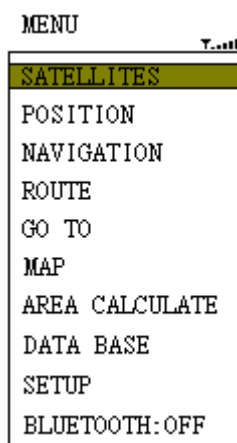


GP Smart Manual

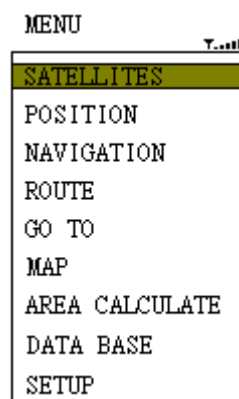
一、 Main Function Introduction

- (1) SATELLITES
- (2) POSITION
- (3) NAVIGATION
- (4) ROUTE
- (5) GO TO
- (6) MAP
- (7) AREA ALCULATE
- (8) DATA BASE
- (9) SETUP
- (10) BLUETOOTH (Only for Bluetooth version)

Attention: Bluetooth item of operation is only for Bluetooth version.



Bluetooth version



Without Bluetooth
version

二、 The operation mode and instruction.

The mode has four buttons.

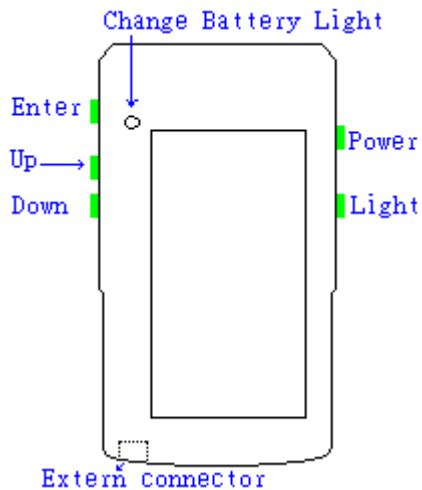
Power: Power switch.

Back light button: Use it at night or darkness.

Enter button: Enter function.

Up: Up

Down: Down.



三、 Instruction of main function

After pushing power, it will display company logo.

Then push next or enter, it will turn to main function.

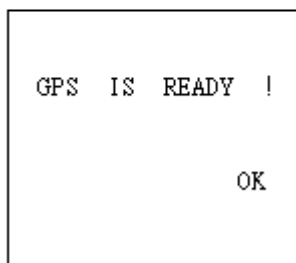
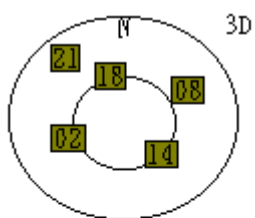
Step 1: Satellite Distribution:

Step 2: Display Route.

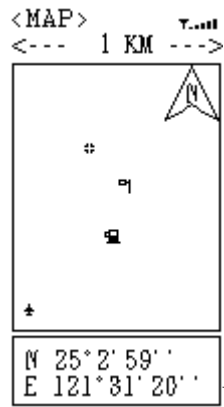
Step 3: Route Function

Step 4: Manu Selection

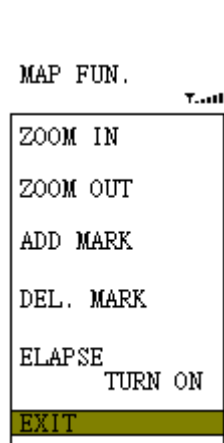
Press up or down button for continuing three times, it will turn into main function.



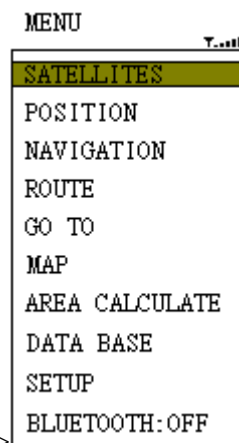
Satellite Distribution=>



User's Movement=>



Map Function=>

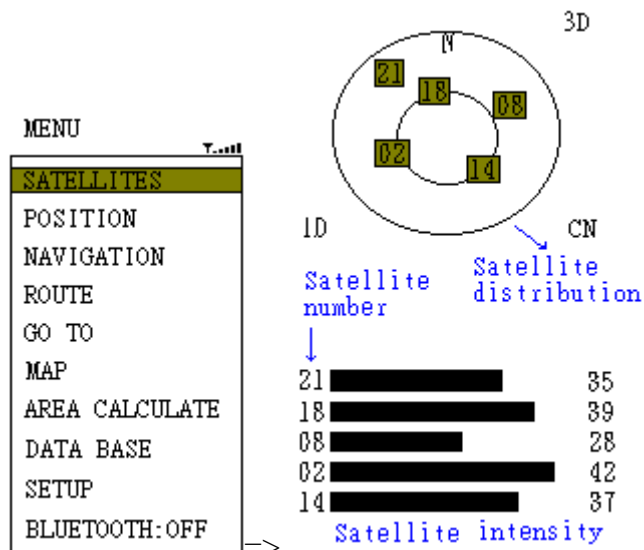


Menu

Turn off power switch as long as push power again.

(1) Satellite Distribution and Satellite Intensity

In the menu, pressing the next and choosing " SATELLITES". Then, the screen will display satellite distribution and single intensity. As long as pushing enter again, it will come back to main function. The function only indicates satellite signal condition.



Satellite Distribution

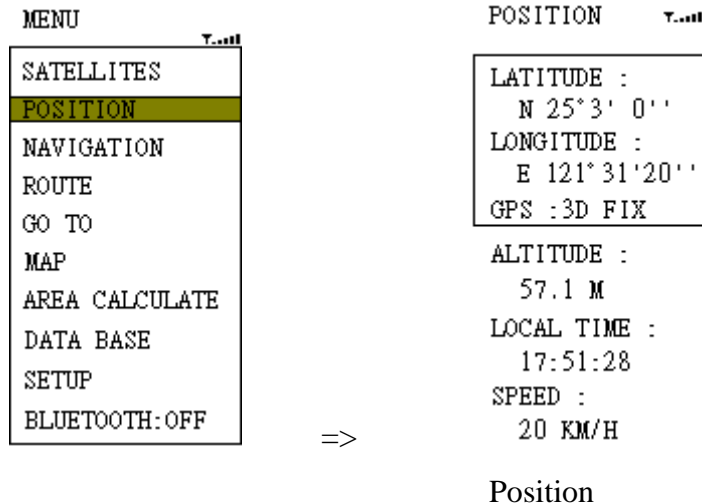
The two circle of above half screen is satellite distribution. There are two circles of the graph; the big one indicates horizon and the other indicates to turn upward 45 degree. The center indicates zenith, such as ninety degree of elevation. There is an “N” in the big circle side; it indicates the North. There are several squares of the big circle; they indicate satellites. The inner number of squares is satellite serial number. The low part of the screen is satellite single intensity display. The left value indicates satellite serial number. Right value indicates satellite intensity.

Attention item:

1. After turn on the machine, if satellites gather in “N” indicate unlock. You must wait until “2D” or “3D” on the up right screen.
2. Sometimes you may find satellite distribution amount is different from satellite intensity for over two satellites location are near, so it overlap. Therefore, satellite distribution amount is usually less than satellite intensity.

(2) Position, time and height display at present.

In the main function, pushing option to “Position”, then pushing select, the screen will change. The function let user know their location, height, time and satellite lock situation.



2-1 The square of screen indicates position at present. There are four items of Latitude. The first means north latitude and south latitude. The second, third, and forth are degree, minute and second.

One degree= 60 minutes, One minute= 60 seconds.

The coordinate system value is WGS84 (GPS) or GSR80 (TWD97). Please pay attention if you use another map.

2-2 Fix user's position status as follow:

GPS : SEARCHING => user's position not fixed.

GPS : 2D FIX => 2 dimensional fix user's position.

GPS : 3D FIX => 3 dimensional fix user's position.

2-3 Altitude means length from sea level to position at the present. The unit is meter. Push up or down can change to ft.

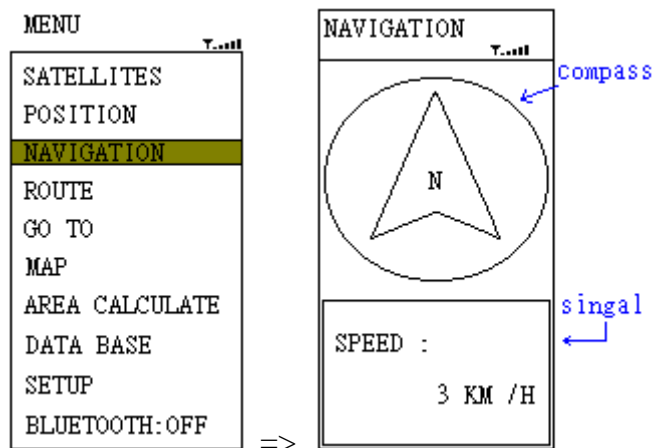
2-4 Local Time means Greenwich Mean Time add time zone offset. Others area code can adjust from main function "SETUP".

2-5 Speed indicates moving speed. The unit is KM/ H and MI/ H selectable.

(3)Display Navigation

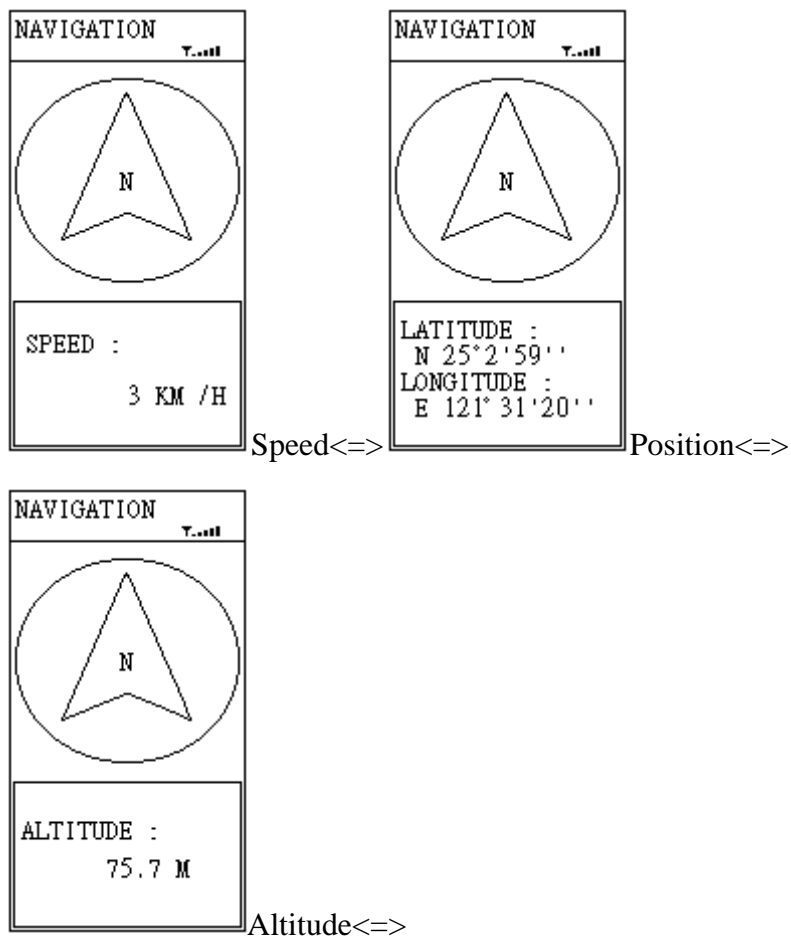
The function indicates the North direction and general information.

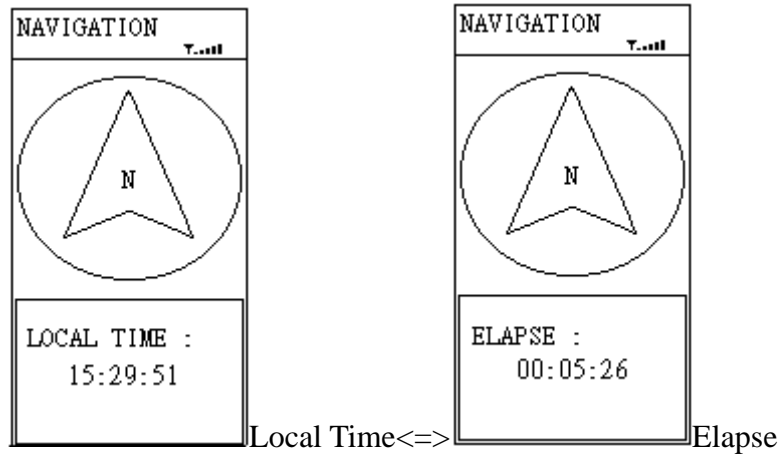
3-1. As follow :



3-2.Select Function :

3-2-1 Push up or down bottom to select "SPEED"," LOCATION"," LOCAL TIME"," ALTITUDE" and "ELAPSE".



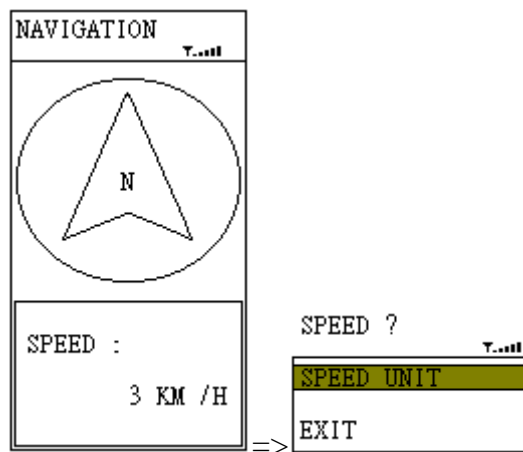


<=>Return “Speed”.

3-2-2 It provides different choices depend on function.


Speed: Change speed unit to MI/H <-> KM/H

Exit



Now Position : Change location unit to degree <-> degree, minute and second.


Exit

NAVIGATION	
	
LATITUDE : N 25°2'59'' LONGITUDE : E 121°31'20''	

=>

POSITION ?	
POSIT. UNIT	
EXIT	

Latitude : Change latitude unit to **FT** <-> **M**


NAVIGATION	
	
ALTITUDE : 75.7 M	

=>

ALTITUDE ?	
ALT. UNIT	
EXIT	

Local Time : Change time unit to **24 H** <-> **12 H**

Exit

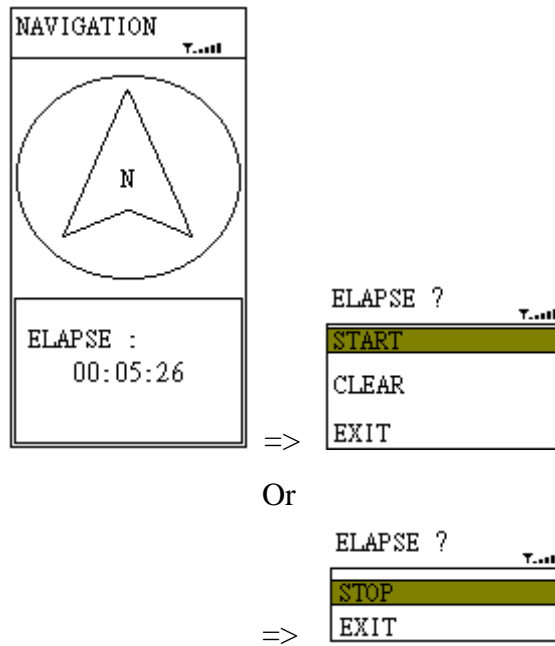
NAVIGATION	
	
LOCAL TIME : 15:29:51	

=>

TIME ?	
TIME UNIT	
EXIT	

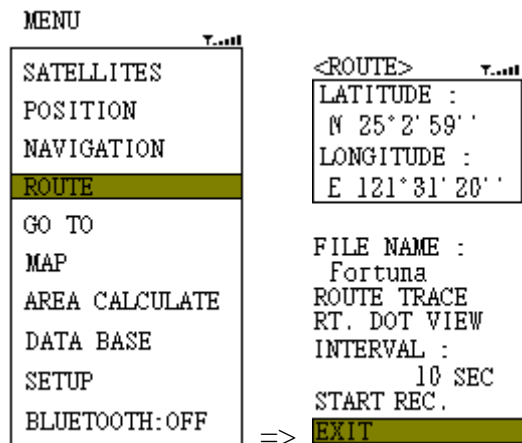
Elapse : Record item ; START,CLEAR <=> STOP

Exit ;



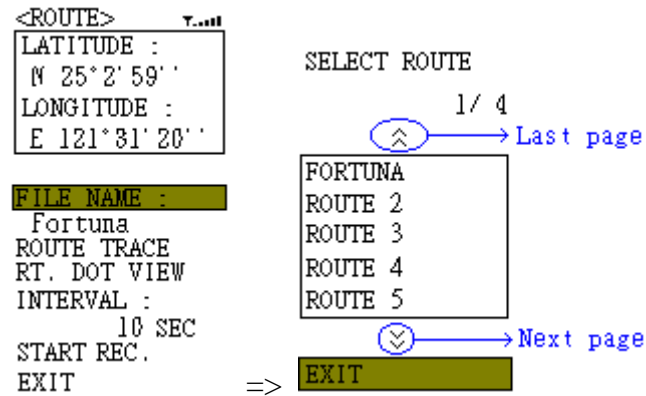
(4) Display Route

The function can record your route point, when you go to uncertain place. After you arrive at destination, it can guide user come back to the starting place.

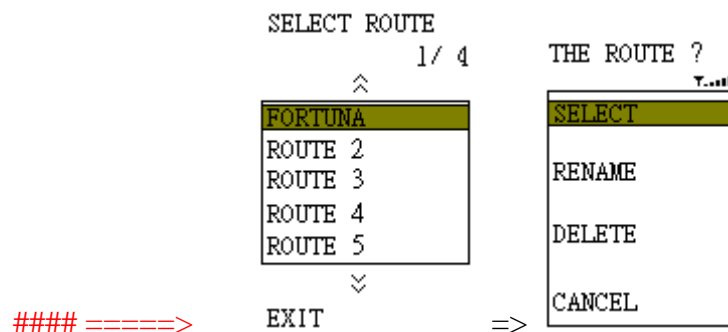


4-1. 航跡檔案操作模式

4-1 Operation of Route



Select route file and enter it, it will display sub selections.



The sub selections are:

A.SELECT :
Select route.

B.RENAME :
Rename route name.


C.DELETE :
Delete route data.

D.CANCEL :
Cancel and select another route.

The 20 set of route are available. There are four pages, and each page has 5 sets.

Attention: The 20 set route can use area calculate function.

4-2 Trace


<pre> <ROUTE> LATITUDE : N 25°2'59'' LONGITUDE : E 121°31'20'' FILE NAME : Fortuna ROUTE TRACE RT. DOT VIEW INTERVAL : 10 SEC START REC. EXIT </pre>	<pre> TRACE <-- 10KM --> </pre>  <pre> N 25°2'59'' E 121°31'20'' </pre>
---	--

=>

4-2-1.Display-route trace.

4-2-2 Push up or down button can change scale.

4-2-3.Push enter button to exit and return to “Route” function.

<pre> TRACE <-- 10KM --> </pre>  <pre> N 25°2'59'' E 121°31'20'' </pre>	<pre> <ROUTE> LATITUDE : N 25°2'59'' LONGITUDE : E 121°31'20'' FILE NAME : Fortuna ROUTE TRACE RT. DOT VIEW INTERVAL : 10 SEC START REC. EXIT </pre>
---	---

=>

4-3 Route View Mode

Use the function to view past route trace.

4-3-1 Select route view item

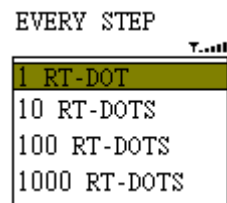
```

<ROUTE>
LATITUDE :
  N 25°2'59''
LONGITUDE :
  E 121°31'20''

FILE NAME :
  Fortuna
ROUTE TRACE
RT. DOT VIEW
INTERVAL :
  10 SEC
START REC.
EXIT

```

4-3-2 Set route dots of “EVERY STEP”

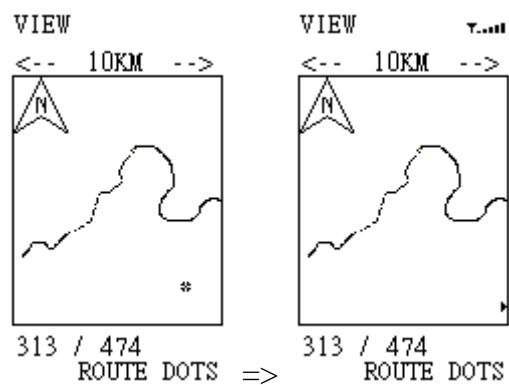


4-3-3 Display Trace

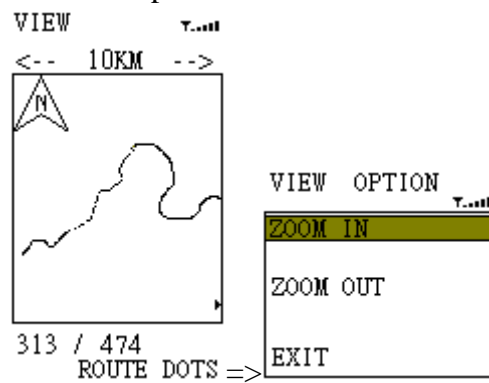
It will add trace dots as long as you push up down button.

It will delete trace dots as long as you push up button.

Because the screen use trace point as central point, user's position may beyond range. If user beyond range, it will use triangle to indicate user's position. As fellow, user stands on right side of triangle and the distance is uncertain.



4-3-4 View Option



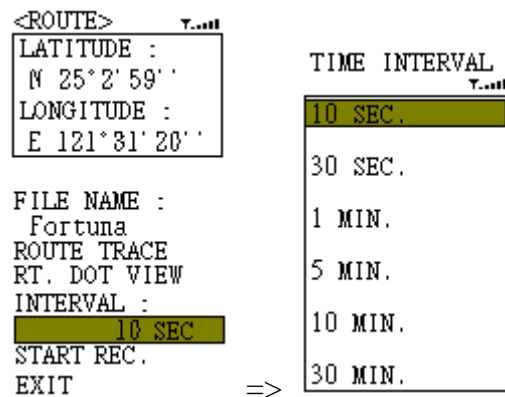
在顯示航跡途中按下決定鍵，隨即顯示航跡觀察選項。可設定將地圖拉近、拉遠或者跳出此模式並回到航跡主選單。

4-4 Set Time Interval

It indicates time interval of route.

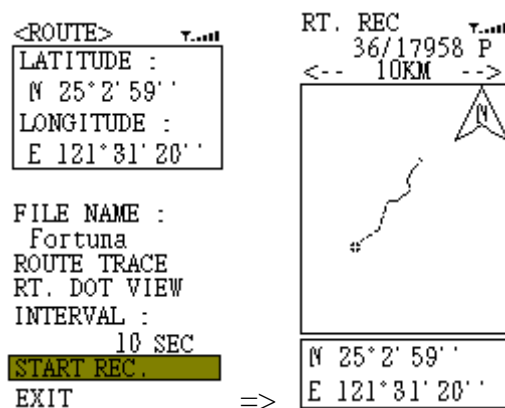
Ten seconds => Thirty seconds => One minute => Five minutes =>

Ten minutes => Thirty minutes => Ten seconds



4-5 Start Record

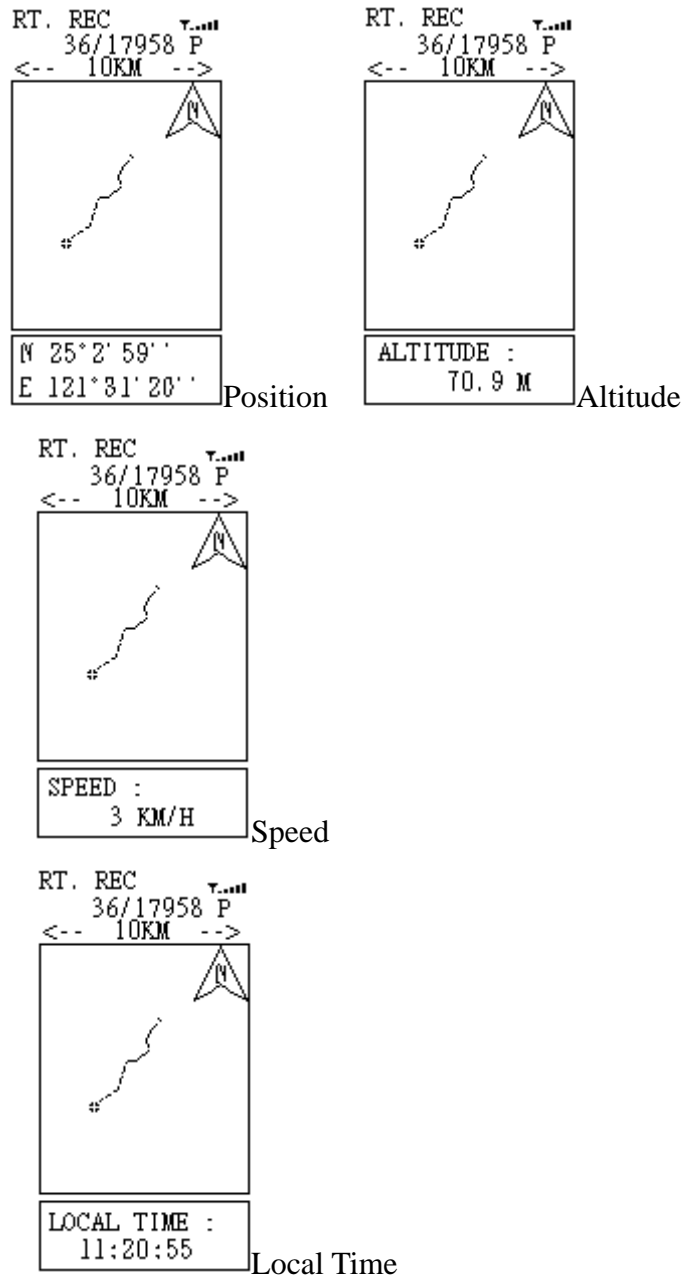
After enter "START REC", you can view moving direction and route.

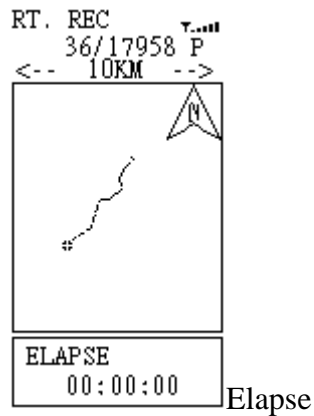


4-5-1. After you push “START REC” item, it will start to record.

It can view your moving direction and your route.

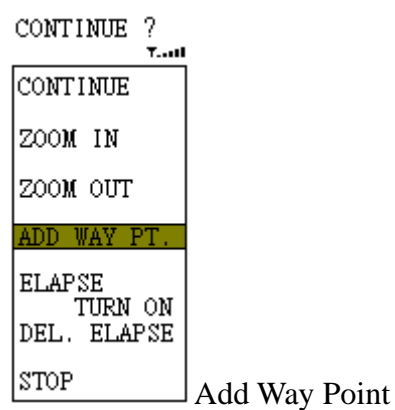
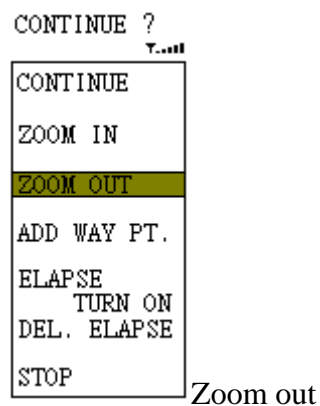
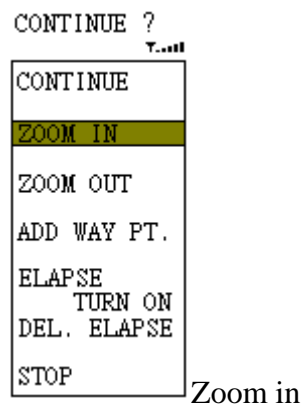
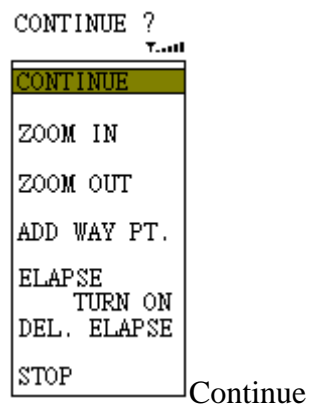
4-5-2. Push up or down button can view user's information, for example, now position, time and recording time.

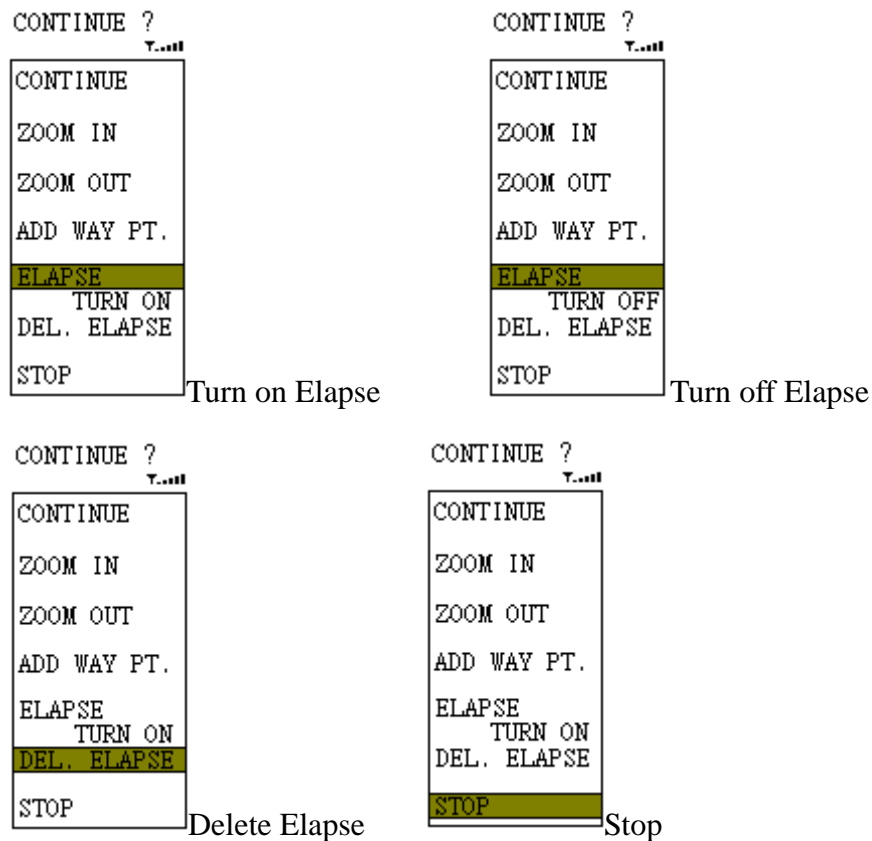




4-5-3.按決定鍵開啟子功能選項，可選擇 [繼續、地圖放大、地圖縮小、增加路徑點、記錄時間操作模式、清除記錄時間、停止] 等功能。

4-5-3 Push enter to sub selection, you can choose “CONTINUE”, “ZOOM IN”, “ZOOM OUT”, “ADD WAY PT”, “ELAPSE” AND “STOP”.





“ADD WAY PT.” operation mode is as the same as “ADD MARK”, please refer to “DISPLAY MAP”. If satellite is not fixed, user cannot save data. User must go to spacious place until the signal is fixed. Way Point can only be saved when the GPS is Fixed.

WAY POINT
ROUTE NAME : TAIPEI 6/149 P
SAVE DATA ?
SAVE ? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
STATION R01 W006 N 25° 02' 59'' E 121° 31' 20''
EXIT

=>

WARNING !
SIGNAL WEAK !

4-6 Exit

```

<ROUTE>
LATITUDE :
N 25°2'59''
LONGITUDE :
E 121°31'20''

FILE NAME :
Fortuna
ROUTE TRACE
RT. DOT VIEW
INTERVAL :
10 SEC
START REC.
EXIT

```

(5) Display Target, Generally Position. Display the north.

In the main function, push up or down to “Go To”. It guides target direction and distance.

```

MENU
SATELLITES
POSITION
NAVIGATION
ROUTE
GO TO
MAP
AREA CALCULATE
DATA BASE
SETUP
BLUETOOTH:OFF

< GO TO >
TARGET :
OFFICE
N 25°03'01''
E 121°32'35''

N
↑
S
W

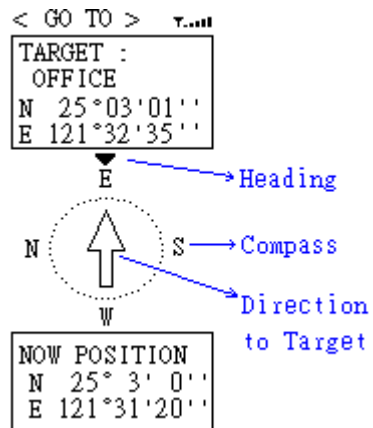
NOW POSITION
N 25°3'0''
E 121°31'20''

```

=>

Now Position

5-1As follow :



5-1-1 Instruction of the central icon

Solid Triangle: Heading

Circle: It indicates compass.

Arrow Head : The direction to target, if

Arrow Head indicates up , it means target is in front of user.

Arrow Head show down , it means target is back to user.

Arrow Head indicates right, it means target is in user's right side.

Arrow Head indicates left, it indicates target is in users left side.

5-1-2 Instruction for reference : As long as Arrow Head indicates to Solid Triangle(Heading), it means user is heading the right direction to target. User may follow the Arrow Head to adjust the moving direction to make the Arrow Head point to the Solid Triangle.

5-2.Operation :

5-2-1 : Push up or down to enter the selection:

User's position : Display now position.

Display Time Zone : Display local time.

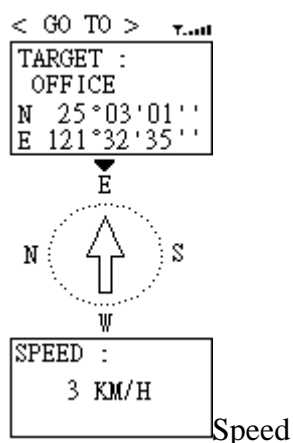
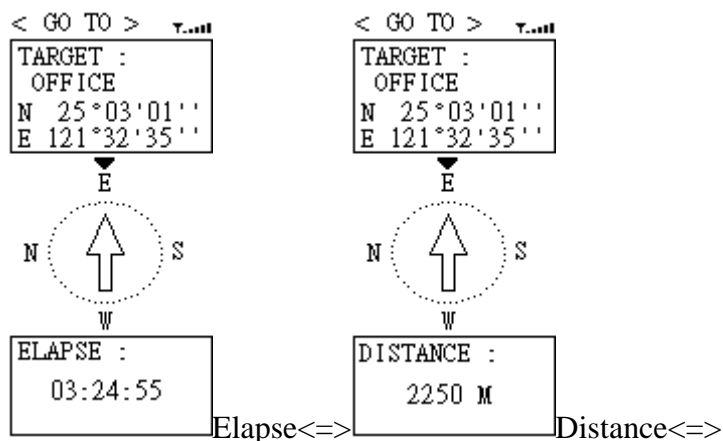
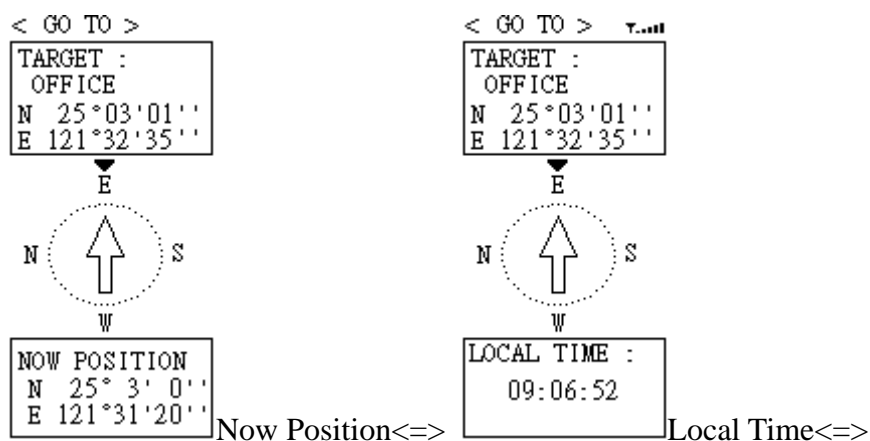
Elapse : Display from user push elapse to now.

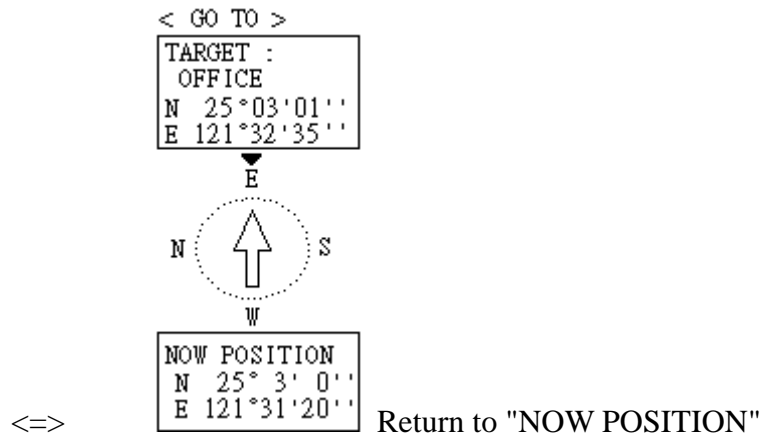
Distance : Display distance between user and target.

Speed: Display now user's moving speed.

距離若是低於 10 公里(6 英哩)，則距離單位會顯示公尺(英呎)。若是高於 10 公里(6 英哩)，則距離單位會顯示公里(英哩)。

速度：顯示使用者目前的速度。





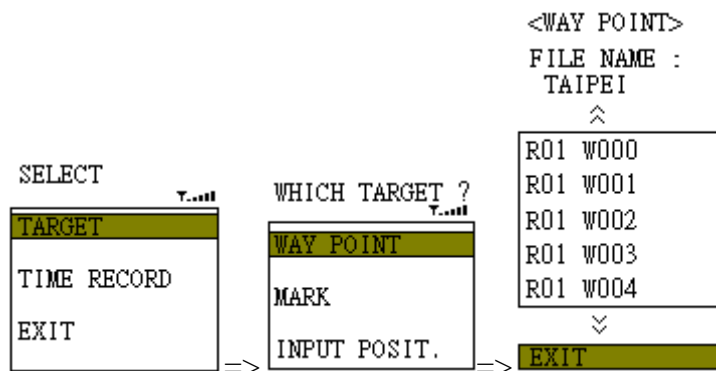
5-2-2 Push enter to select “ TARGET”, “ TIME RECORD”, and “ EXIT” function.

SELECT

TARGET
TIME RECORD
EXIT

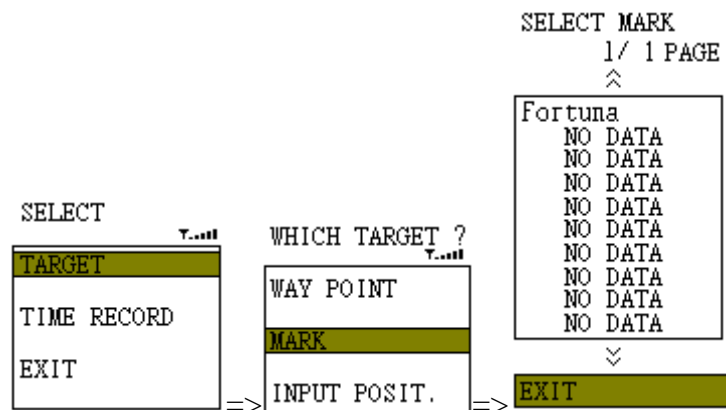
5-2-2-1 There are three selections of “ TARGET” function :

<1> WAY POINT



Target display way point data of route.

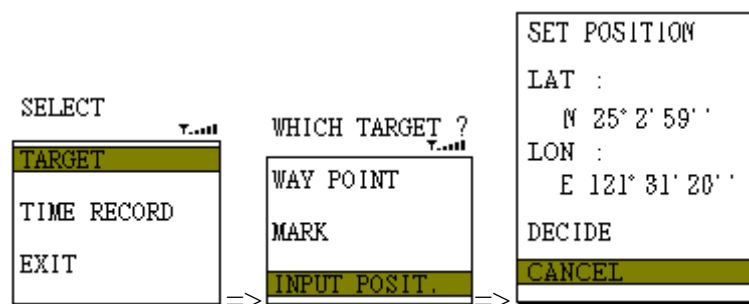
<2>MARK



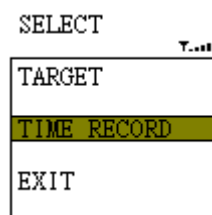
The mark data within now position's scale is 20KM*30KM and it doesn't display and change mark beyond 20KM*30KM.

<3> INPUT POSIT.

In the function, user can directly input position to be target.

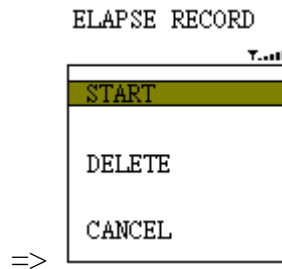


5-2 Push up and down to select "TIME RECORD". After push enter, you can manage it in "ELAPSE" function.

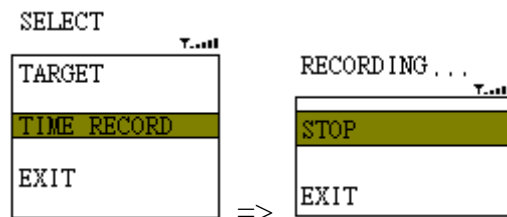


If "TIME RECORD" function stop, the screen will display "START" and "DELETE" selections. As long as push "DELETE", it will clear

“ELAPSE” selection.



If it is recording time, the screen will display “ STOP” selection.

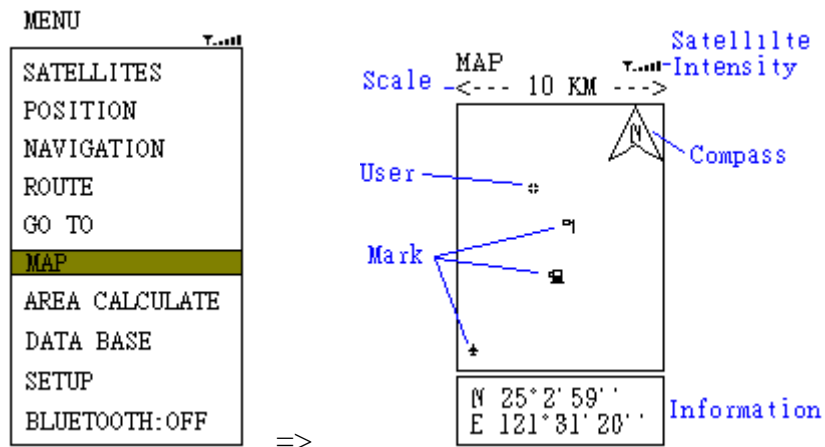


5-3 Push “ EXIT” to return main function.

(6) Display Map

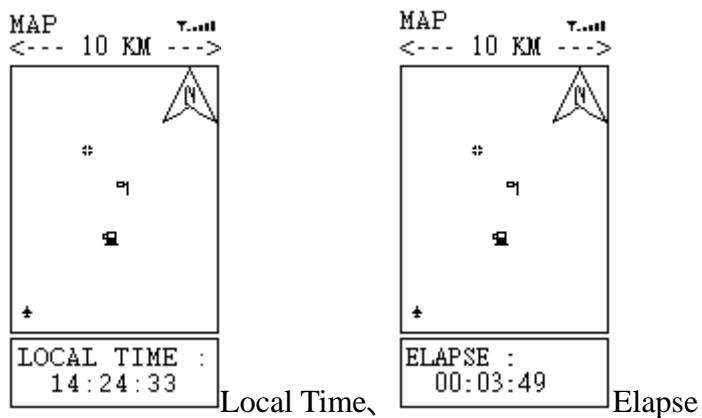
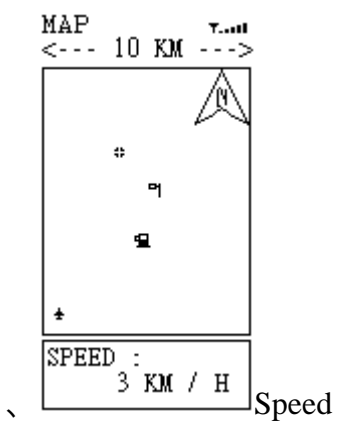
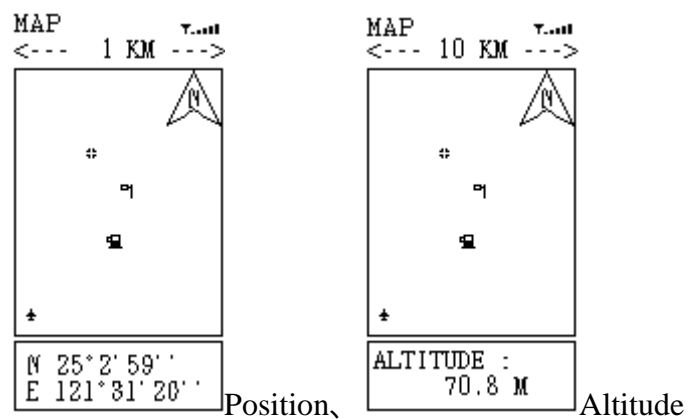
6-1.Instruction :

User’s position is a blinking icon. It will change to another page when user moves beyond the screen.



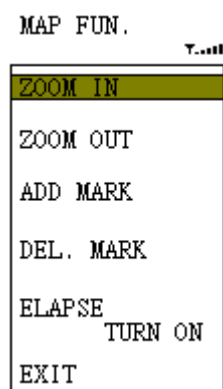
6-2.Operation :

6-2-1Push up or down to gain information.



6-2-2 Push enter to sub selection.

6-2-2-1 Zoom In : Magnify



6-2-2-2 Zoom Out : Narrow down

MAP FUN. Y...ll


ZOOM IN
ZOOM OUT
ADD MARK
DEL. MARK
ELAPSE
TURN ON
EXIT

6-2-2-3 Add Mark : Add Mark within 10 kilometers

MAP FUN. Y...ll

Zoom In
Zoom Out
ADD MARK
DEL MARK
Elapse
Turn on
Exit

MARK Y...ll

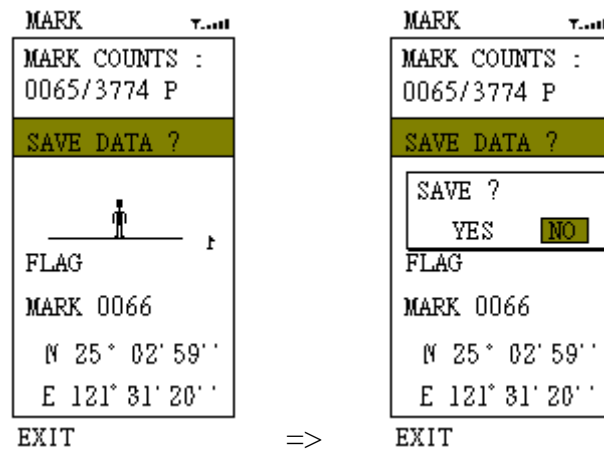
MARK COUNTS : 0065/3774 P
SAVE DATA ?

FLAG
MARK 0066
N 25° 02' 59''
E 121° 31' 20''
EXIT

=>

There are five selections :

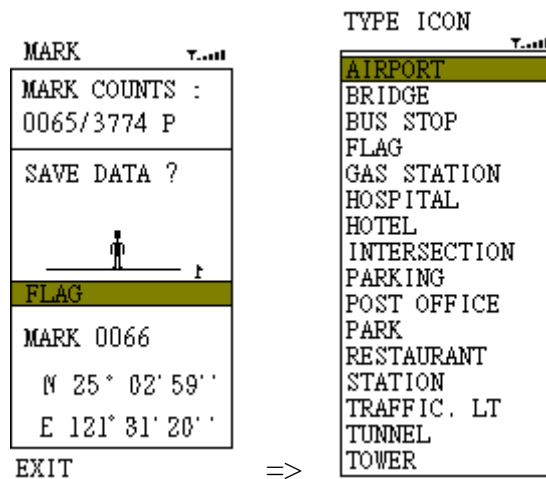
<1>、SAVE DATA ?

Select the “ADD MARK” and push enter botton, it will display confirm window. If you choose “YES”, it will save data in the memory. If you choose “NO”, it will exit and come back to “ADD MARK”.



<2> FLAG

Enter the function can select type icon. The icon indicates mark.



<3> MARK NAME

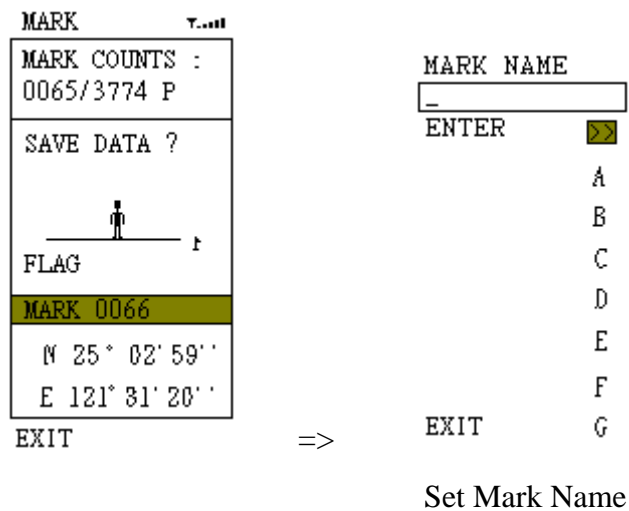
Enter the “MARK NAME” can set mark name.

<3-1> >> Enter “MARK NAME” to set up mark name.

<3-2> Alphabet Category: Select alphabet.

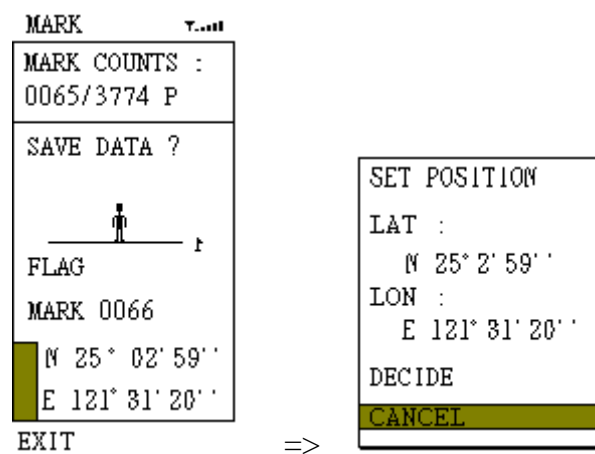
<3-3> Enter Choose mark name and return Mark name to make a list.

<3-4> Exit Exit and return to “ADD MARK”.



<4>、 POSITION VALUE

In the “ POSITION VALUE” can set mark position.



Set Mark Position

There are four selections.

<4-1>、 LAT

<4-2>、 LON

<4-3>、 DECIDE

<4-4>、 EXIT

SET POSITION
LAT :
N 25° 2' 59''
LON :
E 121° 31' 20''
DECIDE
CANCEL

As long as it is in “LON” or “LAT” item and push enter bottom, you can set up.

N, S or E, W
Degree
Minute'
Second"

Push up or down to exit.

It will exit to “SET NUMBER” as long as you set number selection.

SET POSITION
LAT :
N 25° 2' 59''
LON :
E 121° 31' 20''
DECIDE
CANCEL

=>

SET POSITION
LAT :
N 25° 2' 59''
LON :
E 121° 31' 20''
DECIDE
CANCEL

=>

SET NUMBER

-
ENTER

SET POSITION
LAT :
N 25° 2' 59''
LON :
E 121° 31' 20''
DECIDE
CANCEL

=>


1
2
3
4
5
6
7
8
9

EXIT

Set Position

<5> EXIT

Select “Exit” function will return to main function without saving data.

MARK	T...ll
MARK COUNTS : 0065/3774 P	
SAVE DATA ?	
	
FLAG	
MARK 0066	
N 25° 02' 59''	
E 121° 31' 20''	
EXIT	

6-2-2-4 Delete Mark : Delete mark within 10 kilometers.

MAP FUN.	T...ll
ZOOM IN	
ZOOM OUT	
ADD MARK	
DEL. MARK	
ELAPSE	
TURN ON	
EXIT	

=>

DELETE MARK
1/ 1 PAGE
Fortuna
NO DATA
NO DATA
NO DATA
NO DATA
NO DATA
NO DATA
NO DATA
NO DATA
NO DATA
EXIT

In “DELETE MARK” function, it will display mark list within ten kilometers. You can select any of the “MARK” to delete.

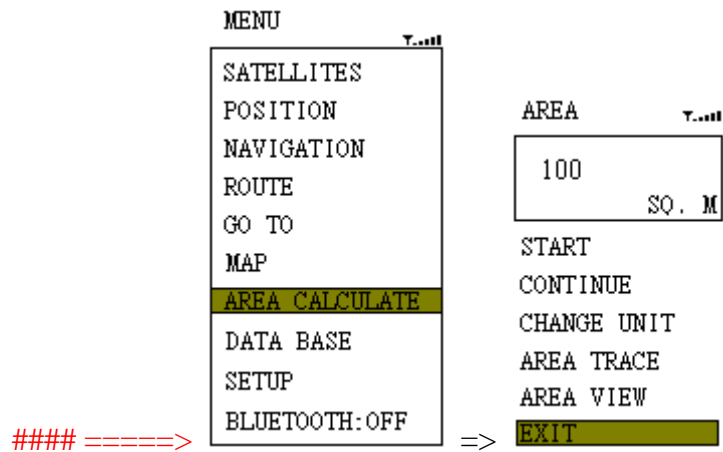
6-2-2-5 Elapse : Turn on “ELAPSE”

Turn off “ELAPSE”

6-2-2-6 Exit : Exit

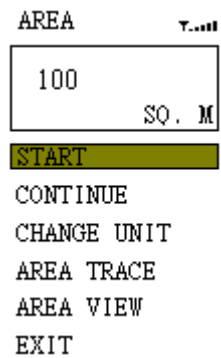
(7) Area Calculate

“Area Calculate ” way should around area fringes, and then it will calculate approximately area.

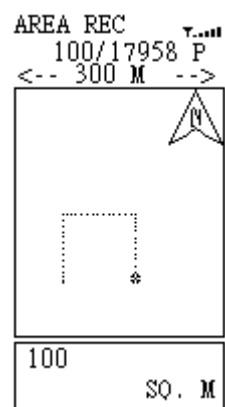


7-1 Area Calculate

7-1-1 START



After it clear the 20 set route data, it will start to record route. As follow:



Push up or down to change scale. Push enter will display total area.

In the record mode, push up or down to change scale. Push enter will display total area amount.

Change calculate unit: The unit is meter square. (SQ.M) or kilometer square (SQ. KM).

English unit is foot square (SQ. FT) or mile square (SQ. MI) or acre(ACRE).

Continue: Continue “ AREA CALCULATE“ mode.

Exit: Exit “AREA CALCULATE” mode.

TOTAL AREA T...all

100
SQ. M

CONTINUE

EXIT

7-1-2 Continue to Calculate

Continue calculate last area. The operation is the same as “ 7-1-1 START ”.

AREA T...all

100
SQ. M

START

CONTINUE

CHANGE UNIT

AREA TRACE

AREA VIEW

EXIT

7-1-3 Set Unit

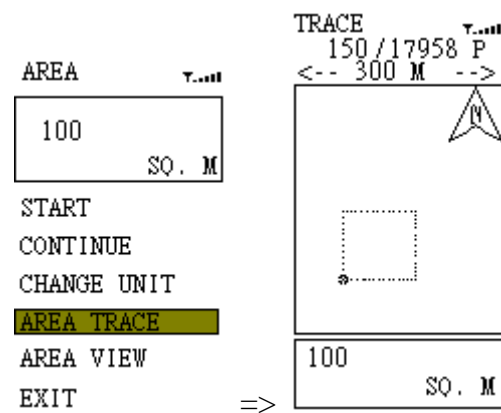
Change area unit, the area have:

- A. SQ. M (SQ. KM)
- B. SQ. FT(SQ. MI)
- C. ACRE

AREA	AREA	AREA	AREA	AREA
100 SQ. M	100 SQ. KM	100 SQ. FT	100 SQ. MI	100 ACRE
START	START	START	START	START
CONTINUE	CONTINUE	CONTINUE	CONTINUE	CONTINUE
CHANGE UNIT	CHANGE UNIT	CHANGE UNIT	CHANGE UNIT	CHANGE UNIT
AREA TRACE	AREA TRACE	AREA TRACE	AREA TRACE	AREA TRACE
AREA VIEW	AREA VIEW	AREA VIEW	AREA VIEW	AREA VIEW
EXIT	EXIT	EXIT	EXIT	EXIT

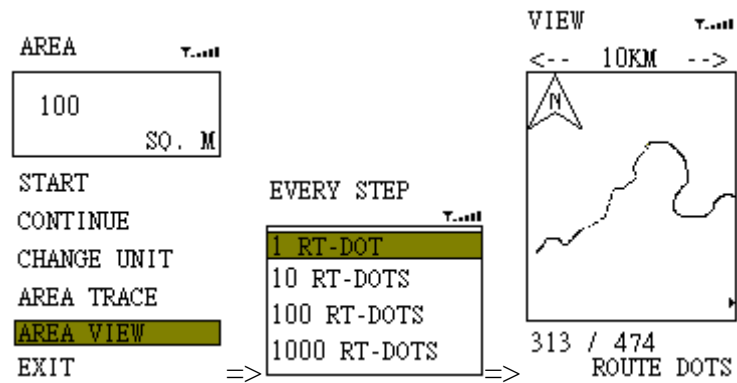
7-1-4 Area Trace

The map will change new page if user beyond screen.

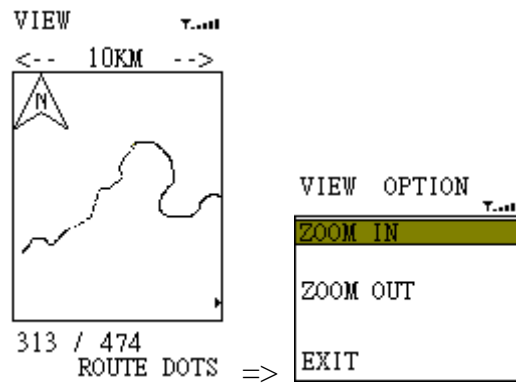


7-1-5 Area View

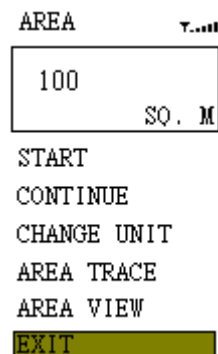
Recall last area data and display area.



Push enter to change map scale or return to main function.



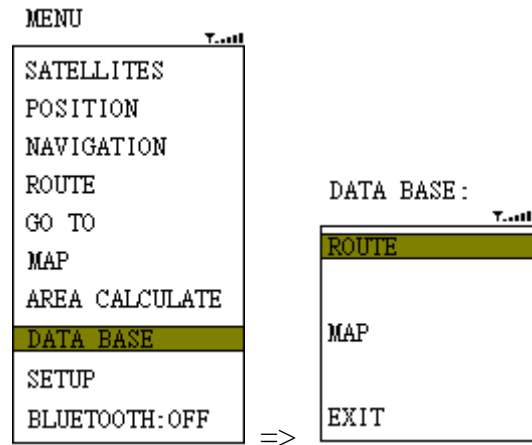
7-1-6 Exit Area Calculate



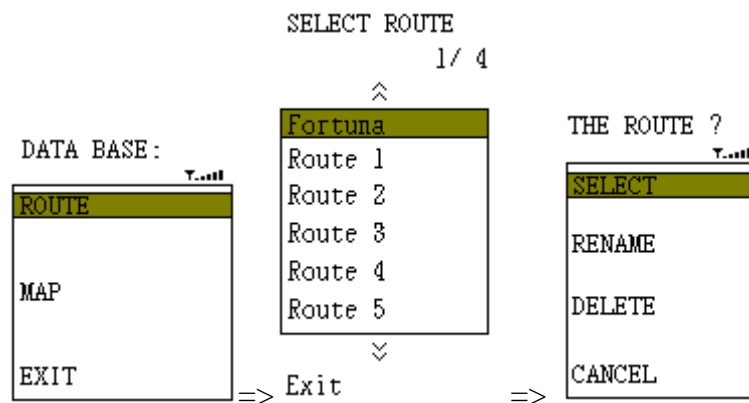
(8) Manage Data Base

Select “ DATA BASE” in the main function.

There are three selections in the function:



8-1、 ROUTE



This sub selection:

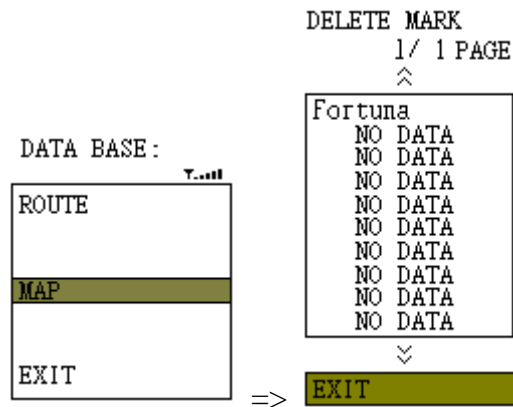
Select route: Select route.

Rename : Rename route.

Delete : Delete route.

Chancel : Exit and select another route.

8-2、 MAP

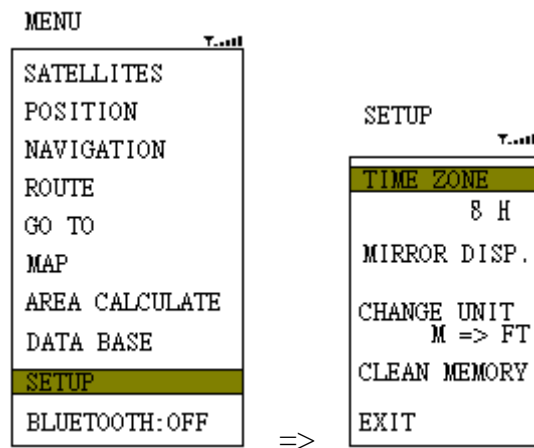


Map function only can delete mark.

8-3、EXIT

(9) Operation

Select “ SETUP” function in menu. There are three selections.



9-1、TIME ZONE

Each time interval is (1 hour).

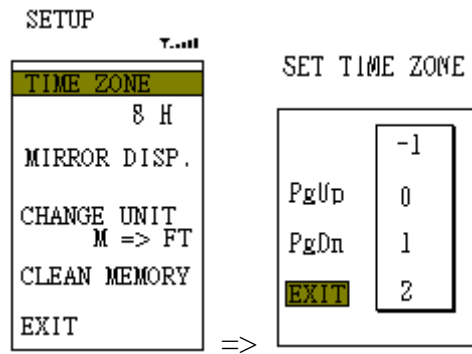
There are four sub selections.

1-1、EXIT

1-2、Page Up

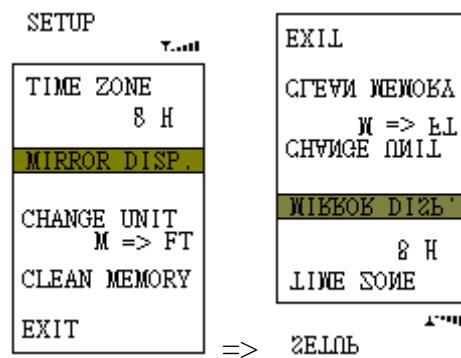
1-3、Page Down

1-4、Time Zone Strings



For Example : Australia=> +10 h , German=> +1 h
America Los Angles =>-8 h

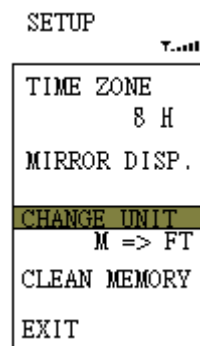
9-2、 MIRROR DISP



Select the function to display mirror image.

9-3、 CHANGE UNIT

M => meter
FT => feet



9-4、 CLEAR MEMORY

SETUP T...all

TIME ZONE
8 H
MIRROR DISP.
CHANGE UNIT
M => FT
CLEAN MEMORY
EXIT

“CLEAN MEMORY” will clear data, please use be caution.

9-5、EXIT

SETUP T...all

TIME ZONE
8 H
MIRROR DISP.
CHANGE UNIT
M => FT
CLEAN MEMORY
EXIT

(10) Transfer Bluetooth wireless data (Only for Bluetooth version)

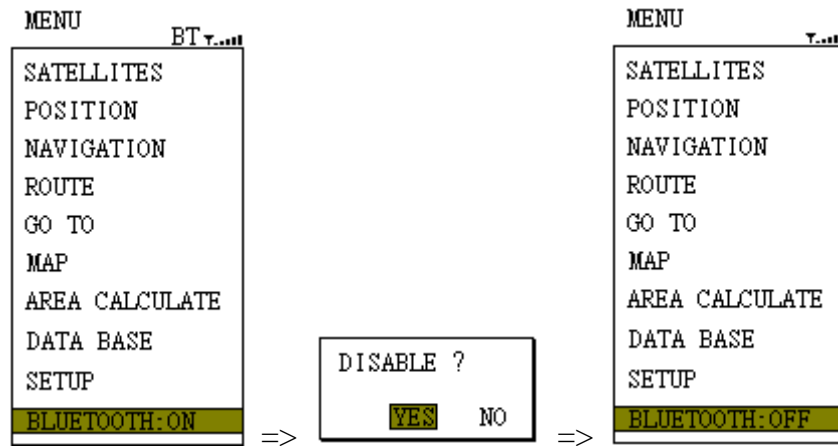
10-1 Instruction :

Turn on “BLUETOOTH”, you can transfer NMEA data to another bluetooth machine via wireless.

10-2 Turn on Bluetooth wireless transfer system.

<p>MENU T...all</p> <table border="1"> <tr><td>SATELLITES</td></tr> <tr><td>POSITION</td></tr> <tr><td>NAVIGATION</td></tr> <tr><td>ROUTE</td></tr> <tr><td>GO TO</td></tr> <tr><td>MAP</td></tr> <tr><td>AREA CALCULATE</td></tr> <tr><td>DATA BASE</td></tr> <tr><td>SETUP</td></tr> <tr><td>BLUETOOTH:OFF</td></tr> </table>	SATELLITES	POSITION	NAVIGATION	ROUTE	GO TO	MAP	AREA CALCULATE	DATA BASE	SETUP	BLUETOOTH:OFF	=>	<table border="1"> <tr><td>ENABLE ?</td></tr> <tr> <td> <div style="display: inline-block; border: 1px solid black; padding: 2px;">YES</div> <div style="display: inline-block; border: 1px solid black; padding: 2px; margin-left: 20px;">NO</div> </td> </tr> </table>	ENABLE ?	<div style="display: inline-block; border: 1px solid black; padding: 2px;">YES</div> <div style="display: inline-block; border: 1px solid black; padding: 2px; margin-left: 20px;">NO</div>	=>	<p>MENU BT T...all</p> <table border="1"> <tr><td>SATELLITES</td></tr> <tr><td>POSITION</td></tr> <tr><td>NAVIGATION</td></tr> <tr><td>ROUTE</td></tr> <tr><td>GO TO</td></tr> <tr><td>MAP</td></tr> <tr><td>AREA CALCULATE</td></tr> <tr><td>DATA BASE</td></tr> <tr><td>SETUP</td></tr> <tr><td>BLUETOOTH:ON</td></tr> </table>	SATELLITES	POSITION	NAVIGATION	ROUTE	GO TO	MAP	AREA CALCULATE	DATA BASE	SETUP	BLUETOOTH:ON
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10-3 Turn off Bluetooth wireless transfer system.



三、Attention

- (1) User gain correct value as long as satellite lock. Please refer to “3D” or “2D” in the right side of screen. If it doesn’t display “3D” or “2D” (As follow), restart the machine and observe again.
- (2) Local Time means Greenwich Mean Time add time zone offset. Others area code can adjust from main function “SETUP”.
- (3) It indicates satellite intensity and user’s position lock.
 It indicates unlock user’s position.
 It indicates Bluetooth transfer system is open.
- (4) It will stop to save waypoint, when in “ROUTE RECORD”, “ADD MARK”, and “ADD MAP” mode. It will prevent gain wrong coordinate when use is saving data. Way Point can only be saved when the GPS is Fixed.

ADD MARK	▼?
MARK COUNTS :	
0065/3774 P	
SAVE DATA ?	
SAVE ?	
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
STATION	
MARK 0066	
N 25° 02' 59''	
E 121° 31' 20''	
EXIT	=> WARNING ! SIGNAL WEAK !

- (5) The coordinate of machine indicate WGS84(GPS) or GR80 (TWD97).
Please pay attention.

FCC Notices

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation .

“FCC RF Exposure requirements:

This device and its antenna(s) must not be co-located or operation in conjunction With any other antenna or transmitter.”

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.