Menu page, select the **SETUP** by the **UP/DOWN/LEFT/RIGHT** keys, press the **NAV** key to open the Setup Pages. There are six pages. Press the **LEFT/RIGHT** keys continuously, the pages come out in order, the six Setup Page are System(Sys), Datum, Units, Time, Alarm, other.

### 1. System

There are System Operating Mode(Mode), Record Manner, Battery Type and Restore Defaults. Open the each by the **UP/DOWN** keys, press the **NAV** key to enter the lists. Use the **UP/DOWN** keys to highlight an item from the list and then press the **NAV** key.

### 2. Datum

The default datum is **WGS 84** (World Geodetic System,1984), If you are unsure as to which datum to use, just choose **WGS 84**.

Steps:

- (1) Use the **NAV** key to enter the datum list.
- (2) Use the **UP/Down** keys to highlight a datum and press the **NAV** key.

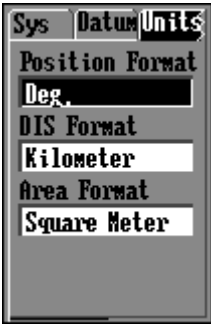
You also can use the datum of **User Def**, select the **User Def** in the datum list, so you can enter to the **User Define** Page.

Use the **NAV** key to switch between the line, use the **LEFT/RIGHT** keys to select the number, use the **UP/DOWN** keys to change the number, After completing



editing, highlight the **SAVE** button and press the **NAV** key to save the changes.

### 3. Units



There are Position format, Distance format(DIS format), Area format. Use the **UP/DOWN** keys to go select the each, press the **NAV** key to enter the list, use the **UP/DOWN** keys to select a item from the list and then press the **NAV** key.

### 4. Time

There are Time Format, UTC Offset. You must choose time format first once you turn on the unit, it means you can read time in 12 hours or 24 hours. Then you need to set UTC Offset (Universal Time Coordinate). In another word, if your present location is in +8 time zone, and you are using +8 time zone clock, you have to choose 8H. If you are in +8 time zone but using +6 time zone clock, you'd better choose 6H. If you choose 0H, that is exactly UTC Time. This setup is very important, it will directly affect the time displayed. Use the **LEFT/ RIGHT** keys to select 12 hours or 24 hours; Use the **UP/ DOWN** keys to select UTC time and then press the **NAV** key to enter the list, you can select +1 or -1 to adjust the UTC time.



### 5. Alarm

You can use this feature to set the alarm distance for five kinds of subjects: XTE, Hazard, Destination (Des.), Landmark and Anchor. For XTE alarm, if you choose 0.1Km, the alarm will work once your current leg goes out of the circle with 0.1Km radius and the center of your current location. For other alarm, if you choose 0.1Km, the alarm will work once your current leg goes in of the circle with 0.1Km radius.



\* **NOTE :**

*When the unit is set to navigation status, for Anchor alarm and Hazard alarm, you must set the Hazard or Anchor in the route, otherwise this alarm*

*does not work; For Landmark alarm, you must set the waypoint in the route; For XTE alarm, it is used in navigating route and navigating track; For destination alarm, it will work in navigating waypoint, navigating route and navigating track.*

*When the alarm page appears, press the NAV key or ESC key to exit the alarm page, if you press the NAV key when exiting, the next alarm will appear without sound, if you press the ESC key when exiting, the next alarm will appear with the sound of “B”.*



## 6. Other

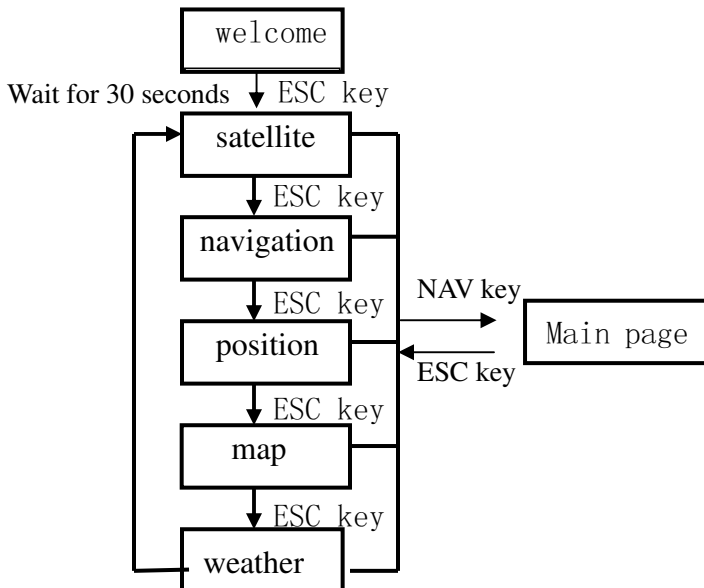
There are Backlight Time and Contrast. Use the **DOWN** key to highlight the Backlight Time field, press the **NAV** key to enter to the list, use the **UP/DOWN** keys to highlight a item from the list and then press the **NAV** key. Use the **DOWN** key to highlight the Contrast field, press the **NAV** key to active the scroll and then use the **UP/DOWN** keys to adjust the contrast.



## Chapter 4 The Main Pages

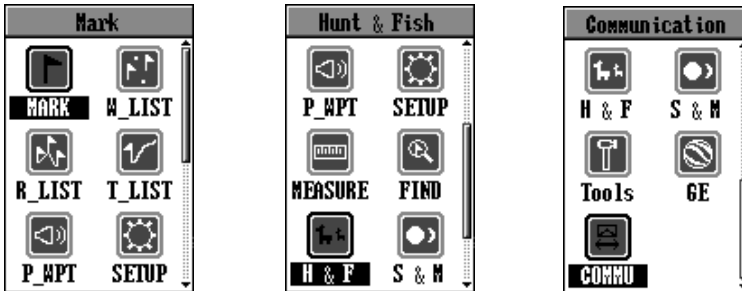
After booting, the first page is about the satellite information. Please check satellite state then start operation. At the top right corner of each page, it is the main menu entrance sign (☰). Press the **UP** key and the **NAV** key to enter to the main menu page, and then operate on the page. Press the **ESC** key to exit and back to the form page. Of course press the **ESC** key to switch between the all pages. At all pages, the cursor in the main menu is initialization, press the **DOWN** key to cancel the selected state (☑) (except the Satellite Page), otherwise to press the **NAV** key to enter the following menu page.

Operating structure



## 1. Main Menu Page

The Main Menu page in the Basic HN-2000 version.

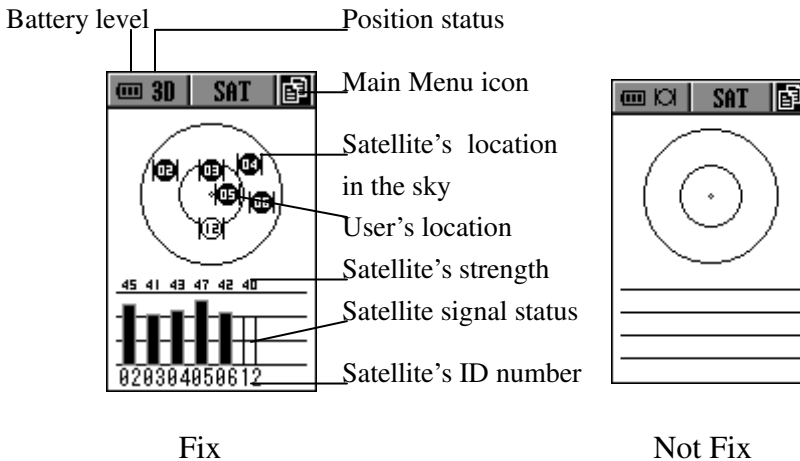


The Main Menu page in the HN-3000 version.



In addition to the main pages, this page provides other features: Mark Waypoint(MARK), Waypoint List(W\_LIST), Route List(R\_LIST), Track LIST(T\_LIST), Proximity Waypoint(P\_WPT), Setup, Measure Distance and Measure Area, Find WPT/Route/Track, Hunt And Fish(H&F), Sun And Moon(S&M), Tools, Weather, Googleearth(GE), and Communication(COMMU). Press the **UP/DOWN/LEFT/RIGHT** keys to choose a certain functional icon and then press the **NAV** key to enter the functional interface. Following, introduce the main pages one by one.

## 2. Satellite Page



Fix

Not Fix

This page displays satellite distribution and the strength of the satellite signal. Normally, at least three satellite signals are needed to determine your location. Firstly check the icon in the upper left corner to confirm the GPS signal. Figure of **3D** or that **2D** means the satellite has been completed 3D or 2D positioning, and the current data are valid, if the icon is **0X** that satellite is not positioning, the current data are invalid.

The unit uses two big circles to simulate the distribution of satellite. The icon **0X** is represent of the satellite, all satellites are located in the ring. The center is user's current location. More near the center of the satellite distance, the satellite relative to the greater the angle of elevation, if the satellite icon landed on center of rings, this satellite in the sky just is above of you. Contrarily, the smaller the angle of elevation, and the farther away from the head.

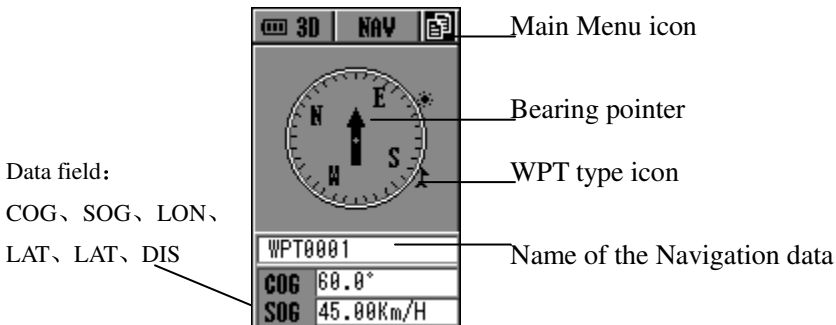
If the satellite icon is the hollow (as **07**), that means this satellite is not positioning and calculating. if it is a solid (as **06**), that has been tracking the satellite and lock, the receiver can accurately receive data.

The bottom of the screen pillars reflect the strength of the satellite signal. The higher the pole, the stronger the satellite's signal. If the columns are hollow, the satellite's data is not involved in positioning computation.

The figure above the columns is the satellite signal strength. Below one is satellite identification numbers.

On this page, press the **NAV** key will directly enter the Main Menu Page, by the **ESC** key to enter the next main page.

### 3. Navigation Page



While navigating, this page is very important. It will guide you to your destination, show the distance to next destination, the current speed and navigation data. The arrow in central screen always points to the direction of movement. This device can be used as electronic compass to determine the direction of movement

Small icon on the screen is destination. To receive accurate information, you must choose the time zone firstly. After booting, and before the system positioning automatically, all the information is blank. If the system locate, latitude and longitude will be automatically updated

When the Main Menu icon is in the state of being selected, press the **NAV** key to enter the Main Menu, and press the **ESC** key will access to the next main page. But if the icon of the Main Menu is not in the state of being selected, press the **NAV** key will enter the navigation option menu. The menu contains the Change Data Fields and Compass Calibration (electronic compass version)

### • Changing data fields

Use the **UP/DOWN** keys and **NAV** key to change the data fields showed on the page, the data showed can be LON, LAT, ALT, DIS, SOG or COG.

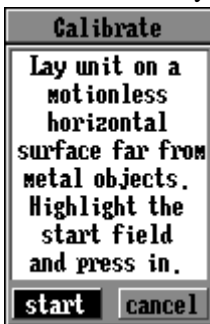
#### Steps:

- (1) On the Navigation page, the Main Menu icon is initialized in the selected state, you can press the **DOWN** key to make the icon be in unselected state.
- (2) And then press the **NAV** key to pop-up the navigation option menu.
- (3) Use the **UP/DOWN** keys to highlight **Change Data**, and press the **NAV** key.
- (4) Use the **UP/DOWN** keys to highlight the data field that you want to change.
- (5) Press the **NAV** key to enter the option list.
- (6) Use the **UP/DOWN** keys to highlight desired option.
- (7) Use the **NAV** key to change the data field or use the **ESC** key to return and do not change the data field.

### • Compass calibration

This feature is in the HN-2000/HN-3000 version.

To maintain the accuracy of the compass, when it is far from where you calibrate last time, you should calibrate it once again.



#### Steps:

- (1) In the **Navigation** page, the Main Menu icon is initialized in the selected state, you can press the **DOWN** key to make the icon be in unselected state.
- (2) And then press the **NAV** key to display the navigation option menu.
- (3) Use the **UP/DOWN** keys to highlight **Calibrate**, and press the **NAV** key.
- (4) Highlight the **start** button and press the **NAV** key, rotate the unit and keep arrow pointed at you, after completing rotation, a selection box of completing calibration will appear.
- (5) If you want to carry out the secondary calibration, highlight the **Yes** button and press the **NAV** key. Otherwise, highlight the **No** button and press the **NAV** key.

- **Secondary calibration**

This feature is in the HN-2000/HN-3000 version.

If the direction compass directs is error, you should carry out secondary calibration.



**Steps:**

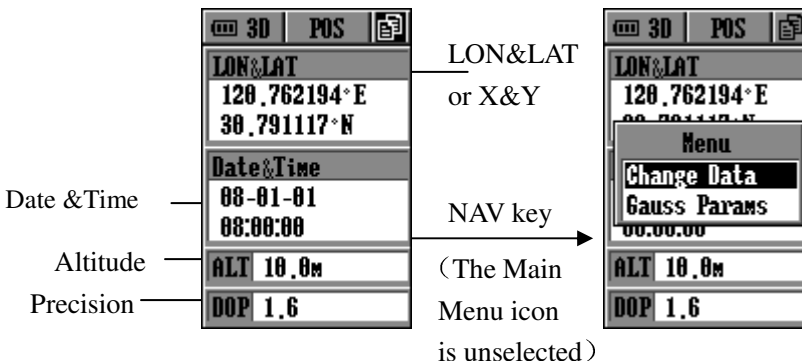
- (1) In the **Navigation** page, the Main Menu icon is initialized in the selected state, you can press the **DOWN** key to make the icon be in unselected state.
- (2) And then press the **NAV** key to display the navigation option menu.
- (3) Use the **UP/DOWN** keys to highlight **Secondary-Cal**, and press the **NAV** key to enter the Secondary-Cal page.

(4) If the unit has a GPS fix, handhold the unit on a horizontal surface.

Highlight the **start** button and press the **NAV** key to start, keep the unit pointed to the GPS direction, keep the speed is greater than 1.5 m/s, after about 30 seconds, you can stop the calibration.

(5) If you want to complete calibration, highlight the **stop** button and press the **NAV** key. If you want to cancel calibration, highlight the **cancel** button and press the **NAV** key.

#### 4. Position Page



This page displays the latitude and longitude of the current location or plane coordinates, and time information, altitude, and positioning precision. If the Main Menu icon is selected, press the **NAV** key to enter the Main Menu page, If the Main Menu icon is not selected, press the **NAV** key display the position option menu. The position option menu contains Change Data Fields and Gauss Parameters.

- **Changing Data Fields**

Use the **UP/DOWN** keys and **NAV** key to change the type of coordinate, LON&LAT or X&Y.

**Steps:**

- (1) On the **Position** page, the Main Menu icon is initialized in the selected state, you can press the **DOWN** key to make the icon be in unselected state.
- (2) And then press the **NAV** key to display the position option menu.
- (3) Use the **UP/DOWN** keys to highlight **Change Data**, and press the **NAV** key.
- (4) Press the **NAV** key to enter the option list.
- (5) Use the **NAV** key to change the data field or use the **ESC** key to return and do not change the direct return.

- **Gauss Parameters**

**Steps:**

- (1) On the **Position** page, the Main Menu icon is initialized in the selected state, you can press the **DOWN** key to make the icon be in unselected state.
- (2) And then press the **NAV** key to display the position option menu.
- (3) Use the **UP/DOWN** keys to highlight **Change Data**, and press the **NAV** key to enter the Gauss Params page.
- (4) Use the **NAV** key to choose the Yf, Lf, Df and Xf , use the **LEFT/RIGHT** keys to highlight the figure, use the **UP/DOWN** keys to change the figure.
- (5) After editing highlight the **Save** button, and press the **NAV** key to preserve data.

\* **NOTE :**

*Gaussian parameters:*

*Yf: things deviation units: m*

*Lf: Central Meridian*

*Df: projection ratio (usually set to 1.0 or 0.9996)*

*Xf: North-South bias unit: m (usually 0)*

## 5. Map Page

This page display map information, current location, WPT/route/track, and navigation information. The track being recorded or the navigation route/track will be displayed on the page in the form of dotted line. The navigation WPT or the WPT setted 'show on the map' will be displayed on the page in the form of WPT icon.

The black arrow (black triangle) on the page direct the current location, the direction of the arrow shows directional movement.

The map scale is displayed at the bottom left corner of the page, use the **LEFT/RIGHT** keys to zoom.

In the state of showing data fields, the location information is displayed at the bottom of the page. If in the state of rambling, the cursor's position's name, angle and distance from the GPS position. If the Main Menu icon is selected, press the **NAV** key to enter the Main Menu page, If the Main Menu icon is not selected, press the **NAV** key display the map option menu.

In the state of hiding data fields, the map option menu contains Ramble, Show Data Fields and Measure Distance. In the state of showing data fields, the map option menu contains Ramble, Hide Data Fields, Change Data Fields and Measure Distance.

- **Zoom**

Press the **RIGHT** key to zoom in, press the **LEFT** key to zoom out.

- **Ramble**

Use the **UP/DOWN/LEFT/RIGHT** keys to view the nearby information, you can zoom the cursor's point which can be saved as a waypoint. In the rambling state, press the **NAV** key to ramble option menu.

The ramble option menu contains **Zoom** and **Save As WPT**.



**Steps of the Zoom option in the ramble option menu: Pages**

- (1) Use the **UP/DOWN** keys to highlight **Zoom**, and press the **NAV** key to display the Zoom page.
- (2) Use the **UP/DOWN** keys to zoom, press the **UP** key to zoom in, press the **DOWN** key to zoom out.
- (3) Press the **NAV** key to change the map scale.

**Steps of the Save As WPT option in the ramble option menu:**

- (1) Use the **UP/DOWN** keys to highlight **Save As WPT**, and press the **NAV** key to display the Zoom page.
- (2) Use the **UP/DOWN/LEFT/RIGHT/NAV** keys to edit the waypoint, after editing highlight the Save button and press the **NAV** key to save the waypoint.

- **Showing/Hiding Data Field**

In the state of showing data fields, the location information is displayed at the bottom.

**Steps of Show/Hide Data Field:**

- (1) Use the **UP/DOWN** keys to highlight **Show/Hide Data**.
- (2) Press the **NAV** key to show or hide the data field.

- **Changing Data Field**

- (1) Use the **UP/DOWN** keys to highlight **Change Data**.
- (2) Press the **NAV** key to enter the option list.
- (3) Use the **UP/DOWN** keys to highlight desired option.
- (4) Use the **NAV** key to change the data field or use the **ESC** key to return and do not change the data field.

- **Measuring Distance**

Use the **UP/DOWN/LEFT/RIGHT/NAV** keys to measure the distance between two points at the map.

**Steps:**

- (1) Use the **UP/DOWN** keys to highlight Measure DIS, and press the **NAV** key to Measure page.

- (2) The initial start point is the current positing point, if you want to change the start point, use the **UP/DOWN/LEFT/RIGHT** keys to move to a point, and press the NAV key to identify the point as a start point.
- (3) Use the **UP/DOWN/LEFT/RIGHT** keys to move to the end point, the distance and angle from the start point to the end point is showed on the page, the end point's location information is showed at the bottom of the page

\* **NOTE :**

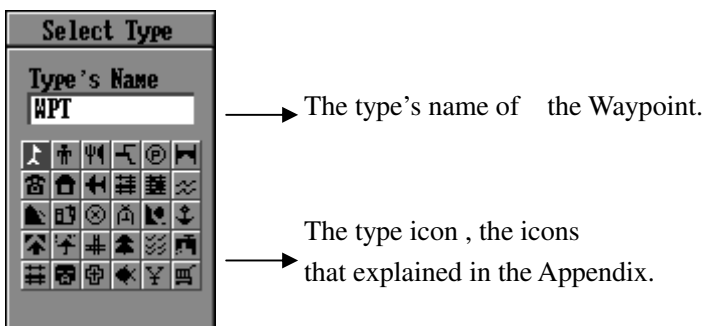
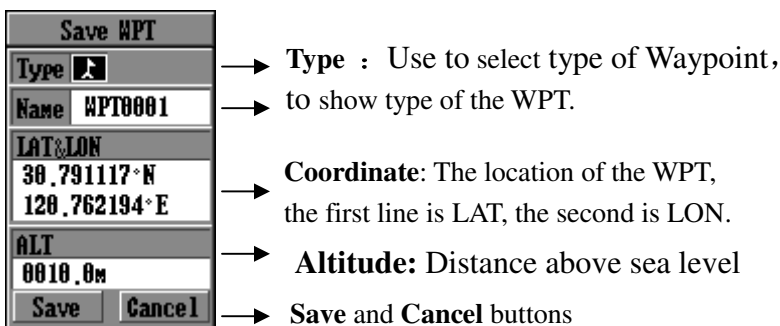
**DIS:** "DIS" is shown at the above of the page, it shows the bearing and distance from the end point to the start point.

**Cursor:** The Cursor field is at the bottom of the page. When the cursor on the page is nearby a point which has name, the field shows the name of the point, otherwise, it shows "Cursor".

## Chapter 5 Waypoint

### 1. Mark

Use the **UP/DOWN/LEFT/RIGHT** keys to select **MARK** on the Main Menu page, press the **NAV** key to enter the **Save WPT** page.



- **The operation of Save WPT**

The page of Save WPT Initialized in un-edit, in the state of un-edit, type, name, coordinate, altitude and select by the **UP/DOWN** keys, if a item is select, the line will be highlighted, and press the **NAV** key to edit (The Type item will enter the Select Type page). If the Name, coordinate or altitude is in the state of editing, use the **LEFT/RIGHT**

keys to select the figure, and use the **UP/DOWN** keys to change the figure. after editing ,press the **NAV** key to change the value, if you want to return without saving, please press the **ESC** key to return.

Use the **LEFT/RINGHT** key to switch between **Save** and **Cancel** button .If

want to save, select **Save** button and press the **NAV** key to save the waypoint in the WPT List.

- **The operation of Select Type**

On the Select Type page, use the **UP/DOWN/LEFT/RIGHT** keys to select the icon (you can select 30 type of icon), and press the **NAV** key to confirm the type of be selected.

\* **NOTE :**

*In Name settings , Each character can take 26 upper and lower case letters and the number of characters 0-9(Use the **UP/DOWN** keys to switch) .In Coordinate setting, each number can be chosen between the figures 0-9(Use the **UP/DOWN** keys to switch) . ‘N’ is north latitude, ‘S’ is south latitude, ‘E’ is east longitude, ‘W’ is west longitude (‘N’ , ‘S’ and ‘E’ , ‘W’ switch from the **UP/DOWN** keys). In altitude setting, each number can be chosen between the figures 0-9 (Use the **UP/DOWN** keys to switch) . ‘m’ is the unit of length meter (under the unit set to display here) .*

## 2. Waypoint List

Use the **UP/DOWN/LEFT/RIGHT** keys to select the W\_LIST in the Main Menu and press the **NAV** key to enter the WPT List page. The waypoints in Waypoint List are shown which have been saved, the Waypoint List are shown above the screen, the location information of the selected waypoint and **Show on map** is displayed on the page.

Location information showed the distance and azimuth of the selected waypoint from the current location, real-time update. If you want to see the location of the waypoint on the map, choose **Show on the map**. In Waypoint List, you can use the **UP/DOWN** key to highlight a waypoint, press the **RIGHT** key to select **Show on map**, press the **NAV** key, showing “√” said Selected state ,if you want to cancel ,press **NAV** key again. If you want to back to list, press the **LEFT** key.

If you select a waypoint in Waypoint List and press the **NAV** key, you can enter to the option menu , there are **Edit, Create, Attribute, Delete, Sort, Goto/Stop, Delete All** in the menu.

## Creating a waypoint

Create is used to save the current location of the relevant data to a waypoint .

### Steps:

- (1) Use the **UP/DOWN** keys to highlight **Create** in the option menu, press the **NAV** key to enter **Save WPT** page.
- (2) Reference the steps of Mark, and modify the name of the waypoint, icon, location information, and highlight Save button to save the waypoint.

Edit WPT	
Type	
Name	WPT0001
LAT&LON	
30.791117°N 120.762194°E	
ALT	
0010.0M	
Save	Cancel

## Editing a waypoint

Edit can modify the Waypoint in Waypoint List.

### Steps:

Use the **UP/ DOWN** keys to highlight **Edit** in the option menu, press the **NAV** key to enter

**Edit WPT** page .

Reference the steps of save Waypoint, and modify the name of Waypoint, icon, Location information, and highlight Save button to save the waypoint.

WPT Attribute	
Type	
Name	WPT0001
LAT&LON	
30.791117°N 120.762194°E	
ALT	
0010.0M	

## Attribute of a waypoint

View the name, icon and location information of the waypoint in Waypoint List.

### Steps:

- (1) Use the **UP/DOWN** keys to highlight **Attribute** in the option menu, press **NAV** Key to enter WPT Attribute page.
- (2) Press the **ESC** key to return to WPT List page.

WPT List	
Menu	
Edit	
Create	
Delete WPT	
Yes	No
Sort	
Goto	
Delete All	
SHOW ON MAP	

## Deleting a waypoint

Delete the Waypoint in Waypoint List .

### Steps:

- (1) Use the **UP/DOWN** keys to highlight the waypoint which you want to delete, press **NAV** key to enter the option menu, use the **UP/DOWN** keys

to highlight **Delete** in the option menu, press **NAV** key to enter

**Delete WPT** page.

(2) In the **Delete WPT** page, use the **LEFT/RIGHT** keys to highlight the Yes button, press the **NAV** key to delete the waypoint.

- **Sorting**

The waypoints in Waypoint List are sorted by name (Alphabetical) to display.

**Steps:**

Use the **UP/DOWN** keys to highlight the **Sort** in the option menu, press the **NAV** key to sort.

- **Goto**


Goto is the basic navigation method, it will guide you from your current location to the destination waypoint. Before navigating waypoint, you should go to the **SETUP** page to set the value of the Destination Alarm. When the waypoint is being navigating, press the **ESC** key to enter the Navigation Page, the icon on the compass is the navigation waypoint's icon. The name in the middle of the page is the name of navigation waypoint. If the current location is nearby the destination of the navigation waypoint, the alarm page will appear.

**Steps:**

(1) To start navigation, use the **UP/DOWN** keys to highlight **Goto** in the option menu, and press the **NAV** key to start navigation.

(2) To stop navigation, use the **UP/DOWN** keys to highlight **Stop** in the option menu, and press the **NAV** key to stop navigation.

★ **NOTE :**

*When the navigation is activated, the corresponding option in the option menu will become Stop option, you can't edit or delete the navigation waypoint. The icon  will be shown before the navigation waypoint's name.*

- **Deleting all waypoints**

Delete all the waypoints in Waypoint List.

(1) Use the **UP/DOWN** keys to highlight **Delete All** in the option menu,

press the **NAV** key to delete all the waypoints.

- (2) On the **Delete All WPTS** page, use the **LEFT/RIGHT** keys to highlight the Yes button, press the **NAV** key to delete all the waypoints.

### 3. Proximity Waypoint

Use the **UP/DOWN/LEFT/RIGHT** keys to select P\_WPT on the Main Menu page, and press the **NAV** key to enter the Proximity WPT page.



You can set some proximity waypoints in the unit, the proximity alarm page will appear when close to the proximity waypoint. The Proximity WPT page shows the proximity waypoints which are saved. The proximity waypoint's name is shown at the left of the page, the proximity radius is shown at the right of the page. Use the **LEFT/RIGHT** keys to highlight the waypoint's name and radius, use the **UP/DOWN** keys to highlight the each waypoint. Highlight a waypoint and press the **NAV** key to enter the option menu, the contains **Move in**, **Remove** and **View**. Highlight a radius and press the **NAV** key to set radius.

- **Moving in a waypoint**

Select a waypoint form Waypoint List to add to the Proximity WPT.



**Steps:**

- (1) Use the **UP/DOWN** keys to highlight **Move in** in the option menu, and press the **NAV** key to enter Waypoint List page .
- (2) Use the **UP/DOWN** key to highlight the waypoint which you want to put it in the Proximity WPT and press the **NAV** key to confirm.

- **Removing a waypoint**

Remove the waypoint in the Proximity WPT.

**Steps:**Use the **UP/DOWN** keys to highlight the waypoint which you want to remove, and press the **NAV** key to remove the waypoint from the Proximity WPT.

- **Viewing a proximity WPT** View the information of the WPT in Proximity WPT

**Steps:**

(1) Use the **UP/DOWN** keys to highlight **View** in the option menu, and press the **NAV** key to enter the Attribute page.

(2) Press the **ESC** key to return to the Proximity WPT page.

- **Changing alarm radius**

Changing radius can change the alarm radius of the proximity waypoint.

**Steps:**

(1) Use the **LEFT/RIGHT** keys to highlight select the alarm radius in the Proximity WPT, and press the **NAV** key to change the number.

(2) Use the **LEFT/RIGHT** keys to select the figure, use the **UP/DOWN** keys to change the figure, and press the **NAV** key to change.



## Chapter 6 Route

Use the **UP/DOWN/LEFT/RIGHT** keys to select **R\_LIST** on the Main Menu page, press the **NAV** key to enter the **R\_LIST** page.

- **Creating a route**



**Steps:**

- (1) Use the **UP/DOWN/LEFT/RIGHT** keys to highlight **Create** in the option menu, and press the **NAV** key to enter Create Route page.
- (2) Press the **NAV** key on the Create Route page to display option menu page, use the **UP/DOWN** keys to highlight Add WPT and press the **NAV** key to enter the WPT List page.
- (3) Use **UP/DOWN** key to highlight a waypoint which you want to put it in the route, and press the **NAV** key to confirm.
- (4) Add some WPT as the third step, then press the **NAV** key enter the option menu, select Save Route in the option menu (and here you can Insert WPT and Remove WPT, But do not recommend the use of Insert WPT here, This will be carried out in the Edit Route). Press the **NAV** key to enter the Edit Name page, use the **LEFT/RIGHT** keys to select the characters, use the **UP/DOWN** keys to change the characters, highlight the OK button and press the **NAV** key to save.

- **Editing a route**

The function can edit the existing routes. There are four edit:

**Add WPT, Insert WPT, Remove WPT, Save Route.** They Edit is similar to Create.

**Steps of Add WPT:** List page.

- (3) Use the **UP/DOWN** key to highlight a waypoint which you want to put it in the route, and press the **NAV** key to confirm (Edit operation will be automatically preserved), the WPT will be add to end
- (1) Use the **UP/DOWN** keys to highlight **Edit** in the option menu, and press the

**NAV** key to enter Edit Route page

- (2) Press the **NAV** key on the Edit Route page to display option menu page, use the **UP/DOWN** key to highlight Add WPT and press the **NAV** key to enter the WPT.

### Steps of Insert WPT:

- (1) Use the **UP/DOWN** keys to highlight **Edit** in the option menu, and press the **NAV** key to enter Edit Route page.
- (2) Use the **UP/DOWN** keys to highlight the waypoint where you want to insert. Press the **NAV** key on the Edit Route page to display option menu page, use the **UP/DOWN** key to highlight Insert WPT and press the **NAV** key to enter the WPT List page.
- (3) Use the **UP/DOWN** key to highlight a waypoint which you want to insert it into the route, and press the **NAV** key to confirm.

### Steps of Remove WPT:

- (1) Use the **UP/DOWN** keys to highlight **Edit** in the option menu, and press the **NAV** key to enter Edit Route page.
- (2) Use the **UP/DOWN** keys to highlight the waypoint which you want to remove. Press the **NAV** key on the Edit Route Page to display option menu page, use the **UP/DOWN** keys to highlight Remove WPT and press the **NAV** key to remove the waypoint.

### Steps of Save WPT s:

- (1) Use the **UP/DOWN** keys to highlight **Edit** in the option menu, and press the **NAV** key to enter Edit Route page.



- (2) Press the **NAV** key to enter the option menu, use the **UP/DOWN** keys to highlight Save Route and press the **NAV** key to enter Edit Name page, use the **LEFT/RIGHT** keys to select the characters, use the **UP/DOWN** keys to change the characters, highlight the OK button and press the **NAV** key to save.

- **Deleting a route**

Routes in the list can be deleted.

**Steps:**

(1) Use the **UP/DOWN** keys to highlight the track which you want to delete, and press the **NAV** key to enter the option menu, use

the **UP/DOWN** keys to highlight **Delete** in the option menu, and press the **NAV** key to enter Delete Route page.

(2) Use the **LEFT/RIGHT** keys to highlight Yes button, and press the **NAV** key to delete the seleted Route.

- **Sorting**

Routes in Route List can be sorted by name(Alphabetical) to the show .

**Steps:**

Use the **UP/DOWN** keys to highlight **Sort** in the option menu, and press the **NAV** key to sort.

- **Navigating a route/Returning**


Navigate/Return a navigation function, the function lets the navigation route guide you to the destination. Before navigating a route, you should go to the SETUP page to set all the values of Alarm. In the state of route navigation, you can view the route navigation data on the navigation page. If you close to the point whose type's Alarm you set in the SETUP, the automatically alarm page will appear.

**Steps:**

- (1) To start navigation, use the **UP/DOWN** keys to highlight Navigate in the option menu, and press the **NAV** key to start navigation.
- (2) To stop navigation, use the **UP/DOWN** keys to highlight Stop in the option menu, and press the **NAV** key to stop navigation.

\* **NOTE :**

*When the navigation is activated, the corresponding option in the*

*menu will become Stop option, you can't edit or delete the navigation route. The icon  will be shown before the navigation route's name. Return is similar to navigation, but it is the reverse route navigation guidance.*

- **Deleting all routes**

Use the Delete All option in the option menu to delete all routes in the Route List.

**Steps:**

- (1) Use the **UP/DOWN** keys to highlight **Delete All** in the option menu, and press the **NAV** key to enter Delete All Routes page .
- (2) Use the **LEFT/RIGHT** keys to highlight Yes button, and press the **NAV** key to delete all Routes .

## Chapter 7 Track

Use the **UP/DOWN/LEFT/RIGHT** keys to highlight T\_LIST on the Main Menu page, and press the **NAV** key to enter Track List page.

Track is the function to record the track you move, can be used to navigate. T\_LIST page show the Tracks which are saved. The **Start** or **Stop** buttons at the top of the page control the recording. The track list is shown at the center of the page. The distance and area of the current selected track is shown at the bottom of the page. You can select a track's name and press **NAV** key enter the option menu page, there are **Navigate/Stop, Return/Stop, Attribute, Delete** .

- **Recording a track**

**Steps:**

- (1) If you want to start record a track, highlight the **Start** button, and press the **NAV** key to enter the Edit Name page, use the **LEFT/RIGHT** keys to highlight the characters, and use the **UP/DOWN** keys to change the characters, highlight the **OK** button and press the **NAV** key to start record.
- (2) If you want to stop record, highlight the **Stop** button, and press **NAV** key to stop record.

- **Navigating a track/Returning**

Navigate/Return is a navigation function, the function lets the navigating a track, you should go to the **SETUP** page to set the values of **XTE** and **Destination Alarm**. In the state for track



navigation, the navigation data will be shown on the navigation track guide you to the destination. Before Navigation page. If you close to the point whose type's Alarm you set in the **SETUP**, the alarm page will appear automatically.


**Steps:**

- (1) Need to start navigation, Press **UP/DOWN** keys in **MENU** page and

select **Navigate/Return**, press **Navigation** key .

\* **NOTE :**

- (3) Need to stop navigation, Press **UP/DOWN** keys in MENU page and select stop, press **NAV** key.

*When the navigation is activated, the corresponding option in the option menu will become Stop option, you can't edit or delete the navigation track. The icon  will be shown before the navigation track's name. Return is similar to navigation, but it is the reverse track navigation guidance.*

- **Attribute of a track**

View the attribute of the tracks in the Track List, there are the beginning time and the end time of the track record, average speed, distance, area and track points.

**Steps:**

Use the **UP/DOWN/LEFT/RIGHT** keys to highlight **Attribute** in the option menu, and press the **NAV** key to enter.

- **Deleting a track**

You can delete the tracks in the Track List.

**Steps:**

- (1) Use the **UP/DOWN** keys to highlight the track which you want to delete, press the **NAV** key to enter the option menu, use the **UP/ DOWN** keys to highlight the **Delete** in the option menu, and press the **NAV** key to enter the Delete Track page.
- (2) Use the **LEFT/RIGHT** keys to highlight Yes button, and press the **NAV** key to delete the selected track.

## Chapter 8 Other Function

### 1. Measure

Use the **UP/DOWN/LEFT/RIGHT** keys to select **MEASURE** on the Main Menu page, press the **NAV** key to enter the option menu, the options are Measure DIS and Measure Area. If the unit has a GPS fix, you can use the function to measure distance or measure area.



- **Measuring distance**

Use this function to measure the straight line distance between two points, after starting, before stopping, the distance is changed with the current location change in real-time.

**Steps:**

(1) Use the **UP/DOWN** keys to highlight the **Measure DIS** in the option menu, and press the **NAV** key to enter the Measure DIS page.

(2) Highlight the Start button and Press the **NAV** key to start measuring.

(3) Highlight the Stop button and Press the **NAV** key to stop measuring.

(4) If you want to restart, highlight the Reset button and press the **NAV** key to restart.

- **Measuring area**

Use this function to measure the area of a region, can use the unit to measure the area around the regional.

**Steps:**

(1) Use the **UP/DOWN** keys to highlight the **Measure Area** in the option menu, and press the **NAV** key to enter the Measure Area page.

(2) Highlight the Start button and press the **NAV** key to start measuring.

(3) Highlight the Stop button and press the **NAV** key, the **Save it as a track** page will appear.

(4) Use the **LEFT/RIGHT** keys to highlight the Yes button and No button, if you want to save it as a track, highlight the Yes button and press the **NAV** key to save, if you don't want to save it, highlight the No button and

- (5) If you want to restart, highlight the Reset button and press the NAV key to restart measuring.

## 2. Find

Use the **UP/DOWN/LEFT/RIGHT** keys to select FIND on the Main Menu page, press the NAV key to enter the Find page。



If there are data in the unit, you can use this function to search the waypoints, routes and tracks. If there are no data, the Inexistence alarm page will appear.

### Steps of Find WPT:

- (1) Use the **UP/DOWN** keys to highlight **WPT** in the Find list, press the NAV key to enter Edit Name page.
- (2) On the Edit Name page, use the **LEFT/RIGHT** keys to select the

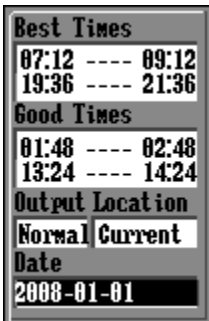
characters, use the **UP/DOWN** keys to change the characters, highlight **OK** button and press the NAV key to find.

- (3) If the name is existent waypoint's name, the WPT Attribute page will appear. Find Routes and Track is similar to Find WPT.

## 3. Hunt & Fish

Use the **UP/DOWN/LEFT/RIGHT** keys to select H & F on the Main Menu page, and press the NAV key to enter the Hunt & Fish page.

On the Fish and Hunt page, you can view the best times, good times and the output forecasting for a location.



### Steps:

- (1) If you want to modify the date, press the NAV key to enter edit mode, press the **LEFT/RIGHT** keys to select the figures, use the **UP/DOWN** keys to change the figures, and press the NAV key to confirm.
- (3) If you want to modify the location, press the **U** **P** key highlight the Location field and press

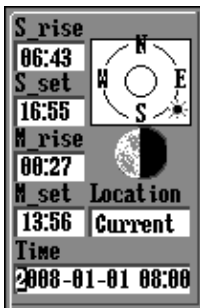


the NAV key to enter the option menu, press the UP/DOWN keys to highlight Current or Use map.(If you want to know the condition of the current location, please highlight Current in the option menu; If you want to know the condition of a location on the map, please highlight Use map in the option menu).If you highlight Use map in the option menu, press the NAV key to enter the Map page, and ramble through to select the location, use the NAV key to confirm and return to the Hunt and Fish page.

#### 4. Sun & Moon

Use the UP/DOWN/LEFT/RIGHT keys to select S & M in the Main Menu page, and press the NAV key to enter the Sun & Moon page。 On the Sun & Moon page, you can view the times for the sunrise, sunset, moonrise, moonset.

##### Steps:



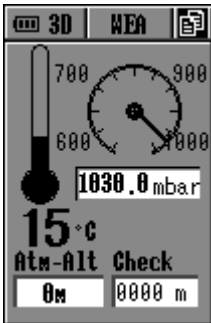
- (1) If you want to modify the date, press the NAV key to enter edit mode, press the LEFT/RIGHT keys to select the figures, use the UP/DOWN keys to change the figures, and press the NAV key to confirm.
- (2) If you want to modify the location, press the UP key highlight the Location field and press the NAV key to enter the option menu, press the UP/DOWN keys to highlight Current or Use map.(If

you want

to know the condition of the current location, please highlight Current in the option menu; If you want to know the condition of a location on the map, please highlight Use map in the option menu).If you highlight Use map in the option menu, press the NAV key to enter the Map page, and ramble through to select the location, use the NAV key to confirm and return to the Hunt and

Fish page.

## 5. Weather



This feature is in the HN-3000 version.

Use the **ESC** key to switch to the Weather page on the other main pages, or use the **UP/ DOWN/LEFT/RIGHT** keys to select WEA in the Main Menu page, and press the **NAV** key to enter the Weather page.

This feature provides temperature, atmospheric pressure, Atm-Alt(atmospheric pressure altimeter). The temperature and pressure are shown it the form of icons and figures, the

Atm-Alt here and other altitude are different, other altitude data is from GPS information, the Atm-Alt here is calculated from the pressure. The atmospheric pressure altimeter requires that you calibrate every 2-3 hours to help compensate for changes in weather and other factors that can influence atmospheric pressure altimeter readings.

### Method for calibrating:

- (1) If the cursor is at the Main Menu icon on the page, press the **DOWN** key to highlight the Check field.
- (2) Press the **NAV** key to enter edit mode, and press the **LEFT/RIGHT** keys to highlight the figures.
- (3) Use the **UP/DOWN** keys to change the figures, and press the **NAV** key to update.

## 6. Tools



Use the **UP/DOWN/LEFT/RIGHT** keys to select **TOOLS** in the Main Menu page, and press the **NAV** key to enter the option list, you can select Stopwatch in the list.

- **Stopwatch**

You can see last lap time (Last), current lap time (Current), total lap time (Total), average lap time (Avg), 1 ap distance (Lap DIS)

Steps:

- (1) On the Stopwatch page, highlight the Start button and press the **NAV** key to start time.
- (2) Highlight the Stop button and press the **NAV** key to stop time.
- (3) If you need to record a new lap, in the timing status, use the **RIGHT** key to highlight the Lap button and press the **NAV** key.
- (4) If you want to start once again, in the stopping status, use the **RIGHT** key to highlight the Reset button and press the **NAV** key.

- **System info**

You can view the information of S/N, WPT Memory, Route Memory and Trace Memory. For example, 5/1000, its meaning is that there are 5 waypoints in the unit and you can save 1000 waypoints in the unit.



## 7. Communication

The unit provides the communication capability with a computer, use the **UP/DOWN/LEFT/RIGHT** keys to select **COMMU** in the Main Menu page, and press the **NAV** key to start communicating. This function must be used with the external communications software.

## 8. Googleearth

This feature is in the HN-2000/HN-3000 version.

This feature provides uploading the waypoints, routes, tracks from the unit to a computer and converting into the google earth data format. use the **UP/DOWN/LEFT/RIGHT** keys to select **GE** in the Main Menu page, and press the **NAV** key to start communicating. This function must be used with the external communications software.



## Troubleshooting

### 1. The screen is blank after you press the POWER key.

- Wrong batteries installation or no enough power. Check to insure that the batteries are installed correctly and that the battery terminals are clean. Or replace the batteries.
- You may did not make valid operations (press is too light to start the unit). Please press **POWER** key again till the unit responses and hear a sound “B” and see the welcome page.
- If you hear a sound “B”, then the unit is already turned on. You need to adjust screen contrast until you can recognize the words on the screen. Please take a reference in page 3 on “Turning the unit on”.

### 2. Battery choices.

You can use alkaline battery or rechargeable battery in unit. But if you use rechargeable battery, the unit can not show you the correct information on the batteries condition.

### 3. Unavailability of satellite signals for long time.

- Make sure you are operating the unit outdoors, not in a house or a covered building.
- Ensure the sky is clear and open since it will influence the satellite signals reception.
- Check your surroundings, there may be some electric or magnetic field around you or the unit which can interfere the normal work of unit, such as wireless radio station, radio tower or high-voltage wires and cables, and etc.

### 4. The unit has water outside and inside.

Wipe down the water outside of the unit with clean clothing. Put it in a windy place without direct sunshine and dry the inside. Then try to turn it on again to see if it works well. If it is still not good, please contact local maintenance agency. Never try to open the unit by yourself.

**5. Though in open area with clear sky, the unit can not track satellite.**

- It's most because the unit had worked indoor for long time and been brought outdoor directly. Please turn off the unit outdoor and restart it.
- The unit is damaged. Please contact local dealer or supplier.

**6. The unit dropped or collided.**

Check the appearance completeness of the unit. Contact the local maintenance agency if you find the unit does not work well.

**7. The unit “freeze” or have delayed reaction to button/toggle presses or data is lost、 wrong.**

- There are above issues when the unit is not turned off normally, press “**restore**” to clear the wrong data.
- Press the power KEY to turn off the unit. If the power of the unit is suddenly disconnected when the data is saving, the data in the unit may be lost or error, the unit may be “freeze”.

## Prompts

- No signal  
The GPS signal is not be received.
- Memory Full!  
The unit's memory is full, if you want to save more, you must delete some waypoints or routes or tracks and spare space in the unit.
- NameExisted  
The name is same to the another.
- W\_Navigation/R\_Navigation/T\_Navigation  
The unit is with navigating WPT or navigating route or navigating track.
- No WPT/Route/Track  
There is no WPT/route/track in the unit.
- Measuring  
You can't record track when the unit is measuring area,
- Data Error  
A route has at least two waypoints.
- Low Battery  
When the batteries are too weak to support operation, the unit will pop up this prompt.
- Destination  
When the unit is set to WPT/route/track navigation status, the prompt will appear once your current leg goes in the circle with the radius setted in the SETUP.
- Hzard  
When the unit is set to route navigation status and the Hazard is
- setted in the route, the prompt will appear once your current leg goes in the circle with the radius setted in the SETUP.
- Anchor

When the unit is set to route navigation status and the Anchor is setted in the route, the prompt will appear once your current leg goes in the circle with the radius setted in the SETUP.

- Landmark

When the unit is set to route navigation status and the waypoint is setted in the route, the prompt will appear once your current leg goes in the circle with the radius setted in the SETUP.

- XTE































When the unit is set to route/track navigation, the prompt will appear once your current leg goes in the circle with the radius setted in the SETUP.

- Turn off

Please press the POWER key to turn off the unit until the screen shut down, while it will appear the turn off page.

*The data in the unit may be lost or error, the unit may be “freeze” if the unit is not turned off normally.*

## Symbols

	Telephone Box		Limit
	Crossroad		Hotel
	Pound		Rockfall
	Coast		Dock
	Water Disaster		Hospital
	Lake		Forbidden Area
	Crossing		Tree
	Cave-in		Hazard
	Split		Leakage
	Bulge		Gas Station
	Bivouac		Park
	Restaurant		Bridge
	Human		Water Source
	WPT		Airport
	Bank		Shopping