

# PN 1000

## Quick Start Guide

Erste Schritte und wichtige Hinweise

First Steps and Important Notes

Premiers pas et instructions importantes

Primeros pasos y advertencia importante

Primi passi e avviso importante

Primeiros passos e avisos importantes

Aan de slag en belangrijke aanwijzingen

Komma igång och viktiga anvisningar

Kom i gang og viktige anvisningar

Deutsch

English

Français

Español

Italiano

Portugués

Nederlands

Svenska

Dansk

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## Safety Advice and Important Information

Before you start to mount and use this navigation system, please familiarise yourself with its various components and functions. Furthermore, please read through the safety instructions carefully to avoid causing injury to yourself and/or other road users.



The use of the navigation system does not under any circumstances release the driver from his/her personal responsibility. The applicable road traffic regulations and current traffic conditions always have priority.



For safety reasons, you should install the device and enter the required information in the navigation system before you start your journey or when your vehicle is stationary.



If you decide to install the device in your vehicle using a mount, please be aware of the following: On no account should the screen be adjusted by moving the device itself. Position the screen so that you are able to glance at the display quickly and easily. The device should also be positioned in a way that avoids reflections and glare from the screen. The screen should not be installed/positioned in a place that obstructs your view of things that are necessary for driving the vehicle (e.g. the view of the road or the vehicle's instruments). The screen should also not be positioned within the area directly in front of the airbag as this may prevent the airbag from inflating. Make sure the device is sufficiently secure so that it will not become dislodged even in the event of emergency braking or a collision.



Only look at the screen when it is safe to do so. If you need to look at the screen for a longer period of time, stop the vehicle at an appropriate and safe place.



The values in the status bar are calculated for the current speed, remaining travel time and remaining travel distance. However the accuracy of these values cannot be guaranteed in every case. The actual speed can always be determined by reading the vehicle's speedometer.



Earphone-Volume control: high volumes can damage or decrease the sensitivity of your hearing.












The navigation system does not take the relative safety of the suggested routes into consideration. Road closures, roadworks, height and weight restrictions, traffic and weather conditions, or other factors that can influence the safety and the journey time of the route are not taken into consideration for the suggested routes. Use your own judgement to check the suitability of the suggested routes. If required, use the "Change Route" function to calculate alternatives to the original route. Alternatively take the road you prefer and the software will automatically perform a re-routing (i.e. calculate a new route based on your new position).




In certain areas, one-way streets, turning restrictions and no entry signs (e.g. pedestrian zones) cannot be accounted for. In such situations, pay particular attention to the road signs and rules of the road that apply.



If you need the help of the emergency services (police, fire, ambulance, etc.), do not rely exclusively on the navigation system. Act in a way that you consider to be suitable and sensible in order to receive help in such a situation.

-  Do not subject the navigation system to high temperatures or extreme exposure to sunlight. Temperatures over 50 °C can severely damage the navigation system, especially the lithium ion battery. The lithium ion battery can only be charged within a temperature range of 0-45 °C. Please note the safety instructions when operating the battery! In many countries it is forbidden to dispose of empty batteries with normal household waste. Please find out the regulations that apply in your area regarding the disposal of used batteries.
-  The battery should only be charged if someone is monitoring the device. Do not open the battery with force as this may release corrosive acids. Damaged batteries or batteries that are past their expiry date should no longer be used and should be disposed of in a safe and suitable way.
-  Never expose the navigation system to humidity as this can result in damage. It is especially important to protect the navigation system from getting wet if you are on a motorcycle, bicycle or in a convertible car. This is because the device is not splash-proof.
-  Avoid touching the screen with sharp or rough-edged objects as these can damage the sensitive touchscreen display.
-  GPS (Global Positioning System) is a satellite-based system that supports geographical and time-related information all around the world. The system is operated and controlled by the United States of America. The USA is also responsible for the availability and accuracy of this system. All changes to the GPS availability and accuracy as well as other factors from the surrounding environment can influence the operation of the navigation system. The supplier of this system does not accept any liability whatsoever for the availability and accuracy of GPS data.
-  Please ensure that every person intending to use the navigation system reads this safety information and the recommendations for operating the system beforehand.
-  Before attaching the mount to the front windscreen, you should clean the area of the windscreen that you wish to stick the suction cup to. This is to remove grease and dust from the area.
-  Differences between daytime and nighttime temperatures and/or humidity and moisture can break the vacuum seal under the suction cup of the mount. Therefore you should attach the navigation system so that it will not cause any damage if it fell off the windscreen. As a precautionary measure, you should detach the navigation system at night.
-  Furthermore, if you plan to leave the vehicle unattended for a long period of time, you should remove the navigation system from the vehicle in order to avoid theft.

## Maintenance and Cleaning

-  Please do not use any cleaning agents or detergents to clean the screen and case of the device. The best method is to use a soft, damp cloth.

## What's Included?

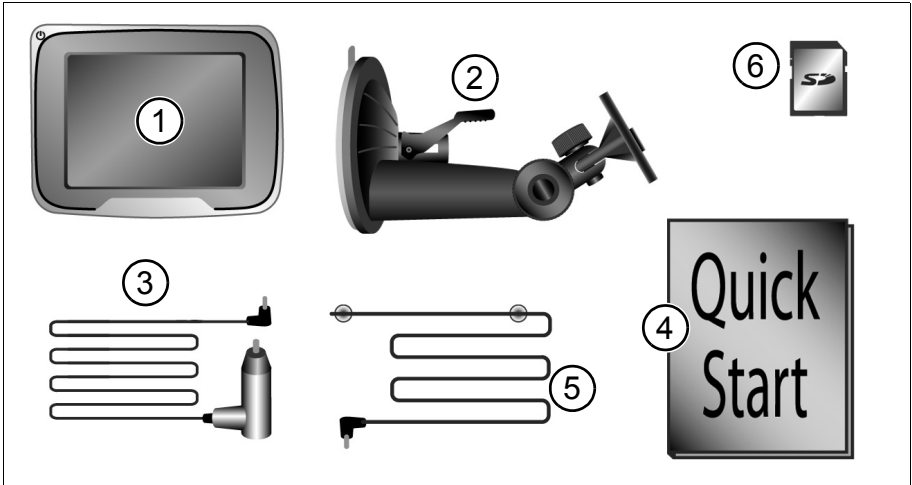
Your navigation system package includes the following parts:

- 1 Navigation system (including lithium ion battery)
- 2 Mount with suction cup to attach the device to the windscreen.
- 3 DC cable 12V/24V to power the navigation system from within the vehicle (adapter for cigarette lighter)



You should not use any cables other than the AC (optional) and DC cables provided to power the device and to charge the battery!

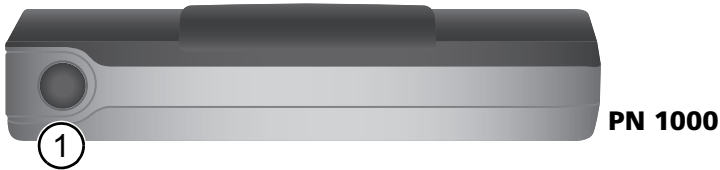
- 4 Quick Start Guide
- 5 TMC-antenna
- 6 SD Card with map data and navigation voices



What you can get as an option:

- Additional battery pack
- 100-240 V power adaptor

## Controls and Connection Ports



### Top

- 1 Power button
- Quick tap: switches the navigation system to stand-by mode.
  - Another quick tap will turn the system on again.
  - Hold down the button for about 3 seconds to switch off the navigation system.
  - To switch the device back on again quick tap the power button. The navigation system will be completely restarted.



### Front

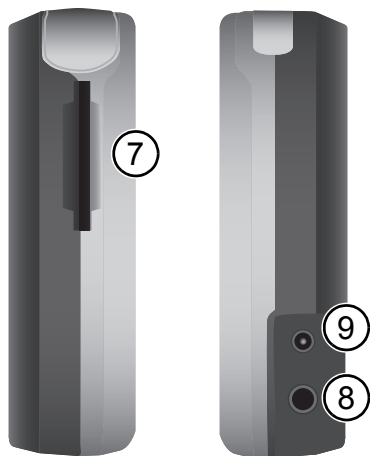
- 2 Display / touchscreen
- 3 Charging symbol. This status LED can display the following:
- Green** Device gets power from external supply and battery is charged by 95 % of total capacity
  - Red** Device gets power from external supply and will be charged
  - Off** Device is not powered by external power supply



## Back

- 4 Compartment for lithium ion battery (cover)
- 5 Loud speaker
- 6 Grooves for cradle fixation

## PN 1000



**left side**

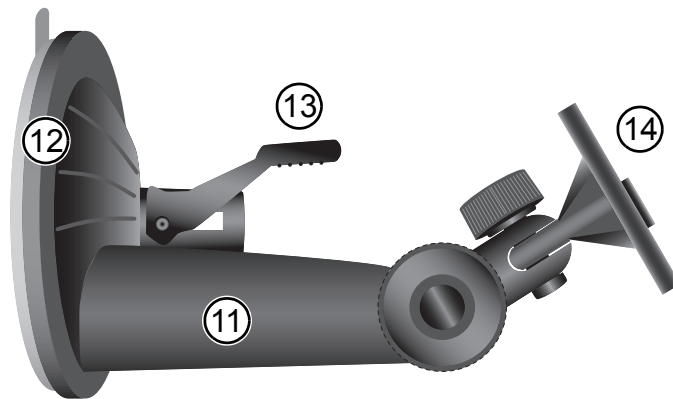
**right side**

- 7 Slot for SD card
- 8 Headphone socket or TMC-antenna
- 9 Connection for 100V-240V power adapter (optional) or 12V/24V cigarette lighter cable



## Bottom side

- 10** Reset button: If the navigation systems stops responding to your actions, you can reset the system by pressing this button (e.g. with a straightened-out paper clip or a pencil). The data you have saved will not be lost!



## Mount

- 11** Base
- 12** Suction cup
- 13** Locking lever

Mount with suction cup could vary from the picture!

- 14** Passive cradle



## Initial Setup

Before you can switch on the navigation system for the first time, you must insert the data medium containing map data and connect the battery. This can be done by performing the following steps:

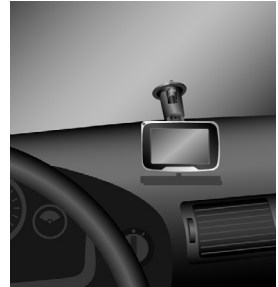
- Insert the memory card into the appropriate memory card slot located on the left of the device.
- Open the battery compartment.
- Plug the battery connector into the battery socket as you can see on the picture. Be sure to have the connector in right orientation. Slide the battery into the battery compartment and place the cable into the small groove above. Now you can close the battery compartment.
- Connect the navigation system using the cigarette lighter cable to the 12V/24V power supply in your vehicle. The battery will then start to charge. It takes approximately 5 hours to fully charge the battery. The battery life without an external power source is approx. 3 hours depending on application and adjusted display brightness.



## Assembly and Mounting

To mount the device in the vehicle, proceed as follows:

- Find a suitable place in the vehicle for mounting the mount. The screen be must be clearly visible from the driver's seat but the device should not obscure the driver's view.
- Position the mounting plate (passive cradle) on the mounting in such a way that the dogs on the mounting locate in the two recesses on the rear side of the plate. Then move the locking plate to the side until it engages.
- Please note the safety instructions when choosing the location page 26.
- Press the suction cup against the glass in a free sky viewing position and move the pressure lever towards the glass until it locks into place.
- Attach the navigation system to the cradle.



On no account should the screen be adjusted by moving the device itself.



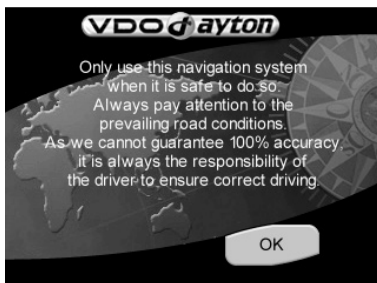
**Dismounting:** To detach the device, switch the pressure lever in the opposite direction and carefully pull the transparent rubber end of the suction cup to remove it from the window.

## Configuration

- After switching on the system, the legal disclaimer screen appears.
- Tap **OK** after reading the screen.
- As soon as the system is ready, the main menu will appear on the screen.



**Touchscreen** The navigation system is equipped with a touchscreen. You can tap the on-screen button with your finger. Avoid touching the screen with sharp or rough-edged objects as these can damage the sensitive touchscreen display.



## Main Menu

The following functions are available in the **Main Menu**:

### Destination (page 42)

Tap the **Destination** button to select the destination if you want the navigation system to guide you from your present location to a specific destination.

### Home

Short cut. After you defined Home you can navigate to this address, simply by tapping the **Home** button in the main selection menu.

### Work

Short cut. After you defined Work you can navigate to this address, simply by tapping the **Work** button in the main selection menu.

### Map Display (page 34)

Tap the **Map Display** button if you want to view the navigation screen.

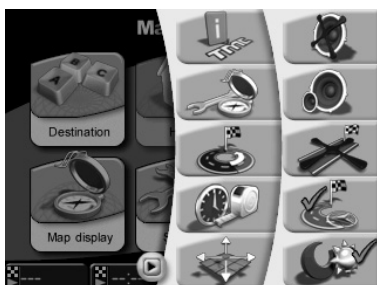
### Settings (page 34)

Tap the **Settings** button if you want to change basic settings e.g. language, volume, brightness, unit of measurement (kilometres or miles).

### Toolbar



The toolbar is a shortcut to different functions and information (e.g. Mute, Volume setting, day or night, change route and information). You can open and close the Toolbar by tapping the bottom right of screen.



## Settings



Tap the **Settings** button in the main menu to change basic settings.

- Tap **Settings**. A sub-menu opens. Tap the arrow button on the bottom right of the screen to scroll through the other pages of the sub-menu.



Tap **Back** to exit from a selection list without saving changes. You return to the previous menu. If you select an item from a selection list or if you tap **OK**, the selections you have made are confirmed and you return to the previous menu.

**There are several system settings:**

**Map display, Screen, Regional, Address book, Information, Sound, Change route, Simulation, TMC, Alert points, Position & speed, Select map and System ID.**



### Map display

This opens a selection of map display settings e.g.:



### Heading up

Tap this option to select your preferred orientation. You can switch **Heading up On** or **Off**. When it is **On** the car is heading up (the map faces the direction of travel). When it is switched **Off** the map is shown with north up (the car travels in all directions).

### POI-Icons

Choose the icons that should be displayed in the map.

### Alert point icons visible in the map

**Alert point locations** can be made visible in the map (only available for countries for which this information is provided). **Alert point icons** can be enabled in the Points-of-Interest (POI) icons screen by enabling the category **Alert**. The POI icons screen can be reached by tapping on the following buttons:



**Main Menu > Settings > Map display > Next (1/3) > Next (2/3) > POI Icons**

### Screen



Tap this option to set e.g. **Day or night, Colour scheme** and **Brightness**.

**Status bar** The status bar is visible on the bottom of the screen.

In the **Settings status bar** menu you can set preferences (e.g. local time, remaining travel time, GPS status, current speed). The preferences you have chosen, will be visible as icons in the Status bar. The status bar preferences can also be changed by tapping on the status bar fields directly.

## Colour selection



Next to menu colours it is possible to select a colour for the map display.

The colour selection screen has the following options:



Select **Day menu** colour



Select **Day map** colour



Select **Night menu** colour



Select **Night map** colour



**Day colours only**

When the **Day colours only** button is enabled, there will be no difference between day and night mode; the **Night menu** colour and **Night map** colour will be respectively equal to the **Day menu** colour and the **Day map** colour. In this case the **Night menu** colour and **Night map** colour buttons will be disabled.



Switching between the **day and night colour** can be done with the **Night / day** button in the Screen settings menu (**Main Menu > Settings > Screen**) or in the toolbar.

If **Automatic Brightness** is disabled, the display brightness will be switched as well.

## Regional



This opens a list of regional settings, e.g.:

- **Language** Select your preferred language.
- **Voice** Select the desired type of voice (additional voice files are stored on the SD card).
- **Km/miles** Select your preferred unit of measurement.
- **Clock 12/24** Select how you wish the time to be displayed: 12-hour or 24-hour clock.

## Address book



You can store addresses as your favourite destinations in the **Address book**. In this menu you can delete these destinations as well. The addresses you have set can be used for navigation at any time.

It is also possible to export your address book to SD-card and import an address book from SD-card. This option gives you the possibility to easily transfer an address book to other PN1000 / PN2050 / PN3000 devices. When importing or exporting the address book you have to make sure that an SD-card is inserted into the PND's SD-card slot.



To export the address book to SD-card, go to **Main Menu > Settings > Address book** and press the **Export button**. A confirmation message pops up as soon as the export is finished.



To import an address book from SD-card, go to the **Main Menu > Settings > Address book** and press the **Import (Replace)** button. When an exported address book is available on the SD-card, it will replace the existing address book in the PND. The PND will ask for confirmation before replacing the existing address book.

\* "Secure Digital card" and the "Secure Digital logo" are legal trademarks of the SD card association.

## Sound



Choose this option if you want to change sound settings (e.g. mute, set volume or set button click).

## Change route



You can change your route by planning Short, Medium or Long Route diversions. If using TMC, you can also refresh your route or allow the system to take traffic information into consideration.

## Simulation



In this menu it is possible to simulate your route. For example set start location and the navigation system can simulate driving to your desired destination and back.

## TMC (Traffic Message Channel)



During navigation the system regularly accesses the latest TMC traffic information in the background; provided that this information is available in the part of the country you are in.

## Alert points



**Alert points** can give visible and audible notifications.

## Position & speed



In this menu you can change the current position.

## Select map



This opens a selection screen where you can choose from the installed maps.

## System ID



Tap this option to show product and Map database versions.

## Factory defaults



In this menu you can tap **Clear addresses** if you want to erase all addresses in the **Address book**. If you want to reset your system tap **Factory defaults**.



What you select here can be changed at any time. Updates can change the structure of the menu.

## Users

Personalization gives the users of the PND the possibility to select own personal settings and information. The following items can be personalized in the PND (amongst others):

- Recent destinations
- Menu colour
- Map colour
- Map display options
- Brightness settings
- Menu language
- Voice language
- Volume levels
- Route criteria
- Simulation mode settings
- Time zone and daylight saving option
- Visual and audible alert point options

When no users have been configured before, the system will store the settings at a default location in the system. As soon as the first account is created, settings are copied to this new user account.

### User Screen



The Users screen allows you to switch between the users and to create, delete, backup and restore user accounts.

### Switch between the available users



When switching, the settings and information (like the menu colour and the voice language) related to the user account will be applied.

### Create a new user



Enter the user name in the typewriter screen and tap **OK**. Each time a new user account is created, this new account gets the settings of the currently selected account as initial settings.



### Delete a user

Select the user you want to delete from the list of users. You cannot delete the currently active account.



### Make a backup

Make a backup of the address book and settings of the currently active user to the inserted SD-card\*.



### Restore the backup

Restore the backup of the address book and settings of the currently active user from the inserted SD-card. Restoring a backup is only possible when a backup of the currently active user is available on the inserted SD-card.



### Show the user selection screen at system startup

This function is very handy if the PND is often used by two or more users.

## Route criteria

This item indicates which route criteria are currently active.



To select this item, tap on one of the status bar labels at the bottom of the screen and select **Route criteria** from the list.

The icons that are displayed in the Route criteria status bar label are:



Avoid ferry



Avoid toll road



Avoid tunnel



Consider traffic information



Fastest route



Shortest route



Prefer motorways



Avoid motorway



Motorbike

## GPS Status and Quality

When you switch on the device for the first time, it can take several minutes for the GPS reception to reach a sufficient level and to determine your current position. If you are unable to obtain a sufficient GPS signal, please read the Troubleshooting chapter for suggestions on solving the problem.



Hold the navigation system vertically to obtain a better GPS signal.



If you are using the navigation system in an inner-city area, it may take longer to refresh the map items on screen. This is due to the large number of roads and additional information (e.g. hotels, restaurants) as well as the high-density housing areas. Furthermore it may take longer to establish the GPS reception if you have just driven out of an underground car park or another type of building where GPS signals are blocked.

### The GPS reception can be checked by doing the following



Check the **GPS status** in the status bar.

In case the status bar does not show the GPS status: tap on a status bar element and select **GPS status** from the list.



The amount of tracked GPS satellites is shown. The quality of the GPS signal is indicated by the shape and colour of the check mark:

<b>Red</b>		No reception
<b>Yellow</b>		Initializing or insufficient signal quality, less than 3 satellites found
<b>Yellow</b>		Sufficient signal quality, but not very accurate position
<b>Green</b>		Good signal quality, accurate position



## TMC Status and Quality



Using TMC offers you an additional function to allow you to dynamically avoid traffic jam. During navigation the system regularly accesses the latest TMC traffic information in the background; provided that this information is available in the part of the country you are in.



TMC reception information can be made visible in the status bar.



Tap **Settings** and tap **TMC** to switch TMC reception On or Off.



Traffic information is depending on several conditions e.g. TMC is switched **On**, the traffic information is known and send by the provider, the information can be received.

When you set TMC **On** and there is no reception, a red checkmark is shown. When you receive TMC, the name of the provider is shown green in the status bar. If TMC is switched **Off**, no provider is shown and a narrow line is visible.



When TMC is switched **On** and you receive traffic information, the status bar also visualises the delay time. For example caused by traffic jam or road works. This is indicated by the colour of the hourglass:

**Red** There is TMC information and delay time

**Green** There is TMC information but no delay time

**Grey** TMC is not available or switched off (only for traffic product version)



When TMC is switched **On** and there is a traffic jam on your route, a pop up icon appears in the left corner on the map display screen. Tap this icon and a list of detailed information appears.

## Manual TMC station selection\*

The TMC radio station selection can be automatically selected (default) or you can decide to select the TMC radio station of your preference manually.



To do this, go to the **TMC Station Selection screen**. The list will show all TMC radio stations that are received at the moment the TMC Station Selection screen was opened.

Select the topmost item in the list for automatic TMC radio station selection, or select one of the listed TMC radio stations from the list when you want to select the TMC radio station yourself.



The signal strength indicator gives an indication of the quality of reception of each listed TMC radio station.

When a traffic event screen pops up, the name of the TMC station that broadcasted the traffic event is shown in the top right corner of the screen.

## Traffic Info On Route bar\*

The **Traffic Info On Route** route overview shows all traffic events on the route between the current position and the destination.



When the **Traffic Info On Route function** is enabled, the **Traffic On Route bar** appears on the left side of the **Map screen** in case of one or more traffic problems on the planned route.-



Red line in the **Traffic Info On Route bar** indicate the location on the route. The size of the red line is an indication of the length of the traffic problem.

\* Only available for PN1000 and when the PN2050 / PN3000 is placed on a MA3000T or MA3000TB cradle

## Navigation

The purpose of the navigation system is to guide you from your present location to your desired destination. The navigation function automatically determines your present location using the GPS signal. You simply have to enter your destination and the navigation process starts with spoken and visual instructions.

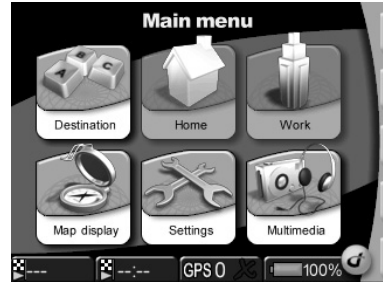
The following section explains all the steps you need to perform: from entering the address to the arrival at your destination.

### Enter your destination

First select your destination. Tap **Destination** in the **Main menu**. In this menu you see several main possibilities: **Address**, **Address book**, **History** and **Point of interest (POI)**.



For your convenience **Home** and **Work** are directly accessible from the main menu. Just by tapping the **Home** and **Work** button on the screen you will be navigated to these destinations.



You can enter an address (**Address**) or select an address from your address list (**Address book**), from the list with your previous destinations (**History**) or from the list with special destinations (**POI**, e.g. restaurant, petrol station and car dealer).

You can also set co-ordinates (**Geographical co-ordinates**). If you want to stop navigation guidance tap **Stop guidance**.



### Address

- Tap the **Address** button on the screen.
- Tap the country entry. Scroll up and down the list to select the desired country.
- Tap the city entry and type the name of the city where you want to go.
- Tap the street entry and type the name of the desired street.
- Finally choose the house number and tap **OK**.



Use the toggle buttons in Address for alternative ways to enter your destination address. Switch between City and ZIP code (only needed for specific countries), Number and Crossing.



**Quick tap:** In the **Address** screen you can tap the **POI** button. You can quickly choose from the list with special destinations (e.g. restaurant, hotel, airport, petrol station and car dealer).





**Intelligent typewriter** The navigation system is equipped with an intelligent typewriter. This allows possible characters only.



**List button** After you have typed a few letters you can tap the "list button". A list of matching results appears.



Switch between alphabetical, numerical and accented elements by using the keyboard toggle



Using the "backspace" button, you can delete incorrect entries (either whole terms or individual letters).



## Address book



By tapping the **Address book** button on the screen a list of your previously stored addresses appears. For adding, renaming and deleting your stored addresses tap **Address book** in **Settings**.

## History



By tapping the **History** button on the screen a list of your (recent) destinations appears.

## POI menu



POI are special destinations. When you want to select **POI** tap the button **Point of interest**. When you want to select a POI you must know where you want to search: around **Current Position** or around **Destination**.

For example, you want to find a hotel near current position. Tapping **POI** opens the **POI** menu. Here you can tap **Current position**. The navigation system shows you a list with all known **POI categories**. After selecting **Hotel** the navigation systems shows a list of all known hotels in the area. The hotel nearest to your current position will be at the top of the list. Tap the desired list entry in order to select your hotel. You have now selected the hotel as the destination. The route will now be calculated automatically and displayed on the map. To start navigation, tap **OK** in the **Confirmation** screen.

## Geographical co-ordinates



If you enter co-ordinates you must select northern or southern hemisphere.

## Stop guidance



By tapping the **Stop Guidance** Button the current guidance will be stopped.

### Confirmation

When you have entered the destination, all elements for the desired destination appear on the **Confirmation** screen; the system will confirm your selection. Additionally you have the possibility to store the destination: in the **Address book** or as shortcuts under **Home** and **Work**. You can also adjust the navigation settings (e.g. plan short or fast route). Tap **OK** on the screen or wait a moment: the **Map Display** screen will automatically appear. The **Map Display** screen is displayed and the navigation process starts with spoken and visual instructions.



Every destination is automatically stored in **History**.



### Map Display



When you have set your destination the route will automatically be calculated and displayed on the map. You can now start driving and the navigation system will guide you to your specified destination.

By tapping the **Map Display** button in the Main Menu, you directly enter the map display.



### Zoom in/out with the map

Using these two buttons  and  you can adjust the scale of the displayed map. These buttons are not visible if the automatic scale is activated.

- To zoom out of the map, repeatedly tap the  button until you have decreased the magnification to the desired level.
- To zoom in to the map, repeatedly tap the  button until you have increased the magnification to the desired level.



**Compass:** Tapping the compass will switch the map orientation between facing north and heading up.



While you are on route you can always set a new address. The navigation system recalculates the route and navigation continues.



You can easily switch back and forth from 2D to 3D by tapping on the map.

## Note



The transparent column right on the map shows visible instructions (e.g. a dotted arrow representing "Follow the road"). The map itself shows different elements which can be switched on and off.

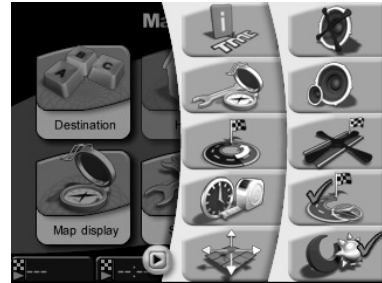


You can do this by tapping **Map display** in the **Toolbar** or in **Settings**.



## Toolbar

Tapping the bottom right of screen, you can open the **Toolbar**, a shortcut to different functions and information.



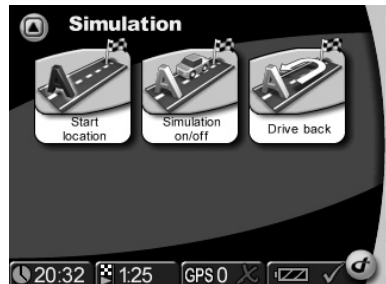
## Example: Information



When you tap this icon the sub-menu **Information** in **Settings** will be visible.

## Simulation

It is possible to simulate routes. When you have entered a destination this mode enables you to see the route at forehand. It is possible to simulate your route from a different point of departure instead of your current position. You enter **Simulation** by tapping the **Settings** button in the main menu. Here you will see a range of settings including **Start location** and **Simulation**.



## Troubleshooting

<b>Problem</b>	<b>Solution</b>
No GPS signal in vehicle	The GPS signal can be blocked by heated windscreens or tinted windscreens with a vacuum-metallised surface.
No GPS signal	Make sure that the GPS antenna on the top of the navigation system is not obstructed by other objects.
Poor-quality GPS signal	Always keep the navigation system positioned vertically.
The navigation system no longer responds to finger taps or doesn't switch off.	If the navigation system stops responding to your actions, you can press the reset button on the bottomside of the device (e.g. with a straightened-out paper clip or a pencil). The data you have saved will not be lost! Restart the navigation system by pressing the power button.
System doesn't start, screen remains blank.	Make sure that the battery is fully charged and/or that the device is connected to a power source. If you are using the DC cable, check that the plug is securely and correctly connected to the cigarette lighter.
The system shuts itself down after a certain time in operation.	In the case of extremely low or high temperatures, the system will temporarily shut down to prevent itself from being damaged. It will switch itself on again once the temperature has returned to normal. A sudden shutdown is also possible when the battery is empty.
The voice alerts for navigation cannot be heard.	Check whether the volume is set to an audible level in the basic settings.
Navigation is not accurate.	A level of inaccuracy of 50 m is within acceptable limits. If a higher level of inaccuracy occurs repeatedly, please contact an authorised specialised dealer.
Driving/navigation instructions do not correspond to the actual traffic situation.	It may be the case that the position determined by the navigation system is at the moment incorrect. The current traffic situation may have changed and therefore does not correspond to the information on the map.
No sound	In case of no sound, mute might be on or the volume is low.
Only English voice	All voices are on the SD card. When the SD card is inserted in the navigation device, these voices will be available on the navigation system. By removing the SD card, only the English voice will be available.

## Technical Data

### PN 1000

- 3.5" colour TFT LCD with a 320 x 240 pixel resolution, touchscreen, anti-reflex surface
- Processor: 300 MHz
- 64 MB Flash ROM and 64 MB SD RAM
- 20 channel GPS receiver
- Lithium-ion battery with a capacity of 1000 mAh
- Dimensions: approx. 105 mm width x 79 mm height x 23 mm depth
- Weight: approx. 189 g
- Operating temperature: -20 °C to + 60 °C
- Short-time storage temperature: -30 °C to + 60 °C
- Charging temperature for lithium ion battery: 0 °C to + 45 °C
- Support of SD cards up to 2 GB

## Imprint

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## Service

For current information on VDO Dayton Multimedia Systems, service addresses, software updates please visit our website:

**[www.vdodayton.com](http://www.vdodayton.com)**

or contact a VDO Dayton dealer.

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