



# truck navigator



## Lorry navigation: Save time and costs!

Find the most suitable route for lorries and also guarantee that your vehicles will reach your customers on time - map&guide truck navigator accounts for bridge heights, widths, maximum permitted loads and roads closed to lorries. This ensures that the correct route is chosen right from the start which saves time and costs as well as reducing the strain on drivers and vehicles.

## map&guide truck navigator - Version 4.0

map&guide truck navigator is the first navigation tool specifically designed for HGVs to be made available on the German market.

The software offers all the functions of a full navigation system. In addition it is supplied with HGV-specific data for France and Germany (data for UK and the Netherlands available from 2007) which includes bridge clearance heights, widths, maximum permitted loads and roads closed to lorries. map&guide truck navigator takes all this information into account during navigation or when calculating routes for trucks. Navigation data for heavy goods transports is also available (in Germany).

Key advantages:

- ✓ **A fast and cost-effective way to reach your destination:** Roads closed to lorries are accounted for in navigation right from the very start. Restrictions for hazardous goods can also be taken into consideration. The software selects an alternative route that bypasses these restricted road sections. This avoids last-minute detours and saves valuable time.
- ✓ **Reach your destination on time and free from stress:** HGV routes are consistently calculated using main roads. This means side streets which are usually unsuitable for lorries are avoided as often as possible.

### Prize winner!

map&guide truck navigator received the innovation award in the “Logistics” category of the medium-sized enterprise initiative in Germany!

### Remote control

The remote control (Remote Control / Remote Interface) is a job file interface that enables communication between map&guide truck navigator and a third-party software solution.

Remote control is used to

- ✓ request GPS positions and make third-party applications available
- ✓ receive address information and make it available for mobile navigation
- ✓ start and stop mobile navigation
- ✓ re-request (update) job lists
- ✓ delete jobs from job lists

...plus many more functions. Further information can be found on [www.mapandguide.info](http://www.mapandguide.info).

## Basic Functions of map&guide truck navigator

More and more drivers are opting for mobile navigation solutions that don't require expensive installation costs. There is now a new Pocket PC system available - designed specifically for HGVs - which can do all the things expected of a professional navigation solution. Furthermore it is supplied with data on bridge heights, widths, maximum permitted loads and vehicle clearance heights. Navigation data for heavy goods transports is also available (in Germany).

- ✓ Professional navigation on conventional Windows Pocket PC devices or Notebooks / Car PC with audio prompts and door-to-door navigation.

- ✓ For the audio prompts you can choose from the following languages:

German	Spanish
English (UK)	Italian
France	Norway
Dutch	Portuguese
Danish	Swedish

We can also provide audio prompts in Czech, Polish, Russian, Slovak, Turkish and English (US) on request.

- ✓ Schematic diagrams of maps and junctions and points of interest (POIs) ensure that you quickly get your bearings.
- ✓ Routes are calculated using the latest map&guide city maps.
- ✓ Dynamic navigation: The latest TMC tailback information is received during the journey (in some cases free of charge) via a special receiver and can be integrated into navigation if necessary.
- ✓ Address data from map&guide or Pocket Outlook can be easily used for navigation.
- ✓ map&guide truck navigator can receive text files from almost any software capable of communication. New destinations or driving instructions from your CRM/commercial software/map&guide or other communication-capable fleet management solution are sent to the driver for mobile navigation at the push of a button.
- ✓ Mobile navigation can be managed from operation headquarters by remote control.

## NEW in Version 4.0

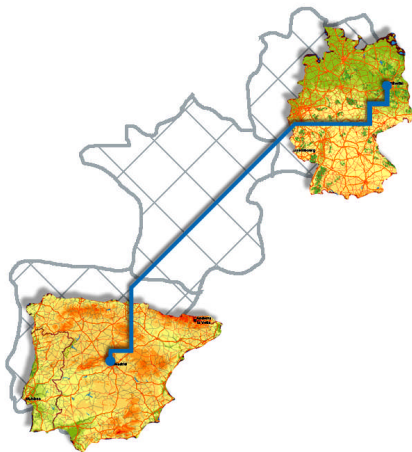
### ✓ An even more user-friendly program interface

The program interface of map&guide truck navigator 4.0 offers extremely user-friendly and ergonomic features: The input procedures are fully touch-screen-compatible for fast information entry. The map is displayed in full screen mode which gives the user a more detailed overview. In addition map&guide truck navigator offers a complete on-screen keyboard that makes it quicker and easier for you to enter information.

### ✓ Continental routing for all of Europe

With version 4.0 it is now possible to navigate between different countries. Every package includes a map of all the major roads throughout Europe. The software can then calculate international routes using the major road network to connect the respective country maps.

#### Example of continental routing



The user has installed a Germany map and a Spain map. This is all that is required to calculate a door-to-door route from Berlin to Madrid: The route through the transit country France is calculated using the major road network provided with map&guide truck navigator. The only restriction here is that it is not possible to use the detailed road network in the transit country.

### ✓ Remote interface

In addition to the ASCII-based interface, map&guide truck navigator can also be controlled by the dll-based "Remote Interface". This provides the user with significantly more functions. The documentation for both interfaces can be found on [www.mapandguide.info](http://www.mapandguide.info).

### ✓ New service: HGV maps with individual profiles

With version 4.0, we can create up to two individually customised maps per licence on request. Therefore every customer receives 1-2 maps that are precisely configured to the customer's vehicle - height, tonnage, width and axle load. For more information, see "Map Material".

### ✓ Eastern Europe map

With map&guide truck navigator version 4.0 it is also possible to order a map of Eastern Europe (CZ, PL, RO, SLO, SK, HU). At the moment however this map does not contain any special truck attributes such as clearance heights or maximum permitted loads.

## The Functions in Detail

- ✓ The latest map&guide map material has been adapted for HGV navigation and now also includes the latest data from the Falk Trucker Atlas. It includes bridge heights and widths, load limits, critical heights, and roads closed for trucks heavier than 3.5 tons. This map material contains approximately 70% of all current road closures and restrictions and always guarantees optimised, low-cost route planning and navigation.
- ✓ The vehicle profiles for truck navigation have been modified so that vehicles are now mainly routed via main roads. Narrow or traffic-restricted roads are avoided as much as possible. Even the average speeds have been adapted for trucks (e.g. 75 km/h on German motorways). The modified route planning functionality guarantees that high-risk sections of roads are avoided - e.g. roads that lead through residential areas. Roads unsuitable for HGVs are usually only used for the final approach to the destination ("last mile").
- ✓ Since the course of the route is influenced by the customised speed profile, it is possible to navigate using an HGV profile anywhere in Europe without needing special truck attributes. Here it is merely the roads closed to lorries that are not indicated. However the consistent routing via main roads and the avoidance of side streets - which would be unsuitable for lorries - are still supported.
- ✓ For map&guide truck navigator we offer map material "with hazardous goods restrictions" and "without hazardous goods restrictions". Maps "with hazardous goods restrictions" contain data for hazardous goods transport such as roads closed to water-polluting shipments, explosive or poisonous substances. Both categories ("with hazardous goods restrictions" and "without hazardous goods restrictions") are supplied with different properties for vehicle weight and height. The user can select the most suitable map for the vehicle in use:

### The basic package contains the following vehicle profiles:

HGV Map 1	(m>24/9 h4.0 w2.6) for lorries measuring 4 m in height, 2.60 in width, weighing 24 t and with an axle load of 9 t
HGV Map 2	(m>16/8 h4.0 w2.6) for lorries measuring 4 m in height, 2.60 in width, weighing 16 t and with an axle load of 8 t
HGV Map 3	(m>12/8 h3.8.0 w2.6) for lorries measuring 3.8 m in height, 2.60 in width, weighing 12 t and with an axle load of 8 t
HGV Map 4	(m>7.5/4 h3.4 w2.6) for lorries measuring 3.4 m in height, 2.60 in width, weighing 7.5 t and with an axle load of 4 t

**Example 1** – Lorry height 3.90 m with HGV map 2: In this case, the map contains more restrictions than are necessary for your lorry. So whilst driving, pay attention to the relevant signs in order to determine whether you really need to avoid all possible obstacles.

**Example 2** – Lorry height 3.70 m with HGV map 4: In this case, the map contains fewer restrictions than are necessary for your lorry. Therefore whilst driving, pay attention to the relevant signs in order to determine whether you really should avoid possible obstacles.

## How to Navigate with HGVs

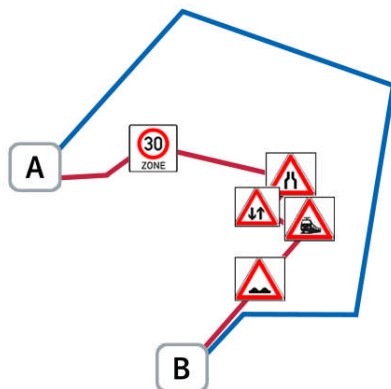
For proper HGV navigation, you need more than just bridge heights and widths. map&guide truck navigator has already been preset to meet the navigation requirements of your truck.

### Application examples



#### Realistic HGV profiles

To make truck navigation more realistic, the speed profile has been adapted accordingly. Side roads are consistently avoided.



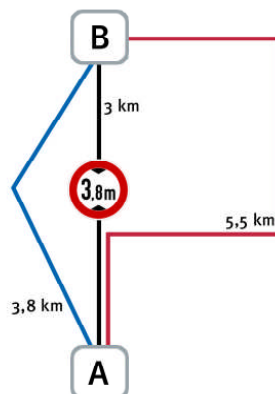
#### A reliable and stress-free way to reach your destination

Route calculated using a car navigation solution (red route).

The software chooses the shortest route and guides you to your destination via a traffic-calmed domestic area with numerous hindrances. This route contains many hidden delays and dangers for a lorry.

Route calculated with map&guide truck navigator (blue route):

The software suggests a route that mainly follows the major road network. This means your lorry will make quick and certain progress along the route. Unsuitable side streets are avoided. The vehicle enters the residential area at the very last moment before reaching its destination.



#### A fast and cost-effective way to reach your destination

If the restricted road is contained in the map material, then it will be identified straight away. The driver will be navigated along the optimal route right from the very start (blue route).

If the restricted road is not contained in the map material, then the driver has to follow the detour indicated by the road signs in the direct vicinity of the restriction (red route).

Depending on how detailed the map data is, map&guide truck navigator can save you money by taking shorter routes, avoiding danger areas and minimising wrong turns.

## Map Material

map&guide truck navigator can not only be used for truck navigation within Germany but also all over Europe. This is why the product is supplied with two maps: 1) a Germany map including roads closed to lorries taken from the FALK Trucker Atlas 2) a Central Europe City map (D, A, CH) for country-to-country navigation.

The following additional maps - bundled as the "Europe Map Package" - can be purchased at any time:

- ✓ Benelux City
- ✓ Eastern Europe (CZ, PL, RO, SLO, SK, HU)
- ✓ France City
- ✓ Great Britain + Ireland City
- ✓ Italy City
- ✓ Scandinavia City
- ✓ Spain + Portugal City

### **New!**

With version 4.0 of map&guide truck navigator, we can create up to two individually customised maps per licence on request. Customers can place their orders on <http://maporder.mapandguide.de>. The customised maps can either be provided as an ftp download or on CD. Therefore every customer receives 1-2 maps that are precisely configured to the customer's vehicle - height, tonnage, width and axle load.

### **Coming soon**

Thanks to the integration of the NAVTEQ "truck attributes", our map material for France (autumn 2006) now includes almost 50% of all bridge heights, widths, maximum permitted loads, clearance heights and roads closed for lorries weighing 3.5 t or more. Similar maps are also planned for other European countries – e.g. UK and the Netherlands in 2007 – once the relevant data becomes available.



## Platforms

We can supply map&guide truck navigator for various different platforms:

- ✓ **Standard platforms**

CarPC / Notebook (WIN32 systems): map&guide truck navigator CarPC / Notebook Edition

Pocket PC: map&guide truck navigator Pocket PC Edition

- ✓ **Industry versions for**

PSION Workabout pro

Gotive H42

Höft&Wessel skeye.pad

Symbol MC 50/70

- ✓ **Other platforms**

map&guide truck navigator can be customised to other platforms for specific projects. Simply tell us your requirements.

## System Requirements

### ✓ CarPC Edition / Notebook Edition

Pentium processor 1GHz or higher (or equivalent)

512 MB free RAM

Graphics card that supports True Color or High Color mode

Screen with a resolution of 640 x 480. 800 x 600. 1024 x 768. 1152 x 870.

1280 x 768. 1280 x 960. 1280 x 1024, 1600 x 1200, 1920 x 1200, 1920 x 1440, 2048 x 1536

Pointing device (e.g. mouse, trackball, touchpad, touchscreen) or a Microsoft-compatible mouse / trackball / touchpad / touchscreen

DVD drive

Microsoft Windows 2000, Windows XP

Sound card

### Hard disk space for maps:

Program - 150 MB

Maps:

Benelux City - 100 MB

Central Europe City - 400 MB

Eastern Europe - 200 MB

France City - 250 MB

Germany City - 250 MB

Great Britain/Ireland City: 160 MB

Italy City: 238 MB

Major road network in Europe - 80 MB

Scandinavia City - 360 MB

Spain + Portugal City - 160 MB

Western Europe/Eastern Europe including major road network - 2100 MB

✓ **Pocket PC Edition**

**PC requirements:**

Pentium processor 233 GHz or higher. Pentium 3 with at least 1 MHz is recommended

Graphics card with a minimum resolution of 800 x 600 pixels as well as True Color or High Color mode

Microsoft compatible mouse / trackball / touchpad / touchscreen

DVD drive

Microsoft Windows 2000, Windows XP

Microsoft(R) ActiveSync(R) software version 3.7.1 or higher

**PDA requirements:**

Any standard Pocket PCs with Microsoft (R) Windows Mobile 2003(SE) and Windows Mobile 5 (240x320px / 320x240px)

At least 64 MB RAM

GPS receiver (NMEA 0183 version 2.0 or higher)

A memory card with sufficient free storage space (depends on map data being used)

We recommend you use a memory card reader for transferring map data

**Map sizes (space required on memory card):**

Benelux City - 100 MB

Central Europe City - 400 MB

Eastern Europe - 200 MB

France City - 250 MB

Germany City - 250 MB

Great Britain/Ireland City: 160 MB

Italy City: 238 MB

Major road network in Europe - 80 MB

Scandinavia City - 360 MB

Spain + Portugal City - 160 MB

Western Europe/Eastern Europe including major road network - 2100 MB

## Further Information

We would be delighted to answer your questions.

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Mon – Fri: 8am - 5pm (CET)

Or visit our web site for more information:

[www.mapandguide.com](http://www.mapandguide.com)

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