

**MEDION**<sup>®</sup>



User's manual  
MEDION-Navigator 4.4  
Version 2005

**Impressum**

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# 1 Introduction

## Topics covered in this chapter:

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	Safety information on handling MEDION-Navigator	
	Safety information on the installation in the vehicle	
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## 1.1 Important safety information

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Note

In your own interest, read the following notices and safety information carefully before starting up your navigation system.

### 1.1.1 Safety information on navigation

---

Use of **MEDION-Navigator** is executed at your our risk.



**Caution:** To protect yourself and others from accidents, do not program the navigation system while driving. Enter or select your destination and activate the navigation system before you begin to drive!

---



**Caution:** Do not look at the display unless it is absolutely safe to do so! Safe driving is the first priority!

---



**Caution:** The rules of the road and traffic signs must be obeyed prior to following instructions from the navigation system.

---



**Caution:** Do not follow the instructions of **MEDION-Navigator** unless circumstances and the road traffic regulations allow doing so. **MEDION-Navigator** will guide you to your destination even when you have gone off course from your route.

---



**Note:** If you have not understood the instructions or if you are not sure about what to do next, use caution and view the display or arrow view of your navigation system. Do this in safe circumstances only.

---

## 1.1.2 Safety information on handling MEDION-Navigator

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**Caution:** As it is not waterproof, do not expose your GPS receiver to water! For example, protect it from rain, snow or hail when you are on your way by bike or on foot.

---



**Caution:** *MEDION-Navigator* should be disconnected from power supply while your car is parking. As its internal GPS receiver spends energy permanently you might risk discharging the car battery.

---



**Note:** Do not use any harsh solvents for cleaning *MEDION-Navigator*. A damp, lint-free cloth is sufficient!

---



**Note:** Do not unplug by pulling the cable. This might damage the cable!

---

## 1.1.3 Safety information on the installation in the vehicle

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**Caution:** Do not fix the holder within the deployment zone of airbags.

---



**Caution:** When you install the holder, please check that it may not constitute any safety risk, even in case of an accident.

---

## 1.2 Search facilities and conventions

---

### *Find information quickly*

This manual offers the following search facilities:

- ⇔ In the footnote at the bottom of the page, you may check which chapter and which section you are actually reading.
- ⇔ A glossary at the end of the manual contains explanations on the technical terms used in this manual.
- ⇔ An index at the end of the manual allows precise search for the information contained in this manual.

### *Conventions*

This manual uses different font styles and symbols to highlight important paragraphs and to ease its use.

Font	Use
<b>bold</b>	Buttons, icons, names of entry fields, and elements of the software's user interface. Also used for highlighting warnings and Notes.
<b><i>bold italic</i></b>	Registered names and trademarks.
<b>SMALL CAPITALS</b>	Window and dialogue box titles.

Symbol	Use
	Indicates hints and notes that may ease the use of <b>MEDION-Navigator</b> .
	Indicates additional information.
	Warns against dangers that might cause damage to objects and persons.

## 1.3 Liability

---

### *Limitation of liability*

The software and the manual are subject to change without notice. MEDION AG may not be liable for the correctness of the information contained in this manual nor for damages resulting from the use of this manual.

To improve the quality of our products and our services, we appreciate all suggestions for improvement and all error notices.

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---

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0848 - 33 33 32

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⇔ Windows and ActiveSync are registered trademarks of the Microsoft Corporation.



## 2 Installation and quick-start guide

### Topics covered in this chapter:

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2.1	Operating mode of your navigation system	page 14
2.2	Installation of the navigation system	page 15
	Inserting the memory card into the device	
	Installing the navigation software	
	Restoring the files of the memory card	
	Installation in the vehicle	
	Fitting MEDION-Navigator on your bike	
	Starting navigation	

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## 2.1 Operating mode of your navigation system

---

<i>MEDION-Navigator</i>	The time of complicated and frustrating inquiries on the right way in folded maps is over. From now on <b>MEDION-Navigator</b> , your navigation system, will guide you, based on satellite information, quickly and safely to your destination.
<i>GPS-based navigation</i>	<p>The <b>G</b>lobal <b>P</b>ositioning <b>S</b>ystem (GPS) has originally been developed in the 70ies, as a weapon guidance system for the American forces.</p> <p>The GPS is based on 24 satellites, which are in orbit round the earth and which are permanently emitting signals. The GPS receiver receives these signals and calculates, based on the runtime of the signals, his distance from the respective satellites. This information serves for calculation your current geographic position.</p> <p>The signals of at least three satellites are needed to determine the longitude and the latitude. With the signals of at least four satellites the elevation may be calculated, too. The determination has an accuracy of about 3 yards.</p>
<i>Operating mode of the GPS</i>	<p>The delivered maps contain the geographic coordinates of the points of interest, streets and towns they represent. Thus the navigation system can calculate a route from a given start point to a given destination point.</p> <p>In case your navigation system receives the signals of at least three satellites it may determine your current position and represent it on the map. This position may then serve as start point for navigation purposes. As the determination and representation of your position is carried out once a second, you may watch your movements on the map.</p>

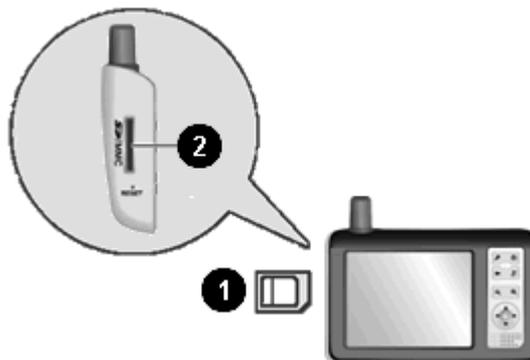
## 2.2 Installation of the navigation system

### 2.2.1 Inserting the memory card into the device

*Insert the memory card into the device...*

Before using **MEDION-Navigator** you must insert the memory card containing the cartographic data into the device.

1. Unpack the memory card carefully. Pay attention not to touch contacts and not to make them dirty.
2. Hold the memory card **1** as shown below (label up, cut corner bottom right). Insert the memory card into the respective slot **2** at the left of the device. It should snap in.



**Note:** The memory card must stay inserted in the device while you are using the navigation system. If you remove the card while using the system, it executes a soft reset and prompts you to insert the memory card.

### 2.2.2 Installing the navigation software

*Install the navigation software...*

1. Take the stylus and push the main switch on the pack of the device to the **ON** position.



The brand logo is being displayed for a short time. The installation procedure starts automatically. A few seconds later, the initial MEDION screen appears.



**Note:** Depending on the battery charging state, it may happen that you have to charge the device for a while before the installation may be executed.

### 2.2.3 Restoring the files of the memory card

#### Survey

In case you have lost or damaged the provided memory card, you will find all files, which are necessary for restore on your **MEDION-Navigator**-CD-ROM 1.

You will need a PC for restoring the files. You may transmit the files via an **ActiveSync** connection or via a card reader.

#### Restore the files of the memory card...

1. Insert the **MEDION-Navigator**-CD-ROM 1 into your CD-ROM drive.
2. Open your language folder, e.g. **English** on the CD-ROM 1.
3. Open the **Installation** subfolder of the language folder and copy all of its files to a memory card.
4. Insert the map-CD (CD-ROM2, CD-ROM3 or CD-ROM4) into your CD drive, which contains the map you want to use for navigation.
5. Open the **Maps** folder and copy the required map (the respective map folder with all its subfolders) to the memory card.
6. Proceed as described in "Installation of the navigation system", page 15.

**Note:** In case you want to use another language version of **MEDION-Navigator**, select the respective language folder in step 2.



In case you just want to use another map on your navigation device, execute only steps 5 and 6. Make sure that the available storage capacity on your memory card is sufficient for the selected map.

## 2.2.4 Installation in the vehicle



**Caution:** The mounted holder must not impede the driver's attention on the traffic. If this is not possible, mount the holder somewhere else so that safe driving is granted. In case this is not possible, use the provided adhesion plate to mount the holder somewhere else so that safe driving is granted.



**Note:** You need not execute steps 1 and 2 if you want to mount the holder on your windscreen.

*Mounting the holder...*

1. Remove the lamination sheet from the adhesion plate.
2. Stick the adhesion plate at a convenient place on the dashboard. Make sure that the surface of the dashboard is clean and dry and press the plate forcefully on its place.



**Note:** Do not charge the plate for the first 24 hours in order to grant its hold.

3. Attach the cradle of the device to the swan-neck mount.



**Note:** Take note of the inscription on the swan-neck mount. The arrow with the inscription **close** must show in snap-on direction. The connection must snap on audibly.



4. Place the suction cup on the adhesion plate (or directly on the windscreen) and press the lever on the suction cup down. The suction cup adheres to the plate (or to the windscreen)..
5. Insert the device into its holder. First place the bottom of the device correctly, and then push it backwards until it snaps into the clip.



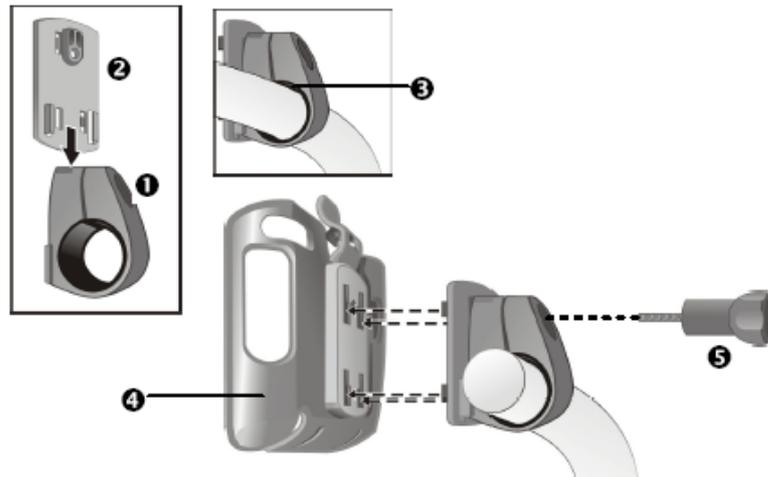
6. Insert the chinch jack ❶ of the power supply cable into the respective socket at the bottom of the device.

7. Insert the power jack **2** into the cigarette lighter.



## 2.2.5 Fitting MEDIION-Navigator on your bike

*Mount the fitting...*



1. Connect the clamp **1** and the mounting plate **2**. Pull the clamp round the handle bar as represented above (opening up, plate towards the driver). Do not forget to put the rubber band **3**, which is included in the delivery between the handle bar and the clamp. The clamp is flexible, so you can open it carefully, place it round the handle bar and close it.
2. Put the cradle of the device **4** onto the mounting plate **2**. Push the holder downwards until it snaps in noticeably. Please note that there is only one correct position for the holder to be fitted.
3. Fix the complete holder kit with the included screw **5**. Fasten the screw only slightly for the moment.



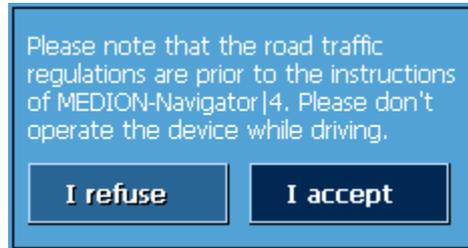
4. Insert the device into its cradle. Verify that the clip snaps noticeably!
5. Turn the holder until you may read the screen well while sitting on the bike.
6. Fasten the screw.

## 2.2.6 Starting navigation

Use your navigation system...

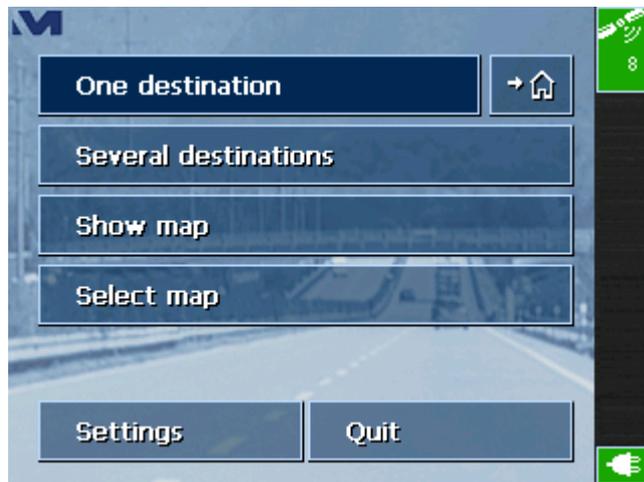
1. Turn on your **MEDION-Navigator**.

At each start of **MEDION-Navigator**, the following message appears:



2. Tap the **I accept** button. If you do not accept and if you tap the **I refuse** button, the device turns off.

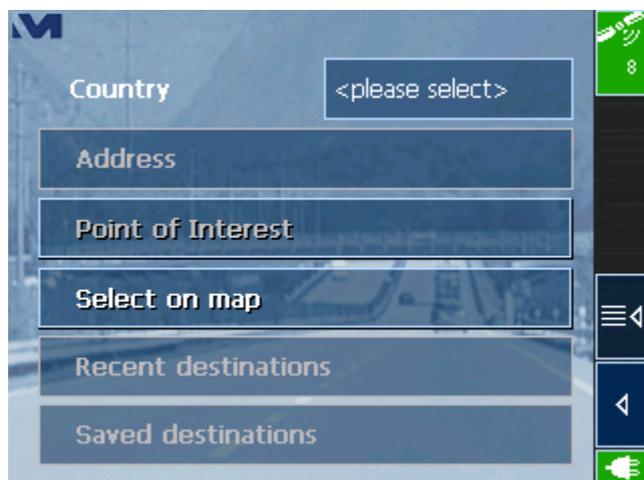
The **MAIN SCREEN** appears.



3. Tap the **One destination** button to enter your destination.

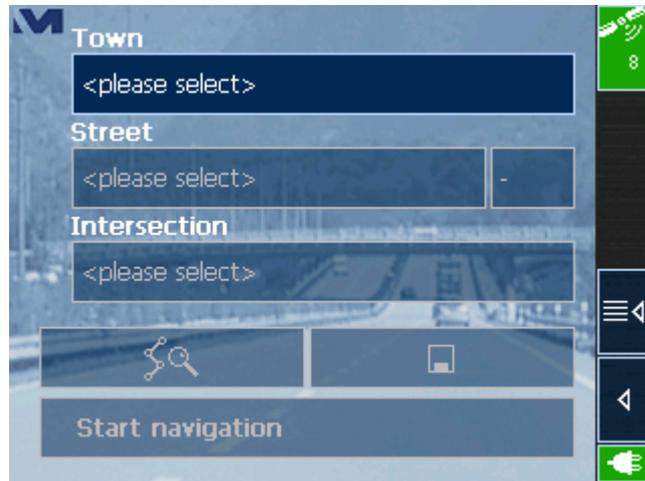


The **DESTINATION** screen opens:



4. Tap the **Country** entry field and select the destination country.
5. Tap the **Address** button.

The **ADDRESS** screen opens:



6. Enter the name of the destination town into the **Town** field.
7. Enter the name of the destination street into the **Street** field. Enter the house number if possible.
8. Tap the **Start navigation** button.



For details on the functions of your navigation system, please refer to "Operating the navigation software", page 23, and to "Navigation and Itinerary planning", page 57.



# 3 Operating the navigation software

## Topics covered in this chapter:

---

3.1	Starting MEDIION-Navigator Basic settings	page 24
3.2	User interface and basic functionality Icons	page 29
3.3	Indicating destinations Entering a destination manually Selecting a Point of Interest Indicating destinations on the map Saved destinations Recent destinations Save and use your home address	page 32
3.4	Working with the map Operating the map Representation of the map Displaying additional information on the map	page 47

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## 3.1 Starting MEDION-Navigator

---

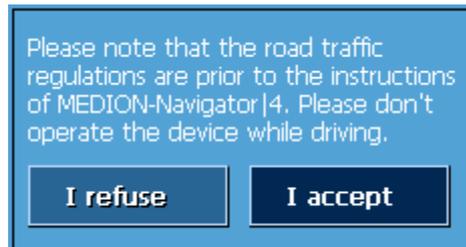
### Precondition

You have carried out installation and activation of **MEDION-Navigator** as described in "Installation of the navigation system", page 15.

### Starting the navigation software...

1. Turn on your **MEDION-Navigator**.

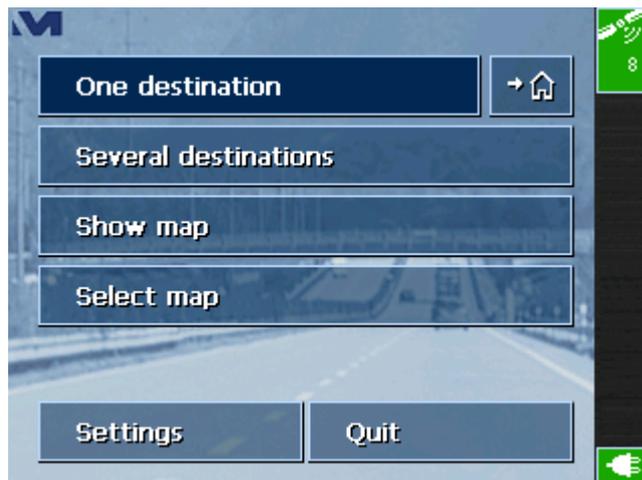
At each start of **MEDION-Navigator**, the following message appears:



2. Tap the **I accept** button. If you do not accept and if you tap the **I refuse** button, the device turns off.

The **MAIN SCREEN** appears.

### Main screen



All functions of the program are accessible via the **MAIN SCREEN**.



**Note:** When you turn **MEDION-Navigator** on, it shows the screen, which was displayed when **MEDION-Navigator** was turned off. Nevertheless, you may access the Main screen from all other screens by tapping



- One destination* Tap the **One destination** button to indicate a destination for navigation (one stage).
- 
-  For details, please refer to "Indicating destinations", page 32.
- Navigate homewards* Tap the **Home** button to navigate to your home address.
- 
-  For details, please refer to "Save and use your home address", page 45.
- Several destinations* Tap the **Several destinations** button for itinerary planning purposes.
- 
-  For details, please refer to "Navigating to several destinations (Itinerary planning)", page 61.
- Show map* Tap the **Show map** button to display the map currently in use.
- 
- Select map* Tap the **Select map** button to select another map from the memory card which is currently inserted.
- 
-  For details, please refer to "Working with the map", page 47.
- Settings* Tap the **Settings** button to modify the settings of **MEDION-Navigator**.
- 
-  For details, please refer to "Configuration of MEDION-Navigator", page 70.
- Quit* Tap the **Quit** button to quit **MEDION-Navigator**.
- 

### 3.1.1 Basic settings

#### Basic settings

Before working with **MEDION-Navigator**, we recommend

- ⇔ indicating the time zone of the region you are staying in currently so that the system can indicate correct times of arrival in navigation mode,
- ⇔ entering the home address. You may then navigate home from anywhere.

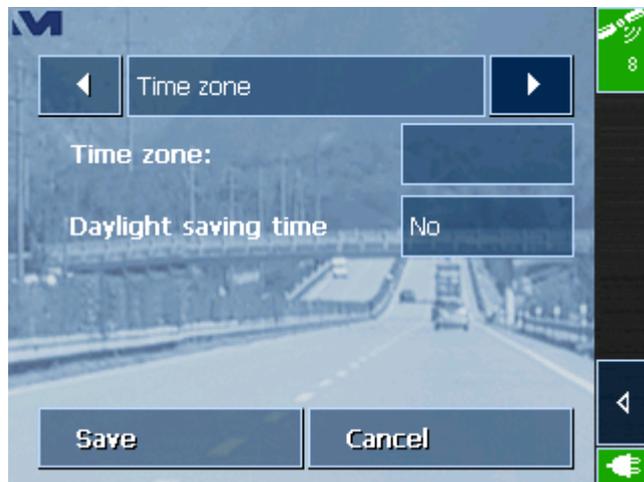
#### Indicate the time zone

1. On the **MAIN SCREEN**, tap **Settings**.



The **SETTINGS** screen opens.

2. Via the arrow buttons, select the **TIME ZONE** screen.



3. Tap into the **Time zone** entry field.



The **SELECT THE TIME ZONE** screen opens.



4. Select the time zone of the region you are currently staying in (GMT without daylight saving time). The indication of states lying in the respective time zones makes the selection easier.

5. Tap **Ok**.
6. If there is currently daylight saving time, tap the **Daylight saving time** entry field. The entry switches to **Yes**.



*Saving your home address*

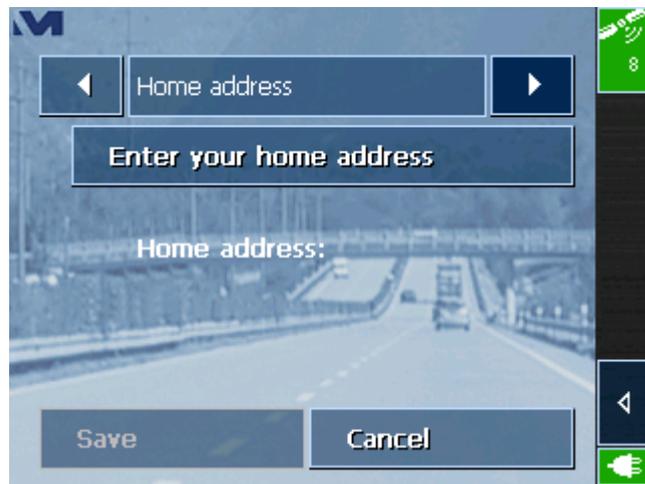
In **MEDION-Navigator**, you may save your home address to quickly start navigation homewards from anywhere.

1. On the **MAIN SCREEN**, tap **Settings**.



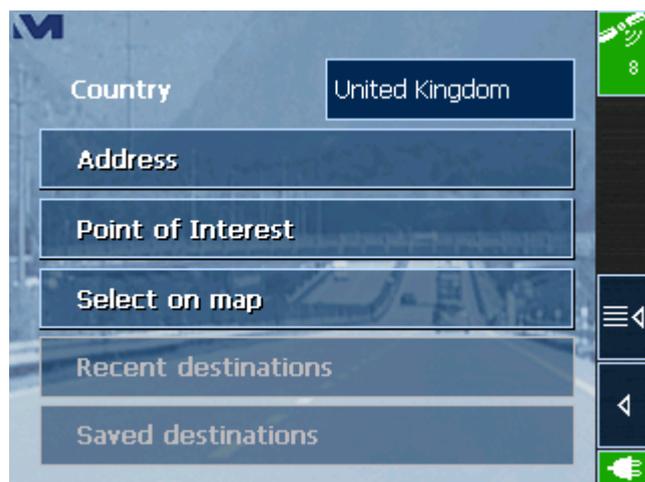
The **SETTINGS** screen opens.

2. Via the arrow buttons, select the **HOME ADDRESS** screen.



3. Tap **Enter your home address**.

The **DESTINATION** screen opens.



4. Tap the **Address** button and enter your home address as described in "Entering a destination manually", page 33.
5. Tap the **Set as home address** button.



The address is indicated on the **HOME ADDRESS** screen.



6. Tap **Save**.

## 3.2 User interface and basic functionality

### Operation

In order to offer a maximum of flexibility and convenience for the operation of **MEDION-Navigator** there are three ways to make entries:

- ⇔ tapping with the stylus,
- ⇔ tapping with your finger, or
- ⇔ via the hardware keys of your device.

### 3.2.1 Icons

#### Icons

The following buttons appear at the right of every **MEDION-Navigator** screen:



#### Return

Tap this icon to return to the previous screen. This icon is not available on the **MAIN SCREEN**.



#### Main screen

Tap this icon to open the main screen. This icon is not available on the **MAIN SCREEN**.



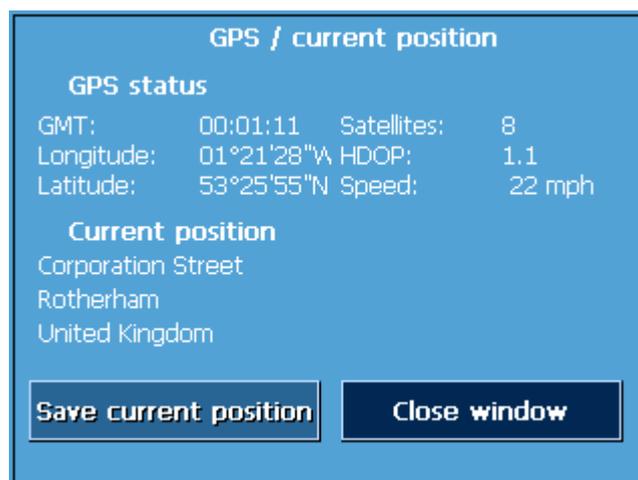
#### GPS

The colour of this icon and the number displayed on it have the following significance:



Colour/Number	Significance
red	A GPS receiver is not connected or the power supply is interrupted.
orange + number of received satellites	A GPS receiver is connected, but the received signals are not convenient for navigation purposes (e.g. because you are in a closed building).
green + number of received satellites	The signals are convenient. Navigation may begin.

Tap the **GPS** icon to display the current GPS status:



Entry	Significance
GMT	<b>Greenwich Mean Time</b> Time of London ignoring daylight saving time.
Longitude / Latitude	Current position: Indication of east longitude and north latitude.
Satellites	Number of received satellites. At least three satellites must be received for navigation purposes.
HDOP	<b>Horizontal Dilution of Precision:</b> Indicates the quality of position determination. Theoretically any value from 0 to 50 may occur. The smaller the value, the more accurate is the position determination (value 0 = no deviation from the real position). Values up to 8 are convenient for navigation purposes.
Speed	Indicates your current speed.
Position	Indicates the address of your current position.
Save	Tap this button to add the current address to the saved destinations list.
Quit	Tap this button to quit the <b>GPS</b> screen.

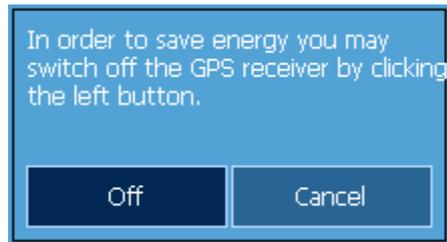


### Switching the GPS receiver on / off

The GPS receiver consumes energy. This is of significance when the system is operated in battery mode, e.g. when you are on your way on foot or by bike. Switch therefore the GPS receiver off when you do not need it for a certain time.

1. Tap the **Energy** icon  on the lower right corner of any screen.

The **ENERGY** screen opens:



2. Tap the **Off** button to switch the GPS receiver off.
3. When the GPS-symbol in the upper right corner becomes red, tap the **Cancel** button.




---

**Note:** Switching the GPS receiver on works the same way.

---

## 3.2.2 Hardware keys

---

### *Hardware keys*

On the upper right corner of your device, there are the following hardware keys which allow to accede quickly the most important functions:



#### **On / Off**

Turns the device on / off.



#### **Configuration**

Opens the **SETTINGS** screen.



#### **Back**

Opens the precedent screen.



#### **Destination**

Opens the **DESTINATION** screen.



#### **Zoom out**

Works only in map view mode.



#### **Zoom in**

Works only in map view mode.

### 3.3 Indicating destinations

#### *Basic principle of navigation*

The indication of destinations is the basis of navigation respectively of itinerary planning. In this chapter, you will learn about the possibilities to indicate and manage destinations in **MEDION-Navigator**.

For details on destination management, please refer to "Navigation and Itinerary planning", page 57.

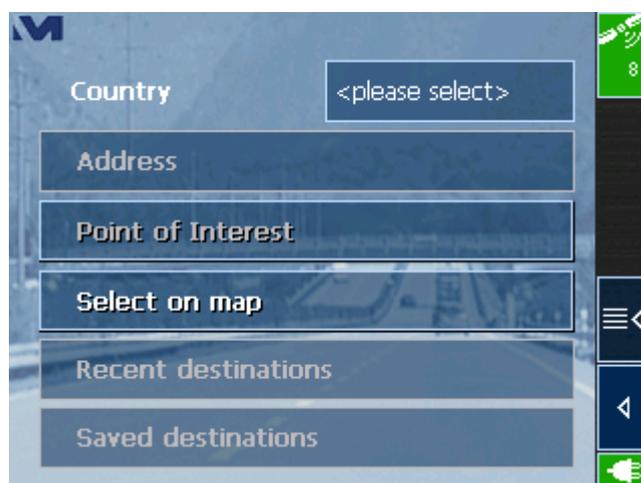
#### *Indicating a destination*

In **MEDION-Navigator** there are several possibilities to enter or to select destinations:

- ⇔ Via a manual address entry, see page 33.
- ⇔ Via the Points of Interest function, see page 35.
- ⇔ By indication on the map, see page 39.
- ⇔ By selection from the Saved destinations list, see page 41.
- ⇔ By selection from the Recent destinations list, see page 43.
- ⇔ Via the Home icon, see page 45.

#### *Destination screen*

If you want to plan an itinerary or to navigate to a certain destination, you have to indicate destinations. The **DESTINATION** screen is the starting point for the indication or selection of a destination:



### 3.3.1 Entering a destination manually

#### *Database of places*

The data of all places covered by the currently loaded map is stored in the database of places.

You need not enter the complete names of cities and streets as **MEDION-Navigator** lists automatically all names that match with your entry.

If you enter for example "SHE" into the **Town** entry field you will obtain a list of all towns beginning or having into their names "She" or "she".

You may then select the correct entry or enter more letters to shorten the results list.



#### *Entries*

You may carry out all entries with your finger on the mobile phone software keyboard.

You need not enter special characters when entering a destination's city or street name. **MEDION-Navigator** replaces these characters automatically. When you are looking for, e.g., a French town called "Héroïnès", simply type "HEROINES".

#### *Switching between character and number entry*

Tap the

123

icon to enter numbers, e.g. for a postcode.

Tap the

abc

icon to return to the character entry mode.

#### *Entering a space, deleting a character...*

Tap the key



to insert a space character.

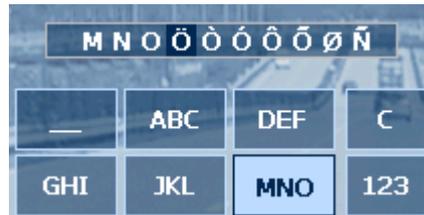
Tap the key



to delete the character to the left of the insertion mark.

*Special characters*

When you tap a key, a line above the software keyboard appears which lists all characters that may be entered by this key. The active character is highlighted.



If, e.g., you want to type "ö", tap the "MNO" key repeatedly until "Ö" is highlighted in the line above the software keyboard.

*Indicating a destination...*

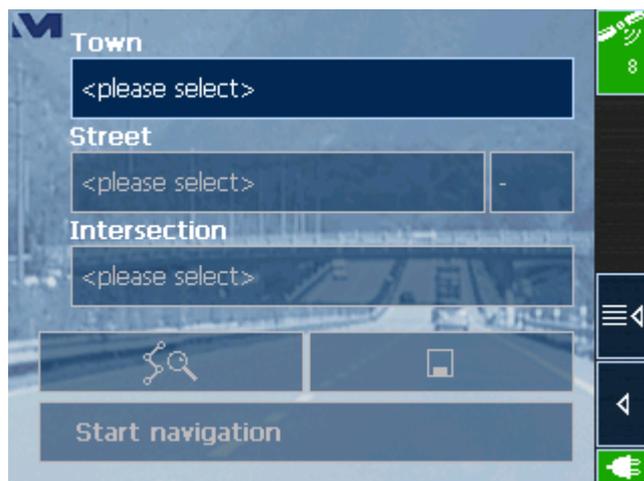
1. On the main screen tap **One destination**.



The **DESTINATION** screen opens.

2. Tap the **Country** entry field and select the destination country.
3. Tap the **Address** entry field.

The **ADDRESS** screen opens:



4. Enter the name or the postal code of the destination town into the **Town** entry field.
5. Enter the destination street into the **Street** entry field.
6. Enter a house number into the **No.** field at the right hand side if possible.



**Note:** If the house numbers of the respective street are stored in the database of places, you may tap the field besides the **Street** field.

If no house numbers are stored, the respective field is deactivated. The software navigates to the respective street.

7. Tap the **Intersection** entry field and select a crossroad if you want to define an intersection as destination point (e.g. because the house number is not available).
8. Tap the **Save** button if you want to navigate more often to the entered destination. You may then quickly select it from the **Saved destinations** list.

### 3.3.2 Selecting a Point of Interest

#### *Points of Interest*

Points of Interest are stored in the database of places and may be displayed on the map. Ports, airports, restaurants, hotels, petrol stations, public buildings, and others belong to the Points of Interest.

Indicate a Points of Interest by selecting one

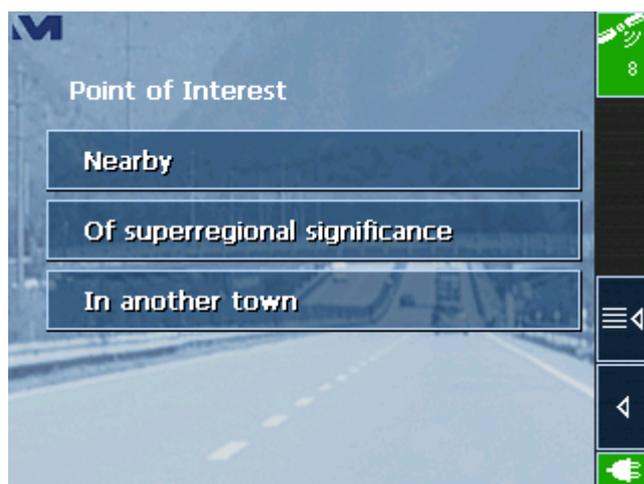
- ⇔ on the map, see "Indicating destinations on the map", page 39,
- ⇔ nearby,
- ⇔ of superregional interest, or
- ⇔ in another town.

#### *Selecting a Point of Interest...*

1. On the **DESTINATION** screen, tap the **Point of Interest** button.



The **POINT OF INTEREST** screen opens:



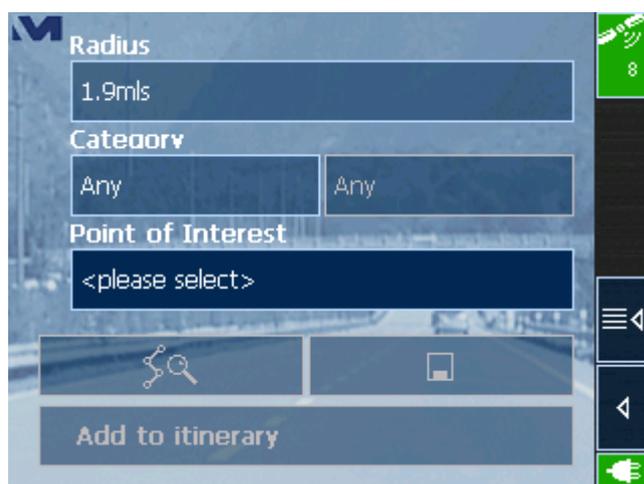
## Points of Interest nearby



**Note:** You may only display Points of Interest nearby when the GPS receiver is turned on and when the GPS signal strength is sufficient.

*Selecting a Point of Interest nearby...*

1. On the **POINT OF INTEREST** screen, tap the **Nearby** button.  
The **POINT OF INTEREST NEARBY** screen opens:



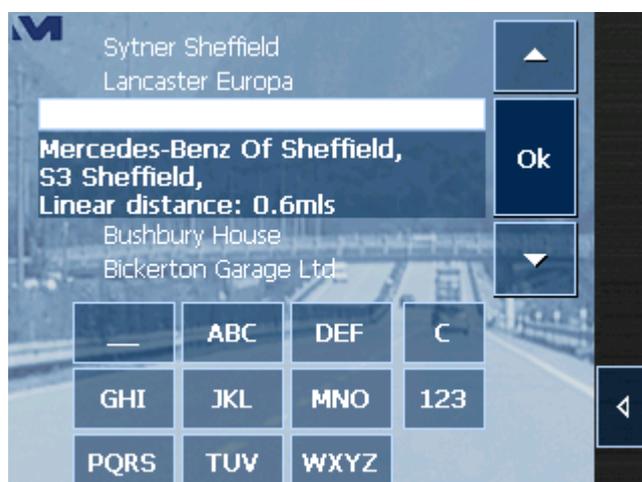
2. Enter the radius around your current position within which you want to search for Points of Interest into the **Radius** entry field.
3. Select the main category of Points of Interest to search for from the left one of the two **Category** list fields, e.g. "Garage". Only Points of Interest situated within the indicated radius will be displayed.
4. Select the sub-category of Points of Interest to search for into the right one of the two **Category** list fields, e.g. "General Motors", "Audi VW Seat Skoda".



**Note:** If you leave the **Sub-category** field empty, all Points of Interest matching with the selected main category will be listed in the **Point of Interest** list field.

5. Select the correct destination from the **Point of Interest** list field.

All Points of Interest matching your entries are listed, including their linear distance from your current position:



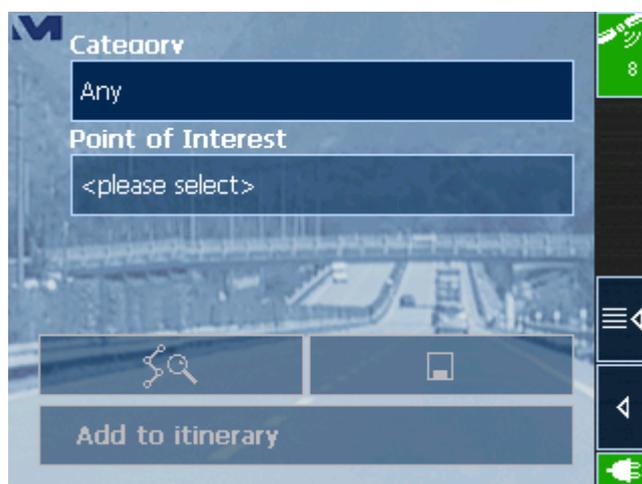
6. Tap the **Save** button if you want to navigate more often to the entered destination. You may then quickly select it from the **Saved destinations** list.

### Points of Interest of superregional significance

*Selecting a Point of Interest of superregional significance...*

1. On the **POINT OF INTEREST** screen, tap the **Of superregional significance** button.

The **POINT OF INTEREST OF SUPERREGIONAL SIGNIFICANCE** screen opens:



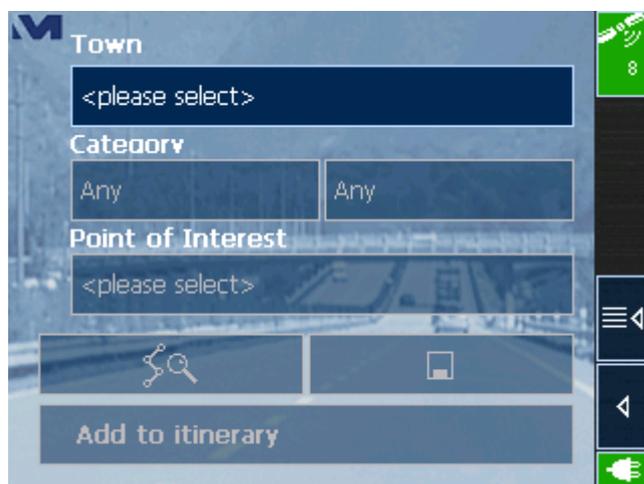
2. Select the main category of Points of Interest to search for from the **Category** list field, e.g. "Airports".
3. Select the correct destination from the **Point of Interest** list field.
4. Tap the **Save** button if you want to navigate more often to the entered destination. You may then quickly select it from the **Saved destinations** list.

## Points of Interest in another town

*Selecting a Point of Interest in another town...*

1. On the **POINT OF INTEREST** screen, tap the **In another town** button.

The **POINT OF INTEREST IN ANOTHER TOWN** screen opens:



2. Enter the name of the town in which you want to search for Points of Interest into the **Town** field.
3. Select the main category of Points of Interest to search for from the left one of the two **Category** list fields, e.g. "Culture". Only Points of Interest matching your town and category entries are listed.
4. Select the sub-category of Points of Interest to search for into the right one of the two **Category** list fields, e.g. "Opera", "Theatre", ...
5. Select the correct destination from the **Point of Interest** list field.



**Note:** If you leave the **Sub-category** field empty, all Points of Interest matching with the selected main category will be listed in the **Point of Interest** list field.  
If you leave both the **Category** and the **Sub-category** fields empty, all Points of Interest situated in the selected city will be listed in the **Point of Interest** list field.

6. Tap the **Save** button if you want to navigate more often to the entered destination. You may then quickly select it from the **Saved destinations** list.

### 3.3.3 Indicating destinations on the map

You may indicate a destination directly on the map. In addition to cities and streets, you may also select Points of Interest quickly.

*Indicating a destination on the map...*

1. On the main screen tap **One destination**.

The **DESTINATION** screen opens.



2. Tap the **Select on map** button.

The **MAP** screen opens:



3. Tap on the place you want to determine as destination and hold.

A circle of light blue points appears round the selected place:

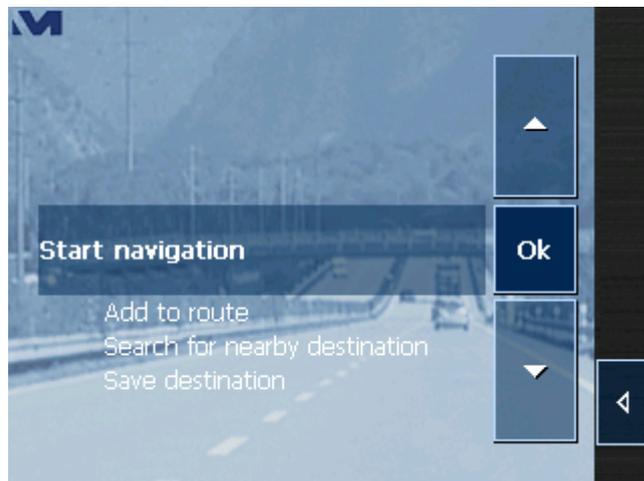


Database information on the respective place will be loaded and displayed:



4. Tap the **Task** field.

The **TASK** screen opens where you may indicate how to proceed:



5. Select **Start navigation** from the list to navigate to the respective place.  
Select the **Save destination** button if you want to navigate more often to the entered destination. You may then quickly select it from the **Saved destinations** list.

The **TASK** screen closes and the task is indicated on a new screen.



6. Tap the **Execute** button.

### 3.3.4 Saved destinations

#### *Saved destinations*

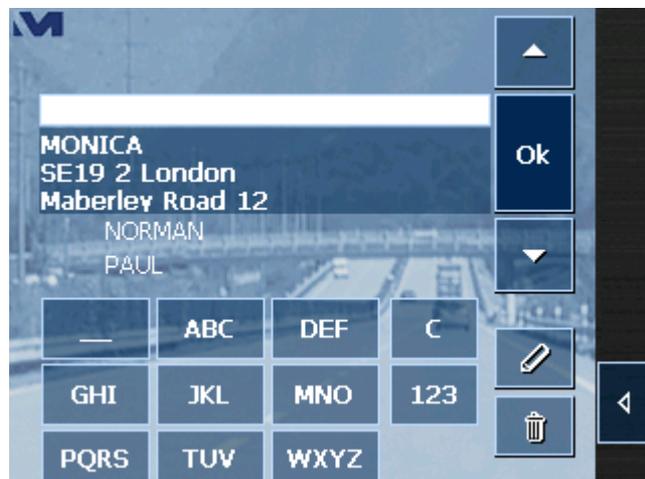
All destinations you have saved by tapping the **Save** button are listed on the **SAVED DESTINATIONS** screen. On this screen you may:

- ⇔ select destinations for navigation purposes,
- ⇔ rename destinations, and
- ⇔ delete destinations from the list.

1. On the **DESTINATION** screen tap **Saved destinations**.



The **SAVED DESTINATIONS** screen opens.



#### *Take over*

2. Tap the entry of the respective destination.



**Note:** The list may be scrolled via the "up" and "down" icons. You may as well enter the first letter of the respective destination. The list will then automatically scroll to the first destination matching your entry.

3. Tap **OK**.

The destination will be taken over. The address is entered into the respective fields.

*Renaming a destination*

1. On the **DESTINATION** screen tap **Saved destinations**.
2. Tap the entry of the destination to be renamed.
3. Tap the **Rename** icon.

The **NAME OF DESTINATION** dialog box opens.

4. Enter the new name.
  5. Tap **OK**.
- The destination is now renamed.

*Deleting a destination*

1. On the **DESTINATION** screen tap **Saved destinations**.
2. Tap the entry of the destination to be deleted.
3. Tap the **Delete** icon.

The destination is now deleted.

### 3.3.5 Recent destinations

#### Recent destinations

All destinations you have navigated to recently are listed on the **RECENT DESTINATIONS** screen. On this screen you may:

- ⇔ select destinations for navigation purposes,
- ⇔ add destinations to the **SAVED DESTINATIONS** list, and
- ⇔ delete destinations from the list.

#### Taking over

1. On the **DESTINATION** screen tap the **Recent destinations** button.



The **RECENT DESTINATIONS** screen opens.



2. Tap the entry of the desired destination.



**Note:** The list may be scrolled via the "up" and "down" icons. You may as well enter the first letter of the town of the desired destination. The list will then automatically scroll to the first destination matching your entry.

3. Tap **OK**.

The destination will be taken over. The address is entered into the respective fields.

*Saving a destination*

1. On the **DESTINATION** screen tap the **Recent destinations** button.
2. Tap the entry of the destination you want to save.
3. Tap the **Save** icon.

The **NAME OF DESTINATION** dialog box opens.

4. Enter a name for the destination.
5. Tap **OK**.

The destination is now saved and will appear on the **SAVED DESTINATIONS** list.

*Deleting a destination*

1. On the **DESTINATION** screen tap the **Recent destinations** button.
2. Tap the entry of the destination to be deleted.
3. Tap the **Delete** icon.

The destination is now deleted.

### 3.3.6 Save and use your home address

#### Survey

You may store your home address in **MEDION-Navigator** in order to quickly start navigation home at any place.

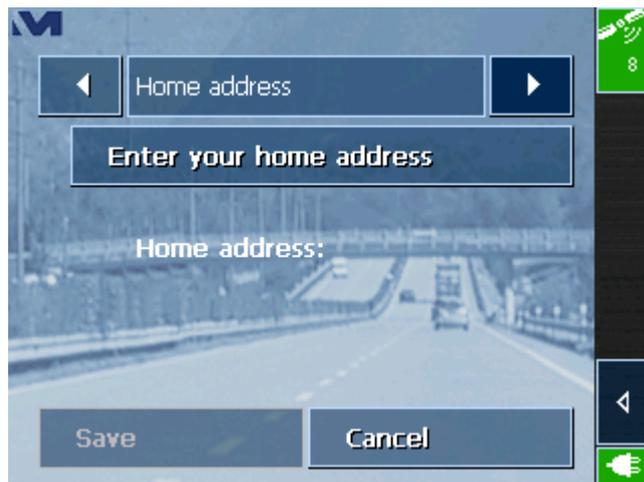
#### Saving your home address...

1. On the Main screen, tap the **Settings** button



The **SETTINGS** screen opens.

2. Via the "Left" and "Right" icons, select **Home address**.



3. Tap the **Enter your home address** button.



The **DESTINATION** screen opens.

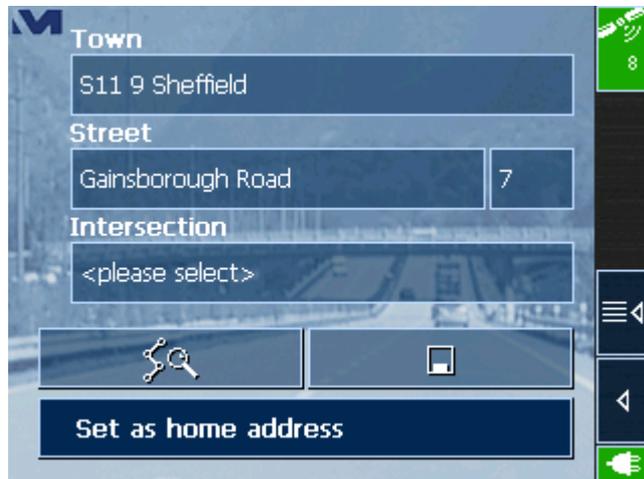


4. Tap the **Address** button



and enter your address as described in "Entering a destination manually", page 33.

5. Tap the **Set as home address** button.



The address is taken over to the **HOME ADDRESS** screen.



6. Tap the **Save** button.

*Using your home address for navigation...*

1. On the main screen, tap



The fastest route is now being calculated and navigation starts. The **Fast route** option is always being applied when you start navigation to your home via the **Home** button.

## 3.4 Working with the map

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### *Survey*

There are various pieces of information available on the **MAP** screen. Learn in this chapter about the possibilities for working with the map, which depend on whether you are in navigation mode, or not.

### *Displaying the map*

On the main screen, tap the **Show map** button to open the **MAP** screen.

### *Provided maps*

There are additional maps included in the delivery on the **MEDION-Navigator**-CDs. In case you want to use one of these maps, copy it via a card reader to a memory card. Follow then the instructions given below in "Selecting a map".

### *Selecting a map*

To load another map which is available on the currently inserted memory card, proceed as follows:

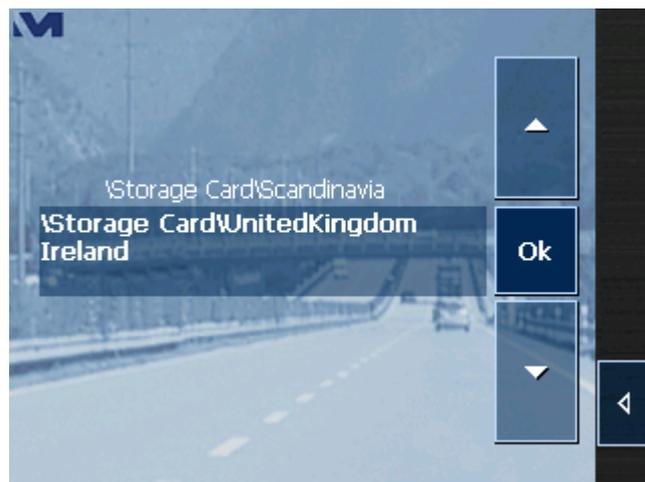
1. If the desired map is on another memory card than the currently inserted one, open the **MAIN SCREEN** and tap the **Quit** button.

The initial MEDION screen appears.

- 1a Remove the memory card, which is currently inserted.
- 1b Insert the memory card, which contains the map you want to work with.
- 1c On the initial MEDION screen, tap the **Navigation** icon to start **MEDION-Navigator**.

2. On the main screen, tap the **Select map** button.

The **AVAILABLE MAPS** screen opens:



3. Tap the entry of the map you want to work with.
4. Tap **OK**.

The selected map is now loaded. The main screen opens.

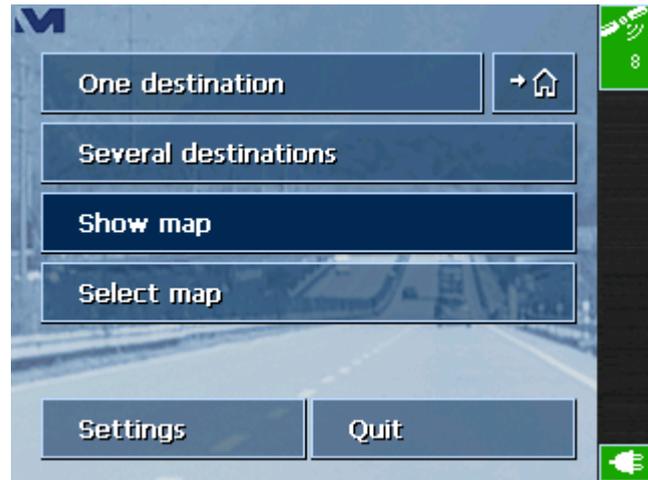
### 3.4.1 Operating the map

#### *Displaying the map*

You may display the map

- ⇔ while planning an itinerary,
- ⇔ in order to show destinations on the map, or
- ⇔ in order to select destinations on the map.

You may display the map via the **Show map** button on the main screen



On the **DESTINATION** screen you may tap the **SELECT ON MAP** button to display the map.

The map is being displayed automatically when you are navigating.



#### *Tapping the map*

The icons appear when you tap the map.

If you tap a place on the map and hold information on this place will be displayed and you may, e.g., take over the data for navigation purposes. For details, please refer to "Indicating destinations on the map", page 39.

## Icons

The following icons are displayed on the map:

### *Zoom / Scroll*

Tap the **Zoom/Scroll** icon



to switch between Zoom and Scroll mode.



Zoom

In Zoom mode (the icon appears white) you may scale the map up or down. Zoom in by drawing a rectangle on the map, beginning with the upper left corner. Zoom out by beginning with the lower right corner.



Scrolling

In Scroll mode (the icon appears red) you may scroll the map. Tap on the screen and drag to the desired direction.



Itinerary planning

This icon is active when a calculated itinerary is loaded. Tap the **Itinerary** icon to display the whole itinerary. Tapping this icon again will display the precedent representation of the map.

### *Map in driving direction/north oriented*

Tap the **In driving direction/North oriented** icon



to switch between the two available modes of map orientation. (north orientation / orientation in driving direction).



North orientation

Tap this icon to orientate the map north up. (the icon appears light blue).



Tap this icon to orientate the map in driving direction. (the icon appears white).



Centre (GPS reception necessary)

Tap the **Centre** icon to centre your current position on the map.



3D view (GPS reception necessary)

Tap the **3D** icon to display the map in 3D mode (bee flight view). The icon becomes the 2D icon. Tap the **2D** icon to return to the 2D mode (standard). The icon becomes the 3D icon.



Zoom in

Tap **Zoom in** to scale the map down.



Zoom bar

Tap one of the zoom bar sections to modify the scale of the map.



Zoom out

Tap **Zoom out** to scale the map up.



Auto mode (GPS reception necessary)

Tap the **Auto** icon to display the standard representation of the map after you have modified the view. The settings of north orientation and autozoom mode will be applied. Your current position will be centred. The icons will not be displayed.



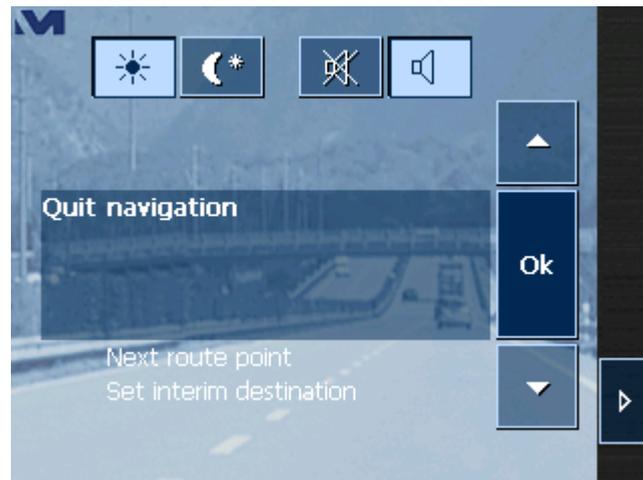
For details please refer to "Auto mode", page 72.



Additional functions

Tap the **Additional functions** icon to display the **ADDITIONAL FUNCTIONS** screen. The availability of some functions depends on whether you are being in navigation mode or not.

The **ADDITIONAL FUNCTIONS** screen opens:



Tap the **Day** icon to switch to the map display "day".



Tap the **Night** icon to switch to the map display "night".



Tap these icons to start / stop guidance by speech.

### Show route list

This feature is only available in navigation mode or when a calculated itinerary is loaded. Tap **Show route list** to display a list of all important waypoints of the route.



For details, please refer to "Displaying the route list", page 65.

### Change preferences

Tap **Change preferences** to display the **SETTINGS** screen. For details, please refer to "Configuration of MEDION-Navigator", page 70.

### Quit navigation

This function is only available in navigation mode. Tap **Quit navigation** to exit navigation mode.

### Block, Unblock, New block

These functions are only available in navigation mode.



For details, please refer to "Blocking a route section", page 67.

### Set interim destination

This function is only available in navigation mode. Tap **Set interim destination** to add a new route point to your itinerary. The route will be recalculated and the newly added route point will be the first destination to navigate to. Navigation to the other route points will be executed later.



For details, please refer to "Adding a stage point during navigation", page 66.

### Change route options

This function is only available in navigation mode. Tap **Change route options** to modify them.



For details, please refer to "Navigating to a destination", page 59.

### 3.4.2 Representation of the map in navigation mode

In navigation mode, there is some assistance for navigation, some information on the itinerary and one more command button being displayed:

*Assistance for navigation*

The following assistance for navigation is being displayed at the left and at the bottom of the map:

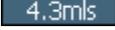


Field	Information
①	If there is two manoeuvres to be executed quickly one after the other, the small upper arrow field indicates the next manoeuvre but one to be executed.
②	The red arrow indicates your current position on the map. Since the displayed sector of the map changes continually your current position is centred on the map whenever possible (Moving Map).
③	The bigger arrow field indicates the next manoeuvre to be executed.
④	The distance field indicates the distance to the next manoeuvre. When you approach, the representations changes into a distance bar: <div style="text-align: center;"> </div> The more yellow bars are displayed the nearer you are to the place where the next manoeuvre must be executed.
⑤	The upper street field indicates the name of the next street to turn in.
⑥	The lower street field indicates the name of the street you are currently in.

*Information on the itinerary*

At the right of the map, the following information on the itinerary is being displayed:



Field	Information
	This symbol means "stage". All information displayed below refers to the next stage point.
	ETA (Estimated time of arrival).
	Remaining time to arrival (estimated).
	Remaining distance to arrival (estimated).



Tap this icon to repeat the last spoken instruction. All available information will be displayed.

The additional information will disappear after some seconds.

### 3.4.3 Displaying additional information on the map

In **MEDION-Navigator** you may determine which information is to be displayed on the map. Modifying any configuration begins on the **SETTINGS** screen.

*Configuring the display of additional information...*

1. On the main screen, tap **Settings** or tap the



icon on the map and select **Change preferences**.

The **SETTINGS** screen opens.

2. Select **Map information** using the arrow buttons:



*Info bar*

3. The **Info bar** at the bottom of the map displays the scale of the map, the compass, and the current speed. Tap the respective command button to display (On) or not (Off) the **Info bar**.

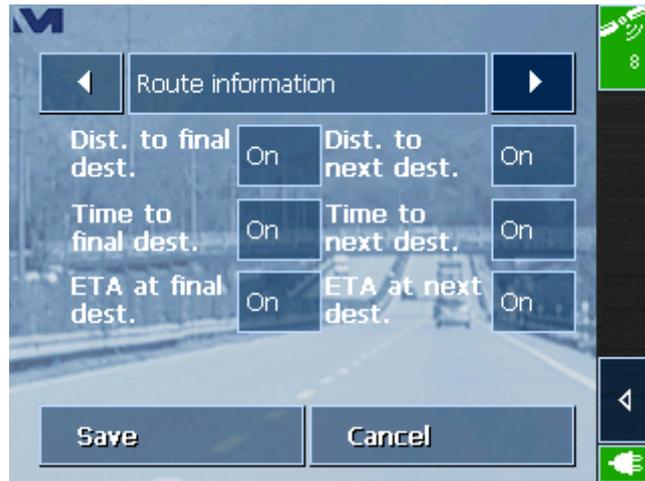


*Points of Interest*

4. Tap the respective command button to display (On) or not (Off) **Points of Interest** on the map.

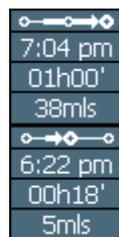
*Street names*

5. Tap the respective command button to display (On) or not (Off) **Street names** on the map.
6. Via the arrow buttons select **Route information**:



7. Tap the command buttons to display (On) or not (Off) the respective information on the map.

The desired information on the entire itinerary (upper section) and on the current stage (lower section) will be displayed at the right hand side of the map.



Section	Information
	This symbol means "itinerary". All information displayed below refers to the complete route.
	This symbol means "stage". All information displayed below refers to the next stage point. The "stage" section is not displayed when only one single destination has been indicated.
Line 2	ETA (Estimated time of arrival).
Line 3	Remaining time to arrival (estimated).
Line 4	Remaining distance to arrival (estimated).

8. Tap **Save** to save the modifications.

The modifications will be taken over and displayed on the map.



# 4 Navigation and Itinerary planning

## Topics covered in this chapter:

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4.1	General notes on navigation	page 58
4.2	Navigating to a destination	page 59
4.3	Navigating to several destinations (Itinerary planning) Working on itineraries, storage and management	page 61
4.4	Functions which are useful for navigation Displaying the route list Adding a stage point during navigation Blocking a route section	page 65

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## 4.1 General notes on navigation

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Use of **MEDION-Navigator** is executed at your own risk.



**Caution:** To protect yourself and others from accidents, do not program the navigation system while driving. Enter or select your destination and activate the navigation system before you begin to drive!



**Caution:** Do not look at the display unless it is absolutely safe to do so! Safe driving is the first priority!



**Caution:** The rules of the road and traffic signs must be obeyed prior to following instructions from the navigation system.



**Caution:** Do not follow the instructions of **MEDION-Navigator** unless circumstances and the road traffic regulations allow doing so. **MEDION-Navigator** will guide you to your destination even when you have gone off course from your route.

### *Obstructed GPS reception*

When you turn off the GPS receiver or when the reception of GPS signals is obstructed **MEDION-Navigator** does not close but navigation is interrupted.

As soon as the GPS receiver works again the navigation system notices a possible change of your current position and recalculates the route. You may simply continue navigation.

### *Quitting navigation mode*

When you quit navigation mode by command the main screen appears. You may then indicate another destination or reassume the by selecting the former destination from the **Recent destinations** list.

### *Arriving at your destination*

When you have reached your destination the system pronounces the message "You have reached your destination!"

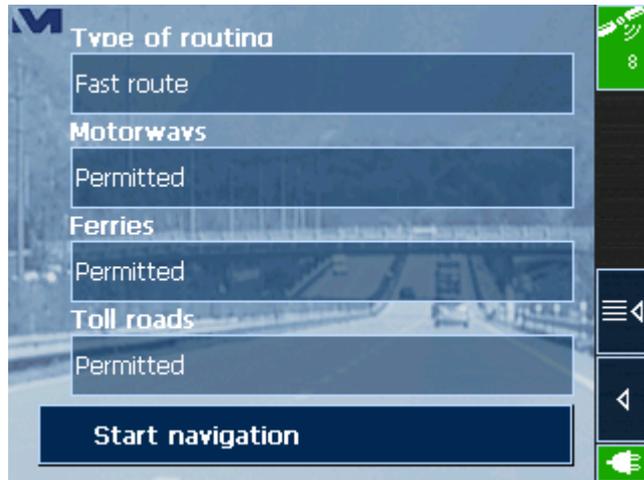
The map is no more presented in navigation mode. A small red arrow indicates your current position.

## 4.2 Navigating to a destination

*Navigating to a destination...*

1. Enter your destination as described in "Indicating destinations", page 32.
2. Tap the **Start navigation** button.

The **ROUTE OPTIONS** screen opens:



3. Tap the **TYPE OF ROUTING** field and select one of the following options:

Option	Signification
Fast route	The quickest route will be calculated.
Short route	The shortest route will be calculated.
Pedestrian route	A route for pedestrians will be calculated. One-way directives and prohibitions of vehicular traffic will be disregarded.
Bike route	A route for bikes will be calculated. All traffic rules concerning cars will be regarded, but some kinds of roads as e.g. motorways will be excluded from the itinerary.

4. Tap the **Motorways**, **Ferries**, and **Toll roads** fields successively and select one of the following options:

Option	Signification
Permitted	The respective kind of street will be regarded for route calculation.
Avoid	The respective kind of street will be avoided if reasonable.
Forbidden	The respective kind of street will be disregarded for route calculation.



**Note:** The Route options settings will be saved. You will no more need to enter them except if you want to navigate using modified options.

5. Tap **Start navigation**.

The route is now being calculated. The map is being displayed in navigation mode.

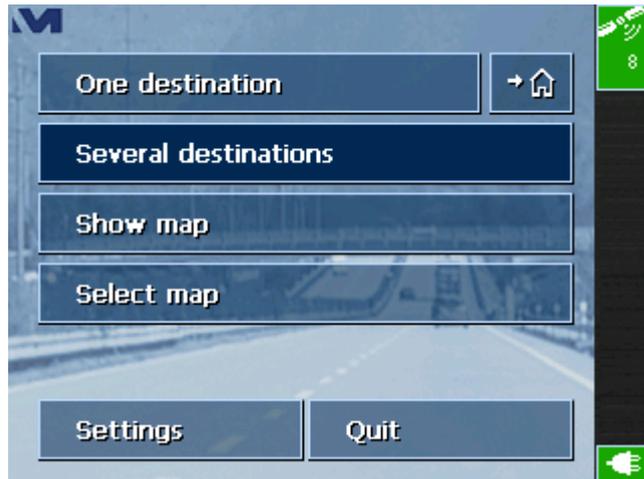
## 4.3 Navigating to several destinations (Itinerary planning)

### *Itinerary planning*

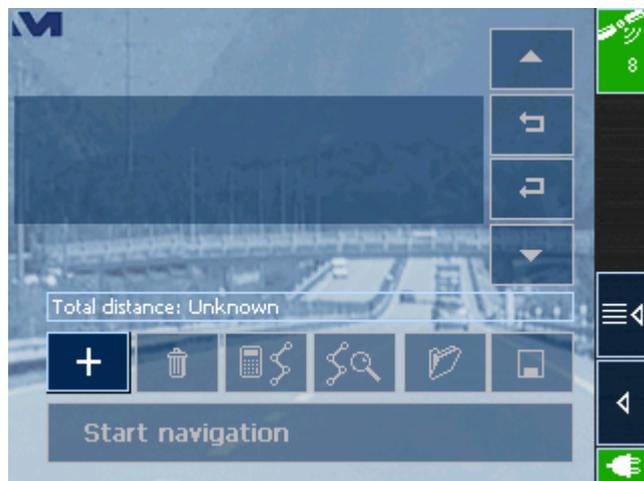
You may plan itineraries without receiving GPS signals, e.g. comfortably at home. Planned itineraries may be stored. Thus you may plan as many itineraries as you want, e.g. for holidays.

### *Navigating to several destinations...*

1. On the main screen, tap **Several destinations**.



The **ITINERARY** screen opens:



2. Tap the **Add destination** icon to indicate the first stage point.

The **DESTINATION** screen opens.

3. Indicate the destination as described in "Indicating destinations", page 32.

4. Tap the **Add to itinerary** icon.

The **ITINERARY** screen opens. The destination is added as stage point 1.

5. Repeat steps 2-4 for every stage point you want to add to the itinerary.



6. Tap the entry of the stage point you want to navigate to first.



**Note:** You have to select the stage point you want to navigate to first. You may then continue navigation when it was interrupted. You may as well navigate to only some of the stage points of a stored itinerary.

7. Tap **Start navigation**.

The route is now being calculated. The map is being displayed in navigation mode.

*Continuing navigation after the arrival at a stage point...*

If you have planned an itinerary with several stages, navigation to the next stage point starts automatically when you have reached a stage point. For details, please refer to "Itinerary", page 73.

### 4.3.1 Working on itineraries, storage and management

#### Survey

You may plan as much itineraries as you want, e.g. for holidays. You may save them and use them later for navigation purposes. At any moment, you may add stage points, modify the order of the stages, or display the itinerary on the map.

The following commands are available:

#### One place up



Tap the **One place up** icon to navigate to the respective stage point earlier (example: stage 3 becomes stage 2).

#### One place down



Tap the **One place down** icon to navigate to the respective stage point later (example: stage 2 becomes stage 3).

#### Add stage



Tap the **Add destination** icon to add a stage point. The new stage point will be added at the end of the list. You may shift it forward using the **One place up** icon.

#### Delete stage



Tap the **Delete destination** icon to delete the respective stage point.

#### Calculate the route



Tap the **Calculate the route** icon to calculate the distance and the estimated duration of the entire itinerary. The information will be displayed after you have entered (or confirmed) the route options.

Total distance: 36mils Time: 00 h 56 min

Furthermore, the distance and the estimated duration of each stage will be indicated with the stage entries.



#### Load an itinerary



Tap the **Load itinerary** icon to load a saved itinerary, e.g. to modify it or for navigation purposes. If you had already entered stage points, the stage points of the loaded itinerary will be inserted after the stage point, which is currently selected.

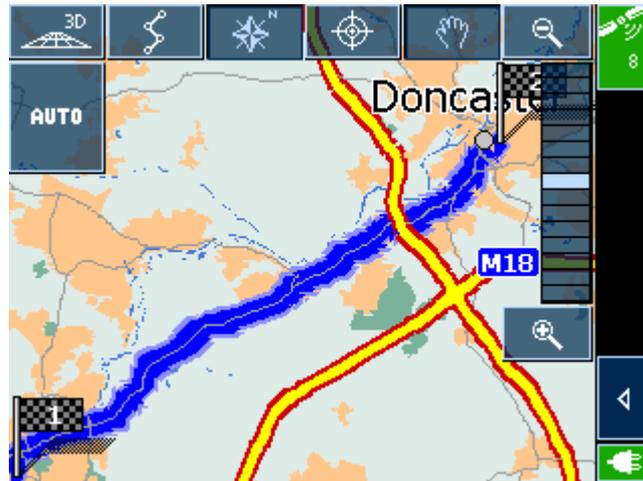
#### Save the itinerary



Tap the **Save itinerary** icon to save the itinerary. Enter an name for the itinerary into the **SAVE AS...** dialog box.



Tap the **Show on map** icon to display the entire itinerary on the map. The route will be highlighted in blue:



### 4.3.2 Simulating the route

#### Simulation

You may execute a simulated navigation along the itinerary when the route has been calculated.



**Note:** The reception of GPS-signals is not necessary for the simulation.

#### Simulating the route...

1. Tap the **Show on map** icon.

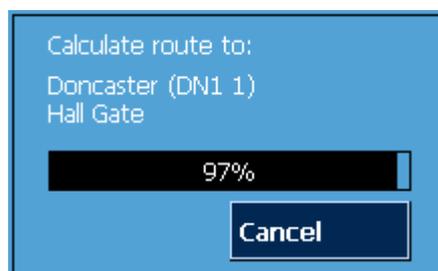


The itinerary is displayed on the map.

2. Tap the **Additional functions** icon.
3. Tap **Start simulation**.



The route will be recalculated for simulation purposes



and simulation starts when calculation is ready.

#### Stop simulation

1. To quit simulation, tap the **Additional functions** icon.
2. Tap **Quit navigation**.

## 4.4 Functions which are useful for navigation

### Survey

In **MEDION-Navigator** the following functions are available in navigation mode:

- ⇔ Displaying the route list, see below.
- ⇔ Adding a stage point during navigation, see page 65.
- ⇔ Blocking route sections, see page 66.

### 4.4.1 Displaying the route list

#### Route sections

During navigation (or just after the calculation of the route) you may display the route list, which informs about the distance and duration from one way point to the next.

#### Displaying the route list...

**Precondition:** The map is being displayed.

1. Tap the **Additional functions** icon



2. Tap **Show route list**.

The **ROUTE LIST** screen opens.



The route list informs about the distance to the next turn, the type of the next manoeuvre, the name of the street in which you are just before carrying out the described manoeuvre and the name of the street into which you should turn next.

## 4.4.2 Adding a stage point during navigation

---

*Adding a stage point during navigation...*

At any moment during navigation you may add a new stage point to your itinerary. The route will be recalculated in order to make the new stage point the next destination to navigate to. The other remaining stage points will be navigated to after the new one.

*Adding a stage point...*



**Precondition:** The map is being displayed in navigation mode.

1. Tap the **Additional functions** icon.
2. Tap **Set interim destination**.

The **DESTINATION** screen opens.

3. Indicate the new stage point as described in "Indicating destinations", page 32.
4. Tap the **Set as route point** button.

The route will be recalculated in order to make the new stage point the next destination to navigate to.




---

**Note:** You may as well select the new stage point directly on the map, just as described in "Indicating destinations on the map", page 39. Tap the respective place and hold. From the context menu, select **Add as route point**.

---

### 4.4.3 Blocking a route section

#### *Blocking a route section manually*

You may block a route section manually in order to evade it. Manual blocking forces a recalculation of the route.

Presume that you are driving on a motorway and a radio message announces a traffic jam of 4 miles near your current position. With the "Block route sections" function you may instruct the navigation system to evade the announced traffic jam.

A manual blocking is only valid for the current navigation process. The respective route section will be unblocked for the next navigation or when you restart the software.

#### *Blocking a route section...*



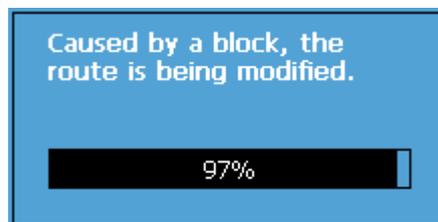
**Precondition:** The navigation system is in navigation mode and the map is being displayed.

1. Tap the **Additional functions** icon.
2. Tap **Block road**.

The **BLOCKING** screen opens.

3. Enter how many miles (from your current position on) you want to block.
4. Tap **OK**.

This forces a recalculation of the route. The indicated route section will be evaded. On the map, it will be highlighted on red.



#### *Unblocking a route section*

1. Tap the **Additional functions** icon.



2. Tap **Unblock**.

The route section is now unblocked. The navigation system uses the route, which had been calculated originally.



# 5 Appendix

## Topics covered in this chapter:

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5.1	Configuration of MEDION-Navigator	page 70
	Map information	
	Route information	
	Volume	
	Representation	
	Touch screen calibration	
	Auto mode	
	Speed profile	
	Itinerary	
	Time zone	
	Format	
	Home address	
	Radio-Mute	

---

## 5.1 Configuration of MEDION-Navigator

### Configuration

In **MEDION-Navigator**, you may modify the following settings:

- ⇔ Map information, see below.
- ⇔ Route information, see page 71.
- ⇔ Volume, see page 71.
- ⇔ Representation, see page 72, see page 73.
- ⇔ Touch screen calibration, see page 72
- ⇔ Auto mode, see page 72.
- ⇔ Speed profile, see page 73.
- ⇔ Itinerary, see page 73.
- ⇔ Time zone, see page 73.
- ⇔ Itinerary, see page 73.
- ⇔ Format, see page 73.
- ⇔ Home address, see page 74.
- ⇔ Radio-Mute, see page 74

On the main screen, tap the **Settings** button to configure **MEDION-Navigator**.

On the **SETTINGS** screen, tap the **Save** button to apply your modifications if you have made some.

### 5.1.1 Map information

#### Info on the map

On the **MAP INFORMATION** screen, you may effect the following modifications:

Element	Signification
Info bar	<p>The <b>Info bar</b> at the bottom of the map displays the scale of the map, the compass, and the current speed.</p> <p>Tap the respective command button to display (On) or not (Off) the <b>Info bar</b>.</p> 
Points of Interest	<p>Tap the respective command button to display (On) or not (Off) <b>Points of Interest</b> on the map.</p>
Street names	<p>Tap the respective command button to display (On) or not (Off) <b>Street names</b> on the map.</p>

## 5.1.2 Route information

*Route information* On the **ROUTE INFORMATION** screen, you may effect the following modifications:

Element	Signification
Dist. to final dest.	Remaining distance to the final destination (estimated)
Time to final dest.	Remaining time to the final destination (estimated).
ETA at final dest.	ETA (Estimated time of arrival) at the final destination. Tap the respective command buttons to display (On) or not (Off) the respective information on the map. All information displayed below refers to the final destination. This section is only available if you have indicated more than one destination to navigate to. 
Dist. to next dest.	Remaining distance to the next stage point (estimated).
Time to next dest.	Remaining time to the next stage point (estimated).
ETA at next dest.	ETA (Estimated time of arrival) at the next stage point. Tap the respective command buttons to display (On) or not (Off) the respective information on the map. All information displayed below refers to the next stage point. 

## 5.1.3 Volume

*Volume* On the **VOLUME** screen, modify the volume of the spoken indications of the navigation system.

Tap the **Volume** field and select another value.

## 5.1.4 Representation

---

### *Representation*

On the **REPRESENTATION** screen, you may effect the following modifications:

Element	Signification
Skin	Skins are made to personalize the user interface of <b>MEDION-Navigator</b> . Tap the <b>Skin</b> field. Select one of the available skins and tap <b>OK</b> .
Brightness battery	Tap this entry field and select a brightness degree (1 to 8) when the device is powered by its internal battery.
Brightness AC	Tap this entry field and select a brightness degree (1 to 8) when the device is connected to an external power supply.

## 5.1.5 Touch screen calibration

---

### *Touchscreen calibration*

If you think that the touch screen does not perceive contact positions correctly, **MEDION-Navigator** may calibrate it.

Tap the **Start calibration** button and follow the instructions on the display.

## 5.1.6 Auto mode

---

### *Auto mode*

On the **AUTO MODE** screen, you may effect the following modifications:

Element	Signification
Autozoom	Autozoom increases or reduces the scale of the map, depending on your current speed. Tap the <b>Autozoom</b> field. Select <b>No autozoom</b> if you do not want the scale to be modified in navigation mode. <b>Standard autozoom</b> if you want the scale to be modified continuously in navigation mode. <b>Low autozoom</b> if you want to increase the scale quicker than with normal autozoom. <b>High autozoom</b> if you want to reduce the scale quicker than with normal autozoom. Make your choice and tap <b>OK</b> .
Map	Tap this button to orientate the map by default to the north or in driving direction.

## 5.1.7 Speed profile

### *Speed profile*

On the **SPEED PROFILE** screen, indicate your speed profile. This entry will have an effect on the calculation of the remaining time and of the **estimated time of arrival (ETA)**.

Tap the **Speed profile** button. Select one of the available profiles and tap **OK**.

## 5.1.8 Itinerary

### *Proceeding automatically to the next stage point...*

On the **ITINERARY** screen, determine whether you want to navigate automatically to the next stage point after having reached a stage point (Yes) or not (No).

Tap the **Proceed automatically to next destination** button to toggle between Yes and No.

If you do not proceed automatically, you may proceed as follows: On the map in navigation mode, tap the **Additional functions**



icon.

Select **Next route point** and tap **OK**.

## 5.1.9 Time zone

### *Calculation of arrival times*

On the **TIME ZONE** screen, select the time zone of the region you are currently staying in. This is necessary for the system to indicate correct times of arrival in navigation mode.

Element	Signification
Time zone	Tap this entry field to select the time zone of the region you are currently staying in.
Daylight saving time	Tap this entry field to switch between daylight saving time (Yes) and standard time (No).

## 5.1.10 Format

### *Units*

On the **FORMAT** screen, determine which units are to be used for time and distance indications.

Element	Signification
Time	Tap the <b>Time</b> field to toggle between <b>12 hours</b> (AM/PM) and <b>24 hours</b> time format.
Distance	Tap the <b>Distance</b> field to toggle between <b>kilometres</b> or <b>miles</b> distance units.

### 5.1.11 Home address

---

#### *Home address*

On the **HOME ADDRESS** screen, you may save your home address to quickly start navigation homewards from anywhere.

1. Tap **Enter your home address**.

The **DESTINATION** screen opens.

2. Tap the **Address** button and enter your home address as described in "Entering a destination manually", page 33.
3. Tap the **Set as home address** button.

The address is indicated on the **HOME ADDRESS** screen.

### 5.1.12 Radio-Mute

---

#### *Radio-Mute*

On the **RADIO-MUTE** screen, you may activate the radio-mute function if your hands-free kit is connected to the RADIO-MUTE jack of your car radio. Possible retardations of the hands-free kit will then have no negative effects on the spoken indications of the navigation system.

## 6 Glossary

<i>COM-port</i>	A COM port is a connector to a communications interface, usually the serial port. The ports are numbered by a number behind "COM". A communications interface is designed to connect hardware like a mouse or a GPS receiver.
<i>GMT</i>	GMT ( <b>G</b> reenwich <b>M</b> ean <b>T</b> ime) is the mean solar time at the Royal Greenwich Observatory in Greenwich near London, England, which by convention is at 0 degrees geographic longitude. Theoretically, noon Greenwich Mean Time is the moment when the Sun crosses the Greenwich meridian (and reaches its highest point in the sky in Greenwich). Up to 1972, GMT was the global time standard. Because of the Earth's uneven speed in its elliptic orbit, GMT has been replaced by UTC ( <b>U</b> niversal <b>T</b> ime <b>C</b> oordinated) which is an ultra stable time standard based on atomic clocks.
<i>GPS</i>	<p>The GPS (<b>G</b>lobal <b>P</b>ositioning <b>S</b>ystem) is based on 24 satellites, which are in orbit round the earth. They are permanently emitting the time and their current position. The GPS receiver receives this information and calculates the longitude and the latitude of its own current position.</p> <p>The signals of at least three satellites are needed to determine the longitude and the latitude. With the signals of at least four satellites the elevation may be calculated, too. The determination has an accuracy of about 3 yards.</p>
<i>HDOP</i>	The <b>H</b> orizontal <b>D</b> ilution <b>o</b> f <b>P</b> recision (HDOP) indicates the quality of position determination. Theoretically any value from 0 to 50 is possible. The smaller the value is, the more accurate is the position determination (value 0 = no deviation from the actual position). Values up to 8 are convenient for street navigation.
<i>Points of Interest</i>	Points of Interest are covered by the map and may be displayed on it. Harbours, airports, restaurants, hotels, petrol stations, public buildings, and others belong to the Point of Interest. You may determine Point of Interest as itinerary points for navigation purposes.



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