



## Owner's Manual

PMD-B200P

ALPINE®

## 1 Important Information

### Please Read Carefully Before Using This Product

This product is intended to safely provide turn by turn instruction to get you to a desired destination. Please read the following precautions to ensure that you use your navigation system correctly.

- This product is not a substitute for your personal judgment. Any route suggestions made by the navigation system may never supersede any local traffic regulations or your personal judgment and/or knowledge of safe driving practices. Do not follow route suggestions if the navigation system instructs you to perform an unsafe or illegal manoeuvre, places you in an unsafe situation, or routes you into an area which you consider unsafe.
- Glance at the monitor screen only when necessary and safe to do so. If prolonged viewing of the screen is necessary, stop the vehicle in a safe and legal manner and location.
- Do not input destinations, change settings, or access any functions requiring prolonged viewing of the monitor and/or remote control while you are driving. Stop the vehicle in safe and legal manner and location before attempting to access the system.
- Do not use the navigation system to route you to emergency services. Not all locations of emergency service providers such as police and fire stations, hospitals and clinics are contained in the database. Please use your own judgment and your ability to ask for directions in these situations.
- The map database contained within the media in which it is stored is the most recent map data available at the time of production. Because of changes in streets and neighbourhoods, there may be situations where the navigation system may not be able to route you to your desired destination. In these cases, use your own personal judgment.
- The map database is designed to provide you with route suggestions. It does not take account of the relative safety of a suggested route, or of factors which may affect the time required to reach your destination. The database does not reflect road closures or construction, road characteristics (i.e. type of road surface, slope or grade, weight or height restrictions, etc.), traffic congestion, weather conditions, or any other factors which may affect the safety or timing of your driving experience. Use your personal judgment if the navigation system is unable to provide you with an alternate route.
- There may be situations where the navigation system may display the vehicle's location erroneously. Use your own driving judgment in this situation, taking into account current driving conditions. Please be aware that in this situation the navigation system should correct the vehicle's position automatically; however, there may be times when you may have to correct the position yourself. If this is the case, stop the vehicle in safe and legal manner and location before attempting operation.
- Make certain that the volume level of the monitor is set to a level which still allows you to hear outside traffic and emergency vehicles. Driving while unable to hear outside sounds could cause an accident.
- Please make certain that any other person who intends on using the navigation system reads these precautions and the following instructions carefully.
- If there is anything in the manual which you do not understand, or are uncertain about the operation of the navigation system, please contact an authorised ALPINE representative before using the navigation system.

### Correct Disposal of This Product

The product purchased by you is provided in accordance with the European directive 2002/96 EC on WEEE - Waste Electrical and Electronic Equipment. A symbol of the crossed out dustbin has therefore been printed on the product. This applies to all member states of the EC and indicates the fact that the product may not to be disposed of in the normal domestic waste. The product must be disposed of in accordance with the local regulations at separate collection points.

Disposal in the normal domestic waste harms the environment. Please contact the responsible waste management authorities or your local dealer where you purchased the product for further information.

## 2 Warnings

### Points to Observe for Safe Usage

- Read the manuals for this device and the system components carefully before using your navigation system. They contain instructions on how to use the system in a safe and effective manner. ALPINE cannot be held responsible for problems resulting from failure to observe the instructions in these manuals.
- This manual uses various pictorial displays to show you how to use this product safely and to alert you to potential dangers resulting from improper connections and operation. The meanings of these pictorial displays are shown below. It is important fully to understand the meanings of these pictorial displays in order to use this manual and the system properly.

### Meaning of displays

Warning	Important instructions. Failure to heed them may result in serious injury or death.
Caution	Important instructions. Failure to heed them may result in injury or material property damage.

### 2.1 Warning

**DO NOT OPERATE ANY FUNCTION THAT DIVERTS YOUR ATTENTION FROM SAFELY DRIVING YOUR VEHICLE.**

Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.

**DO NOT DISASSEMBLE OR ALTER.**

Doing so may result in an accident, fire or electric shock.

**KEEP SMALL OBJECTS SUCH AS BATTERIES OUT OF THE REACH OF CHILDREN.**

Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

**USE THIS PRODUCT AS SPECIFIED.**

Use for other than its designed application may result in fire, electric shock or other injury.

**DO NOT PLACE HANDS, FINGERS OR FOREIGN OBJECTS IN INSERTION SLOTS OR GAPS.**

Doing so may result in personal injury or damage to the product.

**MINIMISE DISPLAY VIEWING WHILE DRIVING.**

Viewing the display may distract the driver from looking ahead of the vehicle and cause an accident.

**DO NOT FOLLOW ROUTE SUGGESTIONS IF THE NAVIGATION SYSTEM INSTRUCTS YOU TO PERFORM AN UNSAFE OR ILLEGAL MANOEUVRE, OR PLACES YOU IN AN UNSAFE SITUATION OR AREA.**

This product is not a substitute for your personal judgment. Any route suggestions by this system should never supersede any local traffic regulations or your personal judgment or knowledge of safe driving practice.

## 2.2 Caution

### **HALT USE IMMEDIATELY IF A PROBLEM APPEARS.**

Failure to do so may cause personal injury or damage to the product. Return it to your authorised ALPINE dealer or the nearest ALPINE Service Centre for repair.

### **KEEP FINGERS AWAY WHILE THE MOTORISED FRONT PANEL OR MOVING MONITOR IS IN MOTION.**

Failure to do so may result in personal injury or damage to the product.

#### **Temperature**

Be sure the temperature inside the vehicle is between +45°C (+113°F) and 0°C (+32°F) before turning your unit on.

#### **Fuse Replacement**

When replacing the fuse(s), the replacement must be of the same amperage as shown on the fuse holder. If the fuse(s) blow(s) more than once, carefully check all electrical connections for short circuiting. Also have your vehicle's voltage regulator checked.

#### **Servicing the Unit**

If you have problems, do not attempt to repair the unit yourself. Return it to your ALPINE dealer or the nearest ALPINE Service Station for servicing.

#### **Installation Location**

Make sure the PMD-B200P will not be exposed to:

- Direct sun and heat
- High humidity
- Excessive dust
- Excessive vibrations

#### **Characteristics of LCD Panel**

- After turning the system off, a slight ghost of the image will remain temporarily. This is an effect peculiar to LCD technology and is normal.
- Under cold temperature conditions, the screen may lose contrast temporarily. After a short warmup period, it will return to normal.
- The LCD panel is manufactured using an extremely high precision manufacturing technology. Its effective pixel ratio is over 99.99%. This means that 0.01% of the pixels could be either always ON or OFF.

#### **Using Headphones**

If ACC or the monitor's power source is turned off, a loud noise may be produced through the headphone jack. Be sure to remove the headphones from your ears before you turn the monitor off.

## **3 End User Licence Agreement**

### **1 The contracting parties**

1.1 This Agreement has been entered into by and between Nav N Go Kft. (registered seat: 23 Bérc utca, H-1016 Budapest, Hungary; Company reg.no.: 01-09-891838) as Licensor (hereinafter: Licensor) and You as the User (hereinafter: User; the User and the Licensor jointly referred to as: Parties) in subject of the use of the software product specified in this Agreement.

### **2 Conclusion of the Agreement**

2.1 The Parties hereby acknowledge that this Agreement shall be concluded by implicit conduct of the Parties without signing the Agreement.

2.2 The User hereby acknowledges that following the lawful acquisition of the software product constituting the object of this Agreement (Section 4), any degree of use, installation into a computer or other hardware, installation of such hardware into a vehicle, pressing of the "Accept" button displayed by the software during installation or use (hereinafter referred to as Use) shall mean that the User has accepted the terms and conditions of this Agreement as legally binding.

2.3 This Agreement shall by no means authorise use of the software product by those persons having unlawfully acquired the software product or having unlawfully installed it on a computer or in a vehicle.

### **3 Relevant laws and regulations**

3.1 To all issues not regulated by this Agreement, the laws of the Republic of Hungary, with specific reference to Act IV of 1959 on the Civil Code and to Act LXXVI of 1999 on Copyrights shall apply.

3.2 The original language version of this Agreement is the Hungarian version. This Agreement has versions in other languages as well. In case of dispute the Hungarian version shall prevail.

### **4 Object of the Agreement**

4.1 The object of this Agreement shall be the navigation guidance software product of Licensor (hereinafter referred to as the Software Product).

4.2 The Software Product shall include the operating computer program, its complete documentation, the map database pertaining thereto and any third-party content and services accessible through the Software Product (hereinafter: Database).

4.3 Any form of display, storage, coding, including printed, electronic or graphic display, storage, source or object code, or any other as yet undefined form of display, storage, or coding, or any medium thereof shall be deemed parts of the Software Product.

4.4 Error corrections, additions, updates used by the User following the conclusion of this Agreement shall also be deemed parts of the Software Product.

### **5 Rights under copyright**

5.1 Unless otherwise provided by law or contractual provisions, the Licensor is the sole and exclusive owner of all material copyrights vested in the Software Product.

5.2 Copyrights extend to the whole Software Product and to its parts separately as well.

5.3 The owner(s) of the copyrights of the Database forming part of the Software Product is (are) the natural person(s) or corporate entity(ies) listed in the Appendix to this Agreement or in the "About" menu item of the operating computer programme (hereinafter referred to as Database Owner). The user's manual of the Software Product includes the name of the menu option where all the owners of the Database items are listed. The Licensor hereby states that it has obtained sufficient usage and representation rights from the Database owners in order to utilise the Database, to offer it for utilisation and to transfer it for utilisation as set forth in this Agreement.

5.4 Pursuant to this Agreement, all rights vested in the Software Product shall remain in the ownership of the Licensor, except for those to which the User is entitled under law or by virtue of this Agreement.

### **6 Rights of the User**

6.1 The User is entitled to install the Software Product into one hardware device (desktop, handheld, portable computer, navigation device), and to run and use one copy of the Software Product or a preinstalled copy of the Software Product thereon.

6.2 The User is entitled to make one backup copy of the Software Product. However, if the Software Product operates after installation without the use of the original media copy, then the original media copy shall be deemed to be a backup copy. In all other cases, the User is only entitled to use the backup copy if the original media copy of the Software Product has been ascertainably and unequivocally rendered unsuitable for its lawful and intended use.

## **7 Limitations of use**

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7.1.1 to duplicate the Software Product (to make a copy thereof);

7.1.2 to lease, rent or lend it or to transfer it to a third person for any reason;

7.1.3 to translate the Software Product (including translation (compilation) to other programming languages);

7.1.4 to decompile the Software Product;

7.1.5 to evade the protection of the Software Product or to modify, circumvent or obviate such protection through technological or by any other means;

7.1.6 to modify, extend, transform the Software Product (in whole or in part), to separate it into parts, combine it with other products, install it in other products, utilise it in other products, not even for the purpose of achieving interoperability with other devices;

7.1.7 apart from using the computer program, to obtain information from the Database as a part of the Software Product, to decompile the Database, to use, copy, modify, extend, transform the Database in whole or in part or the group of data stored therein, or to install it in other products or otherwise, utilise it in other products or to transfer it, not even with the aim of achieving interoperability with other products.

7.2 The User may only use the contents available through the Software Product and provided by third parties and the data received through the services provided by third parties (including but not limited to the traffic data received from the RDS TMC traffic information service) for his/her own personal benefit and at his/her own risk. It is strictly prohibited to store, to transfer or to distribute these data or contents or to disclose them in full or in part to the public in any format or to download them from the product.

## **8 No warranty or limitation of responsibility**

8.1 The Licensor hereby informs the User that although the greatest care was taken in producing the Software Product, given the nature of the Software Product and its technical limitations, the Licensor does not provide a warranty for the Software Product being completely error-free, and the Licensor is not bound by any contractual obligation whereby the Software Product obtained by the User should be completely error-free.

8.2 The Licensor does not warrant that the Software Product is suitable for any purpose defined either by the Licensor or the User, and does not warrant that the Software Product is capable of interoperating with any other system, device or product (e.g. software or hardware).

8.3 The Licensor does not assume any responsibility for damages incurred due to an error in the Software Product (including errors of the computer program, the documentation and the Database).

8.4 The Licensor does not assume any responsibility for damages incurred due to the Software Product not being applicable for any defined purpose, or due to the error or incompatibility of the Software Product with any other system, device or product (e.g. software or hardware).

8.5 The Licensor also draws the attention of the User to the fact that, when using the Software Product in any form of vehicle, observing the traffic regulations and rules (e.g. use of obligatory and/or reasonable and suitable security measures, proper and generally expected care and attention in the given situation, and special care and attention required due to the use of the Software Product) is the exclusive responsibility of the User. The Licensor shall not assume any responsibility for any damages occurred in relation to use of the Software Product in a motor vehicle.

8.6 By concluding the Agreement, the User shall, in particular, acknowledge the information stated in Section 8 above.

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9.1 The Licensor hereby informs the User that, if the Licensor finds its rights under the Copyright Act to be breached, the Licensor may

9.1.1 seek judicial recognition of this breach;

9.1.2 demand that the breach cease and order the person in breach to refrain from continuing such actions;

9.1.3 demand that the person under breach give proper compensation (even by way of publicity at the expense of the person in breach);

9.1.4 claim the return of the increase of assets due to the breach;

9.1.5 demand the cease of the wrongful action and, demand restitution to its state before the breach was committed at the expense of the person in breach, and may demand the destruction of instruments and materials used to commit the breach as well as of the products created by the breach;

9.1.6 claim for damages.

9.2 The Licensor hereby also informs the User that the breach of copyrights and related rights is a crime under Act IV of 1978 on the Hungarian Criminal Code, which may be sentenced of two years in prison in basic cases and up to eight years in prison in aggravated cases.

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9.5 The parties hereby agree that - depending on the nature of the dispute - either the Pest Central District Court (Pesti Központi Kerületi Bíróság) or the Metropolitan Court of Budapest (Fővárosi Bíróság) will have exclusive jurisdiction to rule on any disputes arising in connection with this Agreement.

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## 5 Table of contents

<b>1 Important Information .....</b>	<b>2</b>
<b>2 Warnings.....</b>	<b>3</b>
2.1 Warning.....	3
2.2 Caution.....	4
<b>3 End User Licence Agreement.....</b>	<b>5</b>
<b>4 Copyright note.....</b>	<b>8</b>
<b>5 Table of contents .....</b>	<b>9</b>
<b>6 Getting started with Alpine Navigation Software.....</b>	<b>12</b>
6.1 Operating modes .....	13
6.2 Hardware buttons.....	15
6.3 Buttons and other controls on the screen .....	16
6.3.1 Using keyboards.....	17
6.3.2 Permanent buttons (Menu, Return, Radio Interface and Map) .....	17
6.4 Using the map.....	18
6.4.1 Manipulating the map .....	18
6.4.2 Lane information and Signposts .....	20
6.4.3 Status information and hidden controls on the map .....	20
6.4.4 Using the Cursor (the selected map location) .....	22
6.5 Alpine Navigation Software concepts.....	23
6.5.1 Auto Zoom.....	23
6.5.2 Position markers.....	23
6.5.2.1 Current GPS position and Lock-on-Road.....	23
6.5.2.2 Returning to normal navigation.....	23
6.5.2.3 Selected location (Cursor).....	24
6.5.3 Daytime and night colour profiles.....	24
6.5.4 Colour scheme in tunnels.....	24
6.5.5 Route calculation and recalculation .....	25
6.5.6 Turn List (Itinerary) .....	26
6.5.7 Track Logs .....	27
6.5.8 Route demonstration .....	27
6.5.9 POI (Points of Interest) .....	27
6.5.10 Road Safety Cameras.....	28
6.5.10.1 Camera types.....	29
6.5.10.2 Camera directions.....	29
6.5.11 Speed limit warning .....	30
6.5.12 TMC (Traffic Message Channel) - available in Cradle mode and Docking mode.....	30
<b>7 Navigating with Alpine Navigation Software .....</b>	<b>31</b>
7.1 Selecting the destination of a route .....	31
7.1.1 Selecting the Cursor as the destination .....	31

7.1.2	Entering an address or part of an address.....	32
7.1.2.1	Entering an address.....	32
7.1.2.2	Entering an address if house numbering is restarted.....	33
7.1.2.3	Entering an address without knowing the district/suburb.....	34
7.1.2.4	Selecting an intersection as the destination.....	35
7.1.2.5	Selecting a city centre as the destination.....	36
7.1.2.6	Entering an address with a postal code.....	37
7.1.2.7	Tips on entering addresses quickly.....	37
7.1.3	Selecting the Home address.....	38
7.1.4	Selecting the destination from your Favourites.....	38
7.1.5	Selecting the destination from the POIs.....	38
7.1.6	Selecting the destination from the History.....	39
7.1.7	Selecting the destination by entering its coordinates.....	40
7.2	Creating a multi-point route (inserting a waypoint).....	40
7.3	Editing the route.....	41
7.4	Watching the simulation of the route.....	41
7.5	Pausing the active route.....	41
7.6	Deleting the next waypoint from the route.....	42
7.7	Deleting the active route.....	42
7.8	Using Track Logs.....	42
7.9	Saving the active route.....	43
7.10	Loading a saved route.....	44
<b>8</b>	<b>Reference Guide.....</b>	<b>45</b>
8.1	Map screen.....	45
8.1.1	Icons on the map.....	47
8.1.1.1	Battery, GPS position quality and Track log indicator.....	47
8.1.1.2	Next route event (Turn Preview field).....	48
8.1.2	Objects on the map.....	49
8.1.2.1	Streets and roads.....	49
8.1.2.2	3D object types.....	49
8.1.2.3	Elements of the active route.....	50
8.1.3	Cursor menu.....	51
8.1.4	Route Information screen.....	52
8.1.5	Trip Information screen.....	53
8.1.5.1	Trip Computer screen.....	54
8.1.6	TMC Events screen.....	55
8.1.7	GPS Data screen.....	56
8.2	Destination menu.....	57
8.3	Route menu.....	57
8.4	Edit menu.....	58
8.4.1	Manage Favourites.....	59
8.4.2	Manage POIs.....	59

8.4.3 Manage Saved Routes .....	60
8.4.4 Manage Track Logs .....	61
<b>8.5 Settings menu.....</b>	<b>61</b>
8.5.1 Map Screen settings .....	62
8.5.2 Sound settings .....	63
8.5.3 Route Planning options .....	64
8.5.4 Regional settings.....	66
8.5.5 Display settings.....	67
8.5.6 Navigation settings.....	67
8.5.7 Warning settings .....	68
8.5.8 GPS .....	69
8.5.9 TMC.....	69
8.5.10 Track Log settings.....	70
8.5.11 User Data Management.....	70
8.5.12 Bluetooth settings.....	71
8.5.13 FM Transmitter settings - available in Cradle mode.....	71
<b>9. Phone .....</b>	<b>72</b>
9.1 Access of Phone Menu from the Navigation Menu.....	72
9.2 Bluetooth.....	72
9.2.1 Pairing your Bluetooth-enabled mobile phone.....	72
9.2.2 Placing Calls .....	72
9.2.3 Receiving Calls .....	73
9.3 Bluetooth Settings.....	73
9.3.1 Bluetooth Enabled.....	73
9.3.2 Auto Connect .....	74
9.3.3 Auto Answer .....	74
9.3.4 Auto Phonebook Download.....	74
9.3.5 Search Device .....	74
9.3.6 Connect to Paired Device.....	74
9.3.7 Change Device Name .....	74
9.3.8 Phonebook Source .....	75
9.3.9 Visible.....	75
9.3.10 Factory Reset .....	75
9.3.11 About .....	75
9.4 Bluetooth Indicator Light .....	75
<b>10 Glossary.....</b>	<b>76</b>
<b>11 In Case of Difficulty .....</b>	<b>78</b>
<b>12 In the Box.....</b>	<b>79</b>
<b>13 Specifications .....</b>	<b>80</b>

## 6 Getting started with Alpine Navigation Software

Alpine Navigation Software is optimised for in-car use. You can use it easily by tapping the screen buttons and the map with your fingertips.

Alpine Navigation Software can plan routes throughout the whole installed map set; you do not need to change maps or switch to a poorly detailed general map to navigate between map segments or countries.

Tasks	Instructions
Double tapping the screen	You do not need to tap the screen twice for any action. With buttons and controls, a single tap is enough.
Tapping and holding the screen	<p>You do not need this to access the basic navigation functions. Tap and keep pressing the following buttons to reach extra functions:</p> <ul style="list-style-type: none"> <li>• Tap and hold  on list and menu screens: the Navigation menu appears.</li> <li>• Tap and hold any of the , , , , , and  buttons on the Map screen: you can rotate, tilt or scale the map continuously.</li> <li>• Tap and hold  on keyboard screens: you can delete several characters quickly.</li> <li>• Tap and hold  or  in long lists: you can scroll pages continuously.</li> </ul>
Gestures (drag&drop)	<p>You do not need gestures to access the basic navigation features. You need to drag and drop the screen only in cases like:</p> <ul style="list-style-type: none"> <li>• Moving the handle on a slider.</li> <li>• Moving the map: grab the map, and move it in the desired direction.</li> <li>• Shortcut to open the Map screen: slide your finger from the bottom right corner to the bottom left corner on any screen.</li> <li>• Shortcut to open the Navigation menu: slide your finger from the top left corner to the bottom left corner on any screen.</li> </ul>

### Start using Alpine Navigation Software

The Blackbird can be used in several hardware configurations (see page 13), but when you first turn on the device, you need to do the following:

1. Select the written language of the application interface. Later you can change it in Settings (page 66).
2. Select the language and speaker used for voice guidance messages. Later you can change it in Settings (page 66).
3. Read and accept the End User Licence Agreement (page 5).

After this, the Navigation menu appears and you can start using Alpine Navigation Software.

## The Navigation menu:



The typical way of using Alpine Navigation Software is to select a destination, and start navigating. You can select your destination in the following ways:

- Use the selected location on the map (the Cursor) (page 31).
- Enter a full address or a part of an address, for example a street name without a house number or the names of two intersecting streets (page 32).
- Enter an address with postal code (page 37). This way you do not need to select the name of the settlement and the search for street names might be faster as well.
- Use a coordinate (page 40)
- Use a saved location:
  - a Favourite (page 38)
  - a POI (page 38)
  - the History of previously set destinations and waypoints (page 39)

## 6.1 Operating modes

Although your Blackbird is a handheld navigation device, it can be used in several hardware configurations for both pedestrian and in-vehicle use. The functionality of the software is the same for all navigation functions, and only a few extra features appear when not used as a handheld device. See below for details.

### Handheld mode

Use your Blackbird as a portable navigation device. The built-in battery will provide you with several hours of operation time after fully charged. The full functionality of the navigation software and the multimedia applications are available in this operating mode.

The only navigation feature you cannot access in Handheld mode is the Traffic service. TMC messages can only be received when the Blackbird is inserted into the cradle or the docking adapter.

### Cradle mode

Mount the cradle to the windscreen or on the dashboard of your car as explained in the Quick Reference Guide. Insert the Blackbird into the cradle, and use it as in Handheld mode (the touch screen and hardware buttons work normally).

In Cradle mode you can access the public Traffic messages received through FM RDS. A Traffic button appears on the Map screen, and you can select from FM radio stations in TMC Settings (page 69).

In Cradle mode you can also access the FM transmitter of the Blackbird. Select a suitable frequency in Settings, and tune your car stereo to the same frequency. You can hear the voice prompts of Alpine Navigation Software as well as the music played with the multimedia application of your Blackbird through your car speakers.

## Docking mode

Open the front panel of your Alpine Mobile Media Station and insert the Blackbird into its docking slot, or use the optional docking adapter to connect your Blackbird to an Alpine multimedia head unit.

In this mode you cannot access the touch screen or hardware buttons of the Blackbird, but you can use the touch display of the multimedia station, or you can use the IR remote control unit to instruct the navigation software.

In Docking mode you can access the public Traffic messages received through FM RDS. A Traffic button appears on the Map screen, and you can select from FM radio stations in TMC Settings (page 69).



In Docking mode a  button appears on the screens of the Alpine Navigation Software. This button opens the controls of the Alpine multimedia head unit so that you can control the radio or other features outside the Alpine Navigation Software.

In Docking mode you can calibrate the screen to properly display the content of the software (page 67).

Volume levels cannot be set in the Alpine Navigation Software when used in Docking mode. Use the controls of the head unit it is attached to.

The features and settings available in the different modes are as follows:

Function	Available in Handheld mode	Available in Cradle mode	Available in Docking mode	Explanation
Real-time traffic messages (TMC)	No	Yes	Yes	See page 30.
FM transmitter	No	Yes	No	See page 71.
Radio interface button	No	No	Yes	See page 17.
Screen adjustment	No	No	Yes	See page 67.
Sound volume settings	Yes	Yes	No	See page 63.

## 6.2 Hardware buttons

You can use Alpine Navigation Software mostly by tapping the touch screen. The device has only a few hardware buttons.

You can turn Blackbird on or off at any time with the button on the top of the device. When Blackbird is switched off, Alpine Navigation Software does not calculate your GPS position and it does not update the route or the driving instructions.

When you turn Blackbird on again, Alpine Navigation Software continues navigating as soon as the GPS receiver has determined your position.

The functions of the hardware buttons are the following:



Button	Action	Screen button equivalent
1	Power On/Off (press and hold for a few seconds)	n/a
2	Volume Control	n/a
3	Sensors for the Remote Control Unit (IR) and the ambient light level	n/a
4	Zooms in the map	 on the Map screen
5	Opens the Find Address screen	
6	Opens the Phone application	
7	Opens the Music Player application	
8	Zooms out the map	 on the Map screen
9	Battery charging status (amber:)	n/a

Button	Action	Screen button equivalent
	charging, green: fully charged)	
10	Reset button	n/a

### 6.3 Buttons and other controls on the screen

When you are using Alpine Navigation Software, you usually tap buttons on the touch screen.

You only need to confirm selections or changes in Alpine Navigation Software if the application needs to restart, it needs to perform a major reconfiguration, or you are about to lose some of your data or settings. Otherwise, Alpine Navigation Software saves your selections and applies the new settings without confirmation as soon as you use the controls.

Type	Example	Description	How to use it
Button		Tap it to initiate a function, to open a new screen, or to set a parameter.	Tap it once.
Icon		Shows status information.	Some icons also function as a button. Tap them once.
List		When you need to select from several options, they appear in a list.	Move between pages with the  and  buttons and tap the value that you want.
Slider		When a feature has several different unnamed values, Alpine Navigation Software shows an indicator on a gauge that displays and sets a value from a range.	<ul style="list-style-type: none"> <li>• Drag the handle to move the slider to its new position.</li> <li>• Tap the slider where you want the handle to appear; the thumb jumps there.</li> </ul>
Switch		When there are only two choices, a checkmark shows whether the feature is enabled.	Tap it to turn the switch on or off.
Virtual keyboard		Alphabetic and alphanumeric keyboards to enter text and numbers.	Each key is a touch screen button.

### 6.3.1 Using keyboards

You only need to enter letters or numbers in Alpine Navigation Software when you cannot avoid it. You can type with your fingertips on the full-screen keyboards and you can switch between various keyboard layouts, for example ABC, QWERTY, or numerical.

Task	Details
Switching to another keyboard layout, for example from an English QWERTY keyboard to a Greek keyboard	Tap  , and select from the list of available keyboard types. Alpine Navigation Software remembers your last keyboard choice and offers it the next time you need to enter data.
Correcting your entry on the keyboard	Tap  to remove the unneeded character(s). Tap and hold the button to delete the entire input string.
Entering a space, for example between a first name and a family name or in multi-word street names	Tap  .
Entering symbols	Tap  to switch to a keyboard offering symbol characters.
Finalising the keyboard entry	Tap  .

### 6.3.2 Permanent buttons (Menu, Return, Radio Interface and Map)

There are buttons that appear on most screens at the same place in all three operating modes of the Blackbird.

**Menu button** ()

Tap this button to open the Navigation menu, the startup menu of the Blackbird.

**Return button** ()

Tap this button to return to the previous screen.

Tap and hold this button to return to the Navigation menu.

**I/S button** () - available in Docking mode only

Tap this button to open the controls of the Alpine head unit your Blackbird is connected to.

**Map button** ()

This button is context sensitive. It has multiple functions as described below:

Context	Function
The application displays any other screen than the Map screen.	Tap  to open the Map screen.
The Map screen is open but the start of the active route is not the current GPS position.	Tap  to jump to the starting point of the recommended route.
The map is moved or rotated, it does not follow the current GPS position and/or is not rotated automatically.	Tap  to move the map back to the current GPS position. If the map has been rotated, automatic map rotation is also re-enabled.
The map is at the current GPS position with automatic map rotation (normal navigation).	Tap  to repeat the current voice instruction. The distance is updated to always describe the current situation.

This means you can return to the Map screen from any other screen with one touch of this button, but sometimes you need to tap the button several times to play the current voice instruction.

## 6.4 Using the map

The map screen is the most frequently used screen of Alpine Navigation Software. It can be accessed

from any other screen by tapping .



For further information about the map screen, see page 45.

### 6.4.1 Manipulating the map

Position markers on the map:

- Current GPS position:  (page 23)
- Selected location (Cursor):  (page 24)

The following controls help you modify the map view to suit your actual needs the best. Most of these controls appear only if you tap the map once, and disappear after a few seconds of inactivity.

Action	Button(s)	Description
Moving the map with drag&drop	No buttons	<p>You can move the map into any direction: tap and hold the map, and move your finger to the direction in which you want to move the map.</p> <p>If GPS position is available and you have moved the map, the  button appears. Tap this button to return to the GPS position.</p>
Zooming in and out		<p>Changes how much of the map is displayed on the screen.</p> <p>Alpine Navigation Software uses high-quality vector maps that let you see the map at various zoom levels, always with optimised content. It always displays street names and other text with the same font size, never upside-down, and you only see the streets and objects that you need.</p> <p>Map scaling has different limits in 2D and in 3D map view modes.</p>
Tilting up and down		<p>Changes the vertical view angle of the map in 3D mode.</p>
Rotating left and right		<p>Changes the horizontal view angle of the map in 3D mode or in rotated 2D mode.</p> <p>When GPS position is available, Alpine Navigation Software always rotates the map so its top faces your direction of travel (Track-Up orientation). You can turn away from Track-Up with these buttons.</p> <p>If GPS position is available and you have rotated the map, tap  to re-enable the automatic map rotation.</p>
Viewing modes		<p>Gives you the following map perspectives in Alpine Navigation Software:</p> <ul style="list-style-type: none"> <li>• classic top-down view (2D), the top of the map always faces North</li> <li>• top-down view (2D), the top of the map always points in the current driving direction</li> <li>• perspective view (3D) the top of the map always points in the current driving direction</li> </ul>
Multi-function button.		<p>Show Start position / Return to GPS position / Repeat voice instruction. See page 17 for details.</p>
Map scale		<p>Alpine Navigation Software shows the scale of the map in 2D mode.</p>

### 6.4.2 Lane information and Signposts

When navigating on multilane roads, it is important to take the appropriate lane in order to follow the recommended route. If lane information is available in the map data, Alpine Navigation Software displays the lanes and their directions using small arrows at the bottom of the map. Arrows in yellow represent the lanes you need to take.

Where there is additional information available, signposts substitute arrows. Signposts are always displayed at the top of the map. The colour and style of the signposts are similar to the real ones you can see above road or by the roadside. They show the available destinations and the number of the road the lane leads to.

All signposts look similar when cruising (when there is no recommended route). When navigating a route, only that signpost is displayed in vivid colours that points to the lane(s) to be taken; all others are darkened out.



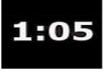
### 6.4.3 Status information and hidden controls on the map

The following information appears in the top left corner, the Turn Preview field. When tapping this area, the result depends on the information currently shown.

Icon	Information	Details	Action
	If the icon is a static picture, route calculation is needed	GPS position and an active route are available, but automatic off-route recalculation is switched off, and you deviated from the route.	Tap this area to make Alpine Navigation Software recalculate the recommended route. Automatic off-route recalculation is also re-enabled.
	If the icon is animated, route calculation is in progress	Alpine Navigation Software is calculating or recalculating the route.	Nothing happens if you tap this area of the screen.
	Next route event (next manoeuvre)	GPS position and an active route are available, and you navigate the recommended route. This area gives you information about the type and distance of the next route event.	Tap this area to open the Route Information screen.

The following information can be seen in the three data fields shown on the map screen. Tap this area to open the Trip Information screen where you can select which values to be shown in these three fields.

When there is no active route, these fields show the following information: current speed, compass and the current time of day.

Icon	Type	More information
	Compass	Shows the direction of your heading both when the map is automatically rotated and when the map is always facing North.
	Speed information	There are speed values that can be shown: <ul style="list-style-type: none"> <li>• Current speed</li> <li>• Speed limit on the current road</li> </ul>
	Time information	There are time values that can be shown: <ul style="list-style-type: none"> <li>• Local time</li> <li>• Time remaining to reach the destination</li> <li>• Time remaining to reach the next waypoint</li> <li>• Estimated arrival time at the destination</li> <li>• Estimated arrival time at the next waypoint</li> </ul>
	Distance information	There are distance type values that can be shown: <ul style="list-style-type: none"> <li>• Distance remaining to reach the destination</li> <li>• Distance remaining to reach the next waypoint</li> <li>• Current altitude</li> </ul>

The area in the bottom left corner is a combined status indicator field. Tap this area to open the GPS Data screen (page 56).

Icon	Status for	More information
	GPS position quality	A higher number of lit bars indicates better GPS position accuracy.
	Battery status	The device is running on battery power. The number of lit bars represent the remaining capacity.
	The battery is being charged	The device is running on external power. The battery is being charged.
	Track log recording	Alpine Navigation Software records a Track log when GPS position is available.

### 6.4.4 Using the Cursor (the selected map location)

First, place the Cursor at the desired map location with one of the following options:

- Use the Destination menu to select a location. The map returns with the selected point (the Cursor) in the middle, and the Cursor menu appears with the available options.
- Tap the screen and tap again to place the Cursor at the desired location. Now tap

**Select**

to open the Cursor menu.

You can perform the following actions:

Button	Description
	Creates a new route with the Cursor as the destination. The previous route (if exists) is deleted.
	Opens the full-screen Cursor menu with all the possible options.
	The location of the Cursor is saved as the Home address.
	The Cursor is saved as a user POI. Select the POI group and give a name for the POI, then select a suitable icon, enter a phone number, and additional information if you like.
	The Cursor becomes the start point of the route. This means that the route is not started from the current GPS position, and Automatic Off-route Recalculation needs to be turned off to keep the selected point as the start point.
	This button is similar to the  button, but a new screen opens, and the route is calculated with all the possible route calculation methods (Fast, Short, Economical and Easy). Observe the results, and choose one of the routes to navigate.
	The Cursor is added to the active route as an intermediate route point, a point to be reached before the destination. If there is already a waypoint in the route, the Edit Route screen opens to let you decide where the new waypoint is to appear in the route.
	The location of the Cursor is added to the list of frequently visited destinations, the so called Favourites. You can give a name for the Favourite.

## 6.5 Alpine Navigation Software concepts

### 6.5.1 Auto Zoom

Auto Zoom provides much more than just a usual automatic zoom feature:

- **While following a route calculated by Alpine Navigation Software:** when approaching a turn, it will zoom in and raise the view angle to let you easily recognise your manoeuvre at the next junction. If the next turn is at a distance, it will zoom out and lower the view angle to be flat so you can see the road in front of you.
- **While driving without an active route in Alpine Navigation Software:** Auto Zoom will zoom in if you drive slowly and zoom out when you drive at high speed.

### 6.5.2 Position markers

#### 6.5.2.1 Current GPS position and Lock-on-Road

When your GPS position is available, Alpine Navigation Software marks your current position with the



icon on the map.

The exact location of the position marker depends on the vehicle type used for route calculation. The vehicle type can be selected in Route settings (page 64).

- If you choose pedestrian: The  icon is at your exact GPS position. The direction of the icon shows your actual heading.
- If you choose any of the vehicles: The  icon may not show your exact GPS position and heading. If roads are near, it is aligned to the nearest road to suppress GPS position errors, and the direction of the icon is aligned to the direction of the road.

#### 6.5.2.2 Returning to normal navigation

When GPS position is available, and you have moved the map (the  icon is moving or is not

even visible), or you have rotated the map in 3D or rotated 2D mode, tap  to move the map back to the GPS position and re-enable automatic map rotation.

<p> Note!</p>	<p>Even if you move the map while you are driving, Alpine Navigation Software continues navigating if there is an active route: it plays the voice instructions and displays the turn preview icon according to your current GPS position.</p>
--	--

### 6.5.2.3 Selected location (Cursor)

If you select a location in the Destination menu, or you tap the map when the map control buttons are visible, the Cursor appears at the selected point on the map. Alpine Navigation Software displays the

Cursor with a large circle () to make it visible at all zoom levels, even when it is in the background of a 3D map view.

When the Cursor is set, tap . The Cursor menu appears and you can use the Cursor as one of the following:

- the start point of a route
- a waypoint in a route
- the destination of a route

You can also search for POIs around the Cursor.

Or you can save the location of the Cursor as:

- a Favourite
- a POI

### 6.5.3 Daytime and night colour profiles

Alpine Navigation Software uses different colour profiles during the day and during the night.

- Daytime colours are similar to paper road maps.
- The night colour profiles use dark colours for large objects to keep the average brightness of the screen low.

Alpine Navigation Software offers different daytime and night colour profiles. It can also switch automatically between the daytime and the night schemes based on the current time and GPS position a few minutes before sunrise, when the sky has already turned bright, and a few minutes after sunset, before it becomes dark.

### 6.5.4 Colour scheme in tunnels

When entering a tunnel, the colours of the map change. All buildings disappear, large objects (such as surface waters or forests) and empty areas between roads become black.

However, roads and streets keep their original colours from the daytime or night colour scheme currently used.

After leaving the tunnel, the original colours return.

### 6.5.5 Route calculation and recalculation

Alpine Navigation Software calculates the route based on your preferences:

- Route calculation method:
  - Fast
  - Short
  - Economical
  - Easy
- Vehicle types :
  - Car
  - Taxi
  - Bus
  - Emergency vehicles
  - Bicycle
  - Pedestrian
- Road types
  - Unpaved Roads
  - Permit Needed
  - Motorways
  - Per-use Toll
  - Period Charge
  - Ferries
  - Cross-border Planning

Alpine Navigation Software automatically recalculates the route if you deviate from the proposed itinerary.

Depending on the type of the TMC event, Alpine Navigation Software also recalculates the route if a TMC event concerns a part of the recommended route.

For further information about Route Planning options, see page 64.

### 6.5.6 Turn List (Itinerary)

The Itinerary is the list of the route events, it equals the driving instructions.



To display the Turn List, tap the following buttons:

You have the following options on the Itinerary screen:

Button	Description
Any of the list items	Opens the map with the selected manoeuvre in the middle.
	Changes the detail level of the Itinerary. The levels are as follows: <ul style="list-style-type: none"> <li>Detailed Instructions: all intersections are listed</li> <li>Turn List: only significant intersections (the ones announced in voice guidance) are listed</li> <li>Road List: the list of the roads used while navigating the route</li> </ul>
	Moves between pages for additional list items.

When the map is open with a manoeuvre in the middle:

Button	Description
	Zooms in the map.
	Zooms out the map.
	Moves the map to show the previous or next manoeuvre.
	Opens a screen where you can avoid a part of the route starting from the selected manoeuvre.

### 6.5.7 Track Logs

Alpine Navigation Software can log the track that you drive (page 42).

A Track Log is a recording of how your GPS position changed and it is independent of the route Alpine Navigation Software calculated.

Track Logs can be recorded, renamed, replayed, shown on the map, exported to a memory card in GPX format, and deleted. See page 61.

Independently of the normal track log, you can instruct Alpine Navigation Software to record the native GPS data received from the GPS device. These logs are saved as separate text files on an inserted memory card, and they cannot be shown or replayed in Alpine Navigation Software.

To turn on NMEA/SIRF log saving, tap the following buttons:



### 6.5.8 Route demonstration

A simulation drives you through the route, following the driving instructions (page 41).

You can use it, for example, to see which bridge Alpine Navigation Software planned for the route; if you do not want to take that bridge, you can avoid it.



### 6.5.9 POI (Points of Interest)

A point of interest (POI) is a location that someone might find useful or interesting. Alpine Navigation Software is delivered with thousands of POIs and you can also create your own POIs in the application.

POI locations are marked on the map with special icons. POI icons are quite large so you can easily recognise the symbol. The icons are semi-transparent: they do not cover the streets and intersections behind them.

POIs are grouped into several levels of categories and subcategories. The icon of a POI that comes with the map shows the symbol of the POI category. If you save your own POI, you can select an icon for it independently of the POI category you have put it in.

## Saving POIs

To save a POI, place the Cursor () at the desired location, then tap the following buttons: , , .

## Managing POIs

You can select which POI groups to show and which ones to hide on the map, and from which zoom levels POI icons are visible. At the same place you can manage your saved POIs. A saved POI can be renamed, moved to a different POI group, its icon can be changed, or a phone number and additional information can be added to it. Tap the following buttons: , ,

.

### 6.5.10 Road Safety Cameras

The location of a Road Safety Camera is a special POI. These cannot be searched like other POIs, and there is a special proximity warning only for cameras.

Is Blackbird shipped with a built-in database of Road Safety Cameras?	Yes
Can Road Safety Camera locations be uploaded in a text file?	Yes
Can you save the Cursor as the location of a Road Safety Camera?	No

## Camera warning

The warning for Road Safety Cameras can be turned on in Warning Settings. Tap the following buttons: , , , .

When you approach a Road Safety Camera with the warning enabled, the following happens:

- **Visible Warning:** The type and distance of the camera is displayed on the Map screen (for example ).
- **Audible Warning:** If there is no speed limit specified for the camera, or your speed is under the specified speed limit, single beeps warn you about the camera.
- If you exceed the speed limit of the camera, the following also happens:
  - **Visible Warning:** A symbol with the speed limit appears in the corner of the map (for example: ).
  - **Audible Warning:** A special alert sound is played.

### 6.5.10.1 Camera types

There are different types of Road Safety Cameras.

Icon	Type	Description
	Fixed	Some speed cameras stand by the roadside, looking in one direction, measuring one or both directions of the traffic. They measure your current speed. For these speed cameras you can specify the controlled traffic direction and the speed limit. Alpine Navigation Software warns you when you approach these speed cameras in the measured direction. If your speed exceeds the speed limit near the speed camera, Alpine Navigation Software plays a special warning sound.
	Mobile	Some speed cameras are operated from vehicles. They do not always work and they are not set to check a preset speed limit. The warning is similar to fixed speed cameras, but as there is no speed limit given, only the proximity is announced.
	Built-in	Some speed cameras are built into traffic lights. They work like fixed speed cameras, but they are difficult to spot. The warning for proximity and speeding is the same as for the fixed speed cameras.
	Section control	<p>These speed cameras work in pairs, and do not measure your current speed but your average speed between the two speed cameras. Both identify your car and record the exact time you pass them. They use the difference between the two points in time to calculate your average speed.</p> <p>Alpine Navigation Software warns you when you approach one of these speed cameras, but as you pass by, the warning stays on, and your average speed is measured until you reach another speed camera of this type. If your average speed exceeds the speed limit between the two speed cameras, you receive the same special warning sound as with the other speed camera types.</p> <p>In the rare case Alpine Navigation Software cannot register the moment you pass the second speed camera (for example, it is placed at the exit of a tunnel where GPS position is not yet available) the warning continues. Just tap the speed camera symbol displayed on the screen to stop the warning.</p> <p>Tap again to display the second route event with the possibility to open the Itinerary.</p>
	Red light	These cameras check if you obey traffic lights. The warning is similar to mobile speed cameras: as there is no speed limit given, only the proximity is announced.

### 6.5.10.2 Camera directions

A speed camera can measure the speed of one direction of the traffic, both directions, or even several directions in an intersection, when they are mounted on a rotating base. The same directions apply to red light cameras. Alpine Navigation Software warns you only if you drive in a measured or possibly measured direction. The measured direction of the camera appears with the following symbols:

Icon	Description
	The camera checks speed in the direction into which you are driving.

Icon	Description
	The camera checks speed in the opposite driving direction.
	The camera checks speed in both directions on the road.
	The camera can check speed in any direction.

### 6.5.11 Speed limit warning

Maps sometimes contain information about the speed limits of the road segments. This information may not be available for your region (ask your local dealer) or may not be fully correct for all roads on the map.

You can configure Alpine Navigation Software to warn you if you exceed the current limit. Tap the

following buttons:    .

When you exceed the speed limit, the following happens:

- Visible Warning: A symbol with the speed limit appears in the corner of the map

(for example: ).

- Audible Warning: A voice message is played using the selected voice guidance profile.

### 6.5.12 TMC (Traffic Message Channel) - available in Cradle mode and Docking mode

Alpine Navigation Software can provide you with even better routes if Traffic Message Channel (TMC) information is available. TMC is a specific application of the FM Radio Data System (RDS) used for broadcasting real-time traffic and weather information.

TMC is enabled by default in Alpine Navigation Software.

 Note!	TMC is not a global service. It may not be available in your country or region. Ask your local dealer for coverage details.
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Your device contains the TMC receiver device that is needed to receive TMC data. To receive the signal, you also need a TMC antenna, that is why this function works only in Cradle mode and Docking mode.

If public TMC data is broadcast at your location, Alpine Navigation Software automatically takes into account the TMC data received. You do not need to set anything in the program. The receiver will automatically search the FM radio stations for TMC data, and the decoded information will immediately be used in route planning. The moment Alpine Navigation Software receives traffic information that may affect your route, the program will warn you that it is recalculating the route, and navigation will continue with a new route that is optimal considering the most up-to-date traffic conditions.

You can access the list of TMC events, change TMC related settings, and select or ignore specific

radio stations in the list of TMC events. On the Map screen, tap .

## 7 Navigating with Alpine Navigation Software

You can set up your route in Alpine Navigation Software in several ways:

- if you need a simple route (a route with only one destination, without any intermediate waypoints), you can select the destination and start navigating to it right away
- you can plan a multi-point route
- you can also plan a route independently of your current GPS position or even without GPS reception

### 7.1 Selecting the destination of a route

Alpine Navigation Software offers you several ways of choosing your destination and waypoints (intermediate destinations):

- Use the selected location on the map (the Cursor) (page 31).
- Enter a full address or a part of an address, for example a street name without a house number or the names of two intersecting streets (page 32).
- Enter an address with postal code (page 37). This way you do not need to select the name of the settlement and the search for street names might be faster as well.
- Use a coordinate (page 40)
- Use a saved location:
  - a Favourite (page 38)
  - a POI (page 38)
  - the History of previously set destinations and waypoints (page 39)

<p> Tip!</p>	<p>If you are going to use a route later, save it before you start navigating. Tap the following buttons: , , .</p>
---	---

#### 7.1.1 Selecting the Cursor as the destination

1. Locate your destination on the map: move and scale the map as needed (page 18).
2. Tap the location that you want to select as your destination. The Cursor () appears.

3. Tap  to open the Cursor menu.

4. The map appears with the selected point in the middle. Tap . The route is then automatically calculated, and you can start navigating.

<p> Tip!</p>	<p>If you know that you will use a destination later, instead of tapping , tap . The Cursor menu appears, save the selected location as a POI or put it on the list of your Favourites first. The map returns</p>
---	---

automatically with the same point. Now you can use it as a route point.

## 7.1.2 Entering an address or part of an address

If you know at least a part of the address, it is the quickest way to select the destination of the route. Using the same screen, you can find an address by entering:

- the exact address, including house number
- the centre of a settlement
- an intersection
- the midpoint of a street
- any of the above, starting the search with the postal code (page 37)

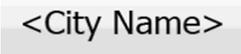
### 7.1.2.1 Entering an address

The parts of the address are shown on buttons. Start reading from the top, and if you want to change any of them, tap the button.



1. Tap the following buttons: ,  Destination,  Address.
2. By default, Alpine Navigation Software proposes the country and settlement where you are. If needed, tap the button with the name of the country, and select a different one from the list.
3. If needed, change the settlement:

- To select the settlement from the list of recently used ones, tap the  button.
- To enter a new settlement:

1. Tap the button with the name of the settlement, or if you have changed the country/state, tap  .
2. Start entering the settlement name on the keyboard.
3. Get to the list of search results:
  - After entering a couple of characters, the names that match the string appear in a list.
  - Tap  to open the list of results before it appears automatically.
4. Select the settlement from the list.

4. Enter the street name:
  1. Start entering the street name on the keyboard.
  2. Get to the list of results:
    - After entering a couple of characters, the names that match the string appear in a list.
    - Tap  to open the list of results before it appears automatically.
  3. Select the street from the list.
5. Enter the house number:
  1. Enter the house number on the keyboard.
  2. Tap  to finish entering the address.
6. The map appears with the selected point in the middle. Tap . The route is then automatically calculated, and you can start navigating.

#### 7.1.2.2 Entering an address if house numbering is restarted

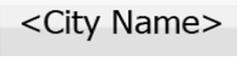
There are long roads where house numbering is restarted at some point. This way the same house number can appear twice or even more times on the same road. If this is the case, after entering the house number, you need to select the appropriate address by the district/suburb information.

1. Tap the following buttons: ,  Destination,  Address
2. By default, Alpine Navigation Software proposes the country/state and settlement where you are. If needed, tap the button with the name of the country/state, and select a different one from the list.
3. If needed, change the settlement:
  - To select the settlement from the list of recently used ones, tap the  button.
  - To enter a new settlement:
    1. Tap the button with the name of the settlement, or if you have changed the country/state, tap  <City Name>.
    2. Start entering the settlement name on the keyboard.
    3. Get to the list of search results:
      - After entering a couple of characters, the names that match the string appear in a list.
      - Tap  to open the list of results before it appears automatically.
    4. Select the settlement from the list.
4. Enter the street name:
  1. Start entering the street name on the keyboard.
  2. Get to the list of results:

- After entering a couple of characters, the names that match the string appear in a list.
  - Tap  to open the list of results before it appears automatically.
3. Select the street from the list.
5. Enter the house number:
    1. Enter the house number on the keyboard.
    2. Tap  to finish entering the address.
  6. A list appears with the matching addresses. Tap the desired one.
  7. The map appears with the selected point in the middle. Tap . The route is then automatically calculated, and you can start navigating.

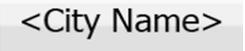
### 7.1.2.3 Entering an address without knowing the district/suburb

Long roads can run across several districts or suburbs. You may not know what particular house number is located where. In this case, follow the instructions below:

1. Tap the following buttons: ,  Destination,  Address.
2. By default, Alpine Navigation Software proposes the country/state and settlement where you are. If needed, tap the button with the name of the country/state, and select a different one from the list.
3. If needed, change the settlement:
  - To select the settlement from the list of recently used ones, tap the  button.
  - To enter a new settlement:
    1. Tap the button with the name of the settlement, or if you have changed the country/state, tap .
    2. Start entering the settlement name on the keyboard.
    3. Get to the list of search results:
      - After entering a couple of characters, the names that match the string appear in a list.
      - Tap  to open the list of results before it appears automatically.
    4. Select the settlement from the list.
4. Enter the street name:
  1. Start entering the street name on the keyboard.
  2. Get to the list of results:
    - After entering a couple of characters, the names that match the string appear in a list.

- Tap  to open the list of results before it appears automatically.
3. Instead of selecting one of the streets, tap .
5. Enter the house number:
    1. Enter the house number on the keyboard.
    2. Tap  to finish entering the address.
  6. A list appears with the matching addresses. Tap the desired one.
  7. The map appears with the selected point in the middle. Tap . The route is then automatically calculated, and you can start navigating.

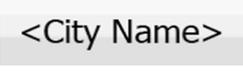
#### 7.1.2.4 Selecting an intersection as the destination

1. Tap the following buttons: , , .
2. By default, Alpine Navigation Software proposes the country/state and settlement where you are. If needed, tap the button with the name of the country/state, and select a different one from the list.
3. If needed, change the settlement:
  - To select the settlement from the list of recently used ones, tap the  button.
  - To enter a new settlement:
    1. Tap the button with the name of the settlement, or if you have changed the country/state, tap .
    2. Start entering the settlement name on the keyboard.
    3. Get to the list of search results:
      - After entering a couple of characters, the names that match the string appear in a list.
      - Tap  to open the list of results before it appears automatically.
    4. Select the settlement from the list.
4. Enter the street name:
  1. Start entering the street name on the keyboard.
  2. Get to the list of results:
    - After entering a couple of characters, the names that match the string appear in a list.
    - Tap  to open the list of results before it appears automatically.
  3. Select the street from the list.

5. Tap the  button.
  - If only a few intersecting streets exist, their list appears immediately.
  - In case of a longer street, a keyboard screen appears. Start entering the name of the intersecting street on the keyboard. As you type, if the matching streets can be shown on one screen, their list appears automatically.
6. Tap the desired intersecting street in the list.
7. The map appears with the selected point in the middle. Tap . The route is then automatically calculated, and you can start navigating.

### 7.1.2.5 Selecting a city centre as the destination

The City Centre is not the geometric centre of the settlement but an arbitrary point the map creators have chosen. In towns and villages, it is usually the most important intersection; in larger cities, it is an important intersection.

1. Tap the following buttons: , , .
2. By default, Alpine Navigation Software proposes the country/state and settlement where you are. If needed, tap the button with the name of the country/state, and select a different one from the list.
3. If needed, change the settlement:
  - To select the settlement from the list of recently used ones, tap the  button.
  - To enter a new settlement:
    1. Tap the button with the name of the settlement, or if you have changed the country/state, tap .
    2. Start entering the settlement name on the keyboard.
    3. Get to the list of search results:
      - After entering a couple of characters, the names that match the string appear in a list.
      - Tap  to open the list of results before it appears automatically.
    4. Select the settlement from the list.
4. Tap the  button.
5. The map appears with the selected point in the middle. Tap . The route is then automatically calculated, and you can start navigating.

### 7.1.2.6 Entering an address with a postal code

All of the above address searching possibilities can be performed with entering the postal code instead of the settlement name. Find below an example with a full address:

1. Tap the following buttons: , , .
2. By default, Alpine Navigation Software proposes the country/state and settlement where you are. If needed, tap the button with the name of the country/state, and select a different one from the list.
3. Tap the button with the name of the settlement, and enter the postal code:
  1. Start entering the postal code on the keyboard.
  2. Get to the list of results:
    - After entering a couple of numbers, matching results appear in a list.
    - Tap  to open the list of results before it appears automatically.
  3. Pick the settlement from the list.
4. Enter the street name:
  1. Start entering the street name on the keyboard.
  2. Get to the list of results:
    - After entering a couple of characters, the names that match the string appear in a list.
    - Tap  to open the list of results before it appears automatically.
  3. Select the street from the list.
5. Enter the house number:
  1. Enter the house number on the keyboard.
  2. Tap  to finish entering the address.
6. The map appears with the selected point in the middle. Tap . The route is then automatically calculated, and you can start navigating.

### 7.1.2.7 Tips on entering addresses quickly

- When you are entering the name of a settlement or a street, Alpine Navigation Software only displays those characters that appear in possible search results. The other characters are greyed out.
- When entering the settlement name or the street name, tap the  button after a couple of letters; Alpine Navigation Software lists the items that contain the specified letters.
- You can speed up finding an intersection:
  - Search first for the street with a less common or less usual name; fewer letters are enough to find it.
  - If one of the streets is shorter, search for that one first. You can then find the second one faster.

- You can search for both the type and the name of a road. If the same word appears in several names, for example in the name of streets, roads and avenues, you can obtain the result faster if you enter the first letter of the street type: For example, enter *PI A* to obtain *Pine Avenue* and skip all *Pine Streets* and *Pickwick Roads*.
- You can also search in postal codes. This is useful when a street name is common and it is used in several districts of a city.

### 7.1.3 Selecting the Home address

You can select your Home address if you have already saved it.

1. Tap the following buttons: , , .
2. The map appears with the selected point in the middle. Tap . The route is then automatically calculated, and you can start navigating.

### 7.1.4 Selecting the destination from your Favourites

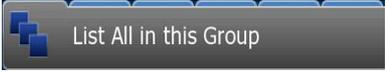
You can select a location that you have already saved as a Favourite to be your destination.

1. Tap the following buttons: , , .
2. Tap the Favourite that you want to set as your destination.
3. The map appears with the selected point in the middle. Tap . The route is then automatically calculated, and you can start navigating.

### 7.1.5 Selecting the destination from the POIs

You can select your destination from the POIs included with Alpine Navigation Software or from the ones you have previously created.

1. Tap the following buttons: , , .
2. Select the area around which the POI should be searched for:
  - : The POI will be searched for around a given address.
  - : The POI will be searched for around the current GPS position.
  - : The POI will be searched for around the destination of the active route.

- : The POI will be searched for not around a given point, but by the size of the detour it adds to the active route. This can be useful if you search for a later stopover that causes only a minimal detour, for example upcoming petrol stations or restaurants.
- You can narrow the search with the following:
    - Select the POI group (e.g. Accommodation), and after that, if needed, select the POI subgroup (e.g. Hotel or Motel).
    - To find the POI by its name, tap , and use the keyboard to enter a part of the name.
    - To list all POIs in a given POI group, tap .
  - [optional] When finally the list of results appear, you can sort the list:
    - : sort the list alphabetically (available when you search around a single location)
    - : sort the list by the distance from your current position in a straight line (available when you search around a single location)
    - : sort the list by the distance to drive on route from your current position (available when you search along the active route)
    - : sort the list by the size of the needed detour (available when you search along the active route)
  - Tap the desired POI in the list.
  - Review the details of the selected item and tap the name of the POI.
  - The map appears with the selected point in the middle. Tap . The route is then automatically calculated, and you can start navigating.

### 7.1.6 Selecting the destination from the History

The destinations that you have set earlier appear in the History.

- Tap the following buttons: , , .
- If necessary, move between pages with  to see earlier destinations.
- Tap the desired item.
- The map appears with the selected point in the middle. Tap . The route is then automatically calculated, and you can start navigating.

### 7.1.7 Selecting the destination by entering its coordinates

1. Tap the following buttons: , , .
2. [optional] Tap  to change the format of the displayed coordinates.
3. Tap the latitude or longitude value to change the coordinates.
4. Enter the coordinate values in WGS84 format on the keyboard: the latitude (N or S) and the longitude (E or W).
5. Tap .
6. The map appears with the selected point in the middle. Tap . The route is then automatically calculated, and you can start navigating.

### 7.2 Creating a multi-point route (inserting a waypoint)

Multi-point routes are created from simple routes, so a route must be active first with your final destination. The way of expanding the route is to keep the destination, and to add waypoints (intermediate destinations).

1. Select a new location as you did in the previous sections. This will be the additional destination in the route.
2. The map appears with the selected point in the middle.
3. Tap .
4. Tap  to add the point as an intermediate destination preceding the final destination of the route.
5. [optional] To add more points to the route, repeat the above steps as many times as you like.

If you insert a waypoint in a route that is already a multi-point route, you will automatically be taken to the Edit Route screen where you can determine the position of the intermediate route point. When you enter the screen, the new waypoint is placed as the first waypoint to be reached. The new point is the highlighted point in the list.

You have the following options:

Button	Action
	The selected point moves up in the list (becomes a waypoint to be reached earlier). Tap this button repeatedly, and the point becomes the start point of the route (when routing from a given location) or the first waypoint to reach (when routing from the GPS position).
	The selected point moves down in the list (becomes a waypoint to be reached later). Tap this button repeatedly, and the point becomes the final destination of the route.
<b>Optimise</b>	Tap this button to optimise the route. The start point and the destination remain at their position, but the waypoints are reordered to make the shortest possible route.
<b>Remove</b>	Tap this button to remove the selected point from the route. The route remains as it was before adding the new point.

Every time a new point is added, the route is recalculated automatically, and you can start navigating right away.

### 7.3 Editing the route

Tap the following buttons: , , .

The list of route points appear with the start point at the top of the list and the final destination at the bottom. If several waypoints exist, you might need to scroll between pages.

Tap one of the route points in the list. You have the following options:

Button	Action
	The selected point moves up in the list (becomes a waypoint to be reached earlier). Tap this button repeatedly, and the point becomes the start point of the route (when routing from a given location) or the first waypoint to reach (when routing from the GPS position).
	The selected point moves down in the list (becomes a waypoint to be reached later). Tap this button repeatedly, and the point becomes the final destination of the route.
<b>Optimise</b>	Tap this button to optimise the route. The start point and the destination remain at their position, but the waypoints are reordered to make the shortest possible route.
<b>Remove</b>	Tap this button to remove the selected point from the route.

As soon as you leave this screen, the route is recalculated automatically, and you can start navigating right away.

### 7.4 Watching the simulation of the route

1. Tap the following buttons: , .
2. The Route menu appears. Tap  to run the simulation at normal speed and with voice guidance instructions announced.
3. The simulation can be aborted any time by tapping .

### 7.5 Pausing the active route

You do not need to pause the active route: when you start driving again, Alpine Navigation Software restarts the voice instructions from your position.

### 7.6 Deleting the next waypoint from the route

The easiest way to delete the upcoming route point (the next waypoint) is to open the Route Information screen by tapping the Turn Preview field () on the Map screen, and then tapping **Remove Next Waypoint**.

Alternatively, you can do it through the Navigation menu:



### 7.7 Deleting the active route

The easiest way to delete the active route is to open the Route Information screen by tapping the Turn Preview field () on the Map screen, and then tapping **Delete Route**.

Alternatively, you can do it through the Navigation menu:



<p> <b>Note!</b></p>	<p>If waypoints exist in the active route, you cannot delete the route immediately on the Route Information screen. Tap <b>Remove Next Waypoint</b> repeatedly until all waypoints disappear and the <b>Delete Route</b> button appears. Tap it to cancel the whole route.</p>
---	--

### 7.8 Using Track Logs

Alpine Navigation Software can record the track (how your GPS position changed) that you drive.

<p> <b>Tip!</b></p>	<p>You do not need to select a destination and create a route for this; you can also record your driving path while cruising.</p>
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#### Recording the travelled path (creating a Track Log)

1. Start driving.

2. Tap the following buttons: , , .

3. Start the recording: tap the **Record** button.

You return to the map and you can continue driving.

4. Repeat the above steps, then tap  later to stop the recording. Alpine Navigation Software labels the Track Log with a time stamp.

### Simulating a Track Log on the map

1. Tap the following buttons: , , .
2. Locate the desired Track Log, and then tap the  button next to it.
3. The map returns, and the Track Log simulation (a life-like replay) begins.
4. You can stop the replay any time by tapping the  button.

### Changing the colour of a Track Log

1. Tap the following buttons: , , .
2. Tap the desired Track Log and then tap one of the colour buttons.

## 7.9 Saving the active route

1. Tap the following buttons: , , .
2. Enter a name for the saved route, and then tap .

When you save a route, Alpine Navigation Software not only saves the route points but the whole itinerary:

- The saved route might have been influenced by TMC information. When you later use the route, it appears as it was saved. But if it needs to be recalculated, the current TMC information will be used in the new route.
- If you updated your map since you first saved the route, Alpine Navigation Software recognises the change, and recalculates the driving instructions according to the latest available map information.
- If you want to save the route, you need to save it before you start navigating. During navigation, Alpine Navigation Software deletes any waypoints that you already left behind together with the road segments used to reach it.

## 7.10 Loading a saved route

1. Tap the following buttons: , , , .
2. Tap the route you wish to navigate.
3. In the very likely case when the start position of the saved route is different from the current GPS position, you need to confirm whether you want to stop navigating from the current GPS position to use the start point of the loaded route.
  - If you choose this option, automatic off-route recalculation will be disabled.
  - If you choose to keep the current GPS position as the start point, the route will be recalculated starting from your current position.
4. The map appears. Tap  and start navigating.

## 8 Reference Guide

On the following pages you will find the description of the different menu screens of Alpine Navigation Software.

### The Navigation menu:

Alpine Navigation Software starts with the Navigation menu. From there you can access the following screens:

Button	Description
	The Map screen.
 Destination	Selecting the destination (for example an address or a POI) or using the search engine of Alpine Navigation Software for any other reason (for example to look for the phone number of a POI).
 Route	Managing the active route (obtaining information about it, changing or deleting it or parts of it) or planning a route without GPS reception.
 Edit	Managing user data, such as saved locations (POIs and Favourites), Saved Routes, and Track Logs.
 Phone	Connect your mobile phone via Bluetooth, and use your Blackbird as a hands-free accessory to make calls.
 Multimedia	Besides navigation, you have access to a Music Player, a Video Player, a Picture Viewer and some award winning computer games.
 Settings	Managing the behaviour of Alpine Navigation Software, for example the map layout during navigation, the used languages or the warnings.

### 8.1 Map screen

Alpine Navigation Software is primarily intended for land navigation. That is why maps in Alpine Navigation Software look similar to paper road maps. However, Alpine Navigation Software provides much more than regular paper maps: you can customise the look and the content of the map.

The most important and most often used screen of Alpine Navigation Software is the Map screen.



During navigation, the screen shows route information and trip data (left screenshot), but when you tap the map, additional buttons and controls appear for a few seconds (right screenshot). Most parts of the screen behave as buttons.

Symbol	Name	Action
	Turn Preview, that is, the next route event	Opens the Route Information screen
	Traffic information (not available in Handheld mode)	Opens the list of Traffic events
	Trip data	Opens the Trip Information screen
	Battery status	Opens the GPS Data screen
	GPS position quality	Opens the GPS Data screen
Top row	Next street or Next settlement	Additional buttons and controls appear for a few seconds
Bottom row	Current street and house numbers on left and right	Additional buttons and controls appear for a few seconds
	Map view modes	Switches between 2D and 3D map modes: <ul style="list-style-type: none"> <li>• 2D North-up</li> <li>• 2D rotated</li> <li>• 3D rotated</li> </ul>
	I/S button (available in Docking mode only)	Opens the controls of the Alpine head unit your Blackbird is connected to.
	Menu	Opens the Navigation menu
	Cursor menu (appears when the Cursor is not at the current GPS position)	Opens the Cursor menu
	Rotate left, rotate right	Rotates the map left or right (not available in 2D North-up mode)
	Tilt up, tilt down	Tilts the 3D map
	Zoom in, zoom out	Scales the map
	Show Start position / Return to GPS position / Repeat voice instruction	This button has multiple functions (page 17).
	Current GPS position (on nearest road)	n/a

Symbol	Name	Action
	Cursor (selected map location)	n/a
	Lane information	n/a
	Signpost information	n/a
Orange line	Active route	n/a
	Map scale (2D map only)	n/a
	Speed limit	n/a

### 8.1.1 Icons on the map

There are several status icons on the map. Most of them also function as a button. The information they provide is as follows:

- GPS position quality
- Battery status
- Track log recording status
- TMC reception and processing status

#### 8.1.1.1 Battery, GPS position quality and Track log indicator

This area is a multiple status indicator, and also acts as a button that opens the GPS Data screen.

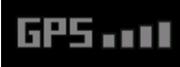


A red dot (  ) is displayed in this field if a Track log is being recorded.

The battery part shows information about the rechargeable battery of the device.

Icon	Description
	The battery is charging. The device runs on external power.
	The battery is not charging but it is full.
	The battery is not full but it still has enough capacity.
	You need to recharge the battery.

GPS reception quality shows the current accuracy of the position information.

Icon	Description
	Alpine Navigation Software has no connection to the GPS receiver: GPS navigation is not possible. Devices with a built-in GPS receiver are permanently connected. On such devices, the icon does not appear in normal circumstances.
	Alpine Navigation Software is connected to the GPS receiver, but the signal is too weak and the receiver cannot determine the GPS position. GPS navigation is not possible.
	Only a few satellites are received. Position information is available, but elevation (altitude) cannot be calculated. GPS navigation is possible, but the position error may be significant.
	Altitude information is available, the position is a 3D position. GPS navigation is possible.

### 8.1.1.2 Next route event (Turn Preview field)

There is a field reserved on the Map screen to display the next manoeuvre (route event that are listed in the Turn List). Both the type of the event (turn, roundabout, exiting motorway, etc.) and its distance from the current GPS position is displayed.

Most of these icons are very intuitive and you also know them as road signs. The following table lists some of the frequently shown route events:

Icon	Description
	Turn left.
	Turn right.
	Turn back.
	Bear right.
	Turn sharp left.
	Keep left.
	Continue straight in the intersection.
	Enter roundabout. The number of the exit is shown in the circle, but only for the next turn.
	Enter motorway.
	Exit motorway.
	Board ferry.

Icon	Description
	Leave ferry.
	Approaching the next waypoint.
	Approaching the destination.

## 8.1.2 Objects on the map

### 8.1.2.1 Streets and roads

Alpine Navigation Software shows the streets in a way that is similar to how the paper road maps show them. Their width and colours correspond to their importance: you can easily tell a motorway from a small street.

 Tip!	If you prefer not to see street names during navigation, turn them off (page 62).
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### 8.1.2.2 3D object types

Alpine Navigation Software supports the following 3D object types:

Type	Description
3D landmarks	Landmarks are 3D artistic or block representations of prominent or well-known objects. 3D landmarks are only available in selected cities and countries.
Elevation model	Hills and mountains are shown in the background of the 3D map view, and illustrated by colour on the 2D map.
Elevated roads	Complex intersections and vertically isolated roads (such as overpasses or bridges) are displayed in 3D.
3D buildings	Full 3D city building data that represents actual building size and position on the map. Building data is limited to the city centres of major cities in the US and Europe.
3D terrain	3D terrain map data shows changes in terrain, elevations or depressions in the land when you view the map, and use it to plot the route map in 3D when you navigate.

To fine-tune 3D visualisation on the map, tap the following buttons:   ,  ,  .

### 8.1.2.3 Elements of the active route

Alpine Navigation Software shows the route in the following way:

Symbol	Name	Description
	Current GPS position	Your current position displayed on the map. <ul style="list-style-type: none"> <li>• In pedestrian mode it is the exact GPS position.</li> <li>• If a vehicle is selected for route calculation and roads are near, the symbol is put on the nearest road.</li> </ul>
	Cursor (selected map location)	The location selected in the Destination menu, or a map point selected by tapping the map.
	Start point	The first point of the route. Normally if GPS position is available, it is the start point of the route. If there is no valid GPS position, Alpine Navigation Software uses the last known GPS position as the start point. When you are using a saved route, Alpine Navigation Software asks you if you want to use your GPS position or the first point in the saved route as the start point. You can also modify the start point in the Cursor menu. If you do so, automatic off-route recalculation needs to be turned off to keep the selected point as the start point. If automatic off-route recalculation is disabled for any of the above, tapping the  icon in the Turn Preview field not only initiates route recalculation from the current GPS position, but it will re-enable the automatic off-route recalculation as well.
	Waypoint	A waypoint is an intermediate destination. You can place as many waypoints as you want.
	Destination (end point)	The last point of the route, the final destination.
	Route colour	The route always stands out with its colour on the map, both in daytime and in night colour mode. The active leg of the route is always displayed in a brighter shade than the inactive (upcoming) legs.
	Active leg of the route	The section of the route on which you are driving. If you have not added any waypoints (only a destination), the entire route is the active leg. If you have added waypoints, the active leg is the part of the route from your current location to the next route point (the next waypoint, or the destination if there are no more waypoints to reach).
	Inactive legs of the route	The future sections of the route; each of them becomes active when you reach the waypoint at its

Symbol	Name	Description
		beginning.
	Streets and roads that are excluded from the navigation	You can choose whether you want to use or avoid certain road types (page 64). However, when Alpine Navigation Software cannot avoid such roads, the route will include them and it will show them in a colour that is different from the route colour.

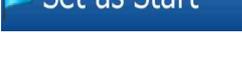
### 8.1.3 Cursor menu

As soon as you select one point in the Destination menu, the map appears with the Cursor menu, a menu with possible actions for the selected point.

Alternatively when you tap the map, control buttons appear. Tap again to place the Cursor ().

Now tap , and the Cursor menu opens with a list of options.

You can perform the following actions:

Button	Description
	Closes the Cursor menu, and returns to the previous screen.
	Displayed at the Cursor if it has been relocated since the Cursor menu was opened.
	Zooms out the map.
	Zooms in the map.
	With the Cursor menu open, you can still move or scale the map, and tap the map anywhere to place the Cursor to a new location, but when you use this button, the Cursor jumps back to the place where it was at the time when you opened the Cursor menu.
	Creates a new route with the Cursor as the destination. The previous route (if exists) is deleted.
	Opens the full-screen Cursor menu with all the possible options.
	The location of the Cursor is saved as the Home address.
	The Cursor is saved as a user POI. Select the POI group and give a name for the POI, then select a suitable icon, enter a phone number, and additional information if you like.
	The Cursor becomes the start point of the route. This means that the route is not started from the current GPS position, and Automatic Off-route Recalculation needs to be turned off to keep the selected point as the start point.
	If the Cursor is at or near the selected start point, this button replaces the previous one and deletes the start point from the route. The current GPS position is used again as the start point, and Automatic Off-route Recalculation is re-enabled.

Button	Description
	This button is similar to the  button, but a new screen opens, and the route is calculated with all the possible route calculation methods (Fast, Short, Economical and Easy). Observe the results, and choose one of the routes to navigate.
	The Cursor is added to the active route as an intermediate route point, a point to be reached before the destination. If there is already a waypoint in the route, the Edit Route screen opens to let you decide where the new waypoint is to appear in the route.
	If the Cursor is at or near one of the waypoints, this button replaces the previous one, and deletes the selected waypoint from the route. The route is recalculated without the deleted point.
	The location of the Cursor is added to the list of frequently visited destinations, the so called Favourites. You can give a name for the Favourite.

### 8.1.4 Route Information screen

The Route Information screen has all the data and some of the functions you need while you navigate. There are two ways to open this screen:

- It can be opened directly from the Map screen by tapping the Turn Preview field ().
- From any of the menu screens, tap the following buttons: , , .



In the top section of the screen you see information about the current route. The fields on this screen are continuously updated while you keep the screen open.

When you open the screen, all fields contain information about reaching your final destination. Tap any of the fields to see data on the waypoints starting from the first one through the final destination again.

You have the following data and functions on this screen:

Name	Description	Function
Route line	The upper part of this screen shows your planned route as a horizontal line. Its leftmost point is the start of the route, the rightmost one is the final destination, and you can see your waypoint flags along the line, spaced in proportion to their distance.	Tap this field to change the content of all data fields to waypoint information.
Estimated Arrival	Shows the estimated arrival time at the final	n/a

Name	Description	Function
	destination of the route based on information available for the remaining segments of the route. The calculation cannot take into account traffic jams and other possible delays.	
Time Left	Shows the time needed to reach the final destination of the route based on information available for the remaining segments of the route. The calculation cannot take into account traffic jams and other possible delays.	n/a
Distance Left	Shows the distance you need to travel on the route before reaching your final destination.	n/a
Method	This field shows how the route was calculated. It either displays the Route Calculation Method or the Vehicle field from the Route Planning options.  If you have chosen Car, Taxi or Bus, the type of the route (Fast, Short, Easy or Economical) will be displayed here; if you have selected Emergency, Bicycle or Pedestrian, this information will be displayed here.	n/a
Warning icons	In these square fields graphical symbols are displayed in case warnings are attached to the planned route. These are warnings, so icons always show information for the whole route, even if the data fields display values from your current position to a waypoint only.	Tap any of the icons for an explanation.
<b>Settings</b>		Opens the Route Planning options screen from the Settings menu.
<b>Remove Next Waypoint</b>	Appears only if at least one waypoint exists.	Deletes the next waypoint from the route.
<b>Delete Route</b>	Appears only if there are no waypoints in the route.	Deletes the active route.

### 8.1.5 Trip Information screen

The Trip Information screen has both route and travel data you might need during your journey. It can be opened directly from the Map screen by tapping the Trip Data field (  ).



The fields on this screen are continuously updated while you keep the screen open. All route data fields contain information about reaching your final destination.

**Set Info**

If you want to change the content of the three data fields on the Map screen, tap **Set Info**.  
 You have the following data and functions on this screen:

Name	Description
 or 	Shows whether the route data fields show information about the final destination (checkered flag) or about the next waypoint (yellow flag) .
Field next to the flag	Shows the name or number of the current street or road.
Turn Preview	Shows the type and distance of the next route event.
Compass	Shows the current heading.
Speedometer	Shows the current speed both graphically and as a number.
Distance Remaining	Shows the distance you need to travel on the route before reaching your final destination.
Time Remaining	Shows the time needed to reach the final destination of the route based on information available for the remaining segments of the route. The calculation cannot take into account traffic jams and other possible delays.
Arrival Time	Shows the estimated arrival time at the final destination of the route based on information available for the remaining segments of the route. The calculation cannot take into account traffic jams and other possible delays.
GPS Time	Shows the current time corrected with time zone offset. The accurate time comes from the GPS satellites, and the time zone information comes from the map or it can be set manually in Regional settings.
Altitude	Shows the elevation if it is provided by the GPS receiver.
Speed Limit	Shows the speed limit of the current road if the map contains it.
<b>Trip Computer</b>	Opens the Trip Computer screen.
<b>Set Info</b>	Tap this button if you want to change the content of the three data fields on the Map screen.

### 8.1.5.1 Trip Computer screen

The Trip Computer screen provides collected trip data. It can be opened from the Trip Information screen by tapping **Trip Computer**.

The fields on this screen are continuously updated while you keep the screen open.

You can switch between the trips, pause then resume them, or reset their data.

You have the following functions on this screen:

Button	Description
<b>Pause</b>	Pauses the trip currently shown on the screen. Values on the screen stop changing.
<b>Resume</b>	This button replaces the previous one if it has been activated. Tap it to resume collecting trip data.
<b>Reset</b>	Resets all counters of the currently shown trip. Collecting trip data is restarted only when Alpine Navigation Software receives a position from the GPS.
 , 	Cycles through all trips.

### 8.1.6 TMC Events screen

This function is not available in Handheld mode.

You can access the list of TMC events, and select or ignore specific radio stations in the list of Traffic

events. Tap the Traffic button on the Map screen. 

The colour of the Traffic button show the Traffic status:

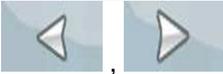
Colour	Description
	There are no new (unread) Traffic events in the list.
	There are new Traffic events but they are not concerning your recommended route.
	There are Traffic events on your route. They were handled, but it is better to take the concerned road segments rather than to avoid them.
	Manual Traffic handling is selected in Settings, and there are Traffic events on your route to be handled.

When you tap the button, the list of current TMC events is displayed first, ordered by their distance from your current position. You can change the content of the list:

Button	Description
All	All TMC events received by Alpine Navigation Software appear in the list.
On Route	Only TMC events concerning a part of your active route appear in the list.

To check the currently received FM radio station, to exclude radio stations or to manually tune to a

radio station, tap :

Button	Description
Use Auto-tuner	If Auto-tuner is enabled, the tuner of Alpine Navigation Software sweeps through the FM CCIR radio band searching for a TMC signal. The first station with TMC data will be used automatically. When no TMC signal is available, the tuner keeps on searching. Turn off Auto-tuner to select a radio station manually.
	When Auto-tuner is turned off, search for the desired radio station manually with these buttons.
Exclude This Station	Push this button to put the currently received FM radio station on an exception list, and make Alpine Navigation Software search for another station instead.
Show Excluded Stations	This button opens the list of radio stations previously excluded. You can re-enable any or all of the excluded stations.

### 8.1.7 GPS Data screen



Tap the status field  to open the GPS Data screen and to see the status of GPS reception.



Icon	Colour	Name	Description
	Green	GPS position quality indicator	Alpine Navigation Software has a connection to the GPS receiver and GPS position information is available in 3D: Alpine Navigation Software can calculate both your horizontal and vertical GPS position.
	Yellow		Alpine Navigation Software has a connection to the GPS receiver and GPS position information is available in 2D: only the horizontal position is calculated, Alpine Navigation Software cannot calculate your vertical GPS position.
	Grey		Alpine Navigation Software has a connection to the GPS receiver but GPS position information is not available.
	Red		Alpine Navigation Software has no connection to the GPS receiver. Since the device has a built-in GPS receiver, this status should not appear under normal circumstances.
	Green, blinking	GPS connection quality indicator	Alpine Navigation Software is connected to the GPS receiver.
	Yellow, blinking		Alpine Navigation Software has no connection to the GPS receiver but it is still trying to establish a connection.
	Red, blinking		Alpine Navigation Software has no connection to the GPS receiver and is not trying to establish a connection.
Sky view circle			The virtual sky shows the visible part of the sky above you, with your position as the centre. The satellites are shown at their current positions. The GPS receives data from both the green and yellow satellites. Signals from the yellow satellites are only received, while green ones are used by the GPS receiver to calculate your current location.

Icon	Colour	Name	Description
n/a	Coordinates		Your current GPS position in WGS84 format.
n/a	Status bar for the satellites		Dark bars are for the yellow and lit bars are for the green satellites. The more satellites your GPS tracks (the green ones), the better is your calculated position.

## 8.2 Destination menu



Select the destination of your route. Tap the following buttons:

Button	Description	Reference
Address	If you know at least a part of the address, this is the quickest way to find the location.	page 32
Home	You can select the previously saved Home location as your destination.	page 38
History	The destinations that you have already entered in Alpine Navigation Software are available in the History list.	page 39
POI	You can select your destination from the thousands of POIs included with Alpine Navigation Software or from the ones you have previously created.	page 38
Favourites	You can select a previously saved Favourite location as your destination.	page 38
Coordinate	You can select your destination by entering its coordinates.	page 40

## 8.3 Route menu



Save, load and edit your routes. Tap the following buttons:

Button	Description	Reference
Route Info	Opens a screen with useful route data.	page 52
Turn List	You can browse the driving instructions that Alpine Navigation Software follows during navigation. You can exclude manoeuvres or streets to adjust the route to your preferences.	page 26
Edit Route	You can modify the route: remove route points or change their order.	page 41

Button	Description	Reference
	You can modify the routing method used to calculate the recommended route.	
	Scroll to the next page of menu points.	
	You can load a previously saved route for navigation.	page 44
	You can save the active route for later use.	page 43
	Erase the active route with all its route points (start point, waypoints and destination). If you later decide that you need the same route, you will have to rebuild it from scratch.	page 42
	You can run a demonstration of the route at normal speed.	page 27

## 8.4 Edit menu

You can manage the content that Alpine Navigation Software stores. Tap the following buttons:



Button	Description	Reference
	Renaming or deleting Favourites	page 59
	Updating or deleting POIs Creating, updating or deleting POI groups Modifying POI visibility settings	page 59
	Renaming or deleting saved routes	page 60
	Recording, simulating, renaming or deleting track logs, assigning colour to them to be shown on the map	page 61

### 8.4.1 Manage Favourites

You can manage the list of your Favourites. Tap the following buttons:



Button	Description
Button with the name of the Favourite	Opens the selected Favourite for editing.
	Deletes the selected item in the list of Favourites.
<b>Clear All</b>	Clears the list of Favourites.
	Moves between pages for additional list items.

### 8.4.2 Manage POIs

You can manage your POIs, and set POI visibility for both your POIs and the ones that came with the product. Tap the following buttons:



Button / Icon	Description
Button with the name of the POI group	Opens the list of the subgroups of this POI group. The new list behaves the same as this one.
Button with the name and address of a POI item	Opens the selected POI for editing. Only the POIs you have created appear in this list.
<b>Edit</b>	Opens the selected POI group for editing.
<b>My POI</b>	Tap to filter the list to contain only the POIs that you saved.
<b>All</b>	Tap to see all POIs in the list.
<b>New Group</b>	Creates a new POI group at the given group level.
	Moves between pages for additional list items.

When a POI group is open for editing:

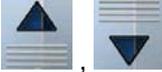
Button	Description
	Items in the POI group will not be shown on the map.
  , ...	The distance buttons set the zoom level from which the items in the POI group will be shown on the map.
	Subgroups under the edited POI group will inherit the visibility settings of the POI group.
Button with the icon of the POI group	Tap this button to select a new icon for the POI group.
	Tap this button to rename the POI group.
	Deletes the edited POI group. You are only allowed to remove POI groups that you have created.

When a POI item is open for editing:

Button	Description
Button with the name of the POI	Tap this button to rename the POI.
Button with the icon of the POI	Tap this button to select a new icon for the POI.
Button with the address of the POI	Tap this button to modify the location of the POI. Select a new location on the map and tap  to relocate the POI.
Phone Number	Tap this button to enter a telephone number for the POI.
Additional Info	Tap this button to enter additional information for the POI.
	Tap this button to delete the selected POI.
	Tap this button to move the POI to another POI group or subgroup.

### 8.4.3 Manage Saved Routes

You can manage the previously saved routes. Tap the following buttons:   , 

Button	Description
Button with the name of the saved route	Opens the selected route for editing.
	Deletes the selected route.
	Clears the list of saved routes.
	Moves between pages for additional list items.

### 8.4.4 Manage Track Logs

You can record Track Logs, then play them back, display them on the map, and view their details.

Tap the following buttons: ,  Edit,  Track Logs.

Button	Description
	Starts recording the track that you drive.
	Stops the ongoing Track Log recording.
Button with the name of the track log	Shows the details of the selected Track Log.
	Starts a simulated playback of the selected Track Log on the map.
	Moves between pages for additional list items.

When track log details are shown:

Button	Description
Button with the name of the Track Log	Opens a keyboard screen to let you rename the Track Log.
	Tap this button to hide the Track Log on the map. No colour will be assigned to the Track Log.
	Tap one of the coloured buttons to assign a colour to the Track Log. The Track Log will be shown on the map with this colour.
	The map returns with the Track Log. The map is scaled to show the whole Track Log.
	Deletes the selected Track Log.
	Saves the Track Log on the inserted memory card in GPX format.

### 8.5 Settings menu

You can configure the program settings, and modify the behaviour of Alpine Navigation Software. Tap

the following buttons: ,  Settings.

The Settings menu has more pages of submenus. Tap  to access the other options.



Button	Description	Reference
Map Screen	You can fine-tune the appearance and content of the Map screen.	page 62
Sound	You can adjust the sounds of Alpine Navigation Software.	page 63
Route Planning	These settings determine how routes will be calculated.	page 64
Regional	These settings allow you to customise the application for your local language, measurement units, time and date settings and formats, as well as to choose the voice guidance profile you prefer.	page 66
Display	You can fine-tune display related settings in this menu.	page 67
Navigation	You can control how Alpine Navigation Software behaves during navigation.	page 67
Warnings	You can enable and fine-tune some useful warnings.	page 68
GPS	You can open the GPS Data screen.	page 69
TMC	You can select the FM radio station to be received for TMC messages.	page 69
Track Logs	You can set up automatic Track Log saving and fine-tune related settings.	page 70
User Data Management	You can manage the data you have saved (e.g. POIs, Favourites or History) and the settings you have made in the program.	page 70
Bluetooth	You can connect the Blackbird to your mobile phone as a hands-free device to make phone calls.	page 71
FM Transmitter	Select a suitable frequency, and tune your car stereo to the same position. You can hear the voice prompts of Alpine Navigation Software as well as the music played with the multimedia application of your Blackbird through your car speakers.	page 71
About	This screen has no navigation feature. It merely provides information about the maps and licenses included with your navigation system.	

### 8.5.1 Map Screen settings

You can fine-tune the appearance and content of the Map screen. Tap the following buttons:



Button	Description
3D Settings	Use 3D settings to determine which of the present 3D objects are shown on the map, and adjust the level of 3D visual detail. The options

Button	Description
	<p>are as follows:</p> <ul style="list-style-type: none"> <li>Landmarks: Landmarks are 3D artistic or block representations of prominent or well-known objects. 3D landmarks are only available in selected cities and countries.</li> <li>Elevated Roads: Complex intersections and vertically isolated roads (such as overpasses or underground tunnels) are displayed in 3D.</li> <li>3D Auto Zoom: Turn on or off the Auto Zoom feature in 3D map view mode.</li> </ul>
Colour Profiles	Alpine Navigation Software is able to show the map and the menus in different colours during the day and during the night. Select the colour profiles to be used in each mode, and select the automatic or manual switching between the daytime and night colour profiles.
Elevation on 2D Map	2D maps can also display 3D information. These top-down maps can display elevation by colours and shading.
Street Names During Navigation	Street names and POI icons can be disturbing on the map during navigation. With this switch you can suppress these map elements when Alpine Navigation Software is following your position on the map. If you move the map, both the street names and POI icons reappear immediately.
2D Auto Zoom Level	Turn off or set the zoom level of the Auto Zoom feature in 2D map view modes.

### 8.5.2 Sound settings

You can adjust the sounds of Alpine Navigation Software. Tap the following buttons:



Button	Description
Master Volume	Use the switch to mute all sounds of the device and then to re-enable them again. The position of the slider determines the volume level. This setting is not available in Docking mode. Use the controls of the Alpine Mobile Media Station.
Voice Guidance Volume	The slider adjusts the loudness of voice prompts. In its leftmost position, the voice guidance is suppressed; in its rightmost position, the master volume applies. This setting is not available in Docking mode. Use the controls of the Alpine Mobile Media Station.
Key Beep	<p>Key sounds provide audible confirmation of either pressing hardware buttons or tapping the touch screen.</p> <p>The switch turns key sounds on or off. Key sounds are played at the master volume level.</p>
Dynamic Volume	When driving at high speed, the noise in the car may be too loud to

Button	Description
	clearly hear the voice guidance and other sounds. Using Dynamic Volume you can instruct Alpine Navigation Software to increase the volume when your speed exceeds a certain minimum, and reach its highest volume at the given maximum speed.
Navi Mix Volume	The slider adjusts the volume of the Music Player compared to the navigation sounds. This setting is not available in Docking mode. Use the controls of the Alpine Mobile Media Station.

### 8.5.3 Route Planning options

These settings determine how routes will be calculated. Tap the following buttons:



Button	Description
Vehicle	You can set the type of vehicle you will use to navigate the route. Based upon this setting, some of the road types can be excluded from the route, or some of the restrictions may not be taken into account in route calculation.
Road Types Used for Route Planning	To let the route fit your needs, you can also set which road types are to be considered for or to be excluded from the route if possible.  Excluding a road type is a preference. It does not necessarily mean total prohibition. If your destination can only be accessed using some of the excluded road types, they will be used but only as much as necessary. In this case a warning icon will be shown on the Route Information screen, and the part of the route not matching your preference will be displayed in a different colour on the map.
Route Calculation Method	You can choose from different route types. The routing method can be changed temporarily while creating the route: when the destination is selected, tap  in the Cursor menu.
TMC Reroute Method	This setting determines how Alpine Navigation Software uses the received TMC information in route recalculation: <ul style="list-style-type: none"> <li>• Auto: When route recalculation becomes necessary based on the received TMC events, Alpine Navigation Software recalculates the route automatically.</li> <li>• Manual: When route recalculation becomes necessary based on the received TMC events, Alpine Navigation Software notifies you, but you can decide whether to recalculate the route or not.</li> <li>• Off: TMC events are only taken account when the route is recalculated in an off-route situation.</li> </ul>

**Vehicle types:**

- Car
- Taxi
- Bus
- Emergency vehicles
- Bicycle
- Pedestrian

**Road Types Used for Route Planning:**

<b>Type</b>	<b>Description</b>
Motorways	You might need to avoid motorways when you are driving a slow car or you are towing another vehicle.
Unpaved roads	Alpine Navigation Software excludes unpaved roads by default: unpaved roads can be in a bad condition and usually you cannot reach the speed limit on them.
Per-use Toll	By default Alpine Navigation Software includes toll roads (pay roads where there is a per-use charge) in the routes. If you disable toll roads, Alpine Navigation Software plans the best toll-free route.
Period Charge	Charge roads are pay roads where you can purchase a pass or vignette to use the road for a longer period of time. They can be enabled or disabled separately from toll roads.
Permit needed	You might need a permit or permission from the owners to use certain roads or to enter certain areas.  Alpine Navigation Software excludes these roads from the route calculation by default.
Ferries	Alpine Navigation Software includes ferries in a planned route by default. However, a map does not necessarily contain information about the accessibility of temporary ferries. You might also need to pay a fare on ferries.
Cross-border planning	In some cases the route calculated according to your other navigation and route preferences would lead through another country. If you wish to always stay within the same country, turn this option off.

**Route Calculation Method types:**

<b>Option</b>	<b>Description</b>
Fast	Gives the quickest possible route if you can travel at or near the speed limit on all roads. Usually the best selection for fast and normal cars.
Short	Gives a route that has the smallest total distance of all possible routes between the route points. Usually practical for pedestrians, cyclists or slow vehicles.

Option	Description
Economical	Combines the benefits of Fast and Short: Alpine Navigation Software calculates as if it were calculating the Fast route, but it takes other roads as well to save fuel.
Easy	Results in a route with fewer turns. With this option, you can make Alpine Navigation Software to take, for example, the motorway instead of series of smaller roads or streets.

### 8.5.4 Regional settings

These settings allow you to customise the application for your local language, measurement units, time and date settings and formats, as well as to choose the voice guidance profile you prefer. Tap

the following buttons: , , .

Button	Description
Program Language	This button displays the current written language of the Alpine Navigation Software user interface. By tapping the button, you can select a new language from the list of available languages. The application will restart if you change this setting; you are asked to confirm this.
Voice Profile	This button shows the current voice guidance profile. By tapping the button, you can select a new profile from the list of available languages and speakers. Tap any of these to hear a sample voice prompt. Just tap OK when you have selected the new spoken language.
Units	You can set the distance units to be used by the program. Alpine Navigation Software may not support all the listed units in some voice guidance languages. If you select a measurement unit not supported by the chosen voice guidance language, a warning message will appear.
Set Date & Time Format	You can set the date and time format. Various international formats are available.
Time and Time Zone Settings	You can access time and time zone settings. Alpine Navigation Software helps you with correcting the device time to the ever accurate GPS time. Alpine Navigation Software can also help you set the time zone based on your current GPS position.

### Time and Time Zone Settings:

Button	Description
Auto Time Correction to GPS	Use this feature to synchronise the clock of your device to the highly accurate time provided by the GPS receiver.
Use Auto Time Zone	Use this feature to synchronise the time zone of the clock of your device to the time zone based on your current GPS position. This is useful if you travel abroad.
Set Time Zone	Set time zone manually if you do not want to synchronise the time zone automatically. This allows you to use Auto Time Correction and

Button	Description
	apply a time zone offset to obtain the desired time.
Compare GPS and device times	The current time of the GPS receiver and the device clock are displayed. Please note that the GPS clock is only available with GPS reception. This allows you to check whether any correction is needed.

### 8.5.5 Display settings

You can fine-tune device related settings in this menu. Tap the following buttons:



Button	Description
Power Management	You can set how the backlight will behave when the screen has not been touched for a while. You have the following options: <ul style="list-style-type: none"> <li>• Backlight Always On: The screen is continuously lit.</li> <li>• Smart: When running on battery, Smart Powersave will light up the screen only when you press a button, tap the screen, or if there is something to show you. After a few seconds the light level decreases, and after another few seconds the backlight turns off. This helps achieve a longer battery life.</li> </ul>
Brightness at Daytime	You can set the backlight level for daytime use.
Brightness at Night	You can set the backlight level for night use.
Screen Adjustment	You can fine-tune the position of the screen content on the display. Tap this button, use the arrows to reposition the application window,  and then tap  to save the changes and exit. This setting is available in Docking mode only.
Remote Control	By turning on the remote control unit reception, you also turn on the menu highlights. There will always be a highlighted (i.e. selected) menu point in all menus. Use the direction buttons of the remote control to move the highlight.

### 8.5.6 Navigation settings

You can control how Alpine Navigation Software behaves during navigation. Tap the following



Button	Description
Keep Position on Road	This feature allows car drivers to always correct GPS position errors by matching the vehicle position to the road network. For pedestrian navigation, this feature is automatically disabled to let

Button	Description
	<p>the software show your exact position.</p> <p>By turning off this feature you also turn off the GPS position error filtering. The position shown on the map will be subject to all position errors and position fluctuations.</p>
Off-route Recalculation	<p>This switch tells Alpine Navigation Software whether to automatically recalculate the route when you deviate from it. If this feature is turned off, you need to initiate route recalculation manually otherwise navigation will be stopped until you return to the originally recommended route.</p> <p>Setting another point than the current GPS position as the start point of the active route will automatically disable this feature.</p>
Restore Lock-to-Position	<p>If you have moved or rotated the map during navigation, this feature moves the map back to your current GPS position and re-enables automatic map rotation after the given period of inactivity.</p>

### 8.5.7 Warning settings

You can enable some useful warnings, and disable the touch screen in a moving vehicle with Safety Mode. Tap the following buttons:



Button	Description
Warn When Speeding	<p>Maps may contain information about the speed limits of the road segments. Alpine Navigation Software is able to warn you if you exceed the current limit. This information may not be available for your region (ask your local dealer), or may not be fully correct for all roads in the map. This setting lets you decide whether you wish to receive the warnings. You can set the relative speeding level at which the application warns you (100% represents the current speed limit):</p> <ul style="list-style-type: none"> <li>• In Built-up Areas: in cities and towns</li> <li>• Elsewhere: at all other locations</li> </ul> <p>There are two types of warnings. You can turn them on or off independently:</p> <ul style="list-style-type: none"> <li>• Audible Warning: A voice message is played using the selected voice guidance profile.</li> <li>• Visible Warning: A symbol with the speed limit appears in the corner of the map (for example: ).</li> </ul>
Speed Camera Warning	<p>This feature allows you to receive a warning when approaching a Road Safety Camera. You must ensure on your own liability that using this feature is legal in the country where you intend to use it. You have the following options:</p> <ul style="list-style-type: none"> <li>• Audible Warning: beeps can be played while you are approaching the camera, or just alert sounds if you exceed the speed limit while approaching one of these cameras.</li> <li>• Visible Warning: the type of the camera and the monitored</li> </ul>

Button	Description
	<p>speed limit appear on the Map screen while you are approaching one of these cameras.</p> <p>This button is not displayed when GPS position is not available or if you are in certain countries where Road Safety Camera warning is prohibited. Even if the button is available, you are responsible for checking whether it is legal to use this feature at your location.</p>
Warn if Too Fast for a Pedestrian	<p>Enable this warning to be alerted if pedestrian mode is activated and you drive fast. You are asked if you want to change to car navigation mode. This way you can be sure you will not be routed via one-way roads in the wrong direction as a pedestrian could, for example.</p>

### 8.5.8 GPS

You can open the GPS Data screen. Tap the following buttons: , , , .

### 8.5.9 TMC

You can select the FM radio station to be received for TMC messages. Tap the following buttons: , , , , .

Button	Description
Use Auto-tuner	<p>If Auto-tuner is enabled, the tuner of Alpine Navigation Software sweeps through the FM CCIR radio band searching for a TMC signal. The first station with TMC data will be used automatically. When no TMC signal is available, the tuner keeps on searching. Turn off Auto-tuner to select a radio station manually.</p>
 , 	<p>When Auto-tuner is turned off, search for the desired radio station manually with these buttons.</p>
Exclude This Station	<p>Push this button to put the currently received FM radio station on an exception list, and make Alpine Navigation Software search for another station instead.</p>
Show Excluded Stations	<p>This button opens the list of radio stations previously excluded. You can re-enable any or all of the excluded stations.</p>

### 8.5.10 Track Log settings

You can set up automatic Track log saving, and fine-tune related settings. Tap the following buttons:

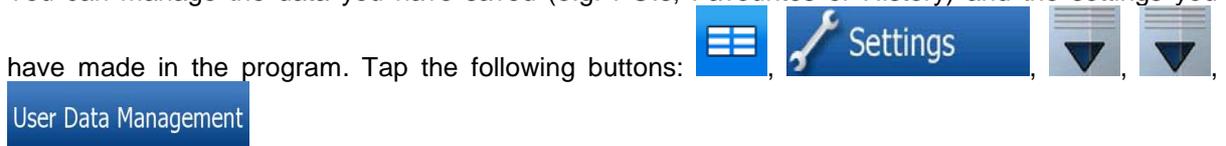


Button	Description
Update Interval	This determines how often track points will be saved. Position information is normally received once a second from the GPS. If you do not need such a detailed log, you can increase this number to save track log space.
Enable Auto-saving	When auto-saving is enabled, you do not need to turn track log saving on and off manually. Alpine Navigation Software will automatically start recording the track log as soon as GPS position is available.
Track Log Database Size	This figure shows how much memory is used by the automatically saved track logs.
Track Logs Max. Size	You can set the maximum database size for the automatically saved track logs. When the limit is reached, the oldest automatically saved track logs will be deleted.
Create NMEA/SIRF Log	Independently of the normal track log, you can instruct Alpine Navigation Software to record the native GPS data received from the GPS device. These logs are saved as separate text files on an inserted memory card, and they cannot be shown or replayed in Alpine Navigation Software.

### 8.5.11 User Data Management

You can manage the data you have saved (e.g. POIs, Favourites or History) and the settings you

have made in the program. Tap the following buttons:



Button	Description
Backup User Data	All user data and the current settings will be saved on the inserted memory card. There is always one backup file. If you perform a backup later, the previous backup will be overwritten with the new information.
Restore User Data	All user data and settings will be overwritten with the information stored in the backup file. Data and settings created after the latest backup will be lost.
Reset All Settings	All settings will return to their factory defaults, but no user data will be deleted. The application needs to restart.

### 8.5.12 Bluetooth settings

You can connect the Blackbird to your mobile phone as a hands-free device to make phone calls. Tap

the following buttons: , , , , .

### 8.5.13 FM Transmitter settings - available in Cradle mode

In Cradle mode you can also access the FM transmitter of the Blackbird. Select a suitable frequency, and tune your car stereo to the same position. You can hear the voice prompts of Alpine Navigation Software as well as the music played with the multimedia application of your Blackbird through your

car speakers. Tap the following buttons: , , , , .

Button	Description
FM Transmitter	Turn the built-in FM Transmitter on or off.
Frequency displayed	The transmitter, when turned on, transmits on the displayed frequency. Tap the field to change the frequency to a more suitable one.

## 9. Phone

Once you have connected your Bluetooth-enabled mobile phone to Blackbird (see chapter 9.2.1 Pairing your Bluetooth-enabled mobile phone), it is possible to access the phonebook and call history information and place and receive calls via Blackbird.

### 9.1 Access of Phone Menu from the Navigation Menu

From the "Navigation Menu", select "Phone" to access the "Bluetooth" Menu or press the inner ring of the navigation wheel hard key.

### 9.2 Bluetooth

#### 9.2.1 Pairing your Bluetooth-enabled mobile phone

- Go to Bluetooth "Settings" and enable Bluetooth. Please make sure that Bluetooth is switched on and your mobile phone is in visible mode. Press "Search Devices" to add a new phone. Blackbird is now searching for Bluetooth-enabled devices.
- A list will finally be displayed after the search is finished. Select your mobile phone to initialise the pairing process.
- Enter your passcode. Type in any number from 1 to 8 digits\*, then press "OK". Enter the same number on your mobile phone to reconfirm the passcode.
  - \* depends on the mobile phone used
- The inner ring of the navigation wheel hard key on Blackbird will remain illuminated, indicating your mobile phone is connected.

#### 9.2.2 Placing Calls

Go to "Navigation Menu" → "Phone".

##### Using the 12 key Dial Pad

Touch "Dial". Enter the phone number and touch the button "Dial".

##### Using your Phonebook

Touch "Phonebook".

The Phonebook entries are sorted alphabetically. To directly call an entry of the list touch the desired contact. Touch "Keypad" and enter any character or number to directly access the Phonebook starting from the desired character or number.

To delete an entry touch the red "x" beside the contact. The entry will be deleted after selecting "Yes" in the confirmation dialog.



To delete the complete phonebook touch “Delete All”. All entries will be deleted after selecting “Yes” in the confirmation dialog.

To download the phonebook again from your mobile phone, touch the button “Download P.Book”. During phonebook download the button will be greyed out.

Note: It may take a few minutes to transfer all data from your mobile phone to Blackbird.

**Using Received, Missed or Dialed Calls from Call History**

Touch “Call History” to access the call lists. Touch “Received Calls”, “Missed Calls” or “Dialed Numbers”. A list of the selected call history will appear.

To directly call an entry of the list touch the desired contact.

To delete all entries of the call history, touch “Delete All” and press “Yes” in the confirmation dialog.

**9.2.3 Receiving Calls**

When your mobile phone is connected with Blackbird, a popup screen will appear to signal an incoming call. The caller ID number will be displayed if available. The user can either “Accept” or “Reject” the call.

During an active call, the caller ID name, phone number and call duration are displayed. The following options are also available from this menu:

**Mic.**

This allows you temporarily to mute the microphone so you can still hear the caller, but the caller cannot hear you.

**Hang Up**

This ends the current phone call. After ending a call you will automatically be returned to the previous menu.

**Transfer to Phone**

You can transfer the call from Blackbird to your mobile phone and back to Blackbird for more flexibility.

**Keypad**

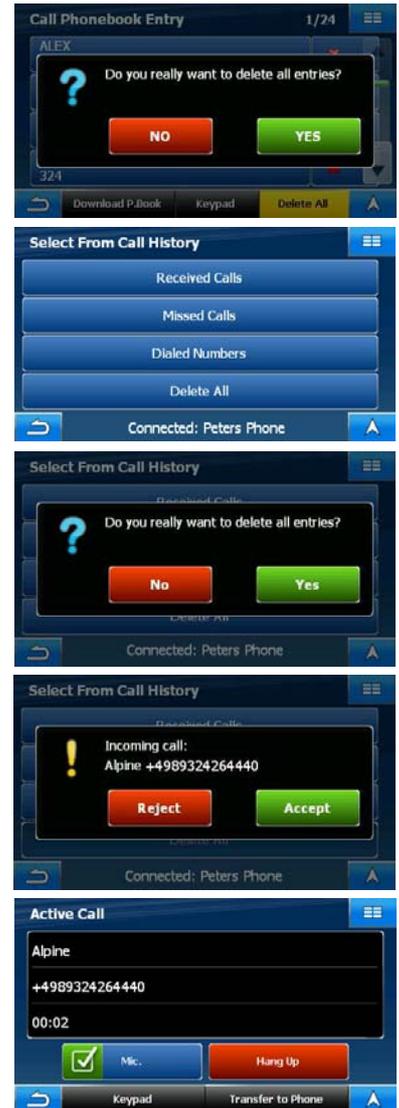
Pressing this button opens a keypad allowing sending DTMF codes.

**9.3 Bluetooth Settings**

In the “Settings” menu Bluetooth functions can be configured. The menu can be accessed either via the “Navigation Menu” → “Phone” → “Settings” or from the “Navigation Menu” → “Settings” → “Bluetooth”.

**9.3.1 Bluetooth Enabled**

Touch this button to switch Bluetooth on or off.



### 9.3.2 Auto Connect

When "Auto Connect" is switched on Blackbird tries to reconnect to the last connected mobile phone automatically during bootup.

### 9.3.3 Auto Answer

When "Auto Answer" is activated, Blackbird will accept automatically incoming calls after six seconds. Otherwise the user has to accept calls manually.

### 9.3.4 Auto Phonebook Download

Activated, the phonebook and call history lists of your mobile phone will be automatically downloaded\* each time a Bluetooth connection between Blackbird and the phone is established. Phonebook and call history lists can also be downloaded manually\* in the "Bluetooth" → "Phonebook" menu by pressing the button "Download P.Book".

\* depends on the mobile phone used

### 9.3.5 Search Device

Pressing this button initialises the search for Bluetooth-enabled devices. Note: Bluetooth must be activated in the mobile phone.

A list of devices shows the searching results. Select the required mobile phone within this list. (see chapter 9.2.1 Pairing your Bluetooth-enabled mobile phone for more details).

"Search Again" will re-initialise the searching process.

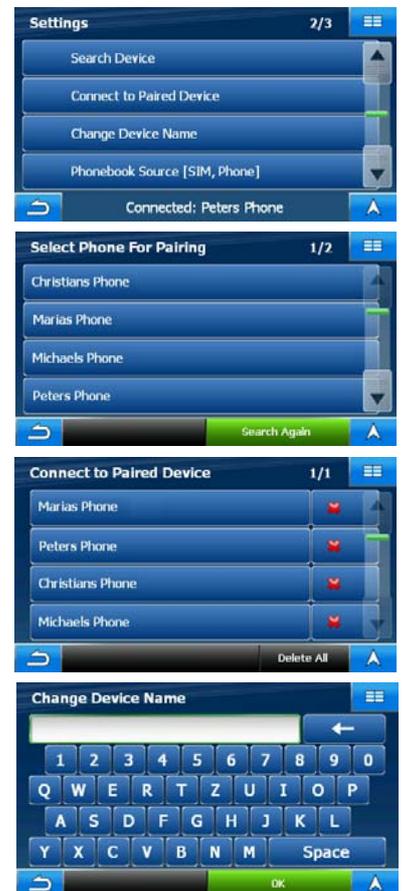
### 9.3.6 Connect to Paired Device

This list shows names of devices that have already been paired with Blackbird. Connection can be re-established by selecting an entry. Touching the red "x" deletes the device from the list.

To delete the complete list touch "Delete All".

### 9.3.7 Change Device Name

Accessing this menu, the device name can be changed by typing in any name on the keypad. Press "OK" to save the new name.



### 9.3.8 Phonebook Source

Press this button to select the source of downloading phonebook entries from your mobile phone. Options are from the SIM card [SIM] – from the memory of the mobile phone [Phone] – and from both media [SIM,Phone].

### 9.3.9 Visible

Active, Blackbird is visible for other Bluetooth-enabled devices.

Inactive, Blackbird is hidden and cannot be found by other Bluetooth-enabled devices in searching process.



### 9.3.10 Factory Reset

Press this button to initialise a reset of the Bluetooth Application.

### 9.3.11 About

Touching this button shows the information screen. Copyright information, the Bluetooth Application Version as well as the Bluetooth Firmware Version are displayed here.



## 9.4 Bluetooth Indicator Light

When Blackbird is inserted in its cradle or is being used in handheld mode, the smaller blue LED light surrounding the inner ring of the navigation wheel hard key will indicate the Bluetooth condition as follows:

### Bluetooth Connected

When Bluetooth is on and connected the light will remain on.

### Incoming Call

Three quick flashes indicate an incoming call.

### Active Call

The light will continue to slowly pulse during an active call.

## 10 Glossary

### 2D/3D GPS reception

The GPS receiver uses satellite signals to calculate its (your) position and needs at least four signals to give a three-dimensional position, including elevation. Because the satellites are moving and because objects can block the signals, your GPS device might not receive four signals. If three satellites are available, the receiver can calculate the horizontal GPS position but the accuracy is lower and the GPS device does not give you elevation data: only 2D reception is possible.

### Active route

The currently navigated route. You can save and load routes in Alpine Navigation Software, but only one route can be active at any given time, and it is always active until you delete it, reach your destination or you quit Alpine Navigation Software. See also: Route.

### City Centre

The City Centre is not the geometric centre of the settlement but an arbitrary point the map creators have chosen. In towns and villages, it is usually the most important intersection; in larger cities, it is an important intersection.

### GPS accuracy

Several factors have impact on the deviation between your real position and the one given by the GPS device. For example, signal delay in the ionosphere or reflecting objects near the GPS device have a different and varying impact on how accurately the GPS device can calculate your position.

### Map

Alpine Navigation Software works with digital maps which are not simply the computerised versions of traditional paper maps. Similarly to the paper road maps, the 2D mode of digital maps show you streets, roads, and elevation is also shown by colours.

In 3D mode, you can see the altitude differences, for example valleys and mountains, elevated roads, and in selected cities 3D landmarks and 3D buildings are also displayed.

You can use digital maps interactively: you can zoom in and out (increase or decrease the scale), you can tilt them up and down, and rotate them left and right. In GPS-supported navigation, digital maps facilitate route planning.

### North-up map orientation

In North-up mode the map is rotated so its top always faces North. This is the orientation in 2D North-up view mode. See also: Track-up map orientation.

## **Route**

A series of destinations to be reached one after the other. A simple route contains one start point and only one destination. Multi-point routes contain one or more waypoints (intermediate destinations). The last route point is the final destination and the route is cut into different legs (from one destination to the next).

## **Scheme**

Alpine Navigation Software comes with different colour schemes for the map for daytime or night use. Schemes are custom graphic settings for the map and they can have different colours for streets, blocks or surface waters in 2D and 3D modes, and they display shades or shadows in different ways in 3D mode.

One daytime scheme and one night scheme is always selected. Alpine Navigation Software uses them when it switches from day to night and back.

## **Track-up map orientation**

In Track-up mode the map is rotated so its top always points in the current driving direction. This is the default orientation in 3D map view mode. See also: North-up map orientation.

## **Road Safety Camera**

A special POI type for speed cameras and red light cameras. Different data sources are available, and you can also mark the position of a Road Safety Camera on the map.

You can configure Alpine Navigation Software to warn you when you approach one of these cameras.

Detecting the location of Road Safety Cameras is prohibited in certain countries. It is the sole responsibility of the driver to check whether this feature can be used during the trip.

## 11 In Case of Difficulty

If you encounter a problem, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise make sure the rest of your system is properly connected, batteries are completely charged and contact your authorised ALPINE dealer.

### Unable to play Music from SD card

Not all SD cards are compatible with Blackbird.

### Unable to use Phone feature

Some Bluetooth-enabled phones may not be compatible and some features may not be available even after synchronising and pairing.

### The vehicle's position is erroneous

Reset the unit and drive the vehicle in an area of good GPS reception to allow the unit to recalibrate itself. Move to a location where strong GPS reception is possible.

### No operation

Moisture condensation → Allow enough time for the condensation to evaporate (about 1 hour).

Ambient temperature → Lower the temperature in the vehicle to below 45°C over 45°C (113°F) (113°F) by driving with the windows open or air conditioner on.

Blown fuse → Replace with a fuse of the prescribed rating (2A glass-type fuse located in the head of the cigarette lighter adapter).

### Unit does not work after removing from cradle or dock

Make sure the battery is fully charged. Unit does not charge in cradle or dock while the ignition is turned off.

### Low RDS-TMC signal

In order to improve the RDS Traffic signal strength, you may need to separate the RDS antenna away from the power cord on the Cradle. Carefully follow these instructions:

- Power off the unit and unplug the Cigarette Lighter Charger.
- Identify the RDS antenna. It is the thin, black, insulated wire that runs the full length of the thicker power cord.
- Carefully cut the thin RDS antenna at the point where it enters the connector that attaches it to the Cigarette Lighter Charger. Be careful ONLY to cut the antenna, not the larger main power cable.
- Slowly peel the antenna away from the power cord to leave about 130 cm of the antenna separated and hanging free.
- Place antenna on the vehicle dashboard or for best results, mount the antenna to the windshield.

## 12 In the Box

### Accessories

- Cradle with Cigarette Lighter Charger
- AC Adapter
- USB Cable
- Carrying Case
- Quick Reference Guide
- Dummy SD Card (Inside Main Unit)
- Power Plugs for Europe and the UK
- Cradle Mounting Plate
- External GPS Antenna
- External Microphone

### Optional Accessories

The following accessories are available from your authorised ALPINE dealer.

- **IVA-W205R/IVA-W505R** – An ALPINE AV head unit with a built-in dock to integrate your Blackbird as a part of your vehicle.
- **PMD-DOK2** – A Docking Station that allows you to connect and experience Blackbird navigation and music player from your ALPINE Multimedia Station or stand-alone display.
- **RUE-4135** – A combination navigation and audio remote control that allows you to control most of Blackbird's navigation features wirelessly.

## 13 Specifications

<b>Main Unit Size</b>	145mm x 74mm x 29mm (6.1" x 2.9" x 1.2")
<b>Main Unit Weight</b>	227 g (8 oz)
<b>CPU</b>	SiRF Atlas III
<b>GPS</b>	Embedded 16 channel GPS, Built-In Main Unit Antenna with Optional External Antenna Connection
<b>Storage Media</b>	Built-In flash memory with Pre-Loaded Maps of Western and Eastern Europe
<b>Card Slot</b>	Secure Digital (SD) or Multimedia Card (MMC) for playback of music (Ogg/Vorbis *.ogg) and pictures (*.bmp / *.jpg)
<b>Audio</b>	Integrated speaker in main unit, amplified speaker in cradle, stereo headphone jack, optional docking station audio output
<b>FM Transmitter</b>	Built-in cradle, up to 12 selectable frequencies
<b>RDS-TMC Tuner</b>	Built-in main unit with antenna in cradle power cable
<b>USB Interface</b>	2.0
<b>Power Requirements</b>	
<b>Handheld Mode</b>	5V @ 1A (via 1100 mAh Li-Polymer Battery, approximately 2 hours of continuous use)
<b>Cradle Mode</b>	12 VDC @ 2A (via Cigarette Lighter Adapter)
<b>Fuse</b>	AGC/3AG -2Amp
<b>Operating Temp</b>	0° to +60°C (32° to 140°F)
<b>Storage Temp</b>	-25° to +70°C (-13° to 158°F)
<b>Display</b>	
<b>Screen Size</b>	4.0" diagonal
<b>Resolution</b>	QWVGA 480 x 272 pixels
<b>Display Type</b>	Digital TFT display with anti-glare touch screen
<b>Brightness</b>	320 nits (typical)

**Note:**

Due to continuous product improvement, specifications are subject to change without notice.



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