



User's manual
SUNGOO Mobile Navigation 35.01

English (UK)

October 2007



This symbol showing a crossed-through refuse container signifies that, within the European Union, the product must be disposed of as sorted waste. This applies both to the product itself, as well as to all accessories that carry this symbol. This product may not be disposed of with unsorted household waste.

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1 Introduction

1.1 About this manual

1.1.1 Conventions

For better legibility and clarification, the following styles are used in this manual:

<i>Bold and italics:</i>	Registered names, company and product descriptions.
SMALL CAPITALS:	Window and dialogue box titles.
Bold:	Highlighting of important parts in the text.
<u>Underlined:</u>	Descriptions of buttons, input fields and other elements on the user interface.

1.1.2 Symbols

The following symbols refer to specific passages of text:



Instructions and tips for operating the software



More detailed information and explanations



Warnings

1.2 Legal notice

1.2.1 Liability

The software and the manual are subject to change without notice. NAVIGON AG is not liable for the accuracy of the information contained in this manual or for damages resulting from the use of this manual.

We always appreciate any suggestions that will allow us to offer improved performance of our products in the future, or information regarding malfunction.

1.2.2 Trademarks

All brands and trademarks mentioned in this document are possibly registered by third parties and are subject to the current legislation and

to the rights of their respective owners without reservation. All mentioned names of products, societies, or brands may be registered trademarks of their respective owners. Every right that is not explicitly accorded is reserved.

The absence of the explicit labelling of registered trademarks used in this manual does not imply that the brand is not subject to the rights of a third party.

- ▶ Windows and ActiveSync are trademarks of the Microsoft Corporation.
- ▶ NAVIGON is a registered trademark of NAVIGON AG
- ▶ Sungoo is a registered trademark of Media-Saturn-Holding GmbH.

2 Before you begin






2.1 Scope of Delivery

Please check that the contents of the delivery are complete. If the contents are incomplete, please notify us **within 14 days of purchasing**. The purchased product includes the following:

- ▶ SUNGOO Mobile Navigation 35.01 navigation device
- ▶ Car cradle
- ▶ Car charger cable (12V-adapter for the vehicle's cigarette lighter)
- ▶ USB cable
- ▶ TMC antenna
- ▶ SD-card containing software and navigation maps
- ▶ Manual
- ▶ CD with manuals (PDF, including languages not printed)

2.2 Description of the SUNGOO Mobile Navigation 35.01



- 1 Touch screen
- 2  Mini-USB-socket for car charger cable / USB cable
- 3 LED
- 4  /TMC Headset socket (also used to connect TMC-antenna)
- 5  Slot for SD-memory card
- 6  On/Off/Standby
- 7  Connection for external GPS-antenna

2.3 Preparing SUNGOO Mobile Navigation 35.01 for use

2.3.1 Charging the rechargeable battery

- ▶ Connect the car charger cable to the navigation device and to the vehicle's cigarette lighter. (see also "Supplying power to the navigation device", on page 11)

The LED of the **SUNGOO Mobile Navigation** lights orange during charging.

The LED lights green when the **SUNGOO Mobile Navigation** is fully charged.



Note: It takes approx. 4-5 hours to charge the device when the battery is flat.

A fully charged battery enables 4 hours of use.

2.3.2 Memory card




You will find the memory card containing the navigation software inserted in the device.

Inserting a memory card

- ▶ Insert the memory card provided into the device (see image). Press the card into the device until it locks into place.

Removing the memory card

Should it be necessary to remove the memory card from the device, please proceed as follows:

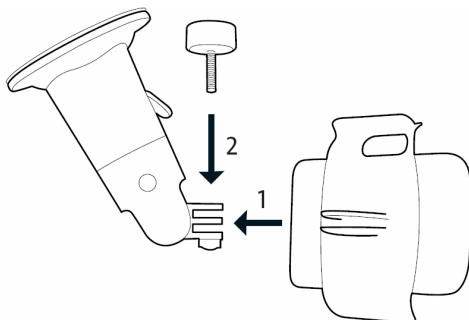
1. Switch the navigation device off by pressing the  (*On/Off/Standby*) switch for at least 6 seconds.
2. Press the memory card gently into the device until the lock disengages.

2.3.3 Preparing the navigation system for use



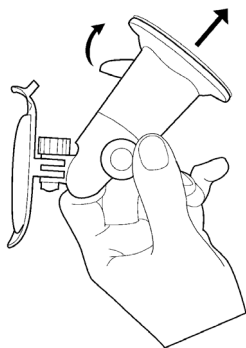
Caution! Please be sure to refer to the safety information in chapter "Important safety information" on page 12.

Assembling the cradle



- Assemble the cradle as shown in the diagram. No tools are required for this.

Securing the cradle



1. Clean that part of the windscreen to which you would like to secure the cradle. The windscreen must be dry and free of dirt and grease.
2. Place the suction cup of the cradle provided against the windscreen.
3. Press the lever on the suction cup towards the windscreen.


Securing the navigation device to the cradle

- Insert the navigation device into the cradle by first placing it on the lower projections and then tilting it backward slightly until the latch clicks into place.

Supplying power to the navigation device

Included in delivery of the **SUNGOO Mobile Navigation** is a car charger cable with which power can be supplied to the navigation device via the vehicle's cigarette lighter.

The car charger cable is connected to the


SUNGOO Mobile Navigation via the mini-USB-socket  on the bottom of the device.



Caution! The car charger cable is to be connected to cigarette lighters with an operating voltage of 12V only.

Connecting the TMC-antenna

The **SUNGOO Mobile Navigation** has an integrated TMC-receiver. For optimal reception, you should use the TMC-antenna provided.

1. Connect the TMC-antenna to the headset socket  /TMC on the right hand side of the **SUNGOO Mobile Navigation**.
2. Secure the antenna to the windscreen using the suction cups.

2.4 Navigation with GPS

GPS is based on a total of 24 satellites that circle the earth and, in doing so, are constantly transmitting their position and time. The GPS receiver receives this data and calculates its own geographical position on the basis of the information transmitted by the various satellites.

For a sufficiently precise positioning it is necessary to obtain the data from at least three satellites. With the data from 4 or more satellites the altitude above sea level can also be ascertained. The determination has an accuracy of about 3 yards.

Once the navigation device has determined your position, this position can be used as a starting point for route calculation.

The map data on your navigation device includes the geographical coordinates of all digitally recorded points of interest, streets and places. This enables the device to calculate a route between a starting point and a destination.

The calculation of the current position and its representation on the map takes place once every second. So your current position is always shown on the map.

2.5 Important safety information

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

2.5.1 Navigation safety information

Use navigation system at your own risk.



Caution! To prevent accidents, do not operate the navigation system while driving.



Caution! Do not look at the display unless it is absolutely safe to do so!



Caution! Traffic regulations have priority over any instructions from the navigation system.



Caution! Only follow the instructions of the navigation system when the circumstances and the road traffic regulations allow you to do so! The navigation system will guide you to your destination even if you deviate from the calculated route.



Caution! Check that the cradle is secured and adjusted properly before each journey.



Note: If you have not understood the spoken instructions, or you're not sure about what to do next, you can refer briefly to the map or arrow view of your navigation system.

2.5.2 Safety information for the navigation device



Caution! Protect the device from moisture. The device is neither waterproof nor is it protected against splash water.



Caution! Do not run cables directly next to safety-relevant devices and supply lines.



Caution! After installation, check all safety-relevant equipment in the car.



Caution! Unplug the navigation device's power supply when you park the vehicle. The navigation device requires power in standby-modus, and may drain the vehicle's battery.



Caution! Do not open the navigation device's casing under any circumstances.



Caution! Do not expose the navigation device to extreme heat or cold. This may damage the device or impair its function.



Caution! Use only the charger provided or one that has been approved of by the manufacturer.

Connect the charger to a suitable power supply. The voltage requirements can be found on the device case and/or the packaging.



Note: Ensure that there are no kinks in the cable and that it will not be damaged by any sharp objects.



Note: To clean the navigation device, use a moist cloth only.



Note: Do not unplug by pulling on the cable. Doing so could damage the cable!



Note: Create a backup of the data contained on the memory card provided.



Note: The memory card must remain inserted in the device during operation of the navigation system.



Note: Use SD- or MMC-memory cards only! Ensure that memory card contacts are clean and undamaged.

2.5.3 Safety guidelines when installing in your car



Caution! Secure the cradle and the TMC-antenna in such a way that the driver's visibility is not impaired.



Caution! Do not attach the cradle within the deployment zone of airbags.



Caution! When installing the cradle, ensure that it does not represent a risk in the event of an accident.



Caution! Do not run cables directly next to safety-relevant devices and power supplies.



Caution! After installation, check all safety-relevant equipment in the car.



Caution! The car charger cable is to be connected to cigarette lighters with an operating voltage of 12V only.

3 Operating the navigation software

3.1 Volume

The volume of the spoken driving instructions can be adjusted during navigation.

You have started navigation. The map is open in **Navigation** or **Destination search** mode.

1. Tap the  (Volume) button.

The volume bar opens. It contains three buttons for adjusting the volume:



(Louder),



(Quieter),



(Volume on/off).

2. Tap the  (Volume) button again.

The volume bar closes.

3.2 Information

Symbols located at the top of the screen are used to display information.

GPS

The GPS symbol can show the following GPS-reception status:

No GPS: The built-in GPS receiver is not operational. Contact customer service if the problem persists.



No Signal: Data is being received from less than three satellites. Position cannot be calculated.



GPS Ready: Data is being received from at least three satellites. Position can be calculated.



For more detailed information regarding GPS status, please refer to chapter "GPS status" on page 41.

Energy

The Energy symbol can display the following conditions of the built-in battery:



The device is being supplied by an external power source. The battery is being charged.



The device is being supplied by its internal battery. The battery charge is sufficient.



The device is being supplied by its internal battery. The battery charge is low.

Direction

The Direction symbol shows you in which direction you are currently heading. It can show the following points of the compass: N, NE, E, SE, S, SW, W and NW.

TMC (Traffic Information)

The **SUNGOO Mobile Navigation** has an integrated TMC-receiver which provides the navigation system with up to date traffic messaging. If necessary, it can alter the route dynamically in order to avoid a traffic jam for example.



Note: This function is only available if TMC traffic messages are being transmitted in the country in which you are travelling. This is not the case in all countries.

The TMC symbol can display the following TMC-reception status:

No Symbol: There is no TMC receiver connected, or the connected or built-in TMC receiver is not operational.



Tuning: The TMC-receiver is operational, but cannot find a station that is transmitting TMC signals.



TMC on Standby: Traffic messages can be received.



For details on TMC functionality, please refer to chapter "TMC (Traffic Information)" on page 42.

3.3 Software keyboard

A software keyboard appears on the screen when text entries are necessary.

All entries can be made on the software keyboard using the fingertips. Only capital letters can be entered.

When entering town or street names you need not enter any special characters or umlauts. The navigation system fills in these characters for you automatically. If, for example, you are searching for "Würzburg", then simply enter "WURZBURG". Special characters may be helpful when naming saved destinations and itineraries, however.

Special keys



enters a space character.



deletes the character in front of the cursor.



opens the numeric keypad.



opens the letter keyboard.



opens the special character keyboard. As soon as you have entered a special character, the letter keyboard reappears automatically.



3.4 Lists

Often, lists appear from which you can select an entry. This is the case, for example, when you enter a location.

As soon as you enter the first letter, the largest city in the country specified which begins with this letter appears.

As soon as you enter the second letter, a list appears with all locations that begin with the letters entered.

If you enter additional letters, the list adapts to your entries. It only contains entries that begin with the text that has been entered or contain the text in the name. The more letters you enter, the shorter the list will become.

You can toggle the list by means of the  (Up) and  (Down) buttons.

In order to accept an entry from the list, simply tap on it.

The list closes as soon as you have accepted an entry.

3.5 Options

Some windows offer options that lead to further functions.



A description of all available options can be found in chapter "Options" on page 32.

3.6 Menus

Some buttons have menus which open when activated.

Tap on a menu button to execute its function.

If you would like to quit the options list without selecting a function, tap on the button you used to open the menu.

3.7 Switching on SUNGOO Mobile Navigation 35.01

- ▶ Press the  (On/Off/Standby) switch for at least 6 seconds.

4 Navigation

Use navigation system at your own risk.



Caution! Please be sure to refer to the safety information in chapter "Important safety information" on page 12.

Impaired GPS reception

If GPS reception is impaired, navigation will be interrupted. The navigation software remains active.

As soon as GPS reception is restored, the navigation system calculates any change of position which has occurred in the meantime. Navigation may simply be continued.

Arriving at your destination


When you have reached the specified destination, a message to this effect will be displayed.

Only your current position (triangle in orange) will now be shown on the map.

4.1 Starting SUNGOO Mobile Navigation 35.01

1. Switch your navigation device on.

Each time the navigation device has been switched off completely

(by pressing the  (*On/Off/Standby*) switch for at least 6 seconds) the following message appears when the software is started again:

"Please note that the road traffic regulations are prior to the instructions of the navigation system. Please do not operate the device while driving."

2. After you have read and fully understood the text, tap the OK button.
3. If you do not accept these instructions, then tap the Cancel button in order to quit the navigation software.

The **MAIN WINDOW** will open. You can reach all of the navigation software functions via the **MAIN WINDOW**.

4.1.1 Initialising the GPS-receiver

Note: It can take up to 20 minutes to initialise the integrated GPS receiver for the first time.



Each time you switch on the receiver after this, the GPS reception will start within one minute.

If the navigation device has been switched off for more than a week, the next initialisation can take up to 10 minutes.

As soon as the navigation device has been switched on, initialisation of the GPS-receiver will begin.

In the right-hand top corner of the display, you will see the GPS symbol. As soon as data from at least 3 satellites is received, the symbol

changes to  **GPS Ready**.



Note: If the GPS symbol displays **GPS Ready** after considerably less than 20 minutes, it is advisable to leave the receiver switched on for at least a further 15 minutes so as to ensure reliable operation.



Caution! If you have connected the navigation device to the power supply via the vehicle's cigarette lighter, remove the connector before you leave the vehicle standing for a longer period of time.

As the GPS receiver requires a constant supply of power, it could drain the vehicle's battery.

Opening the Main Window

The **MAIN WINDOW** opens when the navigation software starts.

If another window is open, tap the  (**Back**) button. The previous window will open.

Tap the  (**Back**) button repeatedly, until the **MAIN WINDOW** opens.

4.2 Specifying a new destination

New destinations for the **SUNGOO Mobile Navigation** are all destinations that you have not yet navigated, or you have not yet stored.

You can enter an address here, select a special destination, or select a destination from the quick search function.

When you enter a new destination for the first time, the **COVERED COUNTRIES** list opens.

Tap on the country in which your destination lies.

4.2.1 Specifying the destination country

Above the right-hand upper corner of the uppermost entry field of the **ADDRESS**, **POI IN A CITY**, and **POI OF NATIONAL SIGNIFICANCE** windows, is the **Country** button. It shows the country code of the country from which navigation destinations can currently be entered.

If your destination is in a different country, then proceed as follows:

1. Tap the **Country** button.
The **COVERED COUNTRIES** list opens.
2. Tap on the country in which your destination lies.
The **COVERED COUNTRIES** list closes again.
The symbol will display the country code of the destination country.



Note: Only countries of which at least a part is represented on the currently loaded map may be selected.

4.2.2 Destination address

1. In the **MAIN WINDOW**, tap on **New Destination** > **Enter an Address**.
The **INPUT SEQUENCE** menu opens when you enter addresses for the USA or Canada (and the corresponding map has been selected).

- 1a Select whether you would like to enter the street first and then the location (Street First), or first the location and then the street (City First).



Note: For the following instructions, it is assumed that you have selected City First as the order for entering addresses.

The **ADDRESS** window opens.

2. Enter the name or the postal code of the destination location.
3. Enter the name of the destination street. You can also enter the name of a well-known object, e.g. "Olympic stadium" or "Eiffel tower".
4. Enter the house number. If you don't know the number of the house, or you specified an object in the preceding step, then leave the field empty.

If you don't know the house number, but know the name of a nearby side street, then tap on the Cross Street field and enter the name of this street. The navigation system will calculate a route to the intersection of the streets you have specified.

Note: It is not necessary to enter all the address details.

If you specify the town only, the navigation system will calculate a route to the town centre.

If you specify the town and street without specifying a house number or side street, the navigation system will calculate a route to the centre of the street specified.

-
5. Tap the Start Navigation button.

The map opens in **Preview** mode.



Note: For detailed information on how to start navigation, please refer to chapter "Starting navigation" on page 25.

4.2.3 Special destinations

Special destinations, also called POIs (**P**oints **O**f Interest) for short, are useful addresses that are catalogued according to particular criteria.

Special destinations include ports, airports, restaurants, hotels, petrol stations, public buildings, doctor's surgeries, hospitals, shopping centres, etc.


Special destinations can be displayed on the map by means of a symbol. In the **MAIN WINDOW**, tap on Options > Settings > POI to select the categories to be displayed on the map.

Special destinations nearby

Special destinations nearby, are special destinations that are located within a given radius of your current location. This means you can always find the nearest petrol station for example, no matter where you are.



Note: GPS-reception must be sufficient for determining position. You

can see if GPS-reception is sufficient by looking at the  (**GPS Ready**) symbol. For more detailed information, please refer to chapter "GPS status" on page 41.



Note: In quick access mode, there are three categories of special destinations available from the current vicinity, which can be searched for quickly and without additional entry. For more detailed information, please refer to chapter "Quick access to special destinations" on page 22.

1. In the **MAIN WINDOW**, tap on New Destination > Search for POI > Nearby.
The **POI NEARBY** window opens.
2. Specify a category from which you would like to select a special destination.
If sub-categories exist for the category you have selected, the Sub Category list will open.
3. Specify a sub-category from which you would like to select a special destination.
The Name of the Destination list opens. It contains the nearest special destinations in the specified category, sorted by distance.
4. Tap on the name of the destination.
5. Tap the Start Navigation button.
The map opens in **Preview** mode.



For detailed information on how to start navigation, please refer to chapter "Starting navigation" on page 25.

Special destinations of nationwide significance

Special destinations of nationwide significance are airports, places of interest, national monuments, large ports etc. This enables you to find places of interest, for example, without having to know the name of the location.

1. In the **MAIN WINDOW**, tap on New Destination > Search for POI > Nationwide.

The **POI OF NATIONAL SIGNIFICANCE** window opens.

2. Specify a category from which you would like to select a special destination.

The Name of the Destination list opens. It contains the nearest special destinations in the specified category, sorted by distance.

3. Tap on the name of the destination.
4. Tap the Start Navigation button.

The map opens in **Preview** mode.



For detailed information on how to start navigation, please refer to chapter "Starting navigation" on page 25.

Special destinations in a given location

Special destinations in a given location can be useful when navigating in an unfamiliar town.

1. In the **MAIN WINDOW**, tap on New Destination > Search for POI > in a City.

The **POI IN A CITY** window opens.

2. Enter the name or the postal code of the destination location.
3. Specify a category from which you would like to select a special destination.

If sub-categories exist for the category you have selected, the Sub Category list will open.

4. Specify a sub-category from which you would like to select a special destination.

The Name of the Destination list opens. It contains special destinations from the specified category, sorted alphabetically.

5. Tap on the name of the destination.
6. Tap the Start Navigation button.

The map opens in **Preview** mode.



For detailed information on how to start navigation, please refer to chapter "Starting navigation" on page 25.


4.2.4 Quick access to special destinations

The quick access system contains three categories of special destinations. Destinations in your vicinity that correspond to these categories can be listed quickly, without the need for additional entry.

- ▶ In the **MAIN WINDOW**, tap on **Options > Settings > POI** to select the categories available in the quick access system.



Note: GPS-reception must be sufficient for determining position. You

can see if GPS-reception is sufficient by looking at the  (**GPS Ready**) symbol. For more detailed information, please refer to chapter "GPS status" on page 41.

1. In the **MAIN WINDOW**, tap the **New Destination** button.

The **NEW DESTINATION** menu opens.

The symbols of the categories which have been selected for quick access can be seen in the menu at the bottom.

2. Tap on a category from which you would like to select a special destination.

The **Name of the Destination** list opens. It contains the nearest special destinations in the specified category, sorted by distance.

3. Tap on the name of the destination.

The map opens in **Preview** mode.



For information on how to start navigation, please refer to chapter "Starting navigation" on page 25.

4.2.5 Information about the destination

For many destinations that you specify, there will be further information available, stored in the navigation system's database.


For example, for many restaurants there is a telephone number available. You can then call the restaurant in order to reserve a table, for example.

One of the destination entry windows described is open.

- ▶ Tap the  (**Destination Info**) button.

The **DESTINATION INFO** window opens. It contains all the information about the specified destination that is stored in the navigation system's database.

- ▶ Tap the **Cancel** button to close the **DESTINATION INFO** window.

- ▶ Tap the  (**Show on Map**) button to show the destination on the map.

4.3 Selecting a saved destination

The following lists of destinations and addresses are available for selection in **SUNGOO Mobile Navigation** under My Destinations.

- ▶ **LAST DESTINATIONS:** destinations that you have previously navigated to.
- ▶ **FAVOURITES:** all destinations that you have stored in **SUNGOO Mobile Navigation**.

4.3.1 Last Destinations

SUNGOO Mobile Navigation saves the last 30 destinations to which you have navigated in the **LAST DESTINATIONS** list.

1. In the **MAIN WINDOW**, tap on My Destinations > Last Destinations.
2. Tap the destination to which you would like to navigate.
3. Tap the Start Navigation button.

The map opens in **Preview** mode.



For detailed information on how to start navigation, please refer to chapter "Starting navigation" on page 25.

4.3.2 Favourites

Destinations to which you often travel can be saved in the **FAVOURITES** list.

In the **FAVOURITES** list, up to 300 destinations can be saved.



Information on how to store a destination can be found in chapter "Saving a destination" on page 27.

1. In the **MAIN WINDOW**, tap on My Destinations > Favourites.
2. Tap the destination to which you would like to navigate.
3. Tap the Start Navigation button.

The map opens in **Preview** mode.



For detailed information on how to start navigation, please refer to chapter "Starting navigation" on page 25.

4.4 Navigating homewards

In **SUNGOO Mobile Navigation** you can save your address as home address. You can navigate to your home address at anytime by activating a single button.

The first time you tap the Take Me Home button, you will be requested to enter your address.




Further information about entering your home address can be found in chapter "Defining a destination as home address" on page 27.

- ▶ In the **MAIN WINDOW**, tap the Take Me Home button.
If you have not yet entered your home address, a dialog window will notify you of this.
Navigation starts. The route profile used for the previous navigation applies.

4.5 Determining destinations on the map

You may indicate a destination directly on the map. In addition to towns and streets, you may also select special destinations quickly.


1. In the **MAIN WINDOW**, tap on Show Map.
2. Tap the  (Destination search) button.
The map opens in **Destination search** mode.
3. Tap on the point to which you wish to navigate.



Note: Please refer to chapter "Map in Destination search mode" on page 39 for information about how to change the map view so that your destination can easily be seen on it.

The destination that you have selected appears under the cross hairs.

The geographical coordinates of the destination and the corresponding address are shown in the bottom third of the screen.

4. Tap the  (OK) button.
The **DESTINATION ON MAP** window opens. The detailed address data of the selected destination is displayed in the left-hand upper corner.
5. Tap the Take Me There button.
The map opens in **Preview** mode.



For detailed information on how to start navigation, please refer to chapter "Starting navigation" on page 25.

4.6 Starting navigation

The map is open in **Preview** mode.

The navigation destination is depicted by a small flag. The route and the estimated trip time are displayed.


Route Profile

A so called route profile forms the basis of the route calculation.

Tap the [Route Profile](#) button if you want to view or change the route profile.



Note: If you change the route options, these remain valid for subsequent navigation.

Information about how to change individual route profile settings can be obtained by tapping on the corresponding  ([Help](#)) button.

Turn-by-Turn List

If you would like to see detailed directions for the route, tap on [Options](#) > [Show Turn-by-Turn List](#).



For detailed information about the functions in the **TURN-BY-TURN LIST** window, please refer to chapter "Turn-by-Turn List" on page 41.

Starting navigation


- ▶ Tap the [Start Navigation](#) button or simply start driving.

No GPS reception

If the received GPS signal is insufficient, the following message will appear: "GPS reception is currently not sufficient. Navigation starts automatically as soon as GPS-reception is OK again."

You have the following options:


- ▶ Wait until GPS reception is sufficient for determining position, the route will be recalculated and you can begin navigation.
- ▶ Tap the [Cancel](#) button. The **MAIN WINDOW** opens. Your destination is saved in the **LAST DESTINATIONS** list.
- ▶ Tap the [Demo](#) button. The route will be calculated using the centre of the specified location as starting point. Subsequently, navigation of the route will be simulated.

Tap  ([Back](#)) to end the demonstration.

5 Managing Destinations

Every destination that you enter, and the destinations from the **LAST DESTINATIONS** list may be saved to the **FAVOURITES** list. This makes sense if you frequently navigate to a particular destination.

5.1 Saving a destination

1. Enter a destination as described in "Specifying a new destination" on page 19. **Do not tap the Start Navigation button!**
 2. Tap on Options > Save Destination.
- OR -
1. Select a destination from the **LAST DESTINATIONS** list as described in chapter "Last Destinations" on page 24. **Do not tap the Start Navigation button!**
 2. Tap on Options > Save as Favourite.
 3. Enter a name for the destination.
 4. If you want to define the destination as your home address, tap on the  (Toggle) button so that the value Yes is highlighted in white.
 5. Tap the Save button.

5.2 Defining a destination as home address

Only one destination from the **FAVOURITES** list can be defined as your home address.

You can then begin navigation to this destination very quickly by tapping the Take Me Home button in the **MAIN WINDOW**.

1. Select the destination which you want to define as your home address from the **FAVOURITES** list. (See chapter "Favourites" on page 24)
2. Tap on Options > Home Address.

The selected destination has now been saved as your home address. Your home address now appears in the **FAVOURITES** list marked by a house symbol.

6 Routes with stages

It is possible to plan routes without GPS-reception, in the comfort of your home for example. Planned routes can be saved for later use, this allows you to plan as many routes as you like e.g. for your holidays.

6.1 Route planning

1. In the **MAIN WINDOW**, tap the Options button.
The options list opens.
2. Tap the Route Planning option.
The **ROUTE PLANNING** window opens.

6.1.1 Entering the starting point

The starting point of a route, is the point at which you want to begin your trip. This need not necessarily be the current location. If you are at home planning a route for your holidays, you could, for example, enter your hotel as the starting point.

The starting point is only important if you want to see a planned route on the map, but currently have no GPS reception, or you are not currently at the planned starting point. The starting point that you enter therefore has the flow number "0".

As soon as you begin navigation, your current location will be used as the starting point for the route calculation.

The first stage is therefore the trip to the route point with the flow number "1".

1. Tap on the Specify Starting Point field.
The **STARTING POINT** menu opens.

If you want to enter your current location as the starting point:

2. Tap on the Current Position menu item.

If you want to enter a different starting point:

2. Tap the corresponding button.
3. Enter the starting point. (See the corresponding section of chapter "Navigation" on page 17 ff.)
4. Tap the Set Starting Point button.
The selected starting point will now be displayed next to the 0°(Starting Point) button.

Changing the starting point

- Tap the Specify Starting Point field.

The **STARTING POINT** menu opens. You can now enter a different starting point. Proceed as described above.

6.1.2 Entering route points

Route points are destinations on the route that you want to navigate to.

The flow number for each route point can be found on a button in front of it.

1. Tap the Add Route Point field.

The **ROUTE POINT** menu opens.

2. Tap on the button for the desired destination entry type.
3. Enter the route point. (See the corresponding section of chapter "Navigation" on page 17 ff.).
4. Tap the Add button.

The selected route point will now be shown next to its flow number.

Repeat these steps for each additional destination that you want to add to your route.

6.1.3 Editing route points

Route points can be deleted from a route. The order of the route points can be varied as you wish.



Note: The start point (flow number "0") can neither be moved nor deleted.

- ▶ Tap on the route point that you want to edit.

The context menu contains the following buttons:



Route Point Up: Moves the selected route stage forwards.
(Example: route point 2 becomes route point 1).



Route Point Down: Moves the selected route point backwards.
(Example: route point 2 becomes route point 3).



Delete: Deletes the selected route point. A dialog window prompts you to confirm deletion.

6.2 Managing routes

You can save each planned route under a particular name.



Note: Only the start point and route points will be saved, not, however, the calculated route. If you load a route that has been saved, it must be recalculated before navigation can begin.

You can load, rename or delete stored routes.

6.2.1 Saving routes

The **ROUTE PLANNING** window is open. You have entered the starting point and at least one route point.

1. Tap on Options > Save Route.
2. Enter a name for the route.
3. Tap the Save button.

The destination is now saved to the **SAVED ROUTES** list. The dialog window closes.

6.2.2 Loading routes

1. Tap on Options > Saved Routes.
2. Tap the route that you want to load.
3. Tap the Load Route button.

The **ROUTE PLANNING** window opens. The starting point and the route points of the loaded route have been entered.

6.3 Navigation

The route must be calculated first. You may then begin navigation or just simulate it.

6.3.1 Calculating and displaying routes

It is possible to calculate and display a planned route on the map even without GPS reception in order to get an impression of the journey.

The **ROUTE PLANNING** window is open. The starting point and at least one route point have been entered.

1. Tap the Show Route button.

The map window opens in **Preview** mode.

The starting point and the route points are marked by flags. For each stage, the distance and the estimated trip time is given. This data is also displayed for the entire route.

6.3.2 Simulating routes

It is also possible to simulate navigation.



Note: The reception of GPS-signals is not necessary for simulation. Simulation is restricted to routes of 60 mi max.

You have calculated and displayed a route.

- ▶ Tap on Options > Simulation.

The route will be recalculated for simulation purposes. Simulation starts when calculation has finished.

Ending simulation

You may end simulation at any time.

- ▶ Tap the  (Back) button.
The **ROUTE PLANNING** window opens.

6.3.3 Starting navigation

You have calculated and displayed a route.


Route Profile

The calculation of a route is based on so called route options.

If you want to view or change these options, tap the Route Profile button.



Note: If you change the route options, these remain valid for subsequent navigation.

You can get information regarding changing individual route profiles by tapping the corresponding  (Help) button.

Turn-by-Turn List

If you would like to see detailed directions for the route, tap on Options > Show Turn-by-Turn List.



For detailed information about the functions in the **TURN-BY-TURN LIST** window, please refer to chapter "Turn-by-Turn List" on page 41.

Starting navigation

- ▶ Tap the Start Navigation button or simply start driving.

No GPS reception

If the received GPS signal is insufficient, the following message will appear:

"GPS reception is currently not sufficient. Navigation starts automatically as soon as GPS-reception is OK again."

You have the following options:

- ▶ Wait until GPS reception is sufficient for determining position, the route will be recalculated and you can begin navigation.
- ▶ Tap the Cancel button. The **MAIN WINDOW** opens. The destination is saved to the **LAST DESTINATIONS** list.

7 Options

Some windows offer options that lead to further functions.

- ▶ Tap the Options button to open the options list.
- ▶ Tap the option you would like to execute.
- ▶ If you would like to quit the options list without selecting an option, tap the Options button again.

Delete All: Deletes all destinations from the **LAST DESTINATIONS** list. The list is then empty. A dialog window prompts you to confirm deletion.

Save as Favourite: Saves the specified destination to the **FAVOURITES** list.

For more detailed information, please refer to chapter "Saving a destination" on page 27.

Show on Map: Shows the specified address on the map.

Settings: Opens the **SETTINGS** window. Here you can configure the navigation system.

For more detailed information, please refer to chapter "Configuring " on page 44.

Logbook: Opens the **LOGBOOK** window. Here you can begin and end logbook recording.

For detailed information, please refer to chapter "Logbook" on page 44.

Saved Routes: Opens a dialog window in which you can load a stored route.

GPS status: Opens the **GPS STATUS** window. Here you can see details regarding GPS reception. You can also save data regarding the current location.

For more detailed information, please refer to chapter "GPS status" on page 41.

Home Address: Saves the selected destination as your home address. You can then begin navigation to this destination very quickly by tapping the Take Me Home button in the **MAIN WINDOW**.

Touchscreen Calibration: Opens a window in which you can recalibrate the touchscreen (realign) should it react imprecisely to touch.

Show Map: Opens the map in **Destination search** mode. Here you can determine your navigation destination directly on the map.

For more detailed information, please refer to chapter "Determining destinations on the map" on page 25.

Delete: Deletes the selected destination from the **FAVOURITES** list or the selected route from the **SAVED ROUTES** list. A dialog window prompts you to confirm deletion.

New Route: Deletes the starting point and all route points from the **ROUTE PLANNING** window, so that you can plan a new route.

If necessary, save the previously planned route!

Product Information: Opens a window in which you can obtain information regarding the installed software.

Save Route: Opens a window in which you can save the planned route under a specific name.

For more detailed information, please refer to chapter "Saving routes" on page 30.

Route Planning: Opens the **ROUTE PLANNING** window. Here you can plan routes, manage planned routes and start navigation to a planned route.

For more detailed information, please refer to chapter "Routes with stages" on page 27.

Route Profile: Opens the **ROUTE PROFILE** window. Here you can view the options for route planning and, if necessary, change them.

Simulation: Simulates a navigation based on the displayed route. This simulation can be performed without GPS reception. Simulation is, however, restricted to routes of max 60 mi.

Rename: Opens a window in which you can change the name for the selected destination or route.

Traffic: Opens the **TRAFFIC INFORMATION** window in which pending reports are listed. For detailed information, please refer to chapter "TMC (Traffic Information)" on page 42.

Show Turn-by-Turn List: Shows detailed directions for the route, including all points at which you must turn.

For more detailed information, please refer to chapter "Turn-by-Turn List" on page 41.

Factory Settings: Opens a window in which you can reset all settings to the original factory settings.

Delete Destination: Deletes the highlighted destination from the list (**LAST DESTINATIONS** or **FAVOURITES**). A dialog window prompts you to confirm deletion.

Save Destination: Saves the specified address in the **FAVOURITES** list.

For more detailed information, please refer to chapter "Saving a destination" on page 27.

Add to Route: Opens route planning. The address specified will be added as the first route point of a new route.

For more detailed information, please refer to chapter "Routes with stages" on page 27.

8 Working with the map

8.1 Maps

Even if you have stored several navigation maps on the navigation system's memory card, **SUNGOO Mobile Navigation** can only operate with one map at a time.

- ▶ Tap on **Options** > **Settings** > **Current Map** to see which map is currently being used. You can also select another map here.

8.2 Map in Preview mode


You have entered a destination and tapped the **Start Navigation** button.

- OR -

You have planned or loaded a route and tapped the **Show Route** button.

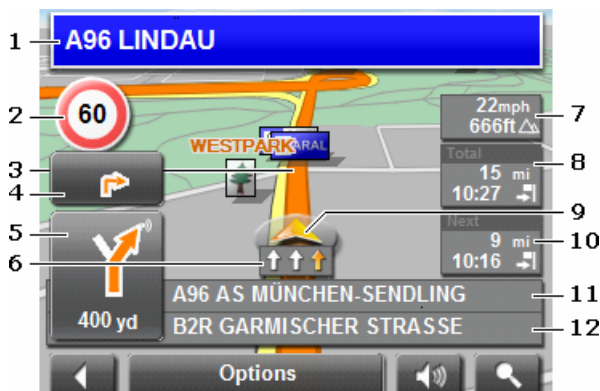
The map opens in **Preview** mode. The entire route is visible.



- 1 The route is highlighted in orange.
- 2 A triangle in orange shows your current position.
If you display a planned or loaded route and the specified starting point is not the same as your current location, then the current position may or may not be shown on the preview.
- 3 The destination is marked with a little flag.
When you have planned or loaded a route and displayed it, the starting point and each route point will be marked with a little flag.
- 4 You will see the total distance for the route in a small info box, together with the estimated trip time and the estimated time of arrival.
This information can be displayed or hidden by tapping on Options > Settings > Basic Settings.
If you display a route with several stages, you will see this information for each stage.
 - ▶ Tap the Route Profile button to view or change the settings on which the route calculation is based.
 - ▶ Tap the Start Navigation button to begin the journey.
When you display a planned or loaded route, the route may be recalculated. Starting point for the calculation is your current location. You will now be guided to the first route point entered.
 - ▶ Tap on Options > Show Turn-by-Turn List to view detailed directions for the route. (See "Turn-by-Turn List" on page 41)
 - ▶ Tap the  (Destination search) button to view the map in **Destination search** mode. (See "Map in Destination search mode" on page 39).

8.3 Map in Navigation mode

After the route has been viewed in **Preview** mode, navigation will start. The map opens in **Navigation** mode.



- 1 Signposting to be followed is displayed here.
- 2 Effective speed limits are displayed here (where available).
- 3 The route is marked by the colour orange.
- 4 When two manoeuvres need to be executed in quick succession, the small arrow field indicates the second manoeuvre to be executed.
- 5 The large arrow field shows a schematic depiction of the next junction which you should turn on to. The remaining distance to this junction is displayed beneath.

As you get closer to the junction, you will see a spot diagram instead of the distance.



The nearer you get to the junction, the more yellow spots are displayed.

If you don't have to change direction for a longer period, you will see only a forward-facing arrow. The distance for which you are to follow the road you are on is displayed beneath the arrow.

- ▶ Tap the large arrow field to hear current route instructions.

- 6 The traffic lanes to be followed to your destination are depicted in the colour orange.
- 7 The height above sea level and the current speed are displayed here.


- 8 The remaining distance to the destination, the estimated duration of the trip, and the estimated time of arrival can be seen in the **Total** field.
- 9 A triangle in orange shows your current position on the map. The map sector displayed changes continually so that your current position is always more or less centred on the map.
- 10 If you are navigating a route with several stages, you will see the remaining distance, estimated duration of the trip, and the estimated time of arrival for the next interim destination in the **Next** field.
- 11 The name of the next stretch of road that you must travel on is displayed in the upper street field.
- 12 The name of the street you are currently travelling on is displayed in the lower street field.




Note: The displays for many of the above mentioned fields can be configured via [Options](#) > [Settings](#) > [Basic Settings](#). Some displays only function if the corresponding information is available on the map.



Note: If you tap on the large arrow field, the current route instruction will be repeated.

- ▶ Tap on [Options](#) > [Show Turn-by-Turn List](#) to view detailed directions for the route. (See "Turn-by-Turn List" on page 41)
- ▶ Tap the  ([Destination search](#)) button to view the map in **Destination search** mode. (See "Map in Destination search mode" on page 39).

Quitting navigation

Tap the  ([Back](#)) button to quit navigation. A dialog window prompts you to confirm.

Map functions in Navigation mode

When the map is open in **Navigation** mode, tap any point on the map. Buttons with various functions will be displayed.

2D/3D: Changes between 2D and 3D mode. The symbol for the mode that is currently set is marked orange.

Day/Night: Changes between "day" and "night" display modes. The symbol for the mode that is currently set is marked orange.

Interim Destination: Opens a menu for entering an interim destination.

The navigation system will first guide you to this interim destination. Afterwards, you may simply continue navigation to your original destination.

Skip Route Point: Tap this button to omit the next route point. This button is inactive when less than 2 route points are pending.

Block: Tap this button in order to block a section of the route that lies in front of you, i.e. to recalculate the route in order to avoid this section of the route, e.g. if you have heard of a traffic jam relating to this section on the radio.

Tap this button again to remove the block.

POI on Your Route: Tap this button to display special destinations on your route. This enables you to find out, for example, how far it is to the nearest services. A destination shown here can be added as an interim

destination by tapping the  (Interim Destination) button to the right of its entry in the list.

8.4 Reality View

When, during navigation, you approach a motorway junction, the map will change to **Reality View** mode.



The **Reality View** mode shows very clearly, the signposting and lanes you must follow.

This display remains unchanged until you have passed the motorway junction. The map will then change back to **Navigation** mode.

- ▶ If you want to change to **Navigation** mode before you have passed the junction, just tap any point on the map.



Note: Reality View mode is not available for every motorway junction. Availability is dependent on the map data in use.

8.5 Map in Destination search mode

The map is always in **Destination search** mode when a pair of cross hairs can be seen.

When you are driving, the map's orientation does not change. It is always oriented with north at the top.



Zoom Out: The map section shown becomes larger, but you will see fewer details.



Zoom In: The map section becomes smaller, but you will see more details.



Zoom Mode: When this button is active, you can plot a map section with the pen or with your finger.

Plot the map section from upper left to bottom right and it will then zoom to fit the size of the screen.

Plot the map section from bottom right to top left, and the map will zoom out.



Pan Mode: When this button is active, you can move the map section with the pen or with your finger. Simply push the map in the desired direction.




Entire Route: Zooms the map so that the entire route is visible.



Current Position: Selects the map section shown so that the current location is centred.

8.5.1 Operating in Destination search mode

1. Tap on the point to which you wish to navigate.
The destination that you have selected appears under the cross hairs.
The geographical coordinates of the destination and the corresponding address are shown in the bottom third of the screen.
2. Tap the  (OK) button.
Buttons with various functions will appear.

Take Me There: Begins navigation to the selected point. If you are currently navigating, navigation will be aborted.

Interim Destination: Sets the selected point as an interim destination. The navigation system will first guide you to this interim destination. Afterwards, you may simply continue navigation to your original destination.

This function is only active during navigation.



Add to Route: Adds the selected point as the last point in the route plan. If no route plan was open, the selected point will become the first point in a new route plan.

Save: Opens the **SAVE DESTINATION AS...** window. You can enter a name under which the selected point will be stored in the **FAVOURITES** list.



For more detailed information, please refer to chapter "Saving a destination" on page 27.

Search Nearby: Opens the **POI NEARBY** window. Here you can search for destinations near the specified point. (See "Special destinations nearby" on page 21)

- ▶ Tap the  (Destination search) button to quit the **Destination search** mode. You will be returned to the window from which you started this mode.
- ▶ Tap the  (Back) button to return to the **MAIN WINDOW**. If you are currently navigating, you will be prompted to confirm your decision to quit navigation.

9 Useful functions

9.1 GPS status, storing the current location

In the **GPS STATUS** window, you will find an overview of the data the navigation system calculates from the received GPS signals.

GPS status is available via the options of several windows.

1. Tap on Options > GPS status.
The current location can be stored in the **FAVOURITES** list.
2. Tap the Save Position button.
The **SAVE DESTINATION AS...** dialog window opens. The cursor blinks in the Name field.
3. Enter a name for the destination.
4. Specify whether your current position should be stored as the home address.
5. Tap the Save button.

9.2 Turn-by-Turn List

You can display detailed directions of the calculated route before starting navigation or at any time during navigation. This list displays all of the driving instructions in table form.

The map is open in **Preview** mode, **Navigation** mode or **Reality View** mode.

- ▶ Tap on Options > Show Turn-by-Turn List.

The **TURN-BY-TURN LIST** window opens.

- 1 Schematic depiction of the next junction where you must turn.
- 2 Distance to this junction.
- 3 Name of the street onto which you must turn.

- 4 Indicates whether you want to travel on the relevant route section or not.



(Allow): The relevant section may be included on the route.



(Forbid): The relevant section may not be included on the route.

9.2.1 Blocking route sections


1. Tap on the route sections that you do not want to travel on, so that



the (Forbid) symbol appears next to them.

2. Tap the  (Modify Route) button.

The navigation system calculates an alternative route avoiding the route sections selected. The new driving instructions are displayed in the **TURN-BY-TURN LIST** window.

3. Tap the  (Back) button to close the **TURN-BY-TURN LIST** window.

9.2.2 Removing blocks and using original routes

Section blocks can be removed at anytime.

- In the **TURN-BY-TURN LIST** window, tap on Options > Calculate original route.

9.3 TMC (Traffic Information)

The integrated TMC receiver enables the navigation system to make use of current traffic messaging. If necessary, it can change your route dynamically in order to avoid a traffic jam, for example.

9.3.1 Displaying traffic messages

The traffic reports that are currently valid are available via the options of several windows.

1. Tap on Options > Traffic.

The **TRAFFIC INFORMATION** window opens.


Above the list, the Traffic information button shows the type of traffic messaging listed and how many messages of this type are listed.

2. Tap the Traffic information button to select the messages to be displayed.

For each traffic message in the list, information about the location and type of traffic obstruction will be displayed if in the **TMC SETTINGS** window, the value for Recalculate Route is set to On request.

- ▶ Tap a message to display detailed information.

The navigation system can Avoid () or Ignore () obstructions on the route. The Avoid / Ignore button shows the corresponding status.

- ▶ Tap the button to select the alternative setting.
- ▶ Tap the  (Back) button to close the **TRAFFIC INFORMATION** window.

9.3.2 TMC Settings

- ▶ In the **TRAFFIC INFORMATION** window, tap on Options > TMC Settings.

In the **TMC SETTINGS** window, you can set and configure the TMC-sender, this will determine the effect a received traffic message concerning your route will have on consequent routing.

Tuning Mode

Tap the Tuning Mode button to determine the settings for the station you have chosen to receive traffic information.

- ▶ Automatically: Use the arrow buttons in the station section to tune into another station. The system will search for another station if reception becomes poor.
- ▶ Hold station: Use the arrow buttons in the station section to tune into another station. The system will search for the same station on a different frequency if the signal becomes poor.
- ▶ Hold frequency: Use the arrow buttons in the station section to tune into another frequency. The system will not search for another station if reception becomes poor.

Recalculate Route

Tap on Recalculate Route to determine the effect new messages concerning your route have on route calculation.

- ▶ Automatically: An alternative route avoiding the traffic obstruction will be calculated.
- ▶ On request: The message will be displayed. In this window, you can determine whether or not an alternative route should be calculated.

9.4 Logbook

You can use **SUNGOO Mobile Navigation** to record a logbook. The logbook is recorded in the "Logbook.xls" file. You can open the file with Microsoft Excel. Each recorded trip is added at the bottom of the table as a new entry.

During the first recording of a trip, the "Logbook.xls" file is created in the "MN6 Logbook" directory on the navigation device's memory card. If you delete or move this file, a new file will be created when you next record a trip.



Note: Trips are recorded simultaneously in an additional file. This file is compatible with the **WISO Sparbuch 2007** program and is called "MN6DriversLog.bin". It can also be found in the "MN6 Logbook" directory on the navigation devices memory card.



Note: When logbook recording is started, every movement of the vehicle will be recorded, even when you are not navigating.

Starting a recording

1. Tap on Options > Logbook.
2. Enter the required details.
3. Tap the Start button.

Stopping the recording

1. Tap on Options > Logbook.
2. Tap the Stop button.



Note: A dialog window opens when you have reached your destination. Specify whether you would like to end logbook recording or not.

10 Configuring SUNGOO Mobile Navigation 35.01

The **SETTINGS** window is where you can adapt **SUNGOO Mobile Navigation** to suit your personal requirements.

The settings can be reached via the options of several windows.

- Tap on Options > Settings.

The **SETTINGS** window has several buttons:

Current Map, POI, Basic Settings and Route Profile.

- ▶ Tap a button to open the corresponding settings window.

The settings of the individual windows are distributed on several windows. You can toggle between these windows with the





(To the Left)




(To the Right) buttons.

Some settings can only accept two or three different values. These

settings can be recognised by the  (Toggle) button. All potential values are visible. The value that is currently valid is highlighted in white.

- ▶ Tap the  (Toggle) button to alternate between the potential values.

Some settings can accept several different values. These settings can

be recognised by the  (List) button. The value that is currently valid is visible.

1. Tap the  (List) button.

A list with all potential values opens. The value that is currently valid is marked.

2. Tap the desired value. It is now marked.
3. Tap the OK button.

The list closes again. The new value will be displayed.

For each setting there is a  (Help) button. When you tap it, you will see a precise explanation of the corresponding setting.

You can close the settings windows in two ways:

- ▶ Tap the Done button.
Any changes you have made will be adopted.
- ▶ Tap the Cancel button.
Any changes you have made will not be adopted.
The **SETTINGS** window is open again.

11 Appendix

11.1 Technical data

Dimensions		108,7x 83,5 x 22,3mm
Weight		approx. 145 g
Operating conditions	Operating temperature	-10°C bis 60°C
	Storage temperature	-20°C bis 70°C
	Humidity	0% bis 90%, non-precipitating
CPU		Samsung 2440-400Mhz
Operating System		Microsoft Windows® CE Net 5.0
Display	3.5"-LCD-Colour display with resistive Touch-Panel	
	320 x 240 pixels (WQVGA) landscape format, permeable	
Memory	ROM	256 MB
	RAM	64 MB
GPS		built-in (SiRF GPS III, 20 channels) Built-in antenna Socket for external antenna
TMC		built-in (GNS FM6)
I/O	Keyboard	Software keyboard
	Loudspeaker	built-in
	Headset	3.5 mm phone jack
	Memory card	SD, MMC
	USB	USB 1.1
Rechargeable battery	Type	Li-Ion, 1200 mAh
	Period of operation	up to 4 hours
Charging	Electronic	built-in
	Duration	approx. 4-5 hours
Car charger cable	Input	12V = (Direct current, DC)
	Output	5V =, 1A (Direct current, DC)

11.2 Declaration of Conformity

Products with the CE marking comply with Radio & Telecommunication Terminal Equipment Directive (R&TTE) (1999/5/ECC), the Electromagnetic Compatibility Directive (89/336/ECC) and the Low Voltage Directive (73/23/ECC) – as amended by Directive 93/68/ECC - issued by the European Community Commission.

Accordance with these directives implies conformity with the following European Standards:

EN301489-1

EN301489-3

EN55022

EN55024

EN61000-3-2

EN61000-3-3

EN60950 / IEC 60950

The manufacturer is not liable for modifications made by the user which may alter the device's conformity with the CE label, nor the consequences thereof.

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