MyGuideDogsDane Android Application version 1.0 |Rev. 22-05-2017-01

User Guide

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MyGuideDogsDane Android Application User Guide

# Welcome

Welcome to the MyGuideDogsDane, an innovative orientation aid mobile application from Kok Heng Chan. This manual describes the features and characteristics of the MyGuideDogsDane.

Before you begin, I strongly recommend that you take the time to examine the contents of this application MyGuideDogsDane package and review the enclosed documentation. These steps will ensure that the setup and operation of your MyGuideDogsDane will be installed successfully into your smartphone and enjoyable.

Note: The MyGuideDogsDane mobile application will be referred to as the MyGuideDogsDane throughout this User Guide.

# Contents of Application Package

When you have the application (MyGuideDogsDane.apk) downloaded, save the source file on your favourite location memory (where appropriate), this will ensure you can use it in the future.

The MyGuideDogsDane comprises of the following items:

* The executable file .apk (in electronic format)
* The user guide manual documentation (in electronic format)

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# 3.0 General Description

The MyGuideDogsDane was designed and implemented as an orientation aid to assist you find your way. MyGuideDogsDane locates your position through the *Global Positioning System* (GPS) and relates it to embedded maps (Android OS default maps) of your area and provide a text-to-speech in textual representation. You can record your routes while walking them. Any recorded routes the system then provides step by step instructions on how to navigate to it. With MyGuideDogsDane, you can explore your surroundings and let the application announce street information as they are encountered.

The application also alerts you to use your landmarks and reference points along a route that you have previously visited. The application will be announced automatically when detected previous used route point as you pass by.

***Caution***:

*The MyGuideDogsDane application is designed as an orientation aid only and must not, at any time, be used as the only aid while traveling.*

*When using MyGuideDogsDane, users should always be vigilant, stay alert and pay attention to the immediate surrounding area.*

*A conventional mobility aid like a cane or a guide dog should also be used (recommended).*

MyGuideDogsDane *is not a mobility device. It is the user's responsibility to use this application with caution.*

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## 3.1 What is GPS?

GPS, or Global Positioning System, is a navigation system that is made up of satellites orbiting the Earth. Satellites send signals to the GPS receiver on your device. These signals are used to measure your position.

The accuracy of GPS location information for MyGuideDogsDane is currently more or less 10 meters (30 feet). However, this can vary depending on a number of factors including:

- How clear a view of the sky does the receiver have?

- Are there obstructions blocking signals such as tall buildings or overhangs?

- The position of the satellites being tracked: overhead, on the horizon or somewhere in between.

- How many satellites are being tracked?

- Is there a presence of cloud cover or overhead power lines?

- How fast is the user moving when carrying a network provider services?

GPS travel is based on a line of travel, rather than knowing if you are on one side of the road or the other. It is useful to think of yourself as traveling in the middle of the road, even though you are not.

## 3.2 Related Use of Google Map Location Services

The MyGuideDogsDane application uses Google Map Location Service, Google Places to provide detailed and handy information about all street names and ranges of addresses for urban areas, as well as points of interest such as banks, restaurants, coffee shop.

## 3.3 Routes or Landmarks

Places that you consider as possible destinations in your usual travel, such as your home, a friend’s place, your coffee shop or preferred restaurant, can be recorded as routes or landmarks. Upon doing so, MyGuideDogsDane will provide guidance instructions from your current position to the selected route or landmark.

## 3.4 Points of Interest

Points of Interest are commercially available information such as restaurants, hospitals, banks, train stations included with the Google Maps Location Service.

Note that Points of interest are not automatically announced during motorized travels. Only landmarks are reported.

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# 4.0 Main Screen Layout Description

### MyGuideDogsDane activities button and its location on the screen

Bottom left edge: My Location

To get your current location

Bottom Middle: My Save Route

Recorded route or landmark

Bottom right edge: POI (Points of Interest)

To get surrounding points of interest

Top right edge: Record Route

To record a route or landmark

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# 4.1 Basic Button Functions

### Pressing buttons

Main activity functions such as "My Location" are activated by pressing the designated button.

### All buttons are interruptible

The current action is always that of the last button pressed. Pressing a button will launch its assigned function, no matter what was the previous button pressed.

### Return to basic navigation

No matter what actions have been undertaken, you can always return to basic exploration of your surroundings by pressing the ***POI*** button.