Please write your phurchasing date down here, which is needed for custom service and registration at our web site.

User's Manual

# USER'S MANUAL

- **Navigation function**
- **Audio player function**
- **Game function**
- **Aux function**
- **Video Player function**
- **Image Viewer function**

★ Please, be sure to read the 'Safety Precautions' carefully before using this product.

★ Limited warranty is included in this User's Manual.

★ Specifications and design are subject to change without notice.

# Navigation

## Thank you for purchasing our product.

Navigation System User' s Manual is designed to support convenient usage of the navigation system and safe driving. Please read the manual carefully before using the product for safe usage.

The content of this manual can vary according to the navigation system version, and function or performance of the navigation system and this manual are subject to change without prior notice for user' s convenience.

## Make sure to read this manual for safe driving.

Please comply with the following instructions to prevent the property loss of the driver and user.

| | |
|---|---|
| Warning | Do not set or search for a destination while you' re driving. Make sure to park at a safe place before operating this device. |
| Warning | It is very dangerous to operate the navigation system or look at the screen while you' re driving. Be careful of surrounding traffic conditions or pedestrians if you have to operate the system while you' re driving. |
| Warning | Voice guide and map route can be different from actual road conditions. Ensure to comply with the actual road signal system and traffic regulations for safe driving. |

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# 1. Directions before using this product

Read this "User' s Manual" without fail before using this product to use this product safely.

## 1-1. Usage directions

| | |
|---|---|
| Warning | Refrain from operating the product in motion. Please park the car at a safe location when operating the product, because there is danger of a traffic accident. |
| Warning | Voice guide and map route can be different from the actual road condition. Ensure to comply with the actual road signal system and traffic regulation for safe driving. |
| Warning | If you modify the car to install this system, safe driving can be endangered. |
| Warning | Navigation system will not be liable for any damages arising out of any use of this product. The user will bear the sole responsibility. |
| Warning | Applied windshield suction cup mount(suction cup) can be remove from the front windshield by vibration, sudden temperature changes, unexpected shock and etc. If suction cup is drops suddenly by unexpected reason the navigator and/or your car can be damaged. |
| Caution | Do not use this product for a long time after stopping the engine. The car battery can be discharged completely. |
| Caution | Do not use other cables than those provided. Turn off the power when connecting the external cable like A/V input, stereo output, and indoor TV antenna. If you connect the cable while the power is on, the product can be damaged. |
| Caution | Do not disassemble or apply shock to this product. |
| Caution | Touch the touch panel with a round edge object or fingertip softly. If you press the touch screen strongly with a sharp and hard object, it can damage the product. |
| Caution | Turn off the power and use the clean and dry cloth when cleaning the screen. Keep the screen away from water or chemical substance like detergent or solvent. |
| Caution | While Audio player, Video player or Navigation is operating, if you remove the SD Card memory, system will be get into unstable situation. Please don' t remove SD Card memory during playback. If system is unstable because SD Card memory is removed, turn off the system and reboot. |

## 1-2. Installation directions

| | |
|---|---|
| Warning | Connect the wires properly by referring to "Installing product" section. Otherwise, malfunction or accident may occur. |
| Warning | Do not install the product in a position where driving can be interfered or driver' s field of vision can be blocked. |
| Warning | Install the product in a position that does not interfere with driving or safety devices like an air bag. |
| Caution | Use only the connection cable for vehicle that was provided at the time of product purchase to ensure stable system operation. |
| Caution | This product must be used with 12V car power only. Do not use 24V power. |
| Caution | Do not install the product in a place with water, humidity, vapor, dust, oil, or smoke. |
| Caution | Some functions of this system are disabled for driver' s safety when the car is in motion. Remove the test jack installed in the safety terminal and connect the hand brake cable to the car hand brake. If this cable is not connected, only "audio" will be supported in Aux mode and Video Player mode. |
| Caution | Connect the Aux cable such as line out or A/V in after turning the power off. If the power is on while connecting the cable, the product can be damaged. |
| Caution | If you don' t use the product for a long time after purchasing this product, car position sensing time can be prolonged, since the GPS antenna backup battery can be discharged. |
| Caution | Do not put objects that interfere with GPS signal reception around the GPS receiver. Radio interference may occur. |
| Caution | Do not install electronic products that generates heavy electromagnetic waves like a radio transmitter around the GPS antenna. |
| Caution | GPS reception can be blocked if the car windshield is specially tinted. |

## 1-3. Upgrade directions

- Depending on the SD Card memory product, the SD Card memory sensing time may vary or sensing may fail.
- Below list is recommended SD card.
- Some SD cards work better than others. Please contact customer support (page 77) if you need further assistance.

| PRODUCTS | 256M | 521M | 1G | SPEED |
|---|---|---|---|---|
| Trensend | Yes | Yes | Yes | 120 speed and less |
| PQI | No | Yes | Yes | |
| LG | Yes | Yes | No | |
| Samsung | Yes | Yes | No | |
| Hanbit | No | Yes | Yes | |
| Pretec | No | No | Yes | |
| Zyrus | No | Yes | No | |
| Imation | No | Yes | No | |
| Hagiwara | No | Yes | No | |
| TwinMOS | No | Yes | Yes | |

## 1-4. Troubleshooting

1) Touchscreen does not work

If you cannot set up the touchscreen in the Setup menu due to wrong setting, use the remote controller instead.

- Press the [Initial Screen] button on the remote controller to open the main menu screen.
- Press the [F2] → [F3] → [F2] → [Full Screen] button sequentially to open the Touch Setting screen
- Press the 5 cross marks using the test jack or touch adjustment rod, according to the instructions displayed on the screen.
- Press the screen once to close the Touch Setting screen.

**Caution** Park the car in a safe place for touchscreen setting.

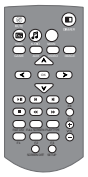
2) The LED turns on or flashes in red during self-diagnostic:

In addition, when the temperature inside the car is too high or low, the red LED flashes. In this case, follow the steps below.

- Turn the product power off and ventilate the car to get normal temperature.
- Turn the power on after a little while and observe the LED color.
- If the red LED still flashes in normal temperature, contact customer service.

## 2. Components

Navigation System unit



Remote controller (option)

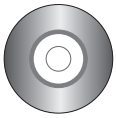
SD Card memory

Aux cable [AV In terminal] (option)

Test jack

Cigar jack cable

Stereo output cable (option)



DVD-ROM

Red : + - : Blue

Hand brake connection cable

Suction cap

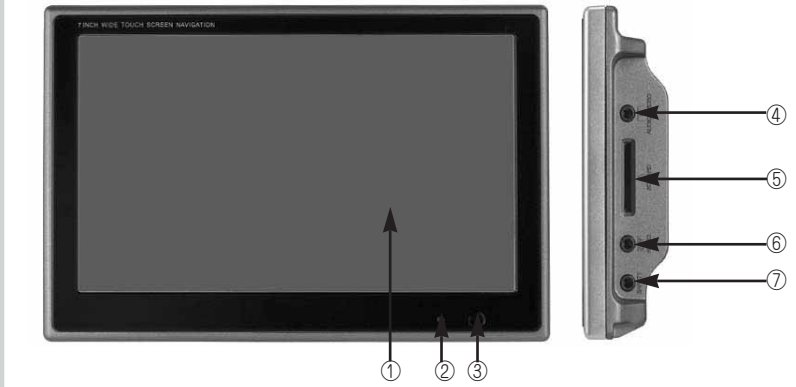
GPS antenna/ mount plate

User' s manual

★ Specifications and design are subject to change without notice.

# 3. Description of external features

## 3-1. Front/Right side




① TOUCH SCREEN : Handles user touch input.

② LED : Displays the product status.
(Blue: Normal operation, Red: Malfunction/diagnostic)

③ REMOTE IR WINDOW : Receives the remote control signal.

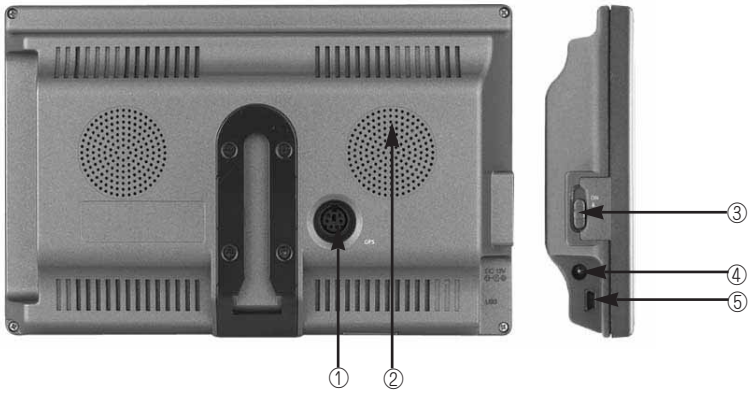
④ AUDIO/VIDEO IN : Receives the A/V input from the external device like a DVD player gaming device.

⑤ SD Card memory slot.

⑥ AUDIO OUT : Output the audio signal to the external device.

⑦ SAFETY : Connects to the car hand brake after removing the test jack, which is installed in advance for safety.

### 3-2. Rear/Left side




① GPS : Connects to the GPS antenna cable.

② SPEAKER : Outputs 1 watt audio.

③ POWER SWITCH : Turns the power on/off.

④ DC 12V : Connects to the provided cigar jack.

⑤ USB SLAVE PORT : Not is use. [Connector for A/s]

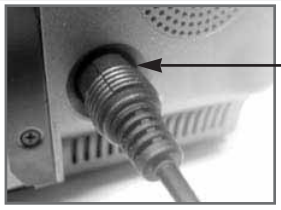
## 4. Installing the product

1) Fix the suction cup on the car windshield window where the driver feels comfortable.

GPS sensitivity will increase if you use the GPS pedestal. Use the GPS pedestal in any case.

**Caution** Remove any dust or foreign object from the windshield window so that the bracket can be attached firmly. Then, fix it with lever to prevent falling down due to shock.
Do not install the navigation set in a position that hampers driver' s vision or driving. Be careful not to interfere with driving or safety devices like an air bag.

2) Connect the GPS cable to the product.




**Caution** Plug in the GPS cable as described above.
Install the GPS mount plate in the position that can be exposed to the sky as much as possible for better GPS reception, and fix the GPS antenna on the GPS mount plate by setting the GPS logo to face upward.
GPS sensitivity will increase if you use the GPS mount plate.

3) Adjust the position to fit into the driver' s field of vision after fixing the product on the suction cup.

4) Connect the power cable to DC 12V terminal located at the left side of the product.

**Caution** Use the car cigar jack that is included in the product package. If you use other cigar jack, the product may not work properly.

5) Remove the test jack from the Safety terminal and then, connect the cable to the hand brake.

Red : +  - : Blue

**Caution** Make sure connect the cable to the car hand brake to prevent operation while in driving. If the hand brake connection cable is not connected, only "audio" external input will be supported.

6) Flip the power switch ON that is located at the left side of the product.

## 1. Basic functions of Navigation System

1) Navigation function : Helps car navigation using GPS (Global Positioning System) engine and antenna, and electronic precision map.

2) Audio player function : Plays back MP3, WMA, WAV and OGG music files.

3) Video Player function : Plays back video files.

4) Image Viewer : GIF, JPEG and BITMAP image files.

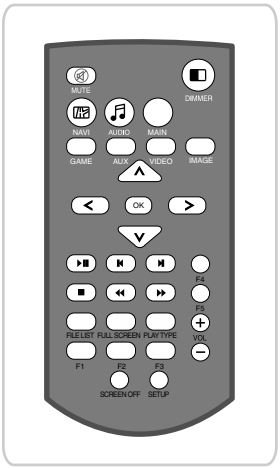
5) Game function : Provides enjoyable games.

6) Aux function : Displays external A/V sources such as DVD players or gaming devices. When connected to a VXM or VXD series DVD player, touch screen controls can be wired to control the DVD player.

7) Setup setting function : Various functions can be configured such as slide show, main theme, touchscreen setting, volume control, Dimmer control, OS upgrade, A/V input, and FM transmitter.

## 2. Learning basic remote controller functions

You can access frequently used function using the remote controller, in addition to the touch screen for more convenient usage of Navigation System.




- DIMMER : Controls screen brightness by 5 steps.
- MUTE : Mutes the sound temporarily.
- NAVI : Directly switches to the Navigation function.
- AUDIO : Directly switches to the audio player function.
- MAIN : Directly switches to the initial screen.
- AUX : Directly switches to the Aux function.
- VIDEO : Directly switches to the Video player function.
- IMAGE : Directly switches to the image function.
- FILE LIST : Display the file list of Video/Audio player and Image viewer.
- FULL SCREEN : Enlarge the Image or Video screen size to full LCD size, during Video player and Image viewer function is operating.

- F1 : See additional function.
- F2 : See additional function.
- F3 : Reserved.
- F4 : Reserved.
- F5 : Reserved.
- SETUP : Directly switches to the Setup function.
- ∧ : Moves the cursor upward.
- ∨ : Moves the cursor downward.
- < : Moves the cursor left.
- > : Moves the cursor right.
- OK : Selects the cursor that was moved by the direction key.
- ▶II : Play back/Pause Audio or Video playback and show selected image in Image viewer mode.

- ⏮ : Moves audio or DVD playback section backward in Audio player/Aux mode. In Image viewer mode, shows previous image.
- ⏭ : Moves audio or DVD playback section forward in Audio player/Aux mode. In Image viewer mode, shows next image.
- ■ : Stop Audio , Video or DVD playback.
- ⏪ : Rewinds MP3 or DVD playback in the audio player/Aux mode.
- ⏩ : Fast forwards MP3 or DVD playback in the audio player/Aux mode.
- VOL ⊕ ⊖ : Sets volume up or down.
- PLAY TYPE : Sets Repeat All/Repeat Start when playing back DVD, or Repeat All/Repeat Selected/Random Selection when playing back MP3.

[Additional Remote controller function : Below buttons are redefined when File list function is enabled in Video player, Audio player or Image viewer mode.]

◆ **Basic screen at the Image viewer**

- ∧ : Zoom in function.
- ∨ : Rotate to left.
- < : Zoom out function.
- > : Rotate to right.

◆ **Full screen at the Image viewer**

- ∧ : Moves center of image up.
- ∨ : Moves center of image left.
- < : Moves center of image down.
- > : Moves center of image right.

◆ **During file list is enabled**

- ∧ : Moves cursor up.
- ∨ : Close file list.
- < : Moves cursor down.
- > : Enable the folder tap when file tap is enabled.
- OK : Enable the file tap, when folder tap is enabled. And playbacks/shows selected file when file tap is enabled.
- F1 : Moves page of file list up.
- F2 : Moves page of file list down.

**Caution** Navigation and game functions are not accessible using the remote controller.

## 3. Main menu

The main menu is composed of Navigation, Audio Player, Video Player, Image Viewer, Game, AUX, Setting, Screen On/Off button.

## 4. Starting the application

Charge your device, take it outside, and place it in a position with an unobstructed view to the sky to create your first satellite connection. In the car this will usually be on the dashboard. It may take up to 5 minutes to establish the first connection. Subsequent connections will be faster (30 seconds to 1 minute), but if you have not used the unit for several days or are very far away from the last location you used it, it may take up to 5 minutes again to find a strong signal

- Switch on the unit and tap on NAVI or NAVIGATION in the first screen.
- If more than one language is available on your device, you are prompted to choose your language.

After the application loads, a screen with safety precautions will be shown. Please read them carefully. Afterwards, you can choose to hide these notes for future start-ups.

# 5. Detailed description

This chapter describes the functions of your Personal Navigation Device in detail. On the following pages you will learn how to

- Use the map (see page 15)
- Find and choose locations (see page 16)
- Navigate to your destination (see page 28)
- Use the route planner (see page 31)
- Configure the application (see page 33)

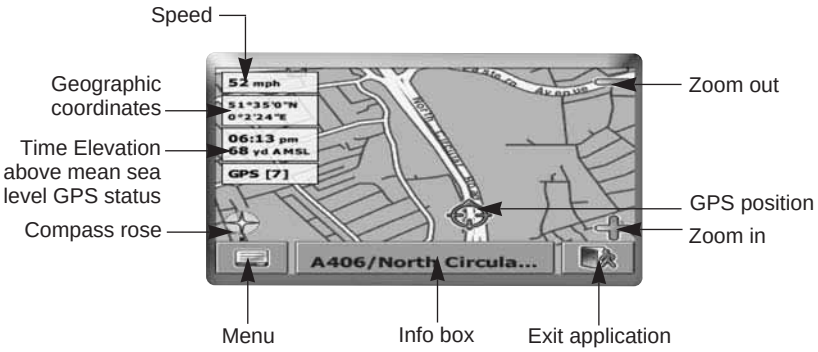
## 5-1. Using the map

The map is the core component of your Personal Navigation Device. It will be centered on your current location by default, provided you have a GPS connection. You can browse the map, display information about the different locations shown on it and e.g. choose them for routing and navigating.

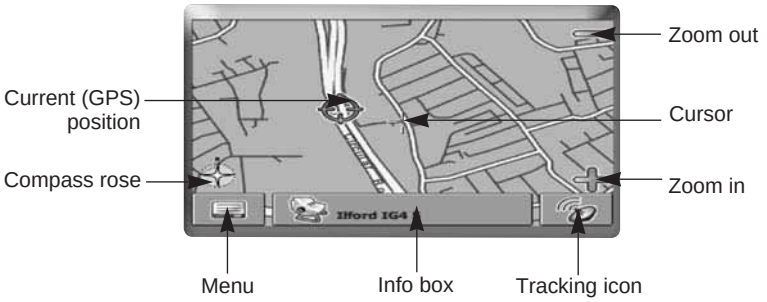
### Tracking mode and selection mode

The map knows two basic states, the tracking and the selection mode.

In the tracking mode, the map follows your actual position (GPS position), displaying information about your geographic position, your speed, etc:



As soon as you browse the map, you enter the selection mode:




• Use a pen or your finger to browse the map. The actual position will be identified by a cursor.

Clicking on an icon on the map opens an overlay window with information about the selected item.

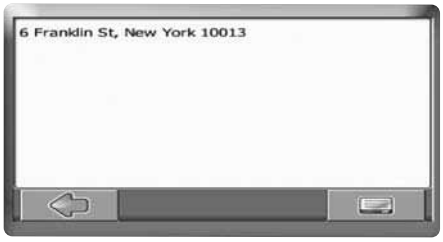
• To zoom in or out, press the + or - icons. As soon as you press one of the icons, the zoom slider will be shown, which can be used for smooth zooming.
• With the compass icon (in the bottom left hand corner) you may adjust the orientation.
• If you want to return to the tracking mode, press the tracking icon. To exit the application, press this button again.

## 4-3. Choosing and finding locations

This section describes the different ways of finding and choosing locations. You may choose locations on the map, search for an address, choose a favorite (like home and work address, your bookmarks and recently visited locations), and browse POI directories and guides.

### Choosing a location on the map

• Point the cursor at any place on the map. The name of a selected location/street will be shown in the info box.
• Press that info box to open a screen with details:




By pressing the menu icon you can access further options:

- Press Navigate to navigate to the location (see Navigating on page 28).
- Press Via to use the location for routing (see Planning a route on page 31).
- Press Save to save the location as a bookmark (see Favourites on page 24).

### Search for an address

Through the address search you can find an address by entering information about the desired target (street and town/city). You may then select a hit from the result list and use the address found for different purposes, like pinpointing it on a map, planning your route, and navigating.

- On the map, select the menu icon.

## Using Navigation System

The main menu will be opened:

- Select Find Destination.
- Select By Address Search.

The Find Address window will be displayed:

Enter the appropriate data to find your address.

### How to search

Your Personal Navigation Device offers a convenient interactive look-ahead search function to prevent misspelling. Only keys that lead to a search result can be pressed — all others are grayed out!

- Enter the first character.

You will see that the some keys on the keypad turn grey. You can only choose black keys:

• Enter the second character.

Again, some keys will turn grey, others will turn black, depending on your choice.

• Keep on entering characters until you have narrowed down the search to only one result.

OR

• Press the search icon (magnifying glass).

A result list will be displayed.

• Choose the appropriate entry from the list.

Switch between letter and number mode by pressing 123 or ABC. Switch between upper case and lower case by pressing ^.
If at any point you want to backspace and delete characters, press the backspace button <- on screen. To add a space, press the space bar _. If you need to enter an apostrophe ( ) use the space key instead

### Set the state

• Press State to select your state.

• Choose your state from the list.

The State field will be populated with the name of the chosen state.

### Enter a zip code

Instead of a city you may enter a zip code.

• Press Zip code to enter a zip code.

• Enter the zip code of the town/city you are looking for.

• Press the search icon (magnifying glass).

A hit list will be displayed.

• Choose the appropriate town/city from the list.

You will return to the Find Address screen. The City and Zip code fields will be populated with the chosen city/zip code.

**Search for the city**

• Press City to select a city.

Search for the city, as described above.

A result list will be displayed.

• Choose the appropriate town/city from the list.

You will return to the Find Address screen. The City field will be populated with the name of the chosen town/city.

**Search for the street**

• Press Street to select a street.

Search for the street, as described above.

A result list will be displayed.

• Choose the appropriate street from the list.

You will return to the Find Address screen. It will be filled with the previously found data.

Additionally you may enter the number.

**Navigate to the address found**

Once you have narrowed down your search to a unique address, you can start navigation.

• Press the forward arrow.

The address will be displayed in the navigation map. Here you can choose to be guided to the address, use it for route planning, etc. (see Navigating on page 28).

### Searching for and choosing POIs

With the POI finder you can quickly find points of interest like gas stations and restaurants that are chosen from a database of millions of POI, either nearby or at a remote location.

- On the map, select the menu icon.
- On the following screen, select Find Destination.
- Select By POI Search.

A menu of POI categories will be shown:

In the title bar of this screen, you might see an address. You will be presented POIs that are close to this location. Through the menu icon you open a set of options:

- Press Open to open a guide (see Browse or search a guide on page 22).
- Press Text search to search for a POI (see Searching for a POI on page 22.
- Press Current location to select POIs near your current location.
- Press Other location to select another address as a starting point for the POI selection (see Search for an address on page 17).

The starting point will be shown in the title bar of the POI categories screen.

### Choosing a POI

- Choose the desired POI category.

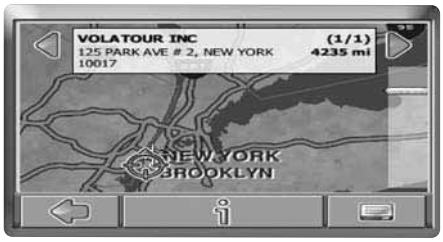
A menu with subcategories will be shown.

- Choose a subcategory.

A list of POIs will be shown.

- Select a POI by clicking on it.

The location will be shown on the map:




- Press the arrows next to the location s name to switch between results.
- Press i to open a screen with details about the location.

By pressing the menu icon you access to a set of actions:

- Press Navigate to navigate to the location (see Navigating on page 28).
- Press Via to use the location for routing (see Planning a route on page 31).
- Press Save to save the location as a bookmark (see Favourites on page 24).
- Press On Map to show the location on the main map.

### Searching for a POI

Press the menu icon, then select Text search.

- In the search window, enter a search term (at least three characters), and start searching by pressing the right arrow.

A list of POIs will be shown.

- Select a POI by clicking on it.

The POI will be shown on the map, as described above.

### Browse or search a guide

Within the POI menu you may see guides, an optional feature. Branded travel/city guides will help you to find out what is nearby and will give you valuable information about attractions, restaurants, hotels, etc. with detailed descriptions. You may use the items contained in the guides for navigation or save them as bookmarks.

Guides are an optional feature and may be purchased at www.navi-plugins.com

- On the map, select the menu icon.
- On the following screen, select Find Destination.
- Select By Location Service.

The guide list will be shown:

- Select the guide you wish to use by clicking on it.

The categories page of the chosen guide will be displayed:

You can now browse the guide by categories or search the guide.

### Search the guide

- Press the search icon (magnifying glass).
- In the search window, enter a search term (at least three characters), and start searching by

pressing the search icon (magnifying glass).
The hit list will be displayed.

- Select a location by clicking on it.

The location will be shown on the map.

- Press the arrows next to the location name to switch between results.
- Press i to open a screen with details about the location.

By pressing the menu icon you access to a set of actions:

- Press Navigate to navigate to the location (see Navigating on page 28).
- Press Via to use the location for routing (see Planning a route on page 31).
- Press Save to save the location as a bookmark (see Favourites on page 24).
- Press On Map to show the location on the main map.

**Browse the guide by categories**

On the categories page you may select from the different categories of the Guide (e.g. restaurants, hotels, bars, museums etc.).

- Use the up and down arrows to scroll in the list.

| |
|---|
| Some guides also offer subcategories. |

- Click on a category or subcategory to search for relevant items.

The search results will be shown in the hit list, sorted by distance.

- Select an entry by tapping on it.
- The location will be shown on the map, as described above.

**Favourites**

Use your frequently used or favorite destinations for guidance. You can choose among your home, your work place, a set of personal bookmarks, and recently visited locations.

- On the map, select the menu icon.
- On the following screen, select Find Destination.
- Select by Favorites.

The Favorites menu will show on the screen:

**My Home**

- Press My Home.

Your home address will be displayed on a map:

- Select the menu icon.
- On the following screen, choose Navigate to be guided to your home address (press Change or Delete if you want to change/delete your home address).

Navigation will start immediately.

If no home address has been set, you are prompted to do so. You can choose it by searching for an address, through your current GPS position or by choosing a recently visited location.

### My Work

- By pressing My Work, your work address will be displayed on a map.
- Select the menu icon.
- On the following screen, choose Navigate to be guided to your work address (press Change or Delete if you want to change/delete your work address).

Navigation will start immediately.

If no work address has been set, you are prompted to do so. You can choose it by searching for an address, through your current GPS position or by choosing a recently visited location.

### Bookmarks

The bookmarks list contains the destinations you have saved as favorites (from the guides, by choosing it on a map, etc.). This means that you do not need to perform repeated searches for those destinations.

- Press Bookmarks.

The bookmark list will show on the screen:

Use the up and down arrows to scroll up and down in the list.

- Select an item by clicking on it.

The location will be shown on the map.

- Press the arrows next to the location s name to switch between results.
- Press i to open a screen with details about the location.

By pressing the menu icon you access to a set of actions:

- Press Navigate to navigate to the location (see Navigating on page 28).
- Press Via to use the location for routing (see Planning a route on page 31).
- Press On Map to show the location on the main map.

**Recent**

By pressing Recent a list of recently visited or looked-up destinations will be opened.

- Press Recent.

The list of recent items will show on the screen.

Use the up and down arrows to scroll up and down in the list.

- Select an item by clicking on it.

The location will be shown on the map.

- Press the arrows next to the location s name to switch between results.
- Press i to open a screen with details about the location.

By pressing the menu icon you access to a set of actions:

- Press Navigate to navigate to the location (see Navigating on page 28).
- Press Via to use the location for routing (see Planning a route on page 31).
- Press Save to save the location as a bookmark (see Favourites on page 24).
- Press On Map to show the location on the main map.

## 5-3. Navigating

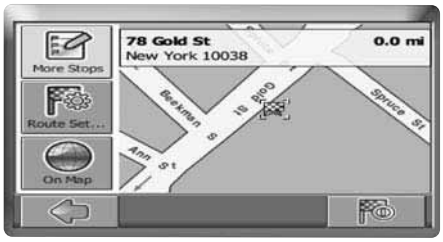
The powerful navigation capabilities of smart2go" guide you along the shortest or quickest route from A to B — with voice commands and in 3D.

This section describes the navigation feature.

> See Choosing a location on the map on page 15 for information about choosing elements on the map.
> See Choosing and finding locations on page 16 for information about finding and choosing addresses, POIs, and locations inside a guide.

- Choose a location on the map or through Find Destination, and press Navigate in the respective menu.

The location will be shown in the navigation map:



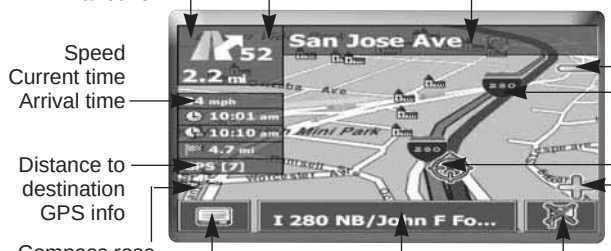

- Press the navigation icon to be guided to the location.
- Press More Stopovers to use the location for routing (see Planning a route on page 31).
- Press Route Settings to alter the guidance settings (see Route options on page 33).
- Press On Map to show the location on the map.

Your route will be calculated. The navigation screen will be displayed.

### Navigation screen

On the navigation screen, the route will be shown in blue. The red arrow will indicate the direction of your next manoeuvre. Crosshairs identify your current position. When you come up to a turn or other manoeuvre, you will hear a voice command at the appropriate time.

For one-way streets, the transit direction is indicated with a red arrow.




### Options during navigation

You can browse the map even while navigating. This way you can easily choose a new destination if you change your mind. However, navigation will not be interrupted — you will be still guided through voice commands. Press the back icon to follow the route on screen again.

### Menu options

- Select the menu icon while navigating to open a set of navigation options:

Here you will find the following items:

### Route Settings

Change the guidance options, as described in Route options on page 33.

### Map Settings

Open a menu with map settings, as described in Map settings on page 35.

Here you can also toggle between map and arrow mode for guidance.

When you change to the arrow mode, the navigation screen will not show the map but only an arrow indicating the upcoming manoeuvre.

### Volume

Alter the volume of the voice commands.

### Info box options

- Select the info box while navigating to open a set of navigation options:

**Alt. route :**
With this option, you can choose to block the calculated route for a given distance (e. g. 0.5 mi) and force an alternative route. Simply tap on the icon which shows the desired distance. Your route will be recalculated, and the previous route will be discarded for the given distance.

**Search**
You can redirect your route by choosing a point of interest (POI), like a gas station.

**List of waypoints**
Opens a list of the waypoints on your itinerary.

**Save**
Save your actual position as a bookmark.

> All user information like e.g. settings, bookmarks and recently visited locations will be stored on the memory card and not on the device.

## 5-4. Planning a route

This section describes the route planning feature. This feature allows you to plan your route in advance, choosing multiple stopovers along your journey.

> See Choosing a location on the map on page 15 for information about choosing elements on the map.
> See Choosing and finding locations on page 16 for information about finding and choosing addresses, POIs, and locations inside a guide.

- Choose a location on the map or through Find Destination, and press Via in the respective menu.
- The Destination List will be displayed:

The location will be added to the Destination List.

- Press the + icon to add another stopover.

You will switch to the Choose stopover screen. You may choose stopovers like your home or work addresses, a bookmark, a point of interest, a recent location or by searching for an address or pinpointing a destination on the map.

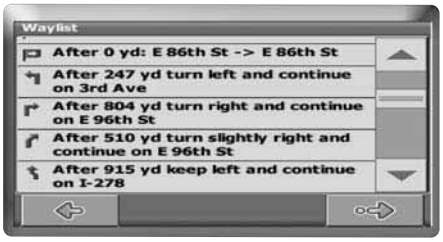
Once you have added stopovers (with the + icon) and returned to the Destination List, you have several options:

- With the + icon you can choose additional stopovers.
- To change the order of the stopovers, select a stopover and then use the up and down arrows to move it up/down in the list.
- With the trash icon you can delete a selected stopover.

Once you have chosen your route, you have several options. You reach those options by pressing the menu icon (bottom right-hand corner of the screen).

- Press Simulate to simulate the route to come.
- Press Start Navi to start guidance. The display will switch to the navigation map.

• With Routing, the system will calculate your route. The Route Summary will be displayed. Tap on one of the items in the Route Summary to display the Waylist. Tap again to show the map view.




## 5-5. Settings

You can configure your Personal Navigation Device to suit your needs. When it comes to navigating, you can, for example, choose to avoid or allow toll roads or ferries or select your mode of transportation, like a fast or slow car, a scooter or even your own feet. You can also edit several display settings, like 2D or 3D mode, day or night mode, map complexity, etc.

• On the map, select the menu icon.

• Select Change Settings.

The main menu will be opened:

### Route options

• Choose Change Route Options to change the route options.

The window with the route settings will be displayed:

- To switch between the modes just touch the icons. These will toggle so you can quickly see the activated settings.

You can choose among the following options: Mode of transportation (fast car, slow car, motorbike, pedestrian, etc.), fastest or shortest route, allow or avoid toll roads, highways, and ferries. You can also choose the distance unit (miles/kilometers).

Once you have chosen your settings, press the confirmation icon to return to the main menu.

**Mode of transportation — overview**

**Fast** — assumes fast driving on highways. Choosing this option will slightly favor highways in the routing choice

**Slow** — assumes slower driving on highways. Choosing this option will reduce the preference for highways in the routing choice

**Bike** — takes into account bike paths and blocks highways where bikes are prohibited.

**Motorbike** — takes into account motorbike restrictions, where applicable.

**Scooter** — takes into account scooter restrictions, where applicable.

**Van** — takes into account van restrictions, where applicable.

Pedestrian — provides true pedestrian routing including full access to one-way streets and pedestrian zones, where possible.

### Language

- Choose Change Language to select the language of your navigation system.

### Map settings

- Choose Change Map Settings to change the map settings.

The window with the map settings will be shown:

- Toggle between night and day mode by pressing the corresponding icon.
- Toggle between 2D and 3D mode by pressing the corresponding icon. By selecting Automatic, the mode will be chosen depending on the actual time.
- Choose Track Up to optimize the map orientation during navigation. Choose North up to keep the map oriented to the north.
- Choose Set time to choose your time zone.

| |
|---|
| The time itself is set automatically through GPS. |

- Choose Info Layers to choose which kinds of elements are to be shown on the map:

- Check the boxes of any category you want to have displayed on the map. Uncheck those that should be hidden.
- Press the confirmation icon to apply your settings.
- Press the arrow icon to return.

Map

- Select Choose Maps to select a map.

If you have map data for different regions/cities on your memory card, tap on the name of the current region (e. g. London). All available maps on the memory card will be listed. You can choose the desired region by simply tapping on its name.

## 6. Optional Features

You can further enhance your Personal Navigation Device through a set of optional features. The following features are available as options for your navigation system:

### 6-1. Guides

At www.navi-plugins.com you can find lots of valuable information services, including directory services, WiFi hotspot locators, and city guides. City guides contain detailed information about locations, such as descriptions, contact information, prices, opening times, etc.

To purchase the guides and to learn how to download them, please go to www.navi-plugins.com.

To learn how to use the guides, see Searching for and choosing POIs on page 21.

about traffic jams and ask you if you would like to switch to an alternate route.

## 7. Frequently asked questions

**I can t find an address.**

Please make sure you have correctly spelled your entry. If you do not know how an address is spelled correctly, simply enter the parts of the address, you know for sure (e.g. New York , Times for Times Square in New York City). Then browse in the result list and look for the address. Also make sure that the city in which you are looking for an address is correct. Sometimes the official postal address differs from the address you are looking for. In that case, search for an address nearby that you know of and browse on the map.

If you find the address on the map but you can not find it while searching for it, please let us know via pnd@support.gate5.net.

**There is a failure in the map / POIs are missing.**

If you detect an error in the map data (e.g. a street is missing completely), we would like to inform our map data provider. Please let us know via customer support located on page 77.

**I have problems to get a GPS fix.**

If you have problems getting a satellite fix with the GPS (you can see how many satellites are being received on the main menu at the bottom left) please make sure, that you are outside and the GPS antenna has a good visibility to the open sky. Some models also do support an additional external active antenna. Please also consult with the hardware manual of your device to get further information of how to obtain a GPS fix.

**Where can I get technical support and updates ?**

Please, contact your retail store or the customer sevice center in page 77.

## 8. Audio player

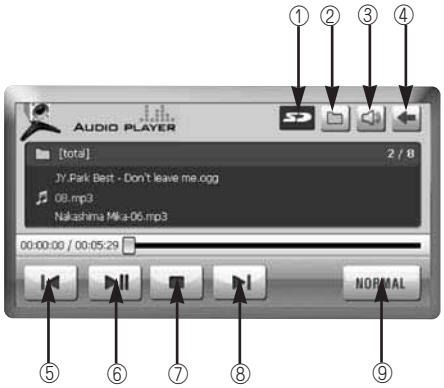
You can play back music by selecting Audio player in the main menu. Basic functions include Play, Pause, Stop, Select Next, and Select Previous. Playback functions include Repeat, Repeat Selected, and Random.
The supported music file formats are MP3, WMA, and WAV.

You can save music files in the SD Card memory. The Audio player manages the music files by the unit of a folder.

To play back music using the SD Card memory.
(If the SD icon appears at the right upper side, the device detects the SD Card memory.)

1. Navigation System find all playable music files in the SD Card memory and makes a list of music files.
2. You can see all music files regardless folder in the Total folder.
3. If you select a specific folder, Audio player shows list of music files in selected folder. Now, you can listen to music by selecting music file you want to play.

## 8-1. Basic screen




① SD Card indication icon : If SD Card is inserted, icon changes to blue color.

② File list : Show folders and files that Audio player can playback.

③ Volume control : Increase or decrease volume.

④ Exit : Close Audio player and returns to Main menu.

⑤ Previous file playback : Playback previous music file.

⑥ Play/Pause : Playback and Pause music.

⑦ Stop : Stop the music playback.

⑧ Next file playback : Playback next music file.

⑨ Playback mode : You can select playback mode, “Normal”, “Random” and “One”.

## 8-2. File list screen

By touching folder tab(①), Audio player shows folders which playable music files are in. At the folder list view, you can see the list of files by selecting File tab(②). You can listen to music file, highlighted by cursor, using Playback button(③). Touching Back button(④), you can return to basic screen of Audio player. You can select another file to play by using scroll bar(⑤). Numbers on scroll bar represent current cursor position/total number of files.

## 8-3. Volume control

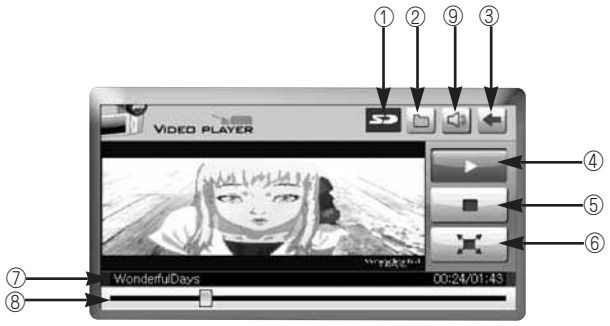
You can increase or decrease volume. By touching Mute button(①), you can mute audio sound.

**Caution** While Audio player is operating, if you remove the SD Card memory, system will be get into unstable situation. Please don' t remove SD Card memory during playback. If system is unstable because SD Card memory is removed, turn off the system and rebooting.

## 9. Video Player

You can play back movie by selecting Video Player in the main menu. Basic functions include Play, Pause and Stop. The supported movie file formats are "AVI, MPG, MPEG, WMV, MP4, ASF, Divx, TS". You can save video files in the SD Card memory. The Video player manages the movie files by the unit of folder.

### 9-1. Basic Screen




① SD Card indication icon : If SD Card memory is inserted, icon changes to Blue color.
② File list : You can see playable movie files by selecting this button.
③ Exit/Back : Close movie player and return to main menu.
④ Play/Pause : Plays back the movie. While movie is playing, button keep the Blue color. If you retouch this button, movie will be paused.
⑤ Stop : Stops playback.
⑥ Full Screen : Plays back the movie as full screen.
⑦ File name/time : Displays the current file name and Elapsed time/Total time.
⑧ Progress status bar : Displays the progress status of play. This bar is used for seeking specific scene in the movie.
⑨ Volume control : Increase or decrease sound volume.

## 9-2. Full Screen

## 9-3. Volume Control Screen

## 9-4. Volume Control Screen

Movie player scan all playable movie files stored in the SD Card memory and shows its result.

After selecting folder, if you touch File tab, you can see all playable movie files.

**Caution** While movie player is operating, if you remove the SD Card memory, system will be get into unstable situation. Please don' t remove SD Card memory during playback. If system is unstable because SD Card memory is removed, turn off the system and rebooting.

**Caution** During navigator is operating, if you wan to operate video player, you have to close the navigator for stable video playing. If you don' t close the navigator, system will close it when video player begins.

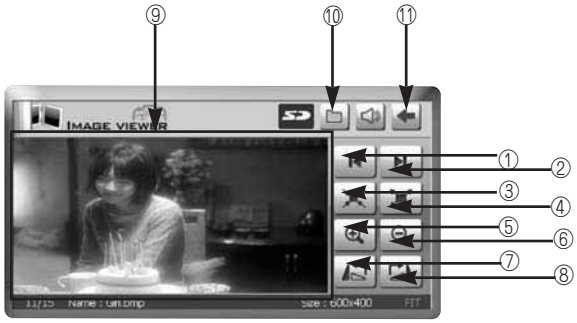
**Caution** If you play the high resolution video file, system will be in unstable condition.
For stable operation of the system, recommended file resolution is less than 320 x 240.

## 10. Image Viewer

You can view images by selecting Image Viewer in the main menu. Basic functions include Previous view, Next view, Set image to original size, Fit image to viewer, Zoon in, Zoom out, Rotate left, Rotate right, Full screen, and list of image files. The supported image file formats are "WAV, WMA, MP3 and OGG".

You can save image files in the SD Card memory. The Image viewer manages the image file.

### 10-1. Image Viewer main screen.




① View previous image.
② View next image.
③ Set image to original size.
④ Fit image to viewer : If you touch ④ button, you can fit image to viewer.
⑤ Zoom in : Zoom in steps (150% → 200% → 250% → 300%)
⑥ Zoom out : Zoom out steps (66% → 50% → 33% → 25%)
⑦ Rotate 90 degrees to left : Rotate 90° to left by touching rotate button. (90° → 180° → 270° → 360°)
⑧ Rotate 90 degrees to right : Rotate 90° to right by touching rotate button. (90° → 180° → 270° → 360°)
⑨ Full screen : If you touch the ⑨ area, you can see full screen image.
⑩ Displays the list of image files.
⑪ Returns to the main menu.

## 10-2. Full Screen

You can see the full screen image by selecting Full screen button.

## 10-3. File list screen

You can see file list screen by touching the File list button. Touching the Folder tab(①), image viewer show all folders which have supported image files in SD Card memory. When Folder tab is enabled, you can see image files of selected folder by touching File tab(②). By touching the Image view button(③), you can see the highlighted image file by using cursor. Selecting back button(④), you can return to basic screen of image viewer. You can select another file using scroll bar(⑤). Numbers on scroll bar represent current cursor position/total number of files.

**Caution** For stable operation of system, image size is limited by 2048 x 2048 or 1.8Mbyte file size. If you select image file over the limitation, Image viewer will show the warning message.

## 11. Game

Select the Game in the main menu.

How to play : If you place more than three of the same items in a row vertically or horizontally, these items will disappear.

To get higher score, remove as many items as possible at shortest time.

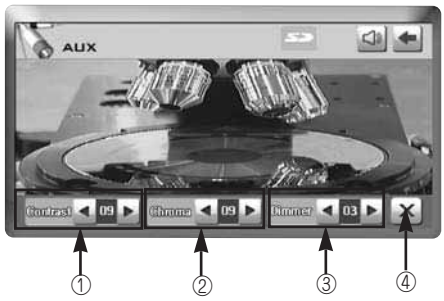
Normal mode : The game will be over if no further moves are possible.

If the bar on the right side is filled, the next level will start.

- Time trial mode : The game will be over if the time bar on the right side runs down. If the bar on the right side is filled, the next level will start.
- '?' : This button gives you a hint at the expense of losing some score. This button will be disabled if the score is not sufficient.
- New Game : Stops the current game and starts a new one.
- Quit : Exits the game.

## 12. Aux

You can use the simple Aux function if you set A/V input as "Others" in the settings section.



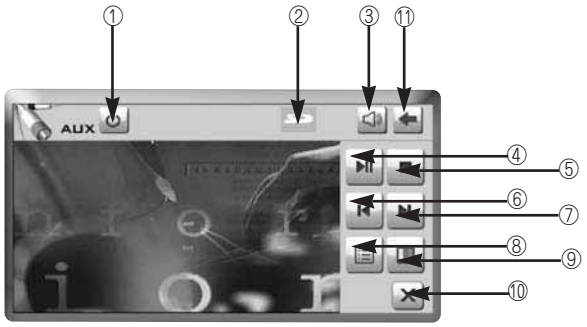

As shown by the above figure, only volume control and screen setting are supported in 'Others' mode. DVD player control is not supported.

① Contrast : Controls contrast within the range of 0 ~ 16 stages.
② Chroma : Controls chroma within the range of 0 ~ 16 stages.
③ Dimmer : Controls brightness within the range of 1 ~ 5 stages.
④ Hide UI : Hides the UI from the screen.

| Option | The following functions are available when connected to a DVD player manufactured by Plenio. |
|---|---|

## Using Navigation System

If you have DVD player connected and select VXM or VXD as A/V input in Setup menu accordingly, you can access the DVD player function via the touchscreen controls. You can also use the remote controller to use the following functions.




① Power : Power on or off the DVD player.

② SD : If the icon appears, the device detects the SD memory.

③ Volume : Controls sound volume of the DVD player.

④ Play/Pause : Starts or pauses the DVD player.

⑤ Stop : Stops the DVD player.

⑥ Prev : Starts the DVD player and moves to previous screen.

⑦ Next : Starts the DVD player and moves to next screen.

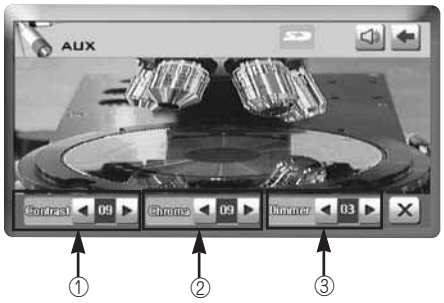
⑧ DVD Title: Switches to the DVD title menu and displays the direction key menu, which makes cursor movement easier in the DVD title.

⑨ Setting : Changes to screen setting.

⑩ Hide UI : Hides the UI from the screen.

⑪ Returns to the previous menu or the main menu.

The following screen will appear if you press the setting icon.




① Contrast: Controls contrast within the range of 0 ~ 16 stages.

② Chroma : Controls chroma within the range of 0 ~ 16 stages.

③ Dimmer : Controls brightness in 5 discrete levels.

The below figure shows the screen when you press the DVD title icon. You can move the DVD Title cursor using the direction key either via the remote control or the touchscreen controls.

① Direction key: Moves the DVD Title cursor.

② ENTER: Selects the moved cursor.

## 13. Setup

You can change many settings if you select Setup in the main menu.

### 13-1. Main Theme

Change main theme of GUI (Graphic User Interface)

### 13-2. Slide show

If no input is made for more than one minute in the main menu, specified images will be displayed sequentially in a slide show. You can select Off, 10 seconds, 30 seconds, 60 seconds, and 5 minutes for the time interval of image display when slide show is started.

★ To use Slide show function, you have to resize image file to 480 X 234. V-up Pro 3000 supports image resizing function and save resized image in the SD Card memory automatically.

### 13-3. FM transmitter

You can select 88.1, 88.3, 88.5, 88.7 MHz or off. If you set the car radio frequency to the selected frequency, you can listen to the sound using the car speaker.

### 13-4. Volume

You can select from 16 levels of seound volume.

## 13-5. A/V Input

If you select the VXM or VXD, DVD player manutatured by this company, you can control the DVD player using this device. To connect other manufacturer's product, set to "Others". Default is "Others".

## 13-6. Upgrade or download

Upgrade using SD Card memory - You can upgrade the OS using SD Card memory. To download OS from the customer service web site in page 77 down to SD Card memory using V-up pro 3000, you have to register in the web site. See the web site to see how to use V-Up Pro 3000.

◆ OS Upgrade

1) Download the OS upgrade file to SD Card memory using V-Up Pro 3000.

2) Connect the SD Card memory to the device. When the SD Card memory icon appears, select OS upgrade.

3) Press the [OK] button.

4) When upgrade is complete, turn the power off and on.

## 13-7. Dimmer

You can select from 5 levels of screen brightness.

## 13-8. Touch Calibration

Selecting this menu to increase accuracy of the touch screen.

For touch screen setting, press and briefly hold the center of the cross symbol. Then, the cross symbol will appear at the left upper side, left bottom side, right bottom side, and right upper side one by one. To complete touchscreen setting, press the center of the cross symbol for 5 times in total.

**Caution** If you press the point that is far away from the cross symbol during touchscreen setting, the cross symbol will appear indefinitely. Therefore, always stop the car before setting up the touchscreen setting. Do not use a tool with too sharp tip, since it can damage the touch panel. Instead, use a round edge object like the test jack for setting.

## 13-9. OK

You can save all settings by pressing this button

## 13-10. Cancel

You can cancel all settings you made by pressing this button.

## 13-11. INIT

The factory default setting will be stored, if you press this button.

## Map Upload

### 1. Installing V-Up Pro 3000 Program

A. Download the latest V-Up Pro 3000 installation file from the dvssales web site (www.dvssales.com).

B. Execute the downloaded V-Up Pro 3000 installation file and carry out the following installation procedure.

C. Specify the installation folder. See Figure 1-1.

**Figure 1-1. Specifying V-Up Pro 3000 installation folder**

D. Program installation will be started. See Figure 1-2.

**Figure 1-2. V-Up Pro 3000 Installation Progress**

E. If successfully installed, the "Setup Complete" message will be displayed. See Figure 1-3.

**Figure 1-3. Completion of V-Up Pro 3000 installation**

F. The following program group and the shortcut icon will be created in Programs menu as shown in Figure 1-4.

**Figure 1-4. V-Up Pro 3000 shortcut icon**

## 2. Running V-Up Pro 3000 Program

A. Select Start → Programs → Plenio → V-Up Pro 3000 → V-Up Pro 3000 shortcut icon.

B. V-Up Pro 3000 will be started. See Figure 2-1.

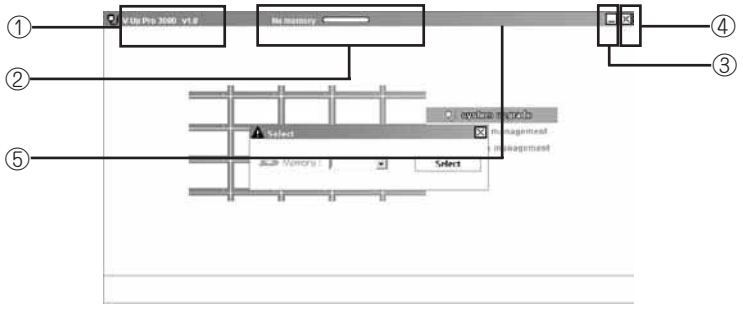



**Figure 2-1. V-Up Pro 3000 main screen**

① V-Up Pro 3000 program version.

② SD memory connection status and remaining memory capacity.

③ Minimize window button.

④ Close window button.

⑤ Title Bar : You can move the V-Up Pro 3000 program window.

C. Select SD memory drive

C-1) When you start V-Up Pro 3000, SD memory drive selecting window will apprear as shown in Figure 2-2.

C-2) Select SD memory drive using 'SD Memory' Combo box.

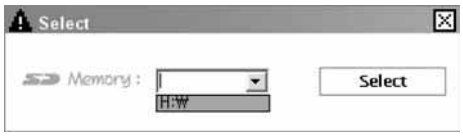



**Figure 2-2. V-Up Pro 3000 SD memory drive selecting window**

C-3) If you select SD memory drive correctly, free space will display as shown in Figure 2-3.

**Figure 2-3. Free space of SD memory**

## 3. Closing V-Up Pro 3000 Program

A. When you click the [Close] button, the program closing confirmation window will appear as shown in Figure 3-1.

B. Click [Yes] to exit from V-Up Pro 3000 program.

**Figure 3-1. V-Up Pro 3000 closing confirmation window**

## 4. System Upgrade

A. Execution

A-1) Click the "System Upgrade" icon in the V-Up Pro 3000 main screen.

A-2) Then, the screen shown in Figure 4-1 will appear.

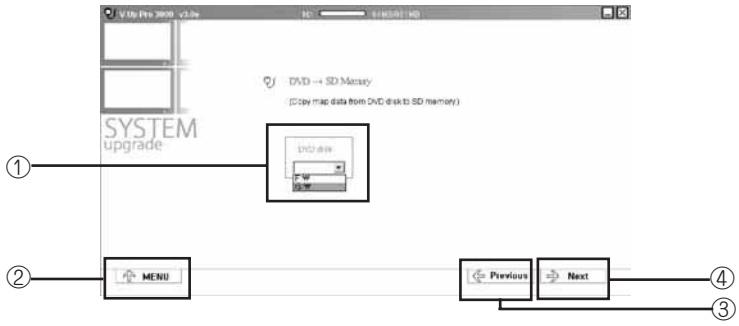



**Figure 4-1. System upgrade running screen**

① Local drive and DVD-ROM disc selection combo box.

② [Move Previous] button.

③ [Move Next] button.

④ [Move to V-Up Pro 3000 Main Menu] button.

A-3) Select DVD-ROM disk using combo box shown in Figure 4-1.

Reads upgrade files from the user-specified DVD-ROM disc and transfers them to SD memory. (See Figure 4-2 for DVD-ROM disc.)

**Figure 4-2. Specifying DVD-ROM disc**

A-4) Move to the next step by clicking the [Next] button (Figure 4-1 ④) after selecting the upgrade type.

B. Selecting upgrade items

B-1) Select the item to upgrade using the "Select upgrade items" check box (Figure 4-3 ①). (Navigation, OS)

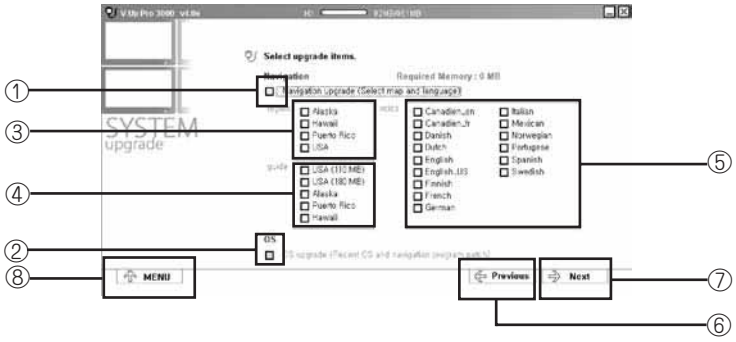



**Figure 4-3. Upgrade items selection window**

① Navigation selection check box.
② OS selection check box.
③ Map region selection check box.
④ Map guide selection check box.
⑤ Voice Language selection check box.
⑥ [Move Previous] button.
⑦ [Move Next] button.
⑧ [Move to V-Up Pro 3000 Main Menu] button.

B-2) To upgrade the navigation, select the navigation selection checkbox (Figure 4-3 ①) and select the target area using the map region, map guide and voice language check box (Figure 4-3 ③~⑤).

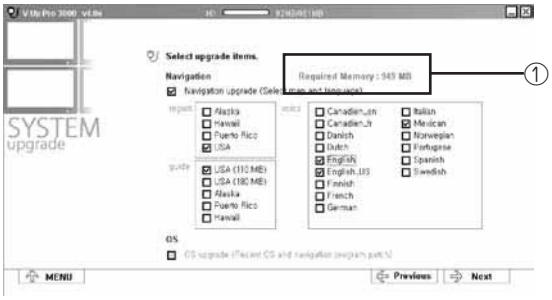



**Figure 4-4. Navigation data selection screen**

① Calculate and display checked components' memory.

B-3) To upgrade to the latest OS, select the OS selection check box (Figure 4-5) and click the [Next] button (Figure 4-3 ⑦).

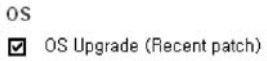



**Figure 4-5. OS upgrade selection screen**

★ The alarm message window appears when navigation upgrade is selected (Figure 4-6). Select the [Yes] button to continue upgrade.

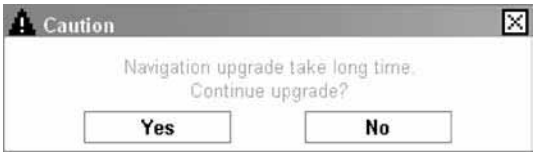



**Figure 4-6. Navigation upgrade alarm window**

C. Upgrading

C-1) If the upgrade type and item are properly selected, the upgrade progress screen will appear as shown in Figure 4-7.

★ The selected upgrade item list will appear at the Figure 4-7 ② position.

**Figure 4-7. Upgrade progress screen**

① Upgrade cancellation button.

② Upgrade list display section.

C-2) Click the [Cancel] button (Figure 4-7 ①) to stop upgrading and return to the previous step.

D. Upgrade completion

D-1) When upgrade is complete successfully, the Complete message window shown in Figure 4-8 will appear.

**Figure 4-8. Upgrade complete message window**

## 5. What is V-up Pro 3000

V-up Pro 3000 is the Navigation System management program and performs the following function.

- ▶ You can download navigation data and OS using V-up Pro 3000.
- ▶ V-up Pro 3000 supports image resizing function and save resized image in the SD Card memory automatically.
- ▶ Support management function of music files.
- ▶ You can download the latest version of V-up Pro 3000 from dvssales web site.

## 1. Music Management

A. Execution

A-1) Click the "Music Management" icon in the V-Up Pro 3000 main screen.

A-2) The screen shown in Figure 1-1 will appear.

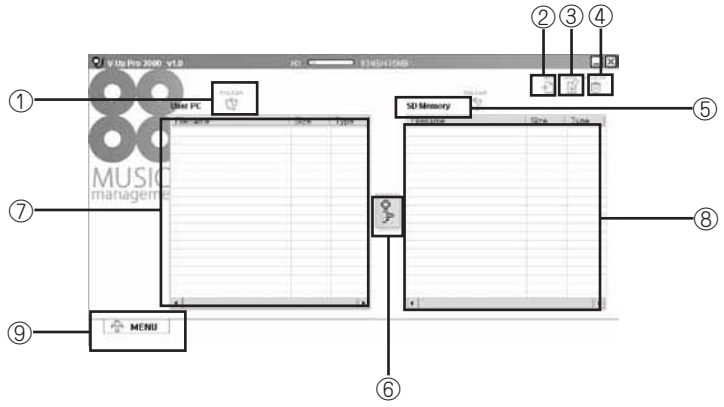



**Figure 1-1. Music Management execution screen**

① Opens the music folder from the user PC.

② Creates a music album in SD memory.

③ Edits a music album in SD memory.

④ Deletes a music album, and music file selection in SD memory.

⑤ Opens the music folder from SD memory.

⑥ Copies the music file.

⑦ Displays the music file in the user PC.

⑧ Displays the music file in SD memory.

⑨ Moves back to the V-Up Pro 3000 main menu.

B. Opening music file from user PC

B-1) Click the "Open Music File" button (Figure 1-1 ①) and select the music file folder in the user PC.

B-2) If any music file is available in the selected folder, it will be displayed in the music file list window. See Figure 1-2.

★ Supported music file type : MP3, WMA,WAV.

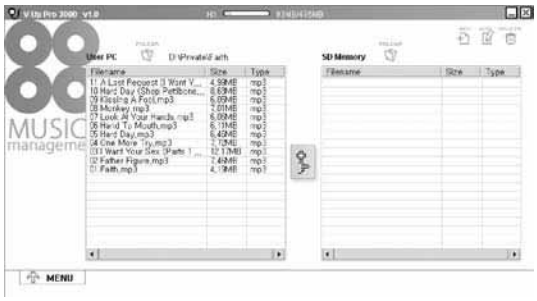



**Figure 1-2. Displaying the music file in the user PC**

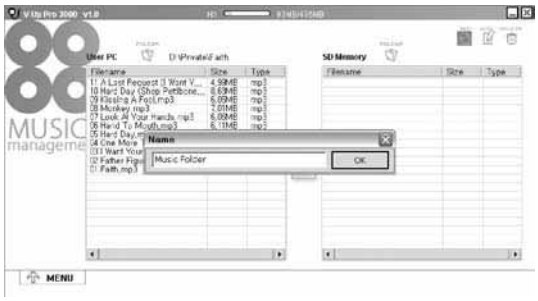
C. Selecting music album in SD memory

C-1) Click the "Opens the music folder from SD memory" button (Figure 1-1 ⑤) and selct target folder.

D. Creating music album in SD memory

D-1) Click the "Create music album" button (Figure 1-1 ②) and input the name of the album to create in the "Name" input window. (See Figure 1-3.)

D-2) Then, new music folder will create under selected folder.




**Figurer 1-3. Music album name input window**

E. Editing music album in SD memory

E-1) Select the music album to change its name from the music album selection combo box.

E-2) Click the "Edit music album" button (Figure 1-1 ③) and input the album name to change. See Figure 1-4.

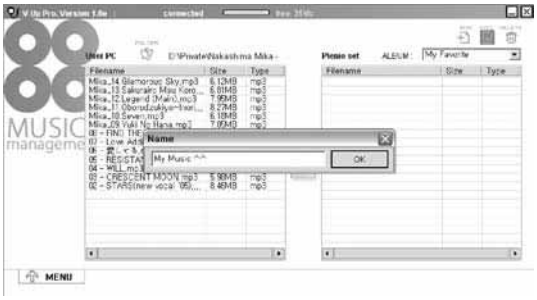



**Figure 1-4. Music album name edit window**

E-3) Click the [OK] button to replace music folder name.

F. Deleting music album from SD memory

F-1) Select the music album to delete from the music album selection combo box.

F-2) Click the "Delete music album" button (Figure 1-1 ④).

F-3) Select delete mode. See Figure 1-5. (files or folder)

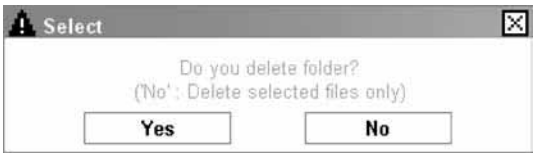



**Figure 1-5. Select delete mode**

F-4) If any music file is available in the selected music album, the Confirmation window will appear. See Figure 1-6.

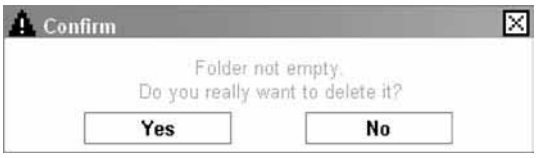



**Figure 1-6. Music album deletion confirmation window**

F-5) Click the [Yes] button to delete the selected music album.

G. Copying music file to SD memory

G-1) Select the music album to copy from the music album selection combo box. If no music album is available, the new music album must be created in advance.

G-2) Open the music file in the user PC. (See "Opening music file from the user PC.")

G-3) Select the music file to copy from the "Music file in the user PC" list window. (Multiple selections are supported. See Figure 1-7.)

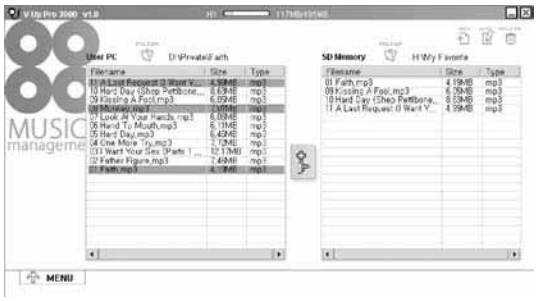



**Figure 1-7. Selecting music file in the user PC**

G-4) Click the "Copy music file" button (Figure 1-1 ⑥) button.

G-5) While the file(s) is being copied, the file copy progress bar (Figure 1-8 ①) will be displayed.

G-6) When file copying is complete, the copied music file will be displayed in "Music file in SD memory" list window.

H. Cancelling music file copy

H-1) To stop file copy while in progress, click the [Cancel] button (Figure 1-8 ②).

**Figure 1-8. Music file copy**

I. Deleting music file from SD memory

I-1) Select the music file to delete from the "Music file in SD memory" list window. (Multiple selections are supported.)

I-2) Click the "Delete music file" button (Figure 1-1 ④).

I-3) The selected music file will be deleted.

## 2. Bitmap Management

A. Execution

A-1) Click the "Bitmap Management" icon in the V-Up Pro 3000 main window. (See Figure 2-1.)

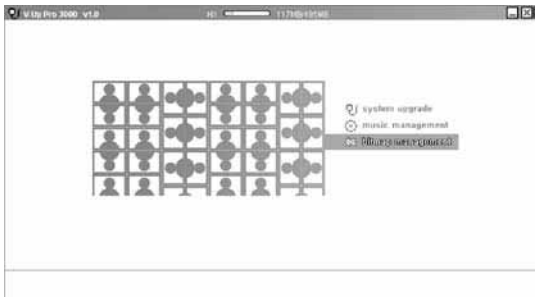



**Figure 2-1. Selecting "Bitmap Management"**

A-2) The screen shown in Figure 2-2 will appear.

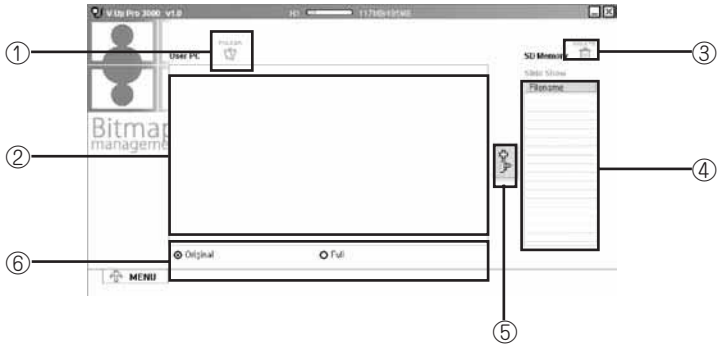



**Figure 2-2. Bitmap Management execution screen**

① Opens the image file from the user PC.

② Displays the slideshow image file.

③ Deletes the slideshow image file from SD memory.

④ List of the slideshow image file(s) in the selected folder.

⑤ Image file copy button.

⑥ Radio button to select the Image file output type.

B. Opening image file from user PC

B-1) Click the "Open image file" button and select the image file to open.

B-2) Image will be resized to fit into the SD memory display resolution. See Figure 2-3.

★ Supported image file format : bmp, jpg

★ SD memory supporting resolution : 480x234

**Figure 2-3. Displaying the selected image file.**

C. Resizing image

C-1) You can select 1) Keep aspect ratio, or 2) Full screen image before saving it.

C-2) Use the radio button that set the image file output format (Figure 2-2 ⑦) to change the display type.

**Example 1. Image with aspect ratio**

**Example 2. Full screen image**

D. Copying image file to SD memory

D-1) When you click the "Copy image file" button (Figure 2-2 ⑥), the image file name input window will appear. See Figurer 2-4.

**Figure 2-4. Image file name input window**

D-2) The image file displayed in the output window (Figure 2-2 ②) will be saved in the slideshow folder with the entered name.

E. Previewing bit map in SD memory

E-1) The image file list window (Figure 2-2 ⑤) displays the list of slideshow image files, as well as provides the image file preview function.

E-2) Select one image in the image file list window (Figure 2-2 ⑤).

E-3) The selected image file will be displayed in the image file display window.

**Figure 2-5. Image file opened from SD memory**

F. Deleting image file from SD memory

F-1) Select the image file to delete from the "image file in the selected folder" window. (Multiple selections are supported.)

F-2) Click the "Delete image file" button (Figure 2-2 ③).

F-3) The selected image file will be deleted.

## Specification

| Item | Details | Remark |
|---|---|---|
| OS | MS WINDOWS CE.NET 4.2 | |
| CPU | ARM9 Core | |
| RAM | 64M Bytes | |
| FLASH | 64M Bytes | |
| DISPLAY | 7" TFT LCD (Touch Screen) | |
| AUDIO | Internal Speaker(1W)<br>Lineout output<br>Connect to the car audio using FM Transmitter | |
| GPS Module | SiRFstar III GPS engine, internal type | |
| GPS sensitivity | First start sensitivity : -135dBm<br>Restart sensitivity : -153Bm<br>Sensitivity in motion : -156dBm | |
| Input power | 12V, 1A<br>In storage : -35 ~ 75 ℃ | |
| Temperature | In running : -10 ~ 60 ℃ | |
| Size | 190mm x 125mm x 33mm | |
| Weight | 600g | |

## Customer support and Product Enquiry

The product warranty period is calculated from the date of product purchase. Therefore, make sure to write down the purchase data and keep your sales receipt for proper service.

[If the product purchase date cannot be known, the product warranty period will start 3 months from the manufacturing date or import customs clearance date.]

## Customer Service Center

Customer service and complaint reporting
You can make an enquiry or ask advice about the product through a phone call or in the web site.

DVS SALES,INC 2398 Walsh Ave, Santa Clara, CA 95051
TEL : 408 970 3387
FAX : 408 970 3390
EMAIL : cs.dvs@dvs.co.kr
CUSTOMER SERVICE HOME PAGE : www.dvssales.com/support

## U.S.A.

## U.S.FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT INFORMATION TO THE USER

NOTE : This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful Interference in a residential installation.
This equipment generates, uses, and can radiate radio frequency energy and, if Not installed and used un accordance with the instructions, may cause harmful Interference to radio communications.
However, there is no guarantee that interference will not occur in a particular Installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet of a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

Change or modification not expressly approved by the party responsible for Compliance could void the user's authority to operate the equipment.
Connecting of peripherals requires the use of grounded shielded signal cables.

# DECLARATION OF CONFORMITY

WE **COMPANY NAME**
DVS KOREA
7th & 8th Fl. KPS Bldg 196 Kumgok-dong, Boondang-ku Sungnam City, Kyungki-do, Korea

Declare under our sole responsibility that the product :

Kind of equipment : Navigation System

Type-Designation :

to which this declaration relates is in conformity with the following standard(s) or other normative document(s)

Safety : EN 60950 : 1992 + A1, A2, A3, A4, A11
EMC : EN 55022 : 1998, EN 55024 : 1998
EN 61000-3-2 : 1995+A1 : 1998+A2 : 1998
EN 61000-3-3 : 1995

following the provisions of the Low Voltage Directive 73/23/EEC, 93/68/EEC and the EMC Directive 89/336/EEC.

Accredited test laboratory :
TÜV Rheinland
Am Grauen Stein
51105 Köln

KOREA / April. 27, 2006

--- ---

(Place and date of issue) (Name and signature of authorized person)

## MEMO

# MEMO

# Limited Warranty

*One(1) Year Limited Warranty*

## WHO IS COVERED?

Warranty repair is one (1) year limited warranty coverage :
* Parts and labour are included under warranty repair.

This warranty is extended to the original retail purchaser for products purchased and used in the U.S.A.

## WHAT IS COVERED?

NOTE: If you don't have proof of purchase, then your unit will be considered out-of-warranty. Out-of-warranty repairs will be charged at a flat labor rate, including any necessary parts. This warranty covers all defects in material and workmanship in this product.

## WHAT IS EXCLUDED?

This warranty does not cover:

* Labour charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
* Product repair and / or part replacement because of misuse, accident, unauthorised repair or other cause not within the control of its manufacturer.

* Modification or adaptation to this product to enable it to operate in any country other than the country for which it was designed, manufactured, approved and / or authorised, or repair of products damaged by these modifications.

* Incidental or consequential damages resulting from the product. (Some states do not allow the incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)

## WHAT TO DO?

1. Before you contact for service, review your owner's manual. A slight adjustment of any custom controls or connections may save your time.

2. For more information, please contact us by the following method :
* Contact the homepage at www.dvssales.com

## MAKE SURE YOU KEEP

Please keep your sales receipt or other document showing proof purchase. Also keep the original box and packing material in case you need to return your product.

**MODEL #** _____

**SERIAL #** _____

**Purchase Date** _____

## CUSTOMER SUPPORT

This warranty gives you specific legal rights.
*You may have other rights which vary from state to state.*