



SOUNDSTREAM

It is advised for you to read the manual before using the product.
The screen and the picture of the manual can be different from the actual product.

Please operate the system while parked.

The content of the manual can be different according to the loaded software version and it could be changed without prior notice to the user.



**Portable Navigation Device
User's manual**

Instructions and cautions for the safe use of the product

Relevant facts to the use of the product

Operating the product while driving is not only illegal but it can also cause traffic accidents. Be sure to operate after parking the vehicle at a safe place.

- You should attend to drive safely while looking at the product screen during driving your vehicle.
- Observing the product screen for a long time while driving can be a cause of traffic accidents.
- Since the product screen and the guidance can be different from the actual traffic situation, be sure to drive according to the actual traffic lights, regulations and road conditions.
- The road guidance function of the product can be different from the actual situation due to a change or an error of the map information.
 - Our company does not compensate for the damages of accidents that occurred because of not following the actual traffic law and road conditions or due to operating products while driving.

Relevant facts to the product use circumstances

- Be careful of using the product where other electric and electronic machines are used.
 - Since most of the electronic machines use electromagnetic field, there can be a problem in operating other electronic machines due to the product's electromagnetic field.
 - Especially, using the product in the presence of using heart beating auxiliary equipment is dangerous hence it is not advised to do.
 - Hearing aid and other electric or electronic medical machines can be affected by the product's electromagnetic field so be sure to check this point before using the product.
 - You should turn off the product in the danger zone of explosion or fire.
 - You should follow the regulation, direction and the signal of the applied area in the danger zone of explosion or fire.
- You should turn off the product when you board a plane.
 - Some countries prohibit operating the product in the airplane.
 - Since the airplane is composed of electronic equipment, it can affect the navigating equipment that could cause a serious problem in operating the plane.
- Do not use the product in restricted area.

III. The right use and management of the product

- Since this product is an electronic device, if you use or keep it near a magnetic item it could cause the battery to discharge and or damage the product.
- The vehicle windshield that used metallic coating can greatly affect the function of the GPS signal transmission of the product.
- The windshield bracket should be bended in an appropriate shape before sticking to the glass. The holder can be damaged if you change the shape of the holder after sticking to the glass.
- Do not let the product get wet. In this case, our company has no responsibility to warranty.
- If there is something wrong like malfunction during the use of this product turn off the power and reconfigure. In case of repetitive malfunction of the product, stop using the product. Return to place of purchase for trouble shooting.
- This product is a PND product with route searching function and route guidance function.
- Do not use this product in other ways except for the designated purpose.
- Do not disassemble or reconstruct the product.
- The install and use of the product should be conducted after thoroughly reading and understanding the manual.

Related facts to the product power - prohibited points (points for the prevention of electric shock, fire and explosion)

- Do not use power codes and plugs that are damaged or where its covering came off or have loosened.
- Do not touch or pull the power plug.
- Do not touch the product with wet hand.
- Be sure to connect the power plug or cigar jack to the product correctly.
- Do not charge with generator or charger that is not approved by our company.

I. The right use and management of the product

- This product uses Cigarette jack Adapter12V of a car.
- Do not install the device where it can obstruct the sight while driving.
- Do not install the device where it can disturb operating handles, gears and other operating equipments necessary of driving.
- This product has road guidance, warning, voice guidance function and etc. Control the volume before use.
- The product must be kept and secured in a dry place. In case the product gets wet, turn off the power. After removing the moisture from the product with a dry towel or a cloth, go to the product shop or the nearest service center for inspection.
 - In case the user disassembles the product in person, it might seriously damage the product. In this case, our company cannot compensate for the damage.
- This product should not be used or kept in dusty or moisture proned areas.

II. The right use and management of the product

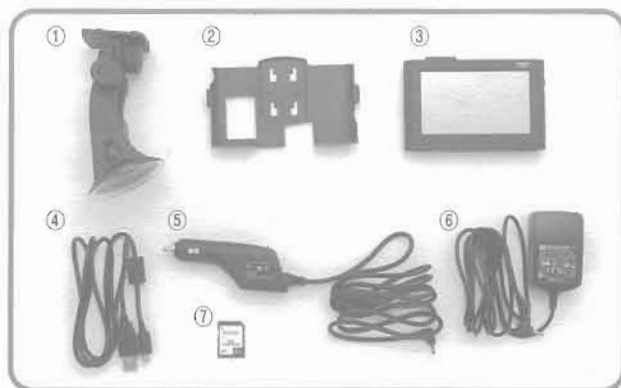
- This product is sensitive to temperature. Do not keep or operate in too high or too low temperatures. It might not operate correctly.
- The inner temperature of the car can go up very high or low. So if the product is left in the car for a long time it might cause malfunction of the product.
- Be sure not to let the product screen be exposed to direct sunlight for a long time. It might not function correctly.
- This product controlled functioned by screen touch. Use your finger or the product's stylus pen.
 - The product might be damaged when you try to function it with a sharp object, a screw or a pen.
- Do not put pressure on the screen with hand or heavy object, the LCD might be damaged or can be the cause of malfunction.
- This product should be installed on the interior surface of the car windshield with windshield bracket.
- Do not paint or decoration with sticker or spray the screen directly with cleaning solution. It could be the cause malfunction or damage.
- When you clean the product, wipe it with a soft cloth. The use of alcohol or detergent can cause damage to unit.
- Be sure to use the SD card, power cable and all the accessories included with unit that are designated by our company. In case of using accessories or other products that are not approved by our company, it can cause damage to unit. In this case, our company has no responsibility to warranty for the damage.
- Do not keep the product near metallic materials such as coins, keys etc. It can cause damage to screen or unit.
- Do not put foreign substance in this product's power linkup and other input terminal of the exterior equipment. It can be the cause of breakage.
- Do not drop or give impact such as throwing or bending the product. It can cause damage or malfunction to unit.
- Do not put the product in pockets or carry it on your body like on the waist. In case of exterior impact or falling down, the user could get injured or the product could be damaged.

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1. Before using the PND

Components

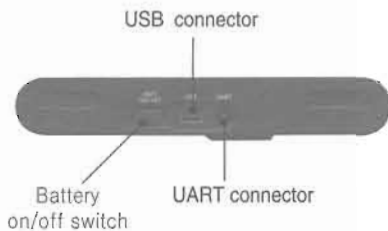


- ① Windshield suction mount bracket
- ② Cradle
- ③ PND
- ④ USB cable
- ⑤ Power cable (Cigar jack type)
- ⑥ AC/DC power adapter
- ⑦ SD card (Map)

Features



Power connector



Installing the PND

Warning :

- Please operate the PND while parked or halted
- This unit uses cigar jack adapter 12V.
- Do not install the PND where it can obstruct the view while driving.
- Do not install the device where it can disturb operating handles, gears and other operating equipments necessary of driving.

- ❖ Clean the place where you wish to position the bracket with a glass cleaner first.



1. Installing the SD card



2. Adhere cradle to suction cup bracket



3. Connect the power cable to the PND



4. Place the suction cup bracket on the windscreen and push the locking lever down to secure the bracket



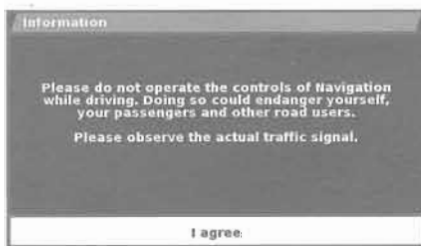
5. Position the PND onto the bracket

2. Operating Instructions - Preparation

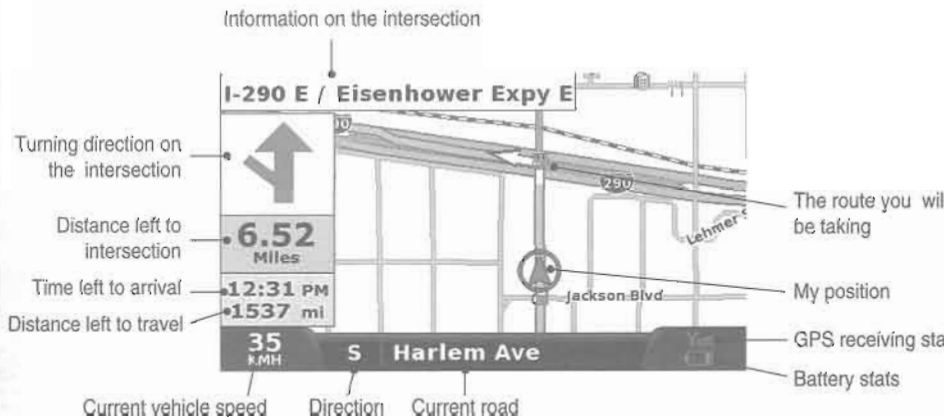
Preparation

1) Starting up

- Insert SD card into the SD card slot as indicated
- Following screen will be displayed once after power on
- Read information and press "I agree" button at the bottom of the screen



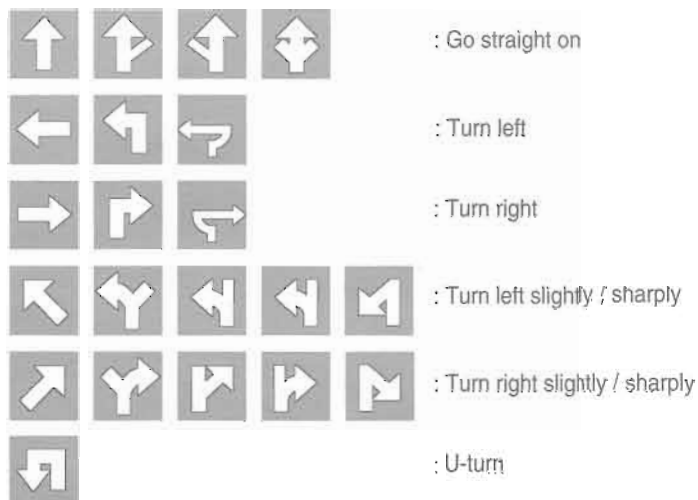
2) Understanding the mapping screen



You can see the menu screen by touching anywhere on the map screen.

3) Guidance arrows

3)- 1 The arrows on the ordinary road



3)-2 The arrows on the traffic circle



2. Operating Instructions - Preparation

4) The range of voice guidance

4) - 1 On the motorway

: Mile/Feet

1 mile → half mile → now
0.9 mile → half mile → now
0.8 mile → half mile → now
0.7 mile → quarter mile
0.6 mile → now
half mile → now
0.4 mile → now
0.3 mile → now
quarter mile → x
0.2 mile → x
now → x

: Mile/Yard

1 mile → 700 yard → now
900 yard → 400 yard
800 yard → 300 yard
700 yard → now
600 yard → now
500 yard → now
400 yard → x
300 yard → x
now → x

: Meter

2 km → 1 km → now
1 km → now
900 m → now
800 m → now
700 m → now
600 m → now
500 m → now
400 m → x
300 m → x
now → x

4) - 2 On the normal road

: Mile/Feet

0.3 mile → now
quarter mile → now
0.2 mile → now
900 feet → x
800 feet → x
700 feet → x
600 feet → x
500 feet → x
now → x

: Mile/Yard

700 yard → now
600 yard → now
500 yard → now
400 yard → now
300 yard → x
200 yard → x
now → x

: Meter

600 m → now
500 m → now
400 m → now
300 m → x
200 m → x
now → x

2. Operating Instructions - Planning a route

Planning a route

To enter the main navigation menus, touch the PND in the center of the screen with your finger. You can see three main menus

Menu Screen

- There are 3 major menus (Navigate to / My favorite / Configure)

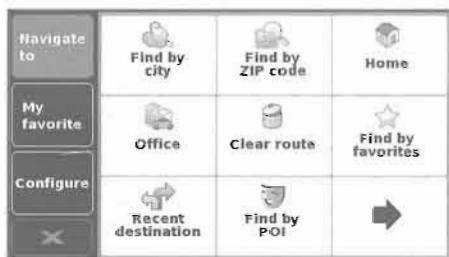
Stop seeing current menu screen and go back to former map display screen



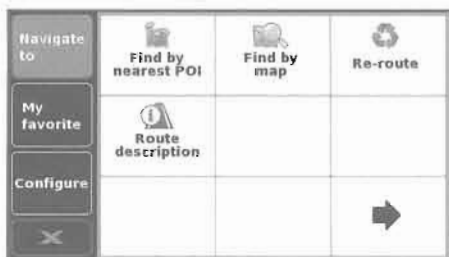
This icon means that there are more options to see the next screen

Navigate to

Destination set up menu which consists of 2 pages, 12 sub menus as below.



You can see 8 sub menus on the first page



You can see another 4 sub menus on the next page

2. Operating Instructions - Planning a route

1) Find by City



Dialogue for searching items

A screenshot of a mobile application's search dialog. At the top, it says "Find by city". Below this are four input fields: "State" with "California [CA]", "City" with "Los Angeles (CA)", "Street" with "W 104th Pl", and "House No." with "500". Each field has a small arrow icon on its right side. Below the fields is a "Calculate" button. At the bottom of the dialog are two buttons: "Map" and "Route option", with a small icon on the right.

<Screen of the dialogue for searching>

If you know the street name and city that you would like to navigate to then select "Find by city" menu.

Click the "Find by city" button, you can see "Find by city". If it is the first time to use, you can see only "All states" in the searching list. Click the yellow "State" on the top or near white board, you can move to next "State" searching dialogue.

If you would like to search by "All states", select the second yellow "City" button and use the keyboard displayed to type in the name of city.

The sequence of searching is as "State" → City → Street → House Number.

As you begin to input the road or street name, the PND will automatically prompt you with a possible matches.



<Sub dialogue screen for searching>

Sub dialogue for searching consists of 'Searching list' window and 'Check the list' button on the top, keyboard and 'Backward' button on the bottom right hand corner. If you don't know the exact name you would like to find, press 'Check the list' on the top right hand corner of the display and a list of cities will be displayed then select your destination city by touching on it.

You want to stop searching, press 'Backward' button on the bottom right hand corner.

2. Operating Instructions - Planning a route

Dialogue for searching items

Find by city	
State	California [CA]
City	Los Angeles (CA)
Street	W 104th Pl <input type="button" value="←"/>
House No.	500 <input type="button" value="↕"/>
<input type="button" value="Calculate"/>	
Map	Route option <input type="button" value="↔"/>

<Screen of the dialogue for searching>

When you enter the name of "Street", "House Number" or "Intersection" incorrectly, you can erase such information by clicking the icon on the "Street" item.

In case of both "House Number" and "Intersection" items are exist after "Street" searching, you can see the dialogue of "House Number", and you would like to change to the "Intersection", click the icon on the "House No." searching board in "Find by City" menu.

But if there is just one item ("House Number" or "Intersection"), it won't be changed by clicking icon.

STATE	
California	All states
I 2 3 4 5 6 7 8 9 0	
Q W E R T Y U I O P	
A S D F G H J K L	
Z X C V B N M ←	

<State searching>

CITY	
Los Angeles (CA)	Acampo (CA)
I 2 3 4 5 6 7 8 9 0	
Q W E R T Y U I O P	
A S D F G H J K L	
Z X C V B N M ←	

<City searching 1>

CITY	
Los Angeles (CA)	
Rancho (CA)	
Acton (CA)	
Adelanto (CA)	
Adin (CA)	
Agoura Hills (CA)	

<City searching 2>

STREET	
W 104th Pl	E 100th St
1 2 3 4 5 6 7 8 9 0	
Q W E R T Y U I O P	
A S D F G H J K L	
Z X C V B N M ←	

<Street searching>

HOUSE NO.	
1500 - 8999	Inter.
I 2 3	←
4 5 6	-
7 8 9	ABC
0	OK

<House No. searching>

Find by city	
State	California [CA]
City	Los Angeles (CA)
Street	W 104th Pl <input type="button" value="←"/>
House No.	500 <input type="button" value="↕"/>
<input type="button" value="Calculate"/>	
Map	Route option <input type="button" value="↔"/>

<Complete searching>

2. Operating Instructions - Planning a route

Calculate

Find by city	
State	California [CA]
City	Los Angeles (CA)
Street	W 104th Pl
House No.	500
Calculate	
Map	Route option

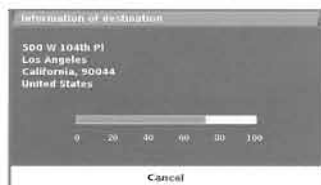
<Screen of the dialogue for searching>

Once you have entered your information you can now press the "Calculate" button and your PND will calculate a route.

Once the calculation is complete you can either press "GO" to start navigation function.

The "Summary" item will tell you information on your route (Distance to your destination, estimated time of arrival and your journey.)

You can change the parameters of the route by the "Route option" item.



<Pic. 1> Calculation Indicator is processing



<Pic. 2> Complete the calculation

⇒ If you want to stop calculating due to change the destination or something, press the "Cancel" button on the bottom and click <OK> on the "Stop calculation" window, then you can move to former "Searching" menu screen.

⇒ Intersection

Alternatively, if you don't have a house or building No., PND can navigate you to a point Where two roads meet instead. After you have entered the name of the road you would like to navigate to, press the "Intersection" button.

2. Operating Instructions - Planning a route

2) Find by Zip code



Dialogue for searching items

<Screen of the dialogue for searching by Zip code>

This menu for searching is similar to “Find by City” menu. After selecting “Country”, Enter your ZIP code using the keyboard and press “OK” button.

Press the “Calculate” and the PND will calculate the fastest route from your current position to your destination. It will be take only a few seconds.

<Pic. 1> Selecting country

<Pic.2> Enter your Zip code

<Pic.3> Enter the name of street

<Pic.4> Calculation is progressing

<Pic.5> Calculation is completed

⇒ Once the calculation is completed, press “GO” button to start the navigation

2. Operating Instructions - Planning a route

3) Home

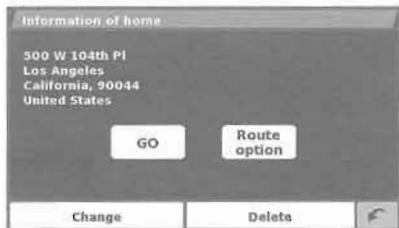


The PND has a convenient function to enable you to navigate easily and quickly from a previous trip or destination to your home.

The first time "Home" menu is used the PND will ask if you want to set the location of your home, Press "OK" in the information window. If "Home" has already been set it can be edited in "My Favorites" menu.

You may also change home information and delete it, or select route option by pressing the relevant button.

If you want to go back to the previous menu, press 'backward key' in the lower right corner of the screen.

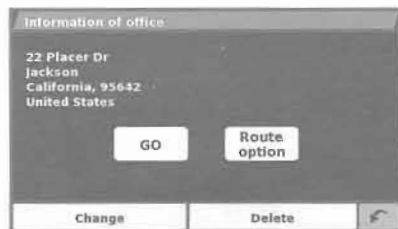


4) Office



This menu is similar to 'Home' menu. "Office" menu also enable you to navigate easily and quickly from a previous trip or destination to your Office or other place of work you can personalize your PND so that a route can be calculated by pressing only a few buttons.

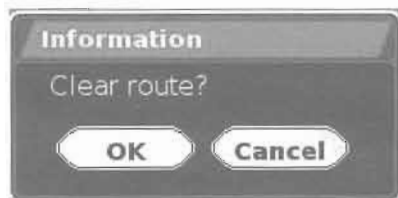
When the first time "Office" menu is used the PND will ask you want to set your office location, press "OK" in the information window. If "Office" has already been set it can be edited in "My Favorites" menu.



You may also change home information and delete it, or select route option by pressing the relevant button.

If you want to go back to the previous menu, press 'backward key' in the lower right corner of the screen.

Clear route



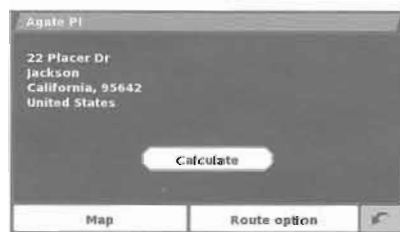
To cancel a route that you have calculated, press the "OK" button on the information window. For the "Clear route" item to operate you will need not to have entered and calculate a route.

5) Find by Favorites



The PND has large enough capacity to store lots of location where you would like to save. To navigate to one of your stored locations, select the favorite you wish to navigate From the list provided. Then information about your chosen favorite is displayed.

To view the location of the favorite, press "Map". To return to the previous page, press the "Backward arrow" button located in the lower right hand corner of the display.



If you want to change the route parameter, press "Route Options".

By "Route Options" you can change the parameters Of the route or 'Guidance' which will list the turn by turn instructions.

Press "Calculate" and the PND will calculate the route to your select favorite. Once calculation is completed the summary screen is displayed. You can either press "Go" to start navigation and "Simulation" to see the actual route.

6) Recent destination



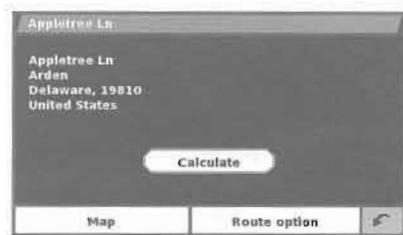
<The list of recent destinations>

The PND is capable of storing the last 40 routes that have been calculated, so that if you want to return to an address you do not have to re-input the details again.

To calculate a route using the "Recent destination" menu, select this sub menu on main "Navigate to" menu first.

A list of your most recent routes will be shown in chronological order, use the up/down arrow on the right hand side of the display to scroll through the list and select the destination you would like the PND to navigate to.

An information window screen will appear for confirming the address you have selected.



To view the location of the favorite, press "Map". To return to the previous page, press the "Backward arrow" button located in the lower right hand corner of the display.

If you want to change the route parameter, press "Route Options". By "Route Options" you can change the parameters of the route or 'Guidance' which will list the turn by turn instructions.

Press "Calculate" and the PND will calculate the route to your select favorite.

Once calculation is completed the summary screen is displayed.

You can either press "Go" to start navigation and "Simulation" to see the actual route.

7) Find by POI (Points of Interest)



Dialogue for searching items

A screenshot of a software dialog box titled "Find by POI". It contains several input fields: "State" with "CALIFORNIA" entered, "City" with "All cities" and an "All" button, "Category" with "All categories" and an "All" button, and "Name" which is empty. Below these fields is a "Calculate" button. At the bottom of the dialog are three tabs: "Map", "Route option", and "Information", along with a refresh icon.

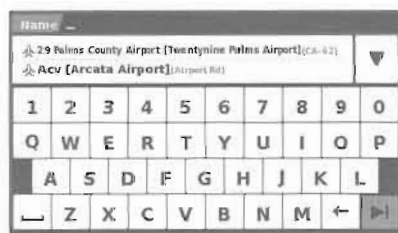
<Screen of the dialogue for POI searching>



<Category items searching>
The PND has 50 POI Categories

The way of using this menu is similar to "Find by City" menu.

If you want to set a route to a hotel, hospital, airport, amusement park or even a restaurant, the PND can calculate such a route using its extensive database of POI's after selecting State, City, Category and Name press "Calculate" button to start a route calculation.



You can search all the relevant POIs if you input one of letter of alphabet in "Name" item.

8) Find by nearest POI



The basic function of "Find by nearest POI" is similar to "Find by POI" but you can also search the POI located near your current position by using "Current position" item.

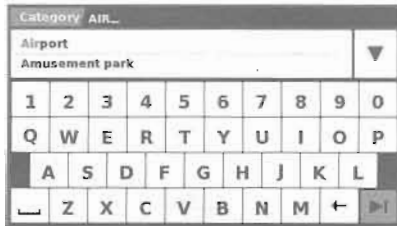
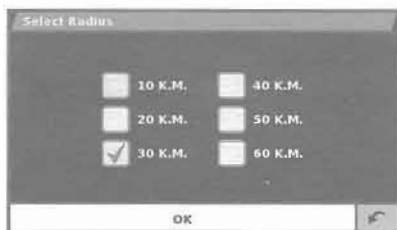
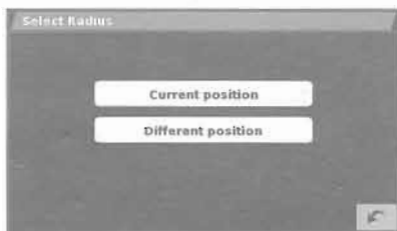
8) - 1 Current position

"Current position" option will help you to find the nearest POI by Category within a special radius. When you press "Current Position" button, the radius can be configured from a minimum radius of 10kms or 10miles up to a maximum radius of 60kms or 60miles from your current position.

The default setting is 30kms/miles. Mark the your desired radius check box and press "OK" Button.

Input the type of POI you would like to search then the PND will automatically prompt you with a list of possible POIs.

After select the POI you are searching for and press the "Calculation" button.



2. Operating Instructions - Planning a route

8) - 2 Different position

“Different position” option will find the nearest POI by City.

When you select “Different Position” option, you will see the Find address by City’s screen.

Enter ‘State’ and ‘City’ name you want to search, and press the “Set” button.

Different position

Find address by city

State	All states
City	
Street	

Set

Map

You will see the “Select Radius” screen. Then select and mark the ms/miles you want to.

Select Radius

<input type="checkbox"/> 10 K.M.	<input type="checkbox"/> 40 K.M.
<input type="checkbox"/> 20 K.M.	<input type="checkbox"/> 50 K.M.
<input checked="" type="checkbox"/> 30 K.M.	<input type="checkbox"/> 60 K.M.

OK

Select the POI you want to in “Category”

Category AIR...

Airport
Amusement park

1	2	3	4	5	6	7	8	9	0
Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	
←	Z	X	C	V	B	N	M	→	

After select the POI you are searching for and press the “Calculation” button.

Airport

Chicago O'hare Intl Airport [100m] - 100, Chicago (Illinois United States)	▲
O'hare Intl Airport [Chicago O'hare Intl Airport] [100m] - 100, Chicago (Illinois United States)	
Ord [Chicago O'hare Intl Airport] [100m] - 100, Chicago (Illinois United States)	▼
Chicago O'hare Intl-T5 Departures [100m] - 100, Chicago (Illinois United States)	
Chicago O'hare Intl-T5 Arrivals [100m] - 100, Chicago (Illinois United States)	↻

9) Find by map



<You can find and set the position where you want by moving your finger>

"Find by map" menu allows you to select a destination by simply pressing any area on the map loaded onto your PND. You can create a route to a location by viewing the map and selecting a road or place with your finger. To see a larger section on the map, press "+" button to zoom out, and you would like to see the map in more detail, press "-" button to zoom in.



<Pic. 1> The screen of "Find by map"



<Pic. 2> you can see the "Continue" button in the lower right hand side

By pressing and moving your finger on the screen you can panning the map around until you find location you desired. When you get the required destination, press on such area on the map then you can see the name of such area. If you are happy with such area press the "Quick menu" Button in the lower right hand side. Then an information screen of such area will be displayed when you press the "Continue" button. Press "Calculate" button then the PND will now calculate the route to your selected destination.



10) Re-route



The PND can Re-calculate your route by avoiding certain roads, or redirecting you by distance. This function only becomes available if you have calculated your route.

You can choose how you would like to re-route your trip from the selections which is Shown on the display. There are 2 options in "Re-route" menu.

"Avoid road name" option allows you to see the turn by turn instructions of the certain route that you are currently following. Once you have found the road that you want to avoid, select it with your finger then the PND automatically re-calculates the route without selected road.



"Select avoided range" option allows you to avoid several roads from the selected route plotted by the unit, then re-calculate a route over you defined distance ranging from 1mile up to 100 miles.

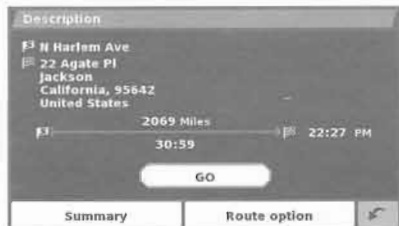


If you do not want to use the alternative routes offered by above two options and return to the original calculated route, press "Clear avoided road" button.

This option makes the original route plotted by the unit will be restored.



11) Route description



After a route has been calculated and the trip has started you can access the summary display again by using this menu.

Press "GO" button, then navigation will be started.

⇒ You will need to set and calculate a route if you want to utilize this menu.

3. Storing and editing the destination

Storing and editing the destination



"My favorite" menu consists of 4 sub menus and you can save, edit or delete such places.



1) Favorites



You may find it useful to store a number of their common routes in a "Favorites" folder.

"Favorites" allows you to calculate a route to one of these address without having to search for every time.

To add an address to your "Favorites" access this menu and press "Add" button. If you press the "Delete all" button in the upper right hand side, all the address in list are deleted so you should be careful.



If you want to delete the listing at any time, simply select such address and press the "trash can" button on the right end of every each list. Then you can see the information display of such address. Press "Delete" button to remove it from your list.



<Pic. 1> Trash can button is on every single list



<Pic. 2> Delete message is displayed

3. Storing and editing the destination

How to add special or certain address to your "Favorites" menu with the "Add" button is the same as the method of "Route plan" described in "SECTION 2"



2) Recent destination



"Recent destination" menu allows you to see and delete any or all of the recent destinations that are stored in your PND.

scroll up/down the list of recent destinations using the up and down buttons located on the right hand side of the display and select the destinations you want to delete.

The information relating to such destination will be displayed then press "Delete" button.



3) Home



The PND has a convenient function to enable you to navigate easily and quickly from a previous trip or destination to your home.

The first time "Home" menu is used the PND will ask if you want to set the location of your home. Press "OK" in the information window. You can use "Find by city" or "Find by ZIP code" in SECTION 2 to set your home address.

If "Home" has already been set it can be edited in "My favorites" menu.

3. Storing and editing the destination

4) Office



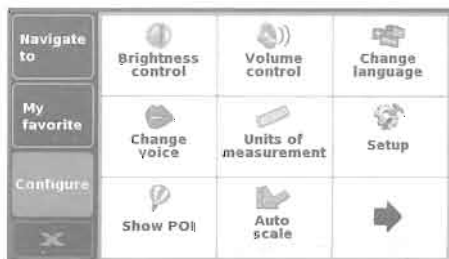
The PND has a convenient function to enable you to navigate easily and quickly from a previous trip or destination to your office. The first time "Office" menu is used the PND will ask if you want to set the location of your office, Press "OK" in the information window. You can use "Find by city" or "Find by ZIP code" in SECTION 2 to set your office address.

If your office has already been set it can be edited or deleted on the "Information of office" window as well as in "My favorite" menu.



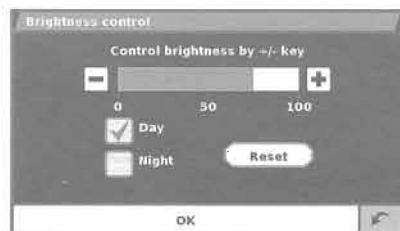
Configure Menu

Configure



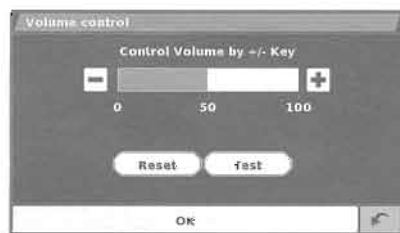
You can set or change the PND's basic setting by "Configure" menu. This menu consists of 13 sub menus for adjustment

1) Brightness control



To adjust the brightness, press "Brightness control" item by using your finger. "+" button to grow light and "-" button to get dark

2) Volume control



To adjust the volume, press "volume control" item by using your finger. "+" button to increase the volume and "-" Button to decrease the volume. If you want to return the default audio level, press the "reset" button.

4. Configure Menu

3) Change language



The PND has the language option. So you can select ENGLISH, SPANISH or FRENCH voice prompts and alerts by pressing "Change language" menu.

When you have decided which language you prefer, press "OK" button.

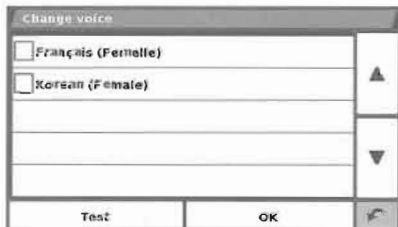
4) Change voice



The PND comes with a choice of a male, Female, Southern or Urban English as well as Female Spanish, French or Korean voice Prompts and alerts by "Change Voice" menu.

To make your selection, press the relevant check box with your finger.

When you have decided which language you prefer, press the "OK" button.



5) Unit of measurement:



This menu allows you to display between metric and imperial measurement.

The PND has 3 units of measurement.

To make your selection, press the relevant check box with your finger.

When you have decided which unit of measurement you prefer, press "OK" button.

4. Configure Menu

6) Setup



You can set and adjust the screen display by "Setup" menu.

This menu consists of 3 sub menus.

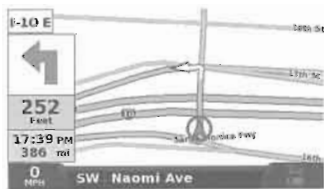


6) - 1 2D/3D/View

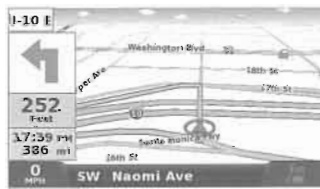
2D/3D/
View

This sub menu allows you to select the view of the map that you would like to have display. The 3D view displays the map, route And POI from a 3D perspective.

To make your selection, press the relevant check box with your finger, and Press "OK" button.



<2D picture>

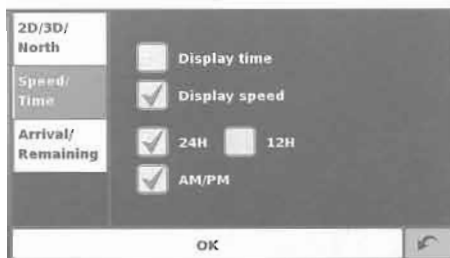


<3D picture>



<North picture>

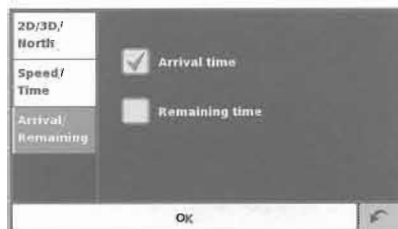
6) - 2 Speed/Time



This sub menu allows you to change the information displayed in the bottom left hand side of the main map screen the vehicle's current speed and the current time.

To make your decision, check the relevant check box and press the "OK" button

6) - 3 Arrival/Remaining



This sub menu allows you to display either the time left to arrival and the time left to travel on the main map screen.

To make your decision, check the relevant check box and press the "OK" button.

Your new setting will be saved and will be displayed on the main map screen every time you use the PND.

4. Configure Menu

7) Show POI



The PND comes with completed with a comprehensive list of POIs (Point Of Interest).

You can select which of such POIs you would like to have indicated on the map.

You can edit this POI's list with in this menu. However standard POI's are shown at the first time.

A red check in the box indicates that the POIs will appear on your map, and unchecked POIs will remove from the map so that you can't see such POIs on your map screen.

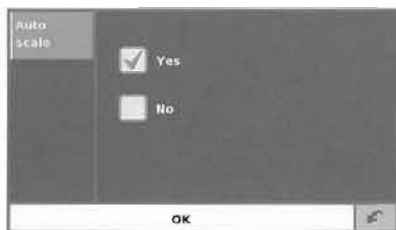
To save the changes, press the "OK" button on the bottom of the display.

If you want to exit the "Show POI" list without saving you set, press the backward Arrow key located in the bottom right hand corner of the display.

Press the "OK" button to confirm the selection.



8) Auto scale



"Auto scale" function automatically magnifies the map as you approach a junction or intersection, where you may need to turn. This function can be turned on/off as you wish by pressing the check box. And press "OK" button.

"Auto scale" menu is set to "On" by default.

9) Alert



This function allows you to alter the audible alerts provided during navigation and to turn the audible beeps on/off while selecting functions on the display.

To change any of these settings check the relevant check box to confirm your selection.

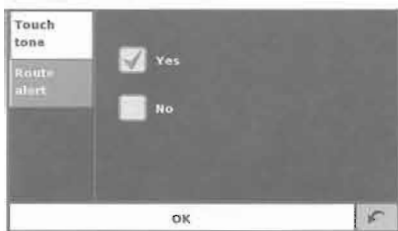
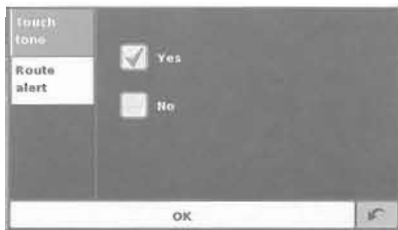
If you check "Yes" on the "Touch tone" item, the PND emits a sound when LCD screen is touched. And If you choose "No", such sound will turn off.

If you deviate from the planned route, PND will automatically recalculate a route to the destination. To indicate re-routing is in Progress the PND will emit a sound.

You can choose following options.

"Yes" : The re-route sound will be emitted during recalculation.

"No" : No sound will be emitted.



10) GPS status



You can check the state of your PND's GPS connection at any time by selecting this menu.



4. Configure Menu

11) Change map color



This menu allows you to select the alternative color schemes that are available for the maps used in your PND.

There are 13 color schemes to select from.

You can choose the different daytime color schemes by "left and right arrow Keys.

To save your selection, press "OK" button on the bottom of the display.

12) Qwerty keyboard



You can select more convenient keyboard for you by this menu.

The PND has two kinds of keyboard. The one is an ordinary type keyboard and the other is "Qwerty keyboard".



13) Change menu theme



You can change the menu color as you wish.

Press the check box next to the option you would like to select.

The PND has 5 color themes.

To save the color setting, press the "OK" button on the bottom of the display.

If you want to keep the setting unchanged you can exit the menu by pressing the backward key in the lower right corner of the display



14) Time zone



You can select the time display by checking the auto or manual.



<Pic.1> Auto checked



<Pic.2> Manual checked



<Pic.3> Time zone

If you select the manual, you will see the “Use DST” and “Change” button.
Press the “Change” button and select the proper time zone by right/left arrow button.
To save the time zone setting, press “OK” button.

* If you want to apply the 'summer time' to time setting, check the “Use DST” check Box.

15) Day/Night



You can adjust the day or night start time, press the right/left arrow button on both of day/night setting bar after select the check box for Auto.



16) Version



You can check and see hardware, software and map version of your PND's by this menu. If you want to check the reliability of the software and map data on your SD card, press "Verify data" button then PND will perform a 'system check' to ensure that the SD card Information is at suitable efficiency.

Above picture says this PND's hardware version is 0001, the version of loaded software is 0.99.1.0 and the version of Map is na.A1200B3C01120.

** Above picture is an example, so it is possible to be written different version on your PND.

Route Options

1) Route Option

You can change the parameters of the route or guidance which will list the turn By turn instructions of the trip by "Route Options" menu items.

Route option

Find by city	
State	California [CA]
City	Los Angeles (CA)
Street	W 104th Pl
House No.	500
Calculate	
Map	Route option

Route option	
<input type="radio"/> Shortest time	<input type="checkbox"/> Avoid tollway
<input type="radio"/> Shortest distance	<input type="checkbox"/> Avoid freeway
Done	
<input type="checkbox"/> Navigate avoiding road	
<input type="checkbox"/> Navigate via location	
<input type="checkbox"/> Change start position	



Guide you to the most rapid route



Guide you to the shortest route



Guide you to the road without toll gate if possible



If you want to avoid freeway on your trip, mark this check box

5. Route Options

2) Navigate via location

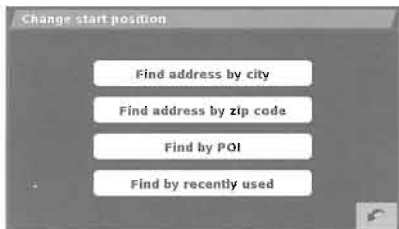
Navigate via location



If you want to include more than a single destination in your trip, this option will help you to set multiple destinations.

3) Change start position

Change start position



If you want to change the start point in your current route for trip to any other position, mark the "Change start position" check box then you can change the start point.

There are 4 items for setting 'via' location, and every items have the same method to set as the original destination' s.

* The items for setting 'via location' and 'changing the start point'

Find address by city

Find address by zip code

Find by POI

Find by recently used

4) Navigate avoiding road

"Navigate avoiding road" item allows you to avoid certain or special road and range when Setting the route.



Navigate avoiding road

Avoid by road name

Avoid by certain road

Avoid by range

Avoid by certain range

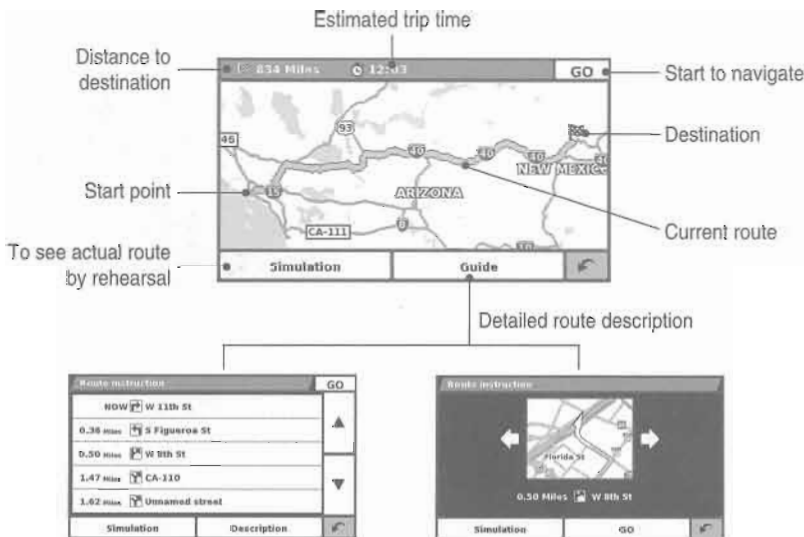
Clear avoided road

Cancel the "Avoid" option

5) Summary

Summary

The "Summary" screen will tell you the distance to your destination, estimated time of arrival and the estimated time it will take to complete your trip.



6. Quick Access Menu

Quick Access Menu

User can use the "Quick Access Menu" by pressing the black bottom text bar of the screen. This quick access menu window will disappear after few seconds without any users' action.



<Pic. 1> Ordinary map screen



<Pic. 2> Quick access menu on the screen

Press the black bottom line as like <Pic.1> then you can see quick access menu window as like <Pic. 2>.

1) Screen brightness setting - Day / Night

Press the first icon to switch the bright setting like <Pic. 3 - Day mode> and <Pic. 4 - night mode>.

If you switch the PND off and then back on the display, it reverts to previous personal setting.



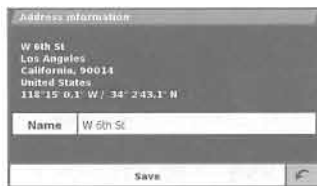
<Pic. 3> Day mode



<Pic. 4> Night mode



2) Road Information

You can get the road information, by pressing the second icon.



3) Volume / Sound

You can control the PND's volume by pressing the third icon.

Press the  icon for mute, you will see  icon.

 Icon to decrease the volume.

 Icon to increase the volume.



4) Map panning

By pressing the last icon you can manipulate the map by touching and dragging your finger on the screen.

Add favorites You can save such position.

Target You can set the destination.



7. Potential areas of poor GPS signal reception

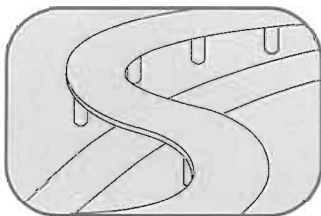
When it is hard to receive GPS electric wave

- a. Driving under the overpass
- b. Driving on the road between skyscrapers
- c. Driving on the road that is near a military unit and other electric transmitter equipments or forests
- d. In case of being inside the tunnel or inside the underground parking lot
- e. In case of disasters such as typhoon, thunderstorm, sand storm etc.

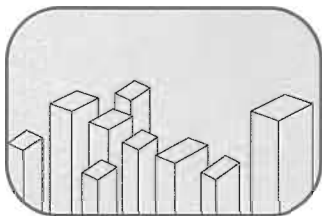
※ POINT

To reduce the 'cold start' time of GPS connection time, remain stationary your position or direction.

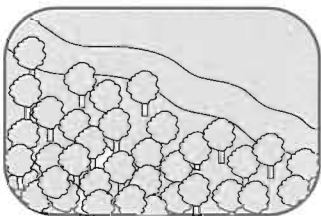
a



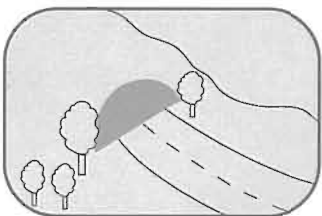
b



c



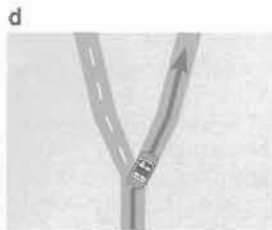
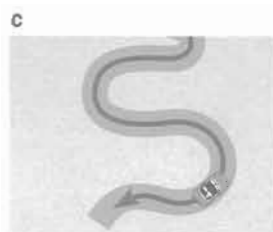
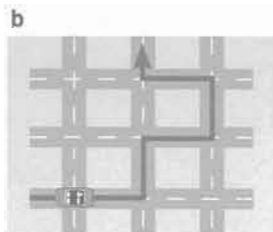
d



8. Potential Cases when the location displays incorrectly on the screen

Potential Cases when the location displays incorrectly on the screen

- Driving on the road that has another similar road nearby
- Driving on the road of a consecutive square road
(check board form of roads)
- Driving on the winding road
- Driving on the road that separates slowly
- Driving on the spiral road
- Driving forward and backwards repetitively
- Driving on the narrow road



Note:

*If you are driving on a road that does not appear on the map screen, it's possibly a newly active road thus causing the GPS location on screen appear as if off road.

*When vehicle is in motion and GPS system is powered-on the screen map location may be different on initial start-up, this is only temporary, once the GPS signal is located, the screen map will change to current vehicle location.

9. Cases when the product can be mistaken as poor function

Cases when the product can be mistaken as poor function

* Attention : Be sure to set up the product after parking or stopping the car at a safe place.

Set up the product away from or vicinity of an airbag.

Set up the product where it does not disturb the functioning of navigating devices like handles and damping devices or gearboxes.

It is recommended to set up the PND on the front windshield of the car where the GPS signal reception is most strong.

1. The map and guidance service can be different from the actual road condition.
2. In case of operating inside or underground, the GPS signal reception can be disturbed depending to the surroundings of the car.
3. In city centers that is crowded with buildings or tunnels, underground parking lots, and sealed areas, the GPS reception can be abnormal. So the product must be set up outdoors in open area.
4. Do not set up electronic products that generate serious electromagnetic waves like electronic transmitter. It can cause disruption in receiving GPS signal.
5. In case of driving in poor GPS signal reception areas, the time of recognizing the current location can take longer than normal.
6. Leaving the product in a condition of too high or too low temperature in the car can cause serious damage to the GPS transmitter.
7. In case of poor conditions of GPS reception, the location of the car on the map and the actual location can be different and it might not be able to recognize and indicate the correct current location.
8. Due to map matching error, it can indicated that the car is off the actual driving road.
9. The error of the GPS reception is about 10M and in case of driving roads that run closely parallel, the actual location and the location of the map might be different.
10. In case of using the product for the first time after purchase or not having used the product for a long time, it can take quite a long time for the GPS to recognize the current location. (Sometimes it takes about 5 to 30minutes) The time of reception can differ according to the condition of the GPS satellite. To recognize the current location wait a while until the condition of the GPS reception becomes stable.
11. Under the following circumstances, the GPS might have problems. It is a temporary situation not a malfunction of the product.
 - In case of putting things on the GPS antenna
 - In case of metallic coated car glass
 - In case of cloudy weather
 - In case of other set up products that disturb the GPS reception inside the car. (camera alarm, certain MP3 products, CD player, certain wireless car starter and alarm)
 - Area with many skyscrapers.
 - In case the car is located under overpasses, tunnels, underground roads and inner parking lots

10. Product's Specification

Product's Specification

Components	Details		.ETC
Processor	Intel PXA255	400MHz	
LCD	4.3" TFT LCD	480 x 272 pixels, 64,000 colors	Samsung, with touch panel
Touch			
GPS	Module	SIRF Star III™	
		Every second once fix established	GPS signal update cycle
		Fix to 5 meters 95% of the time	Position accuracy
	Antenna	Patch type (15 x 15)	Patch active antenna - Patron
	External Ant.	Active patch Ant (25 x 25)	Optional - Patron
Storage	SD Card	2GB	
Flash memory		4MB	For device booting
SDRAM		32MB	
POWER	12V / 5V	In-car power connector	Under review
SPEAKER		Integrated high quality loud speaker	Under review
BATTERY	3.7V	Integrated Li-Polymer (1,850mAh)	rechargeable