

MapKing™ 3D

English version user's Guide

For Microsoft Windows Pocket PC 2003



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MapKing™ 3D Quick Installation Guide (3 pages) For Microsoft Windows Pocket PC 2003

Installation and Registration

Follow the procedures properly on the Product Authorization Card

Register in Pocket PC

Install MapKing™

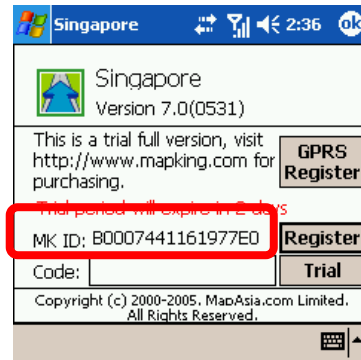
Get the MK ID from registration page

Get the REG. code from <http://www.MapKing.com/> using

MK ID and Product authorization code

Open the correct map; make sure you're doing registration for your purchased **Platform / Language / Map**.

Input the 16 digits registration code on your Pocket PC to register



Launch MapKing™

MapKing™ is launched in the similar way like other software installed in your pocket PC. Tap the start-up icon at the upper left corner of the screen, you should find the MapKing™ program icon within the upper row of the pop-up menu, tap again to launch MapKing™. If MapKing™ does not show up in the list of recently launched programs, select "programs" in the menu will open another listing all programs installed in your PPC and you could then launch MapKing™ from this second Menu

Switch Map

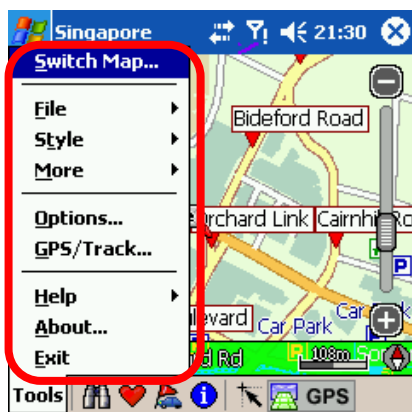
User may have more than one map installed, select "Tools > Switch Map" would bring up a list of all the maps, simply tap on any item within the list to switch to a new map. .

Close Map

Press 'Tool'->'Close Map' to close MapKing™ 3D. Please be remind 'MapKing™ 3D' will run on the background if you do not exit the program, which occupied resource of your PPC.

Basic operation

Main-Menu The description of Main Menu options



Switch Map: Close the current map and switch to another.

File: To import/export 'My Favorite'

Style: Day/Night Mode

More: Enter the advanced functions, Search mode, Routing page, My Favorite and Travel book functions.

Options: System setting.

GPS/ Track: GPS setting and track management.

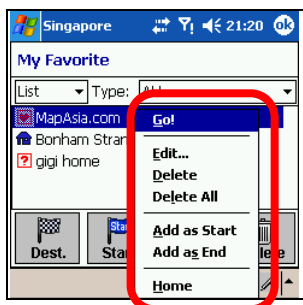
Help: Legends category and current map information.

About: License and copyright announcement.

Tap-And-Hold-Menu on map to call the sub-menu.

My Favorite:	Add the stroke to 'My Favorite'
Home:	Set the stroke to 'My Home'
Remove My Favorite:	remove the self define POI from map if any.
Add as Start:	Set as starting point
Add as End:	Set as destination
Remove:	Remove Start/End if any.
Routing:	after Start/ End have been setup
Simulate:	after routing result achieved you may press simulate to start simulation in GPS mode.

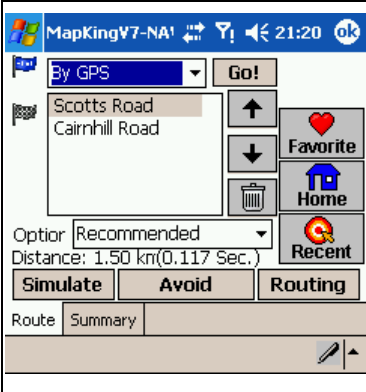
My Favorite (MY POI) lets you place and manage self-created POI (Point of interest) in an overlaid map layer.

	<p>To setup a POI, you may:</p> <ul style="list-style-type: none"> Build by tap-and-hold menu from main map. Build from tap-and-hold the search result Tap and hold POI to all the submenu from further actions. To import/ Export the 'My favorite' contents. Press 'Tools' -> 'File' -> 'Import /my'
--	--

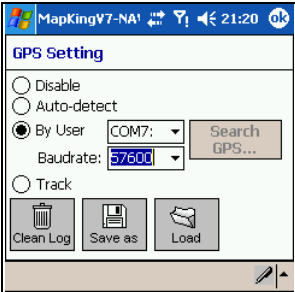
Search Functions

<p>Index Search This search mode is equivalent to browsing a dictionary or directory organized in alphabetical order. Enter any alphanumerical string and all records with the first X characters of their name matching the input text string will be listed as the search result.</p>
<p>Keyword Search "Keyword" is equivalent to wild card search. It would search for the appearance of the input string anywhere within the name field of the record</p>
<p>POI Search Category Select Point of interest based on the following four criteria from the pull-down menu highlighted with conditions type, city and area.</p>
<p>Search by Distance Range (Position) Find locations within a fixed distance range from the center point of the current map window ranges from 100 meters to 2500 meters.</p>
<p>District Centre Location (Area) Select a main district from the "City List" and then a secondary district from the "Town List".</p>
<p>Search by Co-ordinates (Lat/Long) Search the longitude latitude coordinates either in decimal format or degree-minute-second format</p>
<p>Search by Group Category (Q-find) check the POIs from GPS position with 2km radius.</p>

Routing Functions

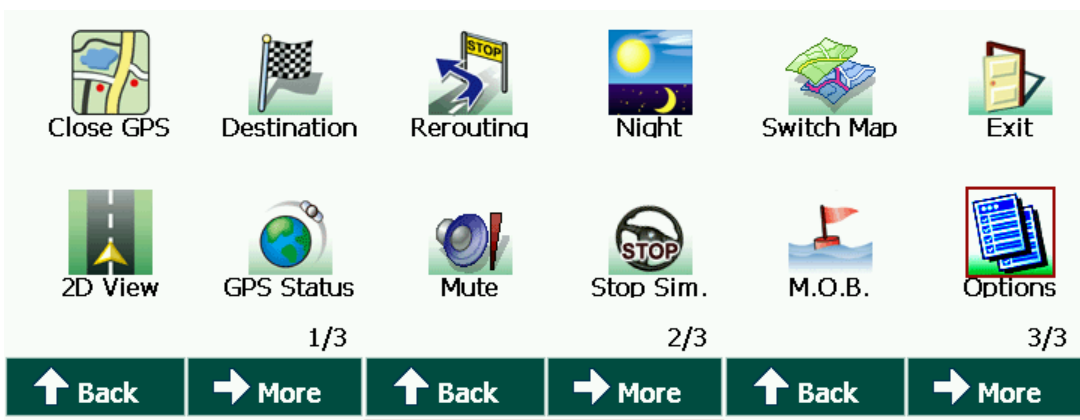
	<p>You must setup the routing point before start using routing function.</p> <p>There're several options you can adjust the results.</p> <ul style="list-style-type: none"> use arrow to change the sequence of destination use bin to eliminate section use option to change the preferably type. use avoid to avoid roads in from result. <p>Routing result. After adjustment you must press routing again to achieve the change.</p> <p>Simulate to start simulation by result of routing.</p> <p>Browser turn by turn result by Summary.</p>
---	--

GPS/ Track setting

	<p>Disable--- stop any track playing or GPS real-time tracking.</p> <p>Auto-detect--- can detect most brands of GPS in the market.</p> <p>By User--- user specify the Baudrate and COM Port. This is for advanced user, please reference to GPS device manufacturer user manual for designated model of GPS device.</p> <p>Track--- Open, Save and replay the track records. The track record will be store until you start a new trip or press 'Clean log' from here</p>
--	---

GPS mode

Open GPS will lead you to 'GPS mode' in MapKing™ 3D which contains the following displays.

					
Close Map--- Close GPS, switch to 'Map View' mode		Rerouting--- Rerouting based on actual position		Switch Map--- Switch to other Map file.	
Destination--- Change destination or Stop GPS and routing options.		Day/Night--- Switch Day/Night mode		Exit--- Close MapKing™ 3D	
2D/3D view--- Switch between 2D and 3D GPS view		Mute--- Disable vocal assistance		M.O.B.--- Mark GPS position, only work when GPS is on.	
GPS Status--- View the GPS signal status		Start/Stop Simulation--- Re-start simulation		Option--- Enter the general setting.	

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Important Message

IMPORTANT MESSAGE CONCERNING THE USE OF MAPKING™ BY VEHICLE DRIVER:

TO ENSURE SAFETY DRIVING, WE STRONGLY ADVISE THAT A DRIVER SHOULD NOT OPERATE MAPKING™ WHILE DRIVING THE VEHICLE SIMULTANEOUSLY. A DRIVER SHOULD NEVER FOCUS HIS OR HER ATTENTION ON THE MAPKING™ DISPLAY WHILE DRIVING.

In case MapKing™ needs to be used inside a vehicle, we suggest that it should be operated by a passenger other than the driver or the driver should stop the vehicle at a convenient spot before starting to use MapKing™.

IMPORTANT MESSAGE CONCERNING ROUTE PLANNING :

The route planning function of MapKing™ is ONLY meant to be and should ONLY be used as a crude reference. IT SHOULD NEVER BE USED TO DETERMINE ACTUAL DRIVING DIRECTIONS. The Route Planning function of MapKing™ is subject to the following limitations :

- Whilst we have taken great care and endeavors in developing the product, we CANNOT guarantee that the road network data and routing calculations of MapKing™ are free of any omission or defect.
- The road network and traffic conditions in the real world are ever changing, MapKing™ being a pre-packaged product cannot reflect all these changes on a constant basis.
- Road network parameters specifically required for route planning, like one-way traffic indicator or turn restrictions at street crossing, are difficult or almost impossible to obtain for China or some other Asian countries. The lack of these data would significantly affect the performance of route planning.

IMPORTANT MESSAGE CONCERNING GPS (Global Positioning System) TRACKING:

The GPS tracking function of MapKing™ works on GPS satellite signals broadcasted for civilian use. It is subject to inherent signal deviations and environmental interferences caused by surroundings and bad weather. We cannot guarantee nor specify a precise level of accuracy for the GPS positioning data displayed by MapKing™. It should also be noted that the United States Department of Defense, who builds and operates the GPS system, is free to turn off or down-grade the civilian signals of GPS during rare occasions like regional military conflict. Although MapKing™ should work with most GPS receivers on NMEA0183 signal output format regardless of their brand name or model, we cannot guarantee that MapKing™ integrates flawlessly with ALL GPS receivers available in the market.

1 Introduction

1.1 Product Description

Thank you for using MapKing™!

MapKing™ is the first pan-region multilingual mobile mapping system in Asia managed by MapAsia.com Limited with input from leading Asian partners. It is a great tool for trip planning and to explore the huge potential market in Greater China and Asian countries (Maps sold separately for different OS and language). MapKing™ is the first digital map provides English road name and place name in China and Asian cities. MapKing™ has firmly established market leader status as the bridge between western travelers and the rapid growing cities in East.

MapKing™ offers maps in English, Traditional Chinese, and Simplified Chinese. Current maps are available for the following cities and regions, **Please check the OS and Language before you purchased**

Greater China : Beijing, Shanghai, Hong Kong, Gunagzhou, China 2300 cities Points, Pearl River Delta Road Network, Shenzhen, Dongguan Macau Hong Kong Hiking Trial, Taipei, TaiChung, Tainan, Hsinchu, KaoHsiung

Asia cities countries : Bangkok, Manila, Singapore with Johor, Jakarta, New Delhi, Tokyo, Kuala Lumpur, Ho_Chi_Minh City Tourist map, Seoul Tourist Map, Asia map

Planned locations: Australia, New Zealand, Iceland; Greece...

We wish you enjoy our product and we appreciate your comments and suggestions. Please contact us by support@mapasia.com.


This manual is divided into three main sections:

First section: Installation and registration.

Second section: Map features and functions

Third section: Route Planning and GPS functions

1.2 Software and Map Version

<p>Product name: MapKing™ 3D Please refer to 'Tools' → 'About' for Software and Map version information</p>	 <p>《Figure1-2-1a》 The version information</p>
---	--

1.3 MapKing™ 3D Features

Main Features:

- High quality digital maps with latest map database
- Multiple Platforms : PC/ Pocket PC / Smartphone
- 2D/ 3D Navigation .
- GPS global satellite positioning function
- Route Planning
- Real-Time Tracking of GPS position
- Intelligent Voice Assistance
- Track Log Export
- Multiple search modes
- Query by index/ Query by category/ Query by position
- Query by area/ Query by coordinates
- User-defined view point

System Requirement

- Pocket PC 2003 or above
- For Chinese Map, OS must support Chinese display
- Minimum 32 MB RAM
- 8M hard disk space required
- 64MB storage card is recommended
- The PC MUST have Microsoft ActiveSync 3.7.1 or above

Platform:

- PC OS:Windows 98/Me/XP/2000
- PocketPC OS:Pocket PC/2000/2002/2003
- CPU: StrongARM/XScale/MIPS/SH3
- RAM: 32MB(Support Storage Card)

Support GPS:

- RS-232/CF/PCMCIA/Bluetooth/USB
- NMEA0183 Output

2 Installation and Activation

2.1 Product Installation

Installation of MapKing™ 3D included 2 parts:

1. Installation of Main Program
2. Installation of Map data

2.1.1 Main program installation

Please reference to the following steps:

Step 1: Enable ActiveSync connection between PC and Pocket PC

Step 2: Locate the 'Setup_MapKing™.exe file from the CD-ROM and double click to start.

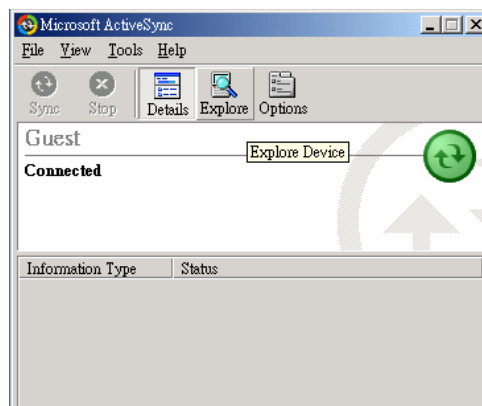
For download version please run setup directly.

Step 3: Choose the appropriate map language version you have purchased.

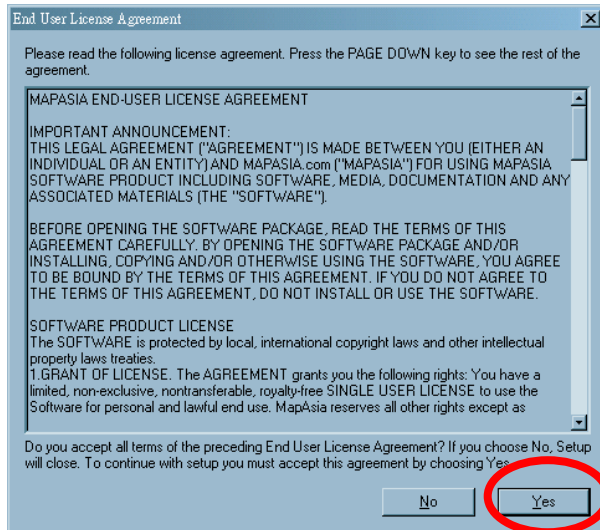
Step 4: Choose Pocket PC version.

Step 5: Click the installation button

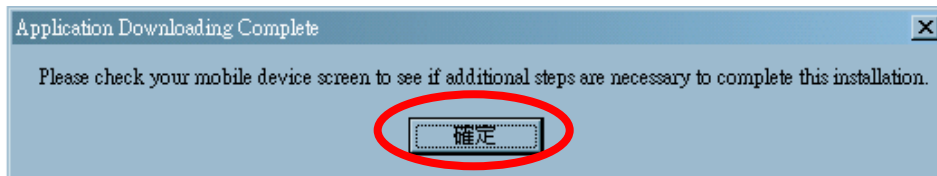
- If you cannot find the path, please search out the EXE files e.g. Setup_PPC_MK.exe from your CD-ROM
- If Activesync do not start automatically please press “Start”-> “Program” to start Activesync
- Activesync is available to download from www.microsoft.com



《Figure2-1-1a》 Peer with PC by Active sync



《 Figure2-1-1b 》 Press 'Yes' to continue if you agree the End User License agreement.



《 Figure2-1-1c 》 Check Pocket PC for the installation status.

2.1.2 Map Data Installation

MapKing™ offers an extensive range of map products and we cannot determine in advance the specific map(s) chosen by a customer. A DEMO Map is included in the "set up .exe" to verify that the core program has been installed and display successfully. To use a full map you've purchased, please follow the steps below:

Step 1: Enable ActiveSync connection between PC and Pocket PC

Step 2: Copy the map file (File extension .mk7) you've purchased from your CD-ROM.

XXX_TC.mk7 represents Traditional Chinese map files

XXX_SC.mk7 represents Simplified Chinese map files

XXX_Eng.mk7 represents English map files

XXX_SP.mk7 represents map files for Smartphone

Step 3: Paste the file to \\Storage\\Program Files\\MapAsia\\MapKing™3D OR \\My documents

If you'd like to place the map file in your storage card, please create a folder name 'My documents' and place it there. **"My Documents" is the fixed default path used by MapKing™ to locate map file.**

2.2 Product Registration

This product MUST be register to activate permanently. User cannot continue to use the product after the 3 days trial period without registration for Pocket PC version

The Maps in CD-ROM except the licensed map are for trial only. You may also download the trial version from <http://www.MapKing.com/>. Please reference to 2.1 for installation of map data for trial, and reference to 2.3 to switch map in program.

2.2.1 Hardware ID (MK ID)

The first thing you can see after you start MapKing™ 3D program from Pocket PC screen is the registration page. The registration page is shown on the right.

You should see MK ID that is generated from the unique hardware device signature embedded in the hardware (PPC or PC).

Attention: The MK ID must be input correctly to achieve the correct registration code.

Please aware the character / number 《Figure2-2-1a》 The hardware code is an difference (e.g.0or O, 1or l) unique identification with of your Pocket PC.



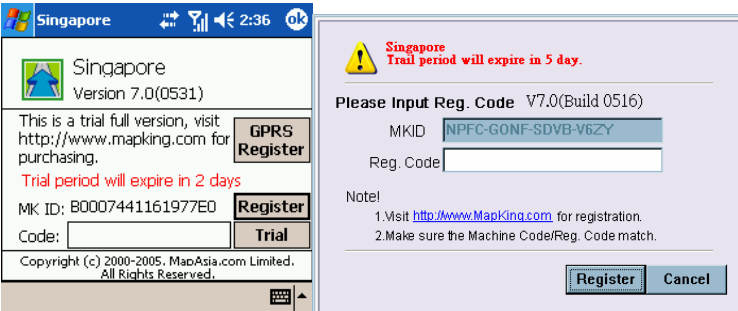

2.2.2 Obtain Registration Code Online

From the package you will have a product authorization card with a “Product Authorization code” of which is a 10 digits combination code.

To get the “Product registration code”(16digits), please follow the steps below:

1. Connect to Internet, Choose registration from <http://www.MapKing.com/>
2. Input the “Product Authorization code”
3. Input the MK ID (ref: 2.2.1a) or Smartphone owner name for Smartphone version (ref: 2.21b); please make sure you’ve input the correct code/ owner name
4. Input the information request. This information is confidential and will use for upgrade notification and promotion. Please make sure you have input all fields correctly.
5. Get the “Product Registration code” for registration in Pocket PC.
6. Print the page for further reference.

2.2.3 Register in Pocket PC/ PC/ Smartphone

For PC/ Pocket PC	For Smartphone
<p>After you have obtained the Registration Code, launch MapKing™ and open the map and enter the code in the Registration screen. Press Register to complete the registration</p> <p>If the map is already open, Press 'Tools'->'About'->'Register' to bring up the Registration screen.</p>	<p>Setup the Smartphone ownername from "start"->"setting"->"ownerinformation" and put the registration code for permanent use of MapKing™ 3D</p>
	
<p>《Figure2-2-3a》 Input the 16 digits registration code to register</p>	<p>《Figure2-2-3b》 Ownername</p>

2.2.4 Register MapKing™ with GPRS connection (optional)

An alternative way to obtain registration code for your product is to register through GPRS connection. Please press "GPRS Register" at registration page as fig2-2-3a. The GPRS Internet connection will be enable. And use your MKID and Product Authorization code to achieve the registration code of your product. You must have valid SIM card installed and GPRS service to achieve this function.



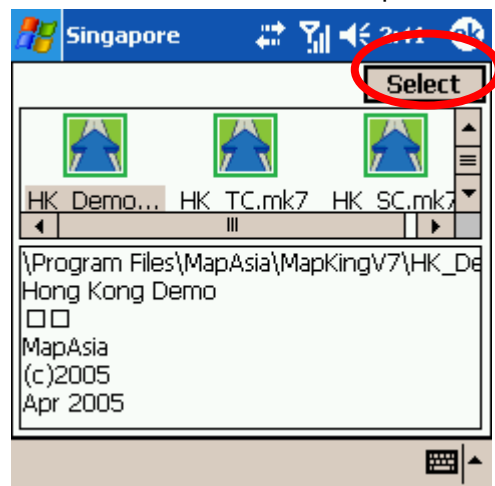
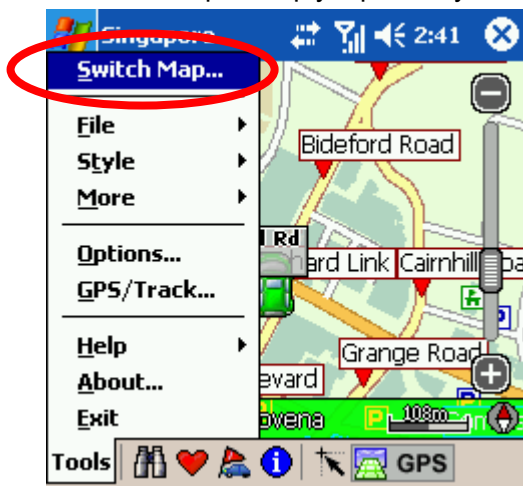
《Figure2-2-4a》 Enter your Authorization code here. And fill in the registration information the web request.

2.3 Launch MapKing™

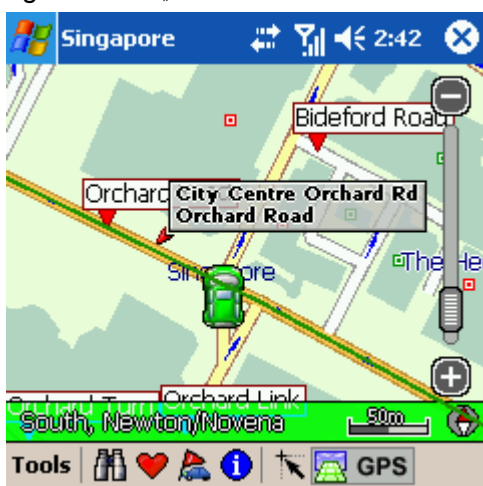
MapKing™ is launched in the similar way like other software installed in your pocket PC. Tap the start-up icon at the upper left corner of the screen, you should find the MapKing™ program icon within the upper row of the pop-up menu, tap again to launch MapKing™. If MapKing™ does not show up in the list of recently launched programs, select "programs" in the menu will open another listing all programs installed in your PPC and you could then launch MapKing™ from this second Menu

2.3.1 Switch Map

User may have more than one map installed, select "Tools> Switch Map" would bring up a list of all the maps, simply tap on any item within the list to switch to a new map. .



《Figure2-3-2a》 Press 'Tools'-'>'Switch Map' 《Figure2-3-2b》 Press select



《Figure2-3-2c》 Map Switched.

2.3.2 Close Map

Press 'Tool'->'Close Map' to close MapKing™ 3D. Please be remind 'MapKing™ 3D" will run on the background if you do not exit the program, which occupied resource of your PPC.

2.4 Remove MapKing™ 3D

Follow steps below to remove / uninstall MapKing™ 3D Program.

1. Press 'Tool'->'Close Map' to close MapKing™ 3D.
2. Press 'Start'->'Setting'->'System' ->'Remove Program'

2.5 Product Upgrade

The license allows end user to register ONLY ONE MAP out of the allowed maps as it is. End user might need to purchase product upgrade. Registered user will receive our News via email. Visit <http://www.MapKing.com/> for more information.

Please read the briefing before you download the latest update.

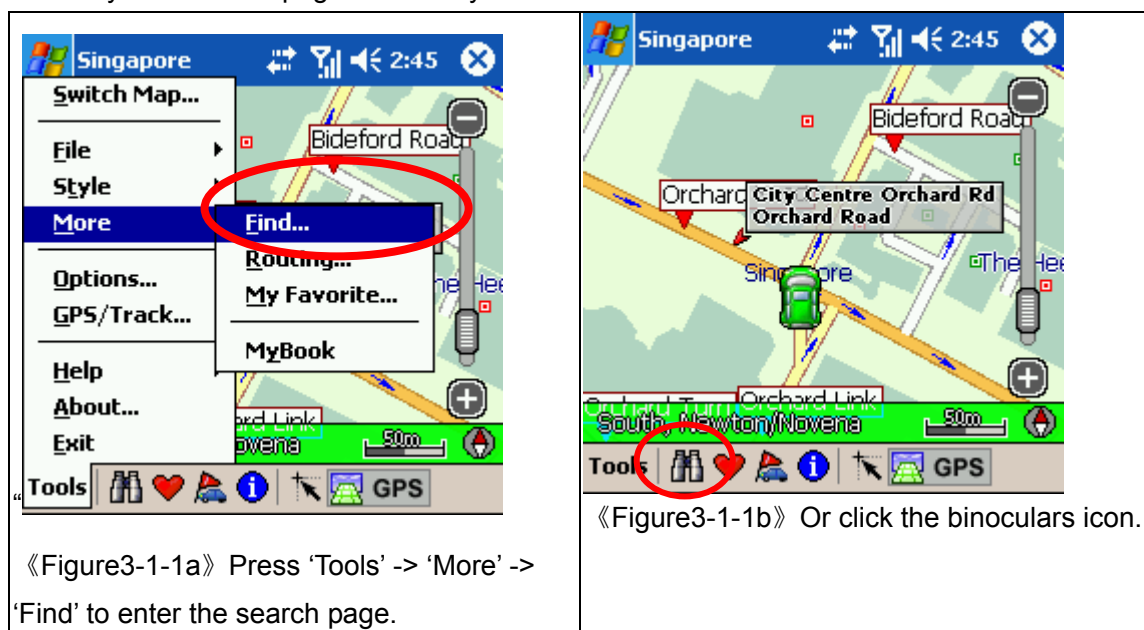
3 Basic Functions

3.1 Search Functions

MapKing™ 3D search functions included: Index, Keyword, Position, Area, Long/Lat, Crossing etc. Press the index of pages to switch different search functions.

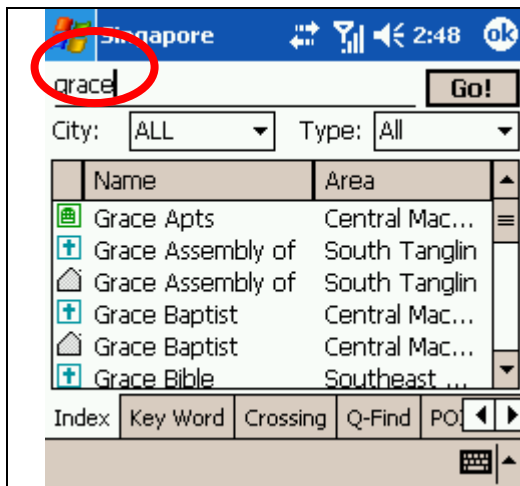
3.1.1 Search Startup

You may start search page in two ways:

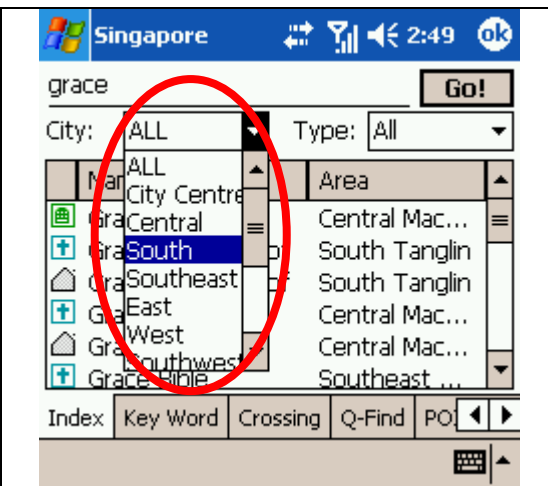


3.1.2 Index Search (by alphanumerical order)

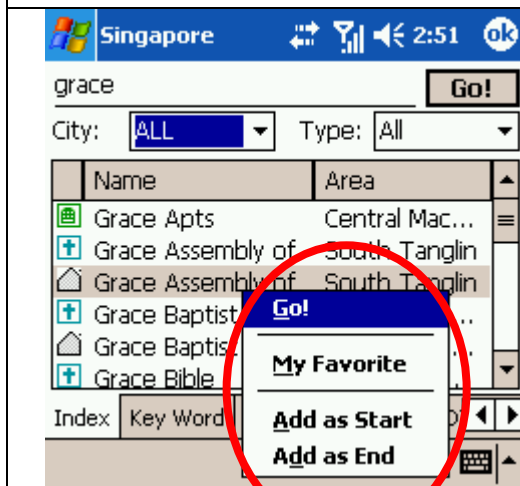
This search mode is equivalent to browsing a dictionary or directory organized in alphabetical order. Enter any alphanumerical string and all records with the first X characters of their name matching the input text string will be listed as the search result. The following picture shows the result of index search using “Grace” as input string.



«Figure3-1-2a» List all the result begin with “Grace”, non case-sensitive.



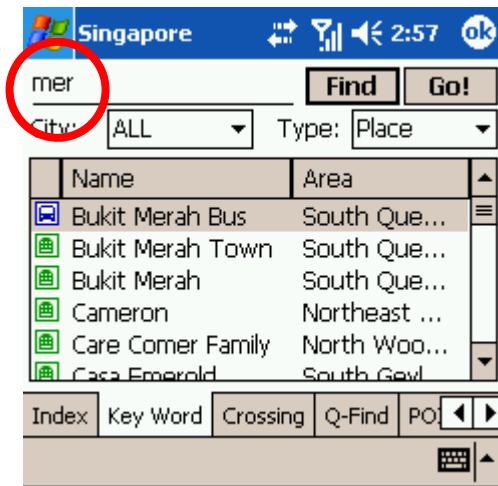
«Figure3-1-2b» Obtain the result by defined area and nature of POIs.



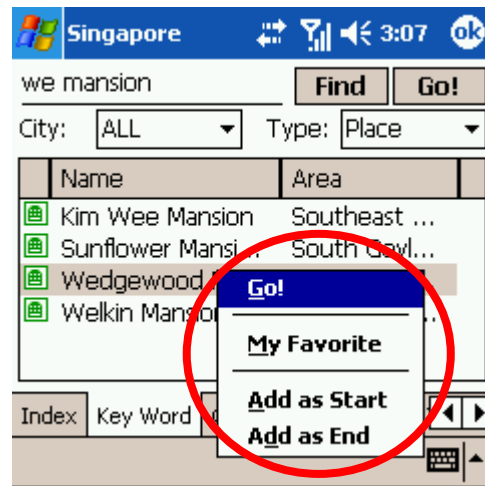
«Figure3-1-2c» Tap and Hold to call the submenu for further action.

3.1.3 Keyword Search (Wild Card Search)

“Keyword” is equivalent to wild card search. It would search for the appearance of the input string anywhere within the name field of the record. If “mer” is used as the input sting, then the search result would show “Emerald Mansion” and “Mera Garden”. You can input up to 5 keywords in each search to be separated by comma, semi-colon or space. For example, if you enter “we mansion” as search string, the system would return “Kim Wee Mansion”, “Wedgewood Mansion” and “Welkin Mansion” as search result.



«Figure3-1-3a» Enter the Key word as 'mer' to show that all records relate to 'mer'



«Figure3-1-3b» Tap-and-Hold to call the submenu to show that all records relate to 'mer'

Remarks:

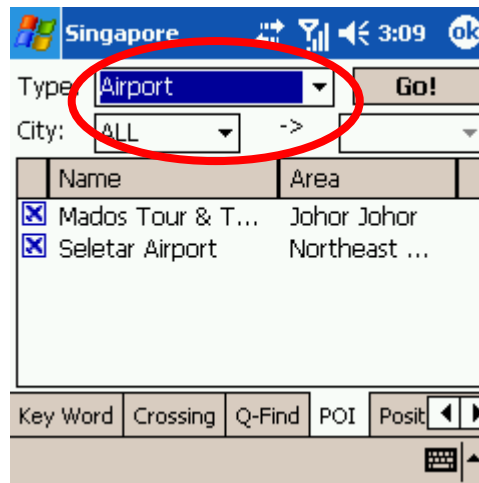
This function used to compare every record from compressed database therefore a longer processing time is required. User may conditioned the search area or type to increase the performance of this search.

3.1.4 POI Search (Point of Interest) search Category

Select POI based on the following four criteria from the pull-down menu highlighted :

- 0 Area : First-tier District
- 1 Town : Second-tier District
- 2 Type : Main POI Category
- 3 Sub-type : Secondary Category

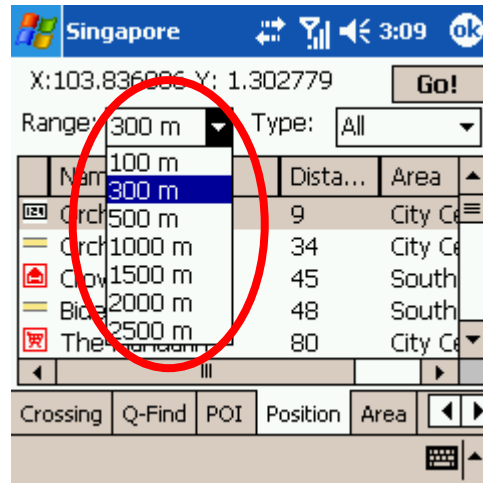
Tap an item within the result list and select "Position" to show its location in the map window.



«Figure3-1-4a» Choose the type, area and district.

3.1.5 Search by Distance Range

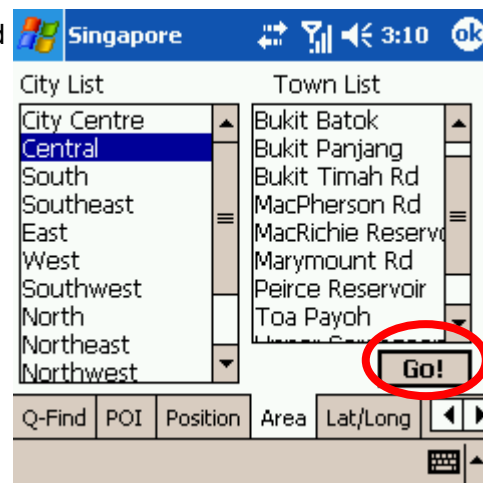
Find locations within a fixed distance range from the center point of the current map window. There are 7 fixed search ranges from 100 meters to 2500 meters. Tap an item in the result list and select “Go” to have the map zoomed into that item. Coordinates of the search center point are displayed on top of the menu.



«Figure3-1-5a» Ranges from 100 meters to 2500 meters.

3.1.6 District Centre Location

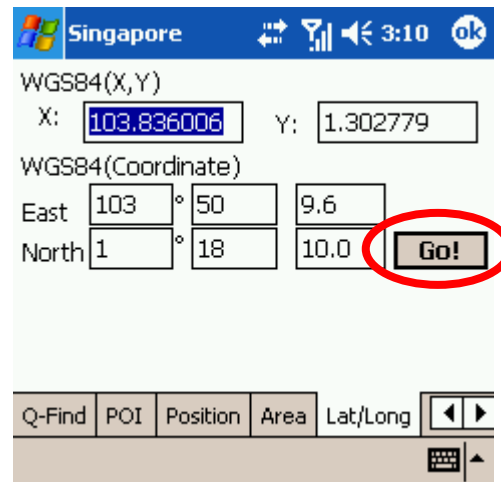
Select a main district from the “City List” and then a secondary district from the “Town List”, tap “Go” to locate the selected district in the map window.



«Figure3-1-6a» Choose the area and sub-area.

3.1.7 Search by Co-ordinates

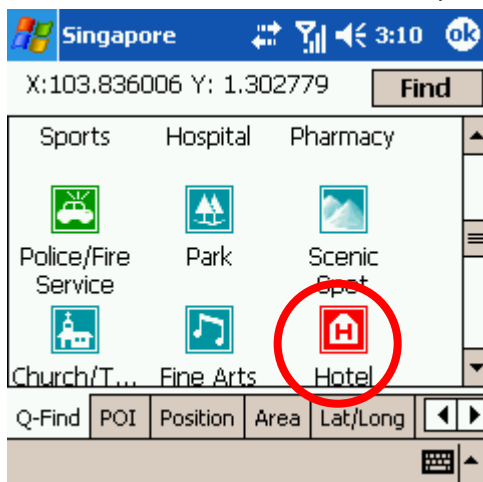
Enter the longitude latitude coordinates either in decimal format or degree-minute-second format, hit the “Go” button and the map will be re-centered to the input coordinates.



《Figure3-1-7a》 Enter the longitude latitude coordinates.

3.1.8 Search by Group Category (Q-find)

Q-find is to check the POIs from GPS position with 2km radius. Available at 'GPS' mode.



《Figure3-1-8a》 Pick the types of POI.



《Figure3-1-8b》 Highlight the result and press ‘Go!’.

3.2 My Favorite function (My POI)

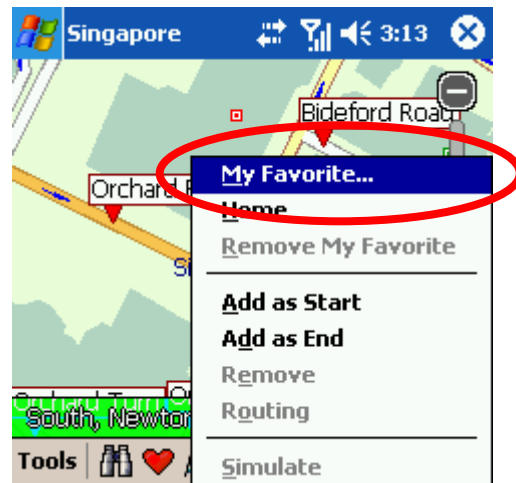
“My POI” lets you place and manage self-created POI(Point of interest) in an overlaid map layer. To create a new POI, tap at the target spot on the map screen and select “My POI”, then enter relevant information in the input menu.

In this chapter we'll show you how to build-up, manager your own POI database.

3.2.1 Build POI

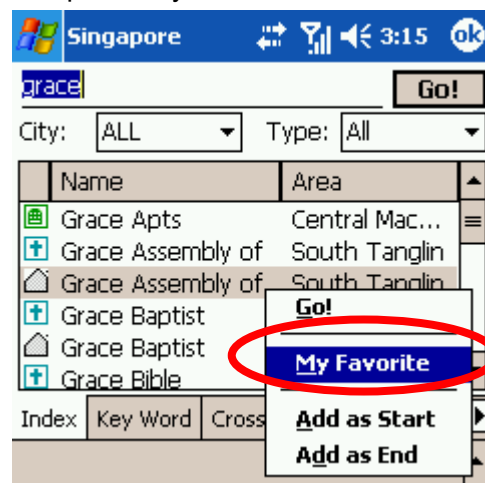
Build a new record in two ways:

1. Build from the current map: Tap and Hold the position to call the submenu, 'Add My favorite'



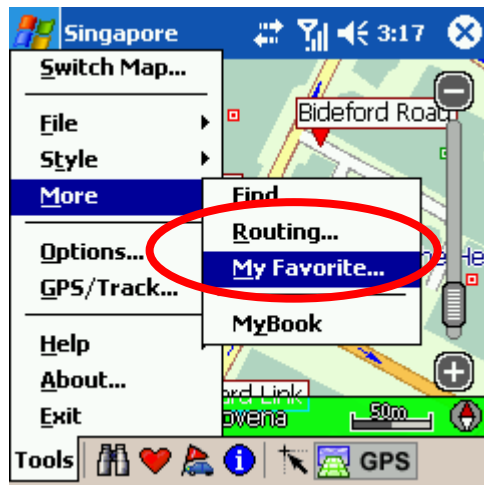
《Figure3-2-1a》 Tap and Hold on main map and press 'My Favorite' to add POIs.

2. From Search result: Use any search method to search a POI, Tap and Hold the result and press 'My Favorite'



《Figure3-2-1b》 Press 'My Favorite' to build POI

3.2.2 Manage POI

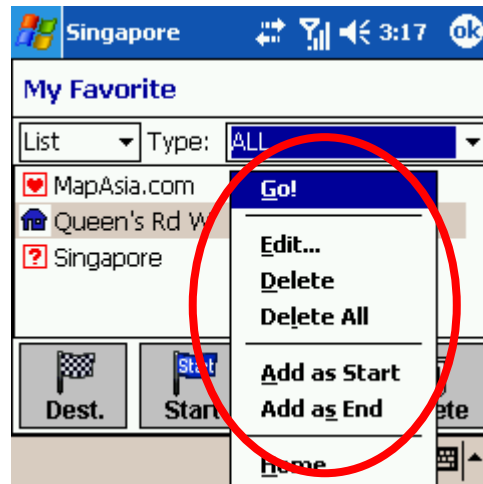


《Figure3-2-2a》 Press 'Tools' -> 'More' -> 'My Favorite' to enter the POI management page.

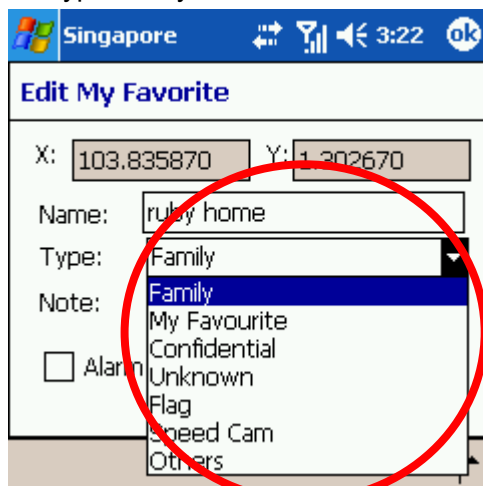
3.2.3 Edit POI



《Figure3-2-3a》 Choose the display mode or the type of 'My favorite'.



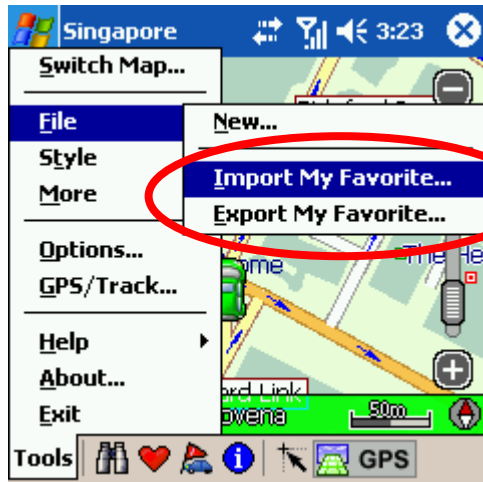
《Figure3-2-3b》 Tap-and-hold POI for sub menu options of the POI



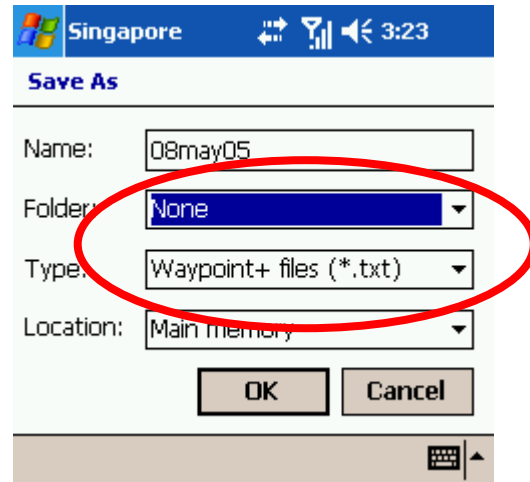
《Figure3-2-3c》 Press 'edit' to edit the contents of POI. The 'Alarm' checkbox is a reminder if your route is close to 'My favorite' POI.

3.2.4 Import/Export POI

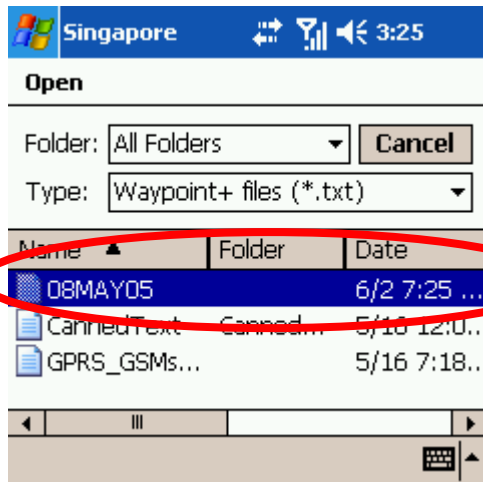
After POI database build up, user may need to backup the POIs or share with friends. Use the Import/ Export functions to do it.



《Figure3-2-4a》 Press 'Tools'-> 'File' for import/export option of 'My Favourite'.



《Figure3-2-4b》 Choose the property of file to be import.



《Figure3-2-4c》 Choose the import file.



《Figure3-2-4d》 Import succeed!

4 Route Planning

IMPORTANT MESSAGE CONCERNING ROUTE PLANNING:

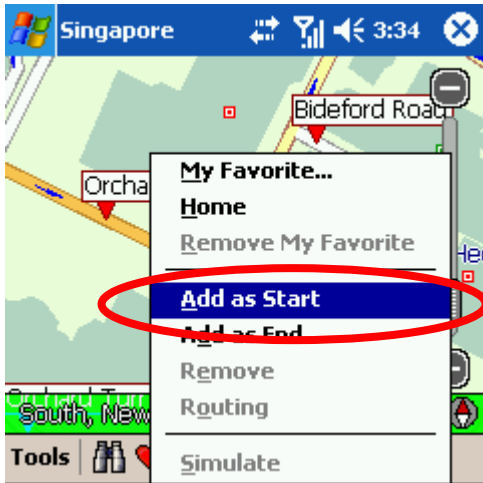
The route planning function of MapKing™ is ONLY meant to be and should ONLY be used as a crude reference. IT SHOULD NEVER BE USED TO DETERMINE ACTUAL DRIVING DIRECTIONS. The Route Planning function of MapKing™ is subject to the following limitations:

- Whilst we have taken great care and endeavors in developing the product, we CANNOT guarantee that the road network data and routing calculations of MapKing™ are free of any omission or defect.
- The road network and traffic conditions in the real world are ever changing; MapKing™ being a pre-packaged product cannot reflect all these changes on a constant basis.
- Road network parameters specifically required for route planning, like one-way traffic indicator or turn restrictions at street crossing, are difficult or almost impossible to obtain for China or some other Asian countries. The lack of these data would significantly affect the performance of route planning.

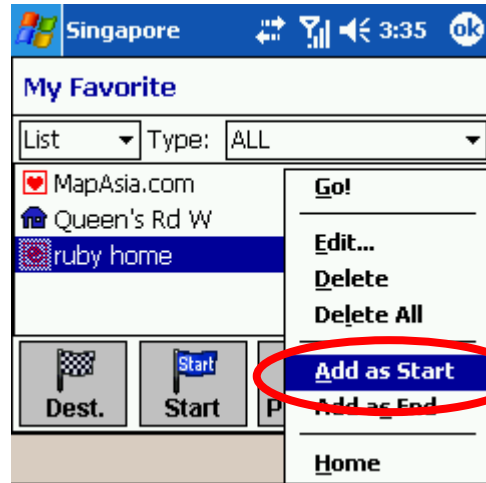
4.1 Route Planning

4.1.1 Create Start/ Destination (Routing points)

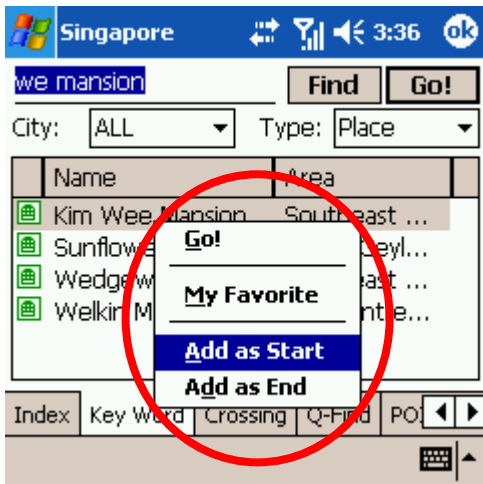
To initiate route planning, at least 2 routing points (Start, Stop, End) must be assigned. Tap at the precise spot and select “Routing” to add a routing points (Start / End / Stop), select “Remove Stop” to delete a routing point. MapKing™ supports up to a total of 9 routing points. It should be noted that Route Planning is calculated from the embedded road network data. Accordingly, the routing points should be placed either on top of or very close to the street lines. There're 3 ways to setup routing point : Namely Search on Main Map / My Favorite / coordinates



《Figure4-1-1a》 On Main Map, Tap and Hold the file and choose 'Add as Start' option at sub-menu.



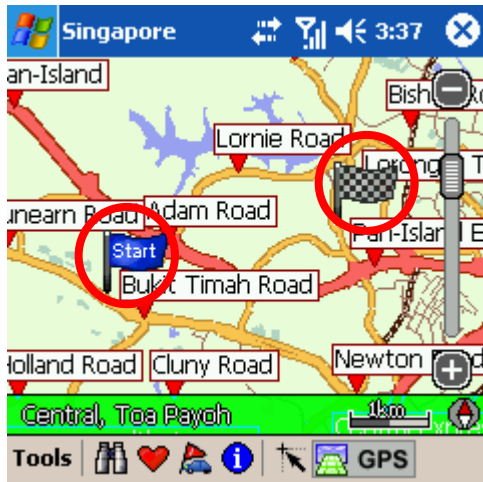
《Figure4-1-1b》 In 'My Favorite' page, Tap and Hold the POI and choose the option at sub-menu.



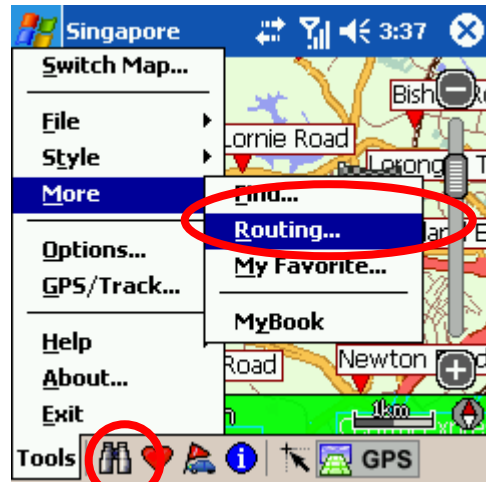
《Figure4-1-1c》 From search result, Tap and Hold the POI and choose the option at sub-menu.

4.1.2 Enter Route Planning page

Once you have 2 or more routing point, you can start the route planning. You have 2 ways to enter routing page.



《Figure4-1-2a》 Set up 2 Routing points.



《Figure4-1-2b》 Press 'Tools' -> 'More'

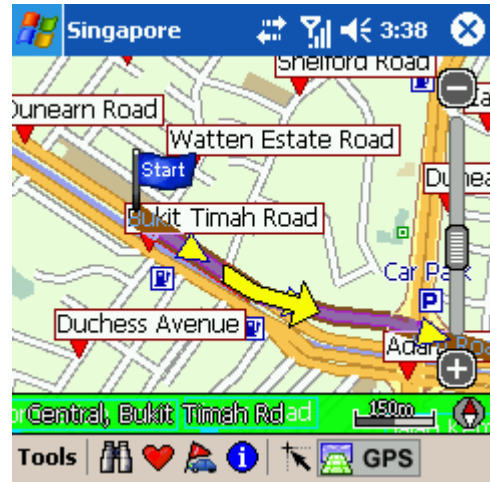
-> 'Routing' or press the "Flag by Car" Button in the function bar.

4.1.3 Get the result

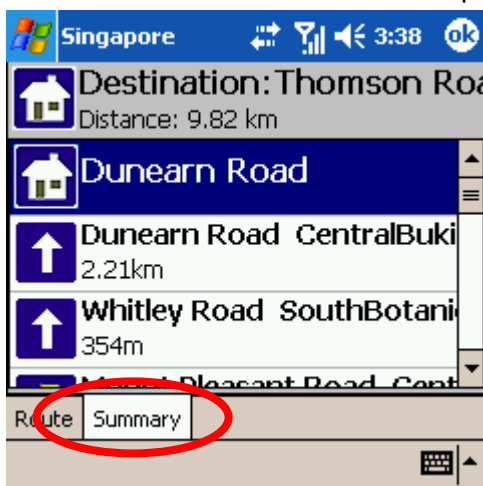
In Routing planning page press 'Routing' to achieve the result.



《Figure4-1-3a》 Press 'Routing' , the total distance and calculation cost will be display.



《Figure4-1-3b》 Press 'ok' to exit. The recommend path will be highlight on map.

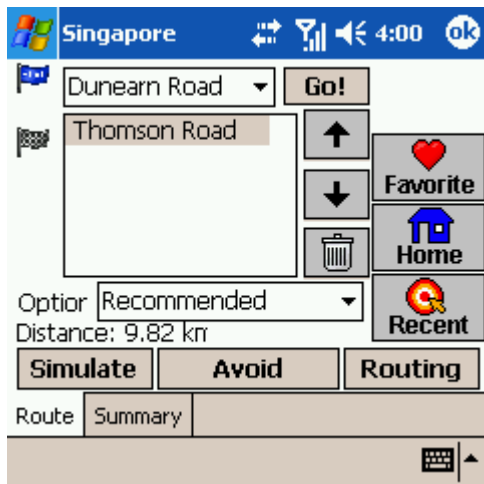


《Figure4-1-3c》 Turn-by-turn result will be display if you press 'Summary'

4.1.4 Adjust the route

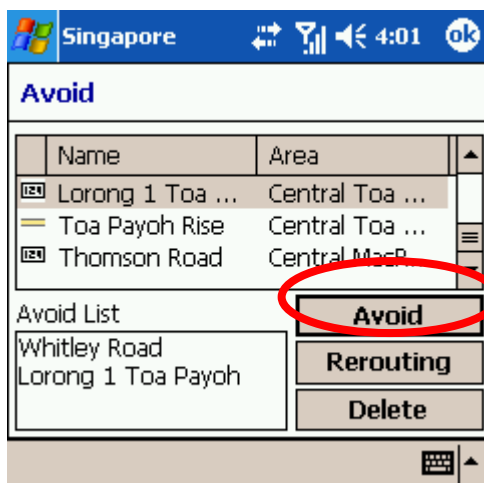
There're several options you can adjust the results.

1. by adjust the sequence of destination
2. by eliminate section
3. by calculate condition

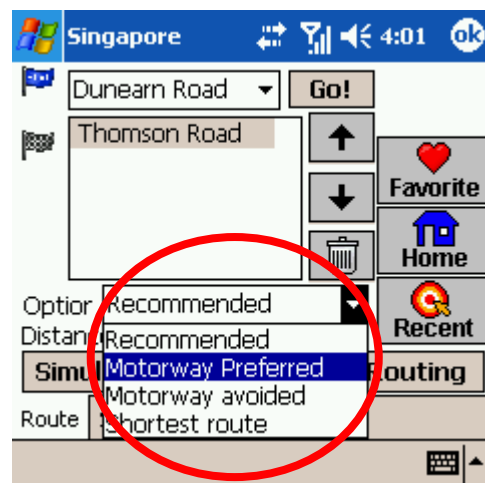


1. Change the sequence of destination. Press Routing again to achieve the result.
2. Press 'Avoid' to enter the avoid list of section.
3. Press the list box of 'option' to avoid specific types of road. You must press 'Routing' again to achieve new result.

《Figure4-1-4a》 Change the sequence to destinations. Press Routing again to achieve the result.



《Figure4-1-4b》 Pick section to be avoid.



《Figure4-1-4c》 Pick your path preferal.

The parameter of 'Option' is as below.

Recommended: This is the default Option based on the parameters of each street line segments within the road network.

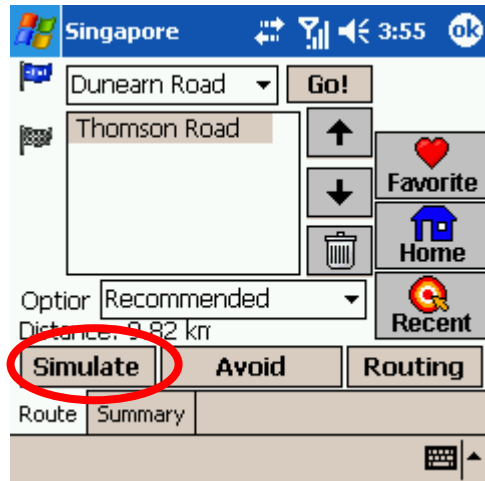
Motorway preferred: Assigns high priority to expressways, highways and freeways and avoid secondary roads and streets. This is particular suitable for vehicle route planning.

Motorway avoided: Avoids expressways, highways and freeways. This option is suitable when planning a cycling or walking trip. You may also use this option during rush hours to stay away from highways that are prone to traffic jams.

Shortest route: this option Ignores road class parameters and calculates routes purely on length of road segments. This is a rarely used option since the shortest route in many cases does not mean the fastest route.

4.2 Route Simulation

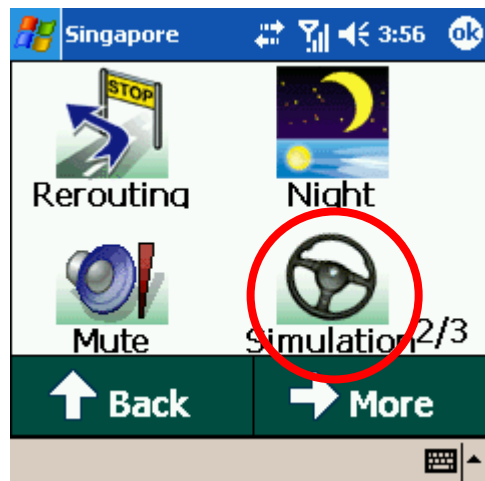
MapKing™ provides more than result and paths. We also provide 2D/3D simulation. After Start and Destination have been created, with the routing result you may simulate the course of the planned route and have further adjustment.



《Figure4-2-1a》 Press 'Simulate' to enter 'Simulation mode'



《Figure4-2-1b》 Simulating by standard speed 85km/h. Click on the center to enter setting. Click on upper row to enter search options.



《Figure4-2-1c》 In setting, Press 'Stop Sim.' to stop Simulation.

5 GPS Positioning

IMPORTANT MESSAGE CONCERNING GPS (Global Positioning System) TRACKING:

The GPS tracking function of MapKing™ works on GPS satellite signals broadcasted for civilian use. It is subject to inherent signal deviations and environmental interferences caused by surroundings and bad weather. We cannot guarantee nor specify a precise level of accuracy for the GPS positioning data displayed by MapKing™. It should also be noted that the United States Department of Defense, who builds and operates the GPS system, is free to turn off or downgrade the civilian signals of GPS during rare occasions like regional military conflict. Although MapKing™ should work with most GPS receivers on NMEA0183 signal output format regardless of their brand name or model, we cannot guarantee that MapKing™ integrates flawlessly with ALL GPS receivers available in the market.

Please read the package for product information for product support GPS.

In this chapter we will discuss how to setup, operate the GPS functions and the functions provided by MapKing™ 3D with GPS.

5.1 About GPS

About GPS

GPS (Global Positioning System) is developed and maintained by the US Defense Department. The system was initially deployed for military use but was later open for civilian navigation. The system comprises of 24 satellites on different orbits. The GPS receiver on the ground picks up signals from at least three satellites and calculates its real time position by a set of mathematical formulas generally known as “triangulation”.

GPS receivers must maintain line-of-sight with the satellites. GPS won't work indoor and its accuracy tends to degrade significantly when the receiver is located under sheltered area or near high-rise building structure or terrain.

5.2 GPS startup

5.2.1 GPS setup

GPS receiver needs to establish clear line of sight to receive signals from satellites orbiting in the space. If the receiver is placed inside a vehicle or vessel, an extended antenna is normally required to pick up signals beyond the enclosed area of the vehicle or vessel. Please note that various types of I/O interface exist among different types of pocket PC (even for the same brand), you should ensure that the output interface of the receiver is compatible with your pocket PC. Consult the technical specifications or device dealer of your receiver or pocket PC if you are in doubt about compatibility.

For Bluetooth GPS, you'll need to setup the connection between GPS receiver and your Pocket PC. Please follow the manufacturer instructions and be reminded to press 'Connect' of GPS device before you start using GPS.

5.2.2 GPS Setting

With GPS and routing function MapKing™ 3D provide navigation function. Navigation mode also provides vocal assistance and turn indicator. 《Figure5-5-1a》



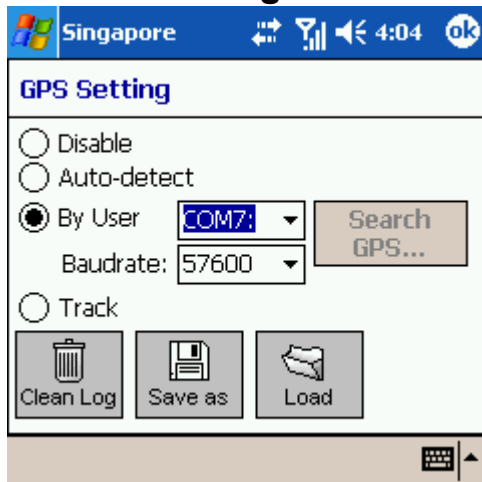
5.3 GPS mode

Open GPS will lead you to 'GPS mode' in MapKing™ 3D which contains the following displays.

<p>Close Map--- Close GPS, switch to 'Map View' mode</p>		<p>Rerouting--- Activate the Rerouting based on actual position</p>		<p>Switch Map--- Switch to other Map file.</p>	
<p>Destination--- Change your destination or Stop GPS and routing options.</p>		<p>Day/Night--- Switch Day/Night mode</p>		<p>Exit--- Close MapKing™ 3D</p>	
<p>2D/3D view--- Switch between 2D and 3D GPS view</p>		<p>Mute--- Disable vocal assistance</p>		<p>M.O.B.--- Mark the point of GPS position, only work when GPS is on.</p>	
<p>GPS Status--- View the GPS signal status</p>		<p>Start/Stop Simulation--- Re-start simulation from the beginning.</p>		<p>Option--- Enter the general setting.</p>	

5.4 GPS setting / Track Record

5.4.1 GPS Setting



《Figure5-4-1a》 Setting page

Disable--- stop any track playing or GPS real-time tracking.

Auto-detect--- can detect most brands of GPS in the market.

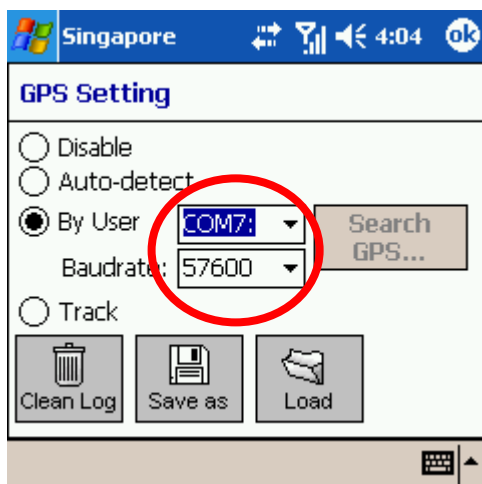
By User--- user select, for advanced user

Track--- Open, Save and replay the track records.

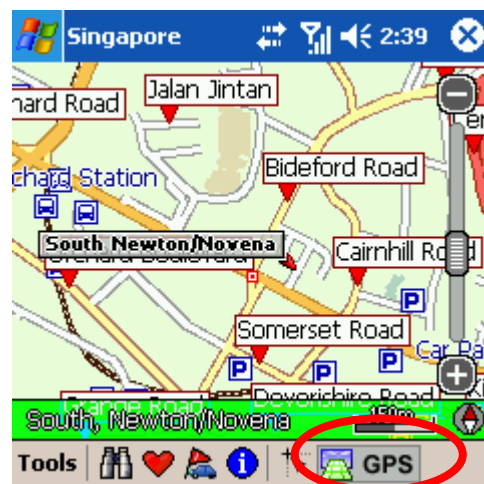
Remarks: Only Track Log files captured on live GPS signals can be saved, simulated routes generated by Route Planning cannot be saved."

5.4.2 Connecting GPS

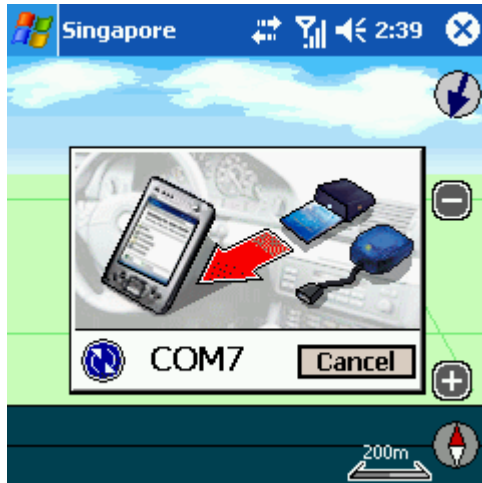
GPS/Track setting is define by manufacturer, which needs simply one click to enter GPS mode.



《Figure5-4-2a》 By user is for advanced user, Please use Auto detect.



《Figure5-4-2b》 Press 'GPS' to enter GPS mode



《Figure5-4-2c》 MapKing™ 3D will use the 《Figure5-4-2d》 GPS mode on!
default setting

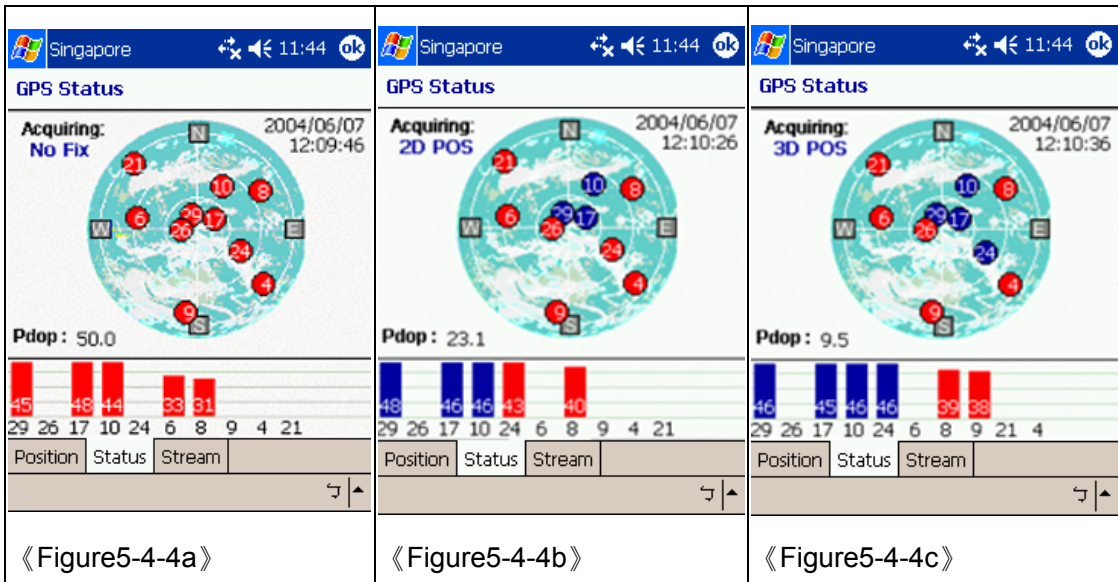
5.4.3 Position Information



《 Figure5-4-3a 》

1. Date/Time --- The clock is accurate only until positioning succeeds.
2. Vehicle Speed --- speed of vehicle by reading GPS.
3. Vehicle direction --- The estimate direction heading from last position.
4. Altitude ---for 3D GPS positioning system will need 4 good satellite signal or above.
5. Current Position --- can be fixed only with minimum 3 or more satellites detected.
6. GPS status --- 3 kind of status available, tick(✓) for successful position, question mark (?) for GPS warming up, cross (X) for GPS not available.

7. 5.4.4 GPS status



《 Figure5-4-4a 》 Acquiring No Fix represent the GPS is achieving position, all signals are not strong enough and displayed in red . Time/date not tuned and the Pdrop value is big.

《 Figure5-4-4b 》 2D Positioning acquired when 3 fixed satellite signals are in blue .

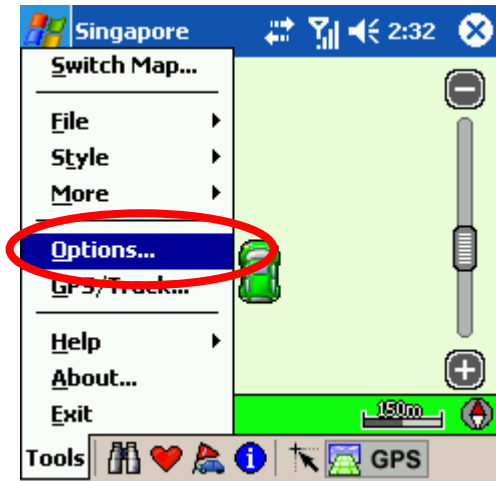
《 Figure5-4-4c 》 3D Positioning acquired when 4 or more satellite signals are fixed and the Pdrop value is relatively small.

Remarks: Large PDOP value means weak signal

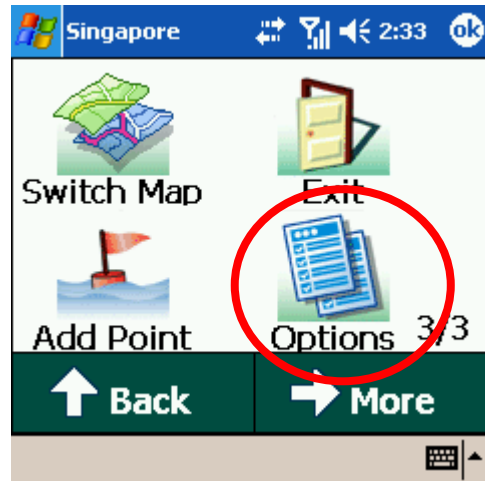
6 System Options

6.1 Enter System Options

There're 2 ways to set the options of MapKing™ 3D:



《Figure6-1-1a》 Press 'tools'-> 'Options' in 'Map view' mode.



《Figure6-1-1b》 Press 'Options' in 'GPS' mode.

6.2 General setting



《Figure6-2-1a》 General option page

Unit: the unit of distances can be either in miles or kilometers.

Interface: MapKing™ 3D support English, Traditional Chinese and Simplified Chinese interface. Choose appropriate interface according to your hardware OS.

Zoom control: The Zoom control bar position on main map.

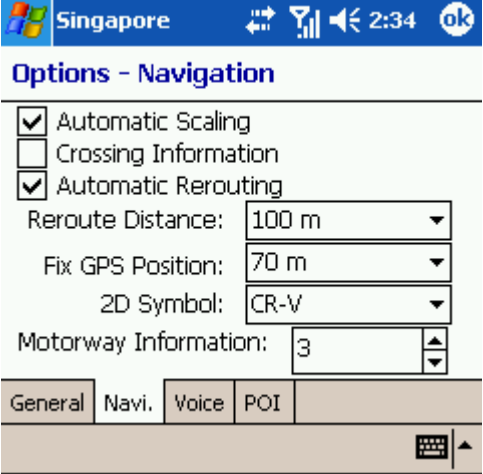

Guide line:

“GIS” : grid lines on the ground rotates with the screen

“Camera” : grid lines on the ground are static and do not rotate with the screen

Multi-turn Alarm: add 'then' in between the vocal instruction of the approaching turns.

Modify system time: use GPS time as

	<p>system time.</p> <p>Day/ Night auto switch: Switch Day/night mode by system clock.</p>
 <p>«Figure6-2-1b» Navigation options</p>	<p>Automatic Scaling: Shows best scale in GPS mode.</p> <p>Crossing Information: Show information of street intersections along the route</p> <p>Automatic Rerouting: activates re-routing if actual position tracked by GPS is deviated from the planned or desired route.</p> <p>Reroute Distance: The distance to define deviation.</p> <p>Fix GPS Position: Re-align GPS position to the nearest road of the desired distance range</p> <p>2D Symbol: The Symbol to represent the current position</p> <p>Motorway information: The number of sub-indicators shows on screen. (Reference to 5.4)</p>
 <p>«Figure6-2-1c» Vocal assistance options</p>	<p>Enable Voice: Enable vocal assistance in 'GPS mode'</p> <p>Instructor: The Instructor is defaulted with installed language version. Install plug-in to enable more vocal instructor.</p> <p>Safety Speed: Set the limit of safety speed alarm here.</p> <p>Vocal Prompt for crossing point ahead: Far--- 500 meters ahead Middle--- 300 meters ahead Near--- 100 meters ahead</p>

<p>《Figure6-2-1d》 POI display options</p>	<p>Default Setting: display all the POIs</p> <p>User Define: user define the POIs show on main map</p>
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6.3 Road sign

The road sign defines in MapKing™ 3D (from left to right):




《Figure6-3-1a》 Road sign summary

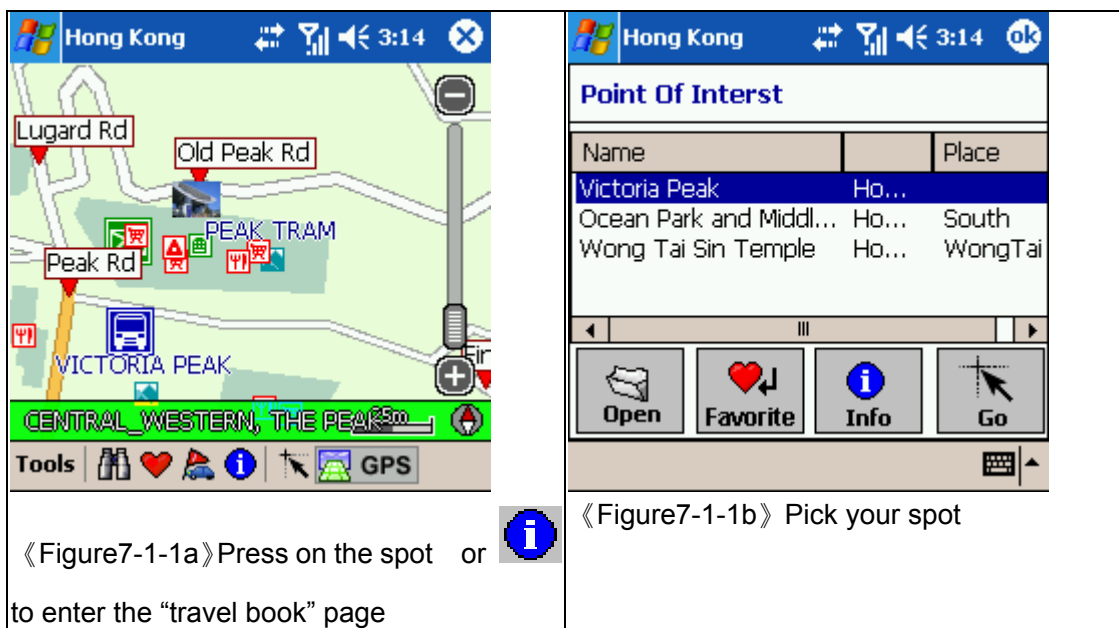
Upper row (from left to right)	Lower row (from left to right)
Leaving expressway along the right lane	Entering tunnel ahead
Leaving expressway along the left lane	Entering bridge ahead
Leaving expressway	Tollgate
Entering expressway along the left lane	Rest area
Entering expressway along the right lane	Interchange
Entering expressway	Turn left at intersection ahead
Entering freeway along the left lane	Turn right at intersection ahead
Entering freeway along the right lane	U-turn to the left at intersection ahead
Entering freeway	U-turn to the right at intersection ahead
Stay on the right lane	Stay on the left
Stay on the left lane	Stay on the right
Entering interchange	Distance to destination
Entering elevated road	Please set destination

7 Travel Book

MapKing™ 3D™ provides a travel book log function. This function allow you have the best schedule of travel

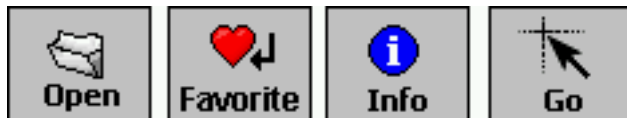
7.1 Travel book startup

Press  to enter “Travel Book” main page, this function is not available in GPS mode.



7.2 Travel book functions

This chapter introduce the main functions of “travel book”



Open: Import the travel book files.

Favorite: Add highlighted spot to ‘My favourite’

Info: View detail of highlighted spot

Go: go to the spot

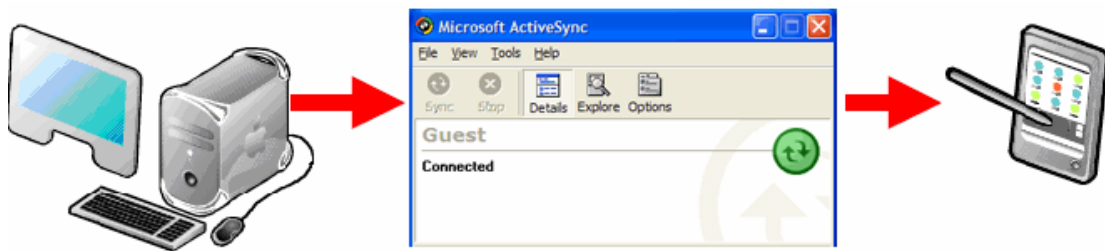
7.3 Read travel book

7.3.1 Prepare importation

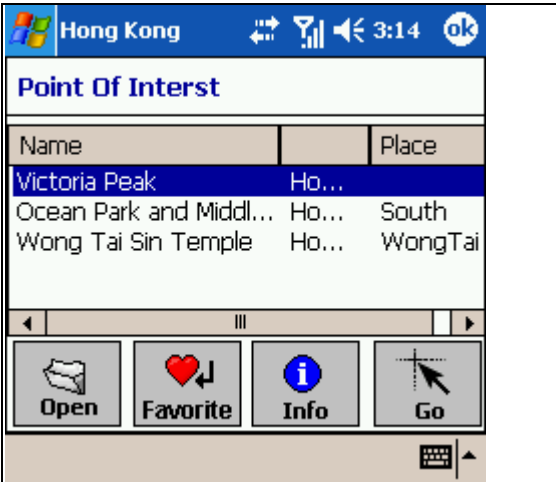
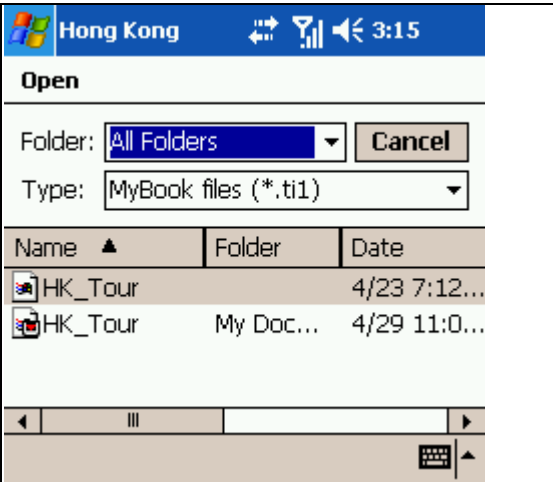
You may download the latest “Travel book” from MapKing.com and create your own travel book by PC version, too. This chapter tell you what you need to do before importation.

You must copy the travel book file to your Pocket PC.

1. Synchronize your Pocket PC and PC with ActiveSync.
2. Download the travel book file from MapKing.com and save it to desktop.
3. Copy the file *.ti1 and *.ti2 to ‘My documents’ folder of your Pocket PC
4. Start MapKing™3D™



7.3.2 Import the travel book

 <p>《Figure7-3-2a》 In the travel book manual, press “open”</p>	 <p>《Figure7-3-2b》 Pick the Travel book you want to import. MapKing™ 3D™ will contrast the identity records from difference travel book.</p>
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7.3.3 Spot details

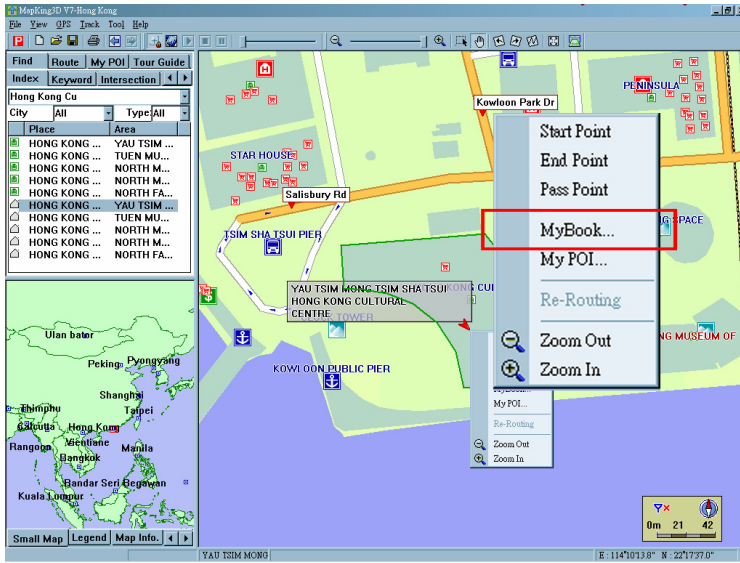
<p>《Figure7-3-3a》 Highlight the Spot and press Info to enter the detail</p>	<p>《Figure7-3-3b》 Details of spot</p>
<p>《Figure7-3-3b》 Picture of Spot(if any)</p>	<p>《Figure7-3-3c》 You may call the sub menu for further action by tap and hold</p>

7.4 Create your own travel book

If you have PC version, you may create your own travel book. This chapter tell you how to create your own travel book and import to your Pocket PC.

7.4.1 Add location by PC version

Add location by right click the screen and click 'My book'



Enter the details and press ok.



A new record will be created on the Tour guide page of your MapKing™3D™.

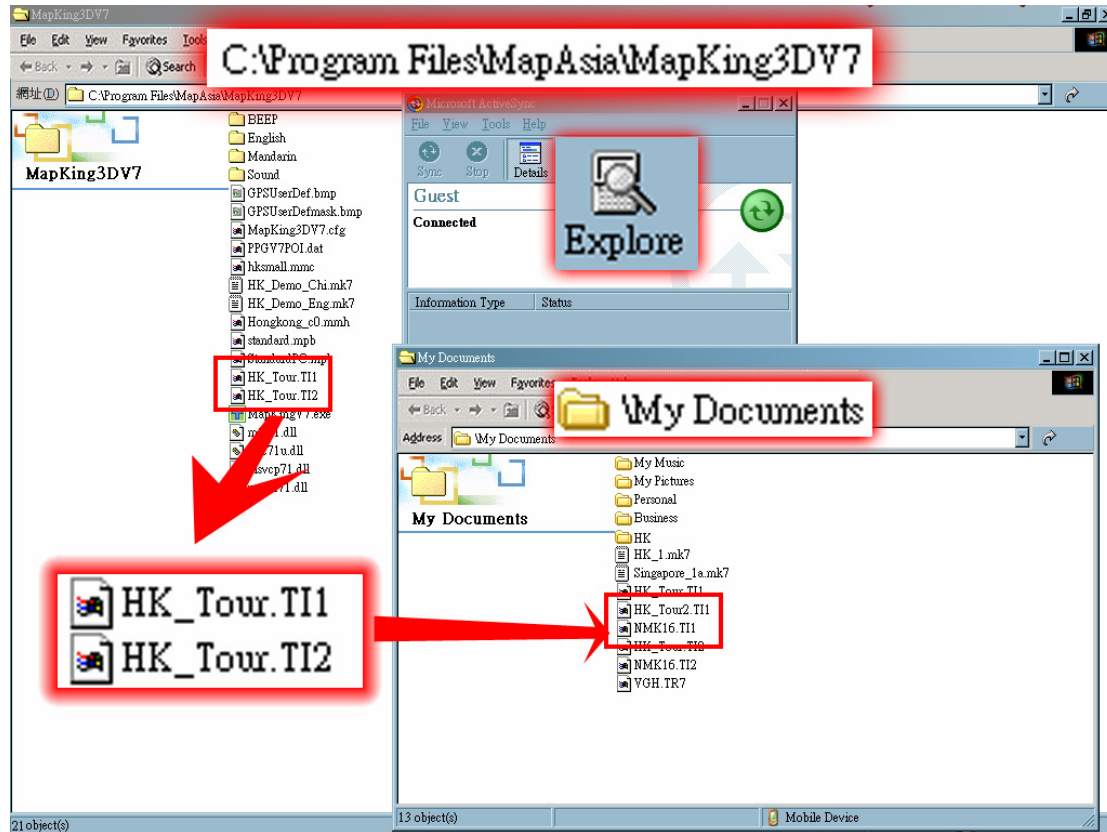


Add is to create a new book

7.4.2 Copy travel book files

The Travel book data files are default at C:\Programfiles\MapAsia\MapKing™3DV7\XXX.ti1 and XXX.ti2

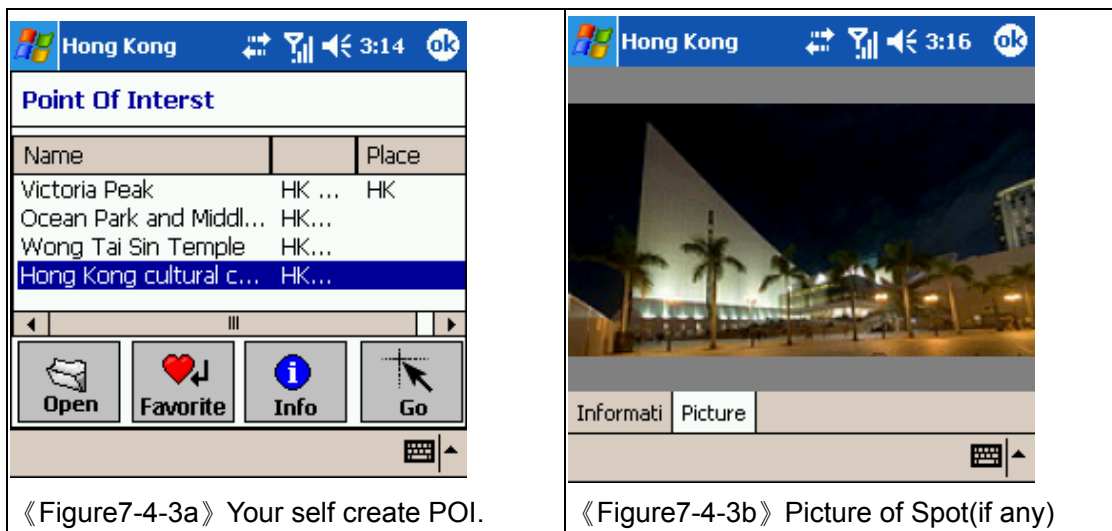
Copy them through Active sync to 'My documents' of your pocket PC



7.4.3 Import and details

Follow the instruction of Import the travel book 7.3.1.

You'll see the self-created travel book.



《Figure7-4-3a》 Your self create POI.

《Figure7-4-3b》 Picture of Spot(if any)

8 FAQ and Technical Support

MapKing™ software Technical Support and Service

Please send e-mail to following with your Product Authorization code, MK ID and email during registration and a detailed description of the problem you encounter

Countries / Cities	Email
China	service@mapasia.com
Hong Kong	support@mapasia.com
India	mapking.support@adroitecinfo.com
Indonesia	mapKing@dag.co.id
International	support@mapasia.com
Japan	support@mapasia.com
Korea	support@mapasia.com
Malaysia	support@mapasia.com
Philippine	support@inlis.ph
Singapore	mapking@eastgear.com
Taiwan	service@mactiontech.com
Thailand	support@mapasia.com
USA	support@mapasia.com

Tips for Registration

A: Please make sure that:

1. The Registration code composes of 16 digit characters and numbers in UPPERCASE ONLY. Please be aware of the difference between similar characters like 0 and O, 1 and l etc.
2. We suggest you to use the "Keyboard input" instead of "Hand writing"
3. Open the correct map file/ correct language version. Make sure you're not registering the DEMO Map.
4. Store the map files (.mk7) in 'My documents' folder.

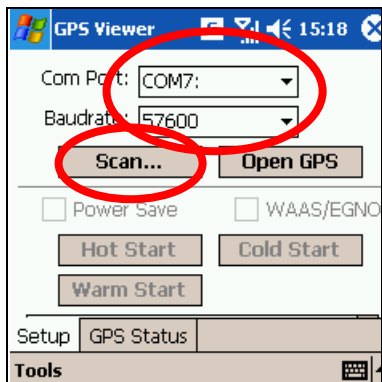
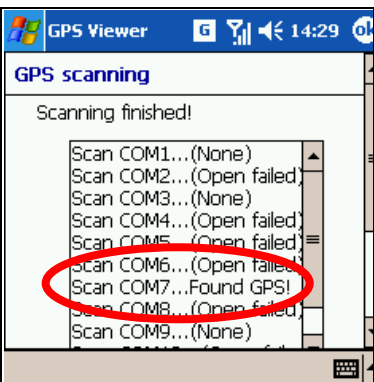
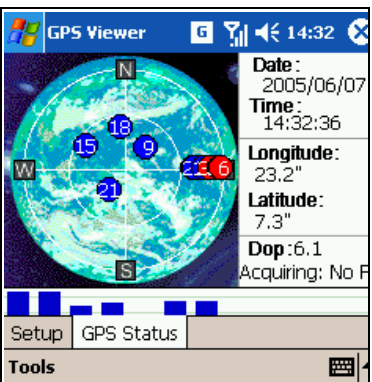
GPS connection Problem

We have a GPS testing program in our CD-ROM named GPS viewer to check the GPS Hardware/Software status. In case you have difficulty on GPS please install this program

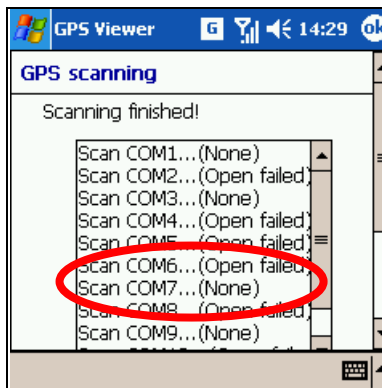
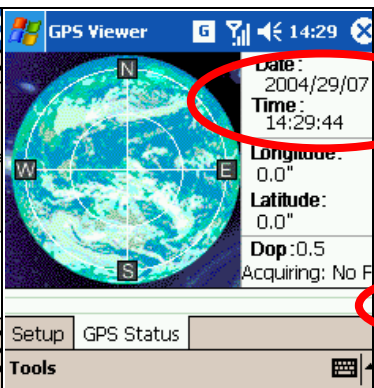
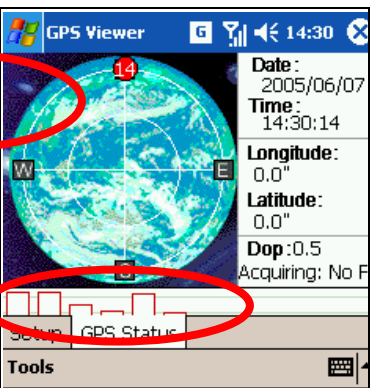
to check the GPS device status.

1. Soft reset your pocket pc.
2. Install GPS viewer from Technical support page of your CD-ROM
3. Open GPS viewer from your Pocket PC 'Start' ->'Program' -> 'GPS viewer'
4. Set COM port reference to manufacturer setting.
5. Press 'Scan', you should have the result 'FOUND GPS' on on of COM port
6. After you scan the GPS, press 'Open GPS' to start positioning, make sure you are on an open area.

Normal

 <p>Press scan to scan GPS, make sure the COM port and Baudrate is correct</p>	 <p>GPS found!</p>	 <p>3 or more good signals</p>
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GPS failure

 <p>No GPS found</p> <p>Search again or Contact manufacturer</p>	 <p>No/ wrong GPS Status</p> <p>Search again or Contact manufacturer</p>	 <p>Continuous bad signal</p> <p>Press cold start at viewer</p>
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- End of Manual -