

# Manual for SpeedLimit Symbian S60

Version 1.1

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### 1. Introduction

This application runs on a Symbian S60 System and latest Nokia Maps v2 using both the internal GPS and an external Bluetooth GPS.

This application provides a speed camera warning system for suitable Series 60 3rd ed phones. It is designed to operate either in conjunction with Nokia Maps, or in the background (e.g. whilst using another application or in standby) and popup to the foreground with an audio visual alert, then return to the background.

A suitable speed camera data file is required and can be downloaded on:

<http://www.scdb.info/de/plugin-speedlimit-s60/>

SpeedLimit S60 provides more than 40.000 speed cameras worldwide.

## 2. Installation

1. Install following modules **into the phone memory** (not on memory card):

- The Python programming language for S60 mobile phones is provided by the *PythonForS60\_1\_4\_4\_3rdEd.SIS* file.
- The *SpeedLimit.sis* module provides the SpeedLimit application.

2. After the application is installed, a folder named *SpeedLimit* is created on the memory card containing *scLang.txt*, which is created on first use and contains the English words used by the app. Other languages can be added by replacing the *scLang.txt* with the downloaded one.

3. The alert sounds can be changed by placing sound files in the *SpeedLimit* folder and giving them the names:

- *fixed.wav*, the sound alert for fixed cameras
- *mobile.wav*, the sound alert for mobile cameras

A suitable speed camera data file is required and can be downloaded on <http://www.scdb.info/de/plugin-speedlimit-s60/>

Please extract the file *SpeedLimit.zip* and copy the file *SpeedLimit.txt* (the database file) into the folder “SpeedLimit” on your memory card.

### 3. Display and handling SpeedLimit S60

#### 3.1. Main Screen



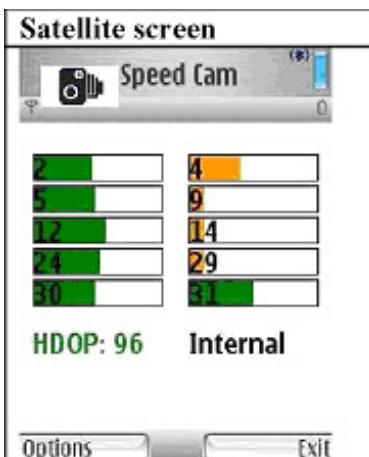
- ① Your current speed
- ② The direction of the nearest speed camera in range (up to about 2km).
- ③ Distance to the next Speed Camera
- ④ The type and speed limit (if available) of the nearest camera in range
- ⑤ The dial colours are:
  - None: Speed Cam app is active, but no signal, or no camera in range
  - Green: Fixed camera ahead but not close
  - Blue: Mobile camera ahead but not close
  - Yellow: Camera close but under speed limit
  - Red: Camera close and over speed limit



#### 3.2. Tripmeter Screen

The Tripmeter screen is started automatically when the application is started as shows:

- Current speed in mph or kph
- Distance travelled in miles or kilometres
- Elapsed time in hours:minutes.seconds
- Average speed of trip
- Maximum speed during trip
- 



#### 3.3. Satellite Screen

The Satellite screen shows for each satellite:

- Its number
- Its signal strength as a bar
- Whether it is active (green bar) or not (orange bar)

### 3.4. Sky Screen

- Its number
- Its position in the sky
- Whether it is active (green) or signalling (orange), or unavailable (red)

### 3.5. Keys

- Press left or right navigation button to move between screens
- Press up navigation button to toggle whether backlight is kept on or not. Default is off. If on, yellow flag is shown
- Press down navigation button to toggle whether overlay shown on Nokia Maps (see below). Default is on. If off, lilac flag is shown
- Press \* key to toggle sound alert states between:
  - On (all camera types alerted)
  - Fixed (only fixed camera types alerted)
  - Off (no alerts)
- Press # key to switch alert states between:
  - Over (only alerted if speed is over camera speed limit)
  - All (alerted whatever your speed)
- Press key 8 to toggle background colour between white and grey
- Press key 2 to toggle Nokia Maps overlay between portrait and landscape formats.
- 
- Press key 5 to redisplay startup log
- Press backspace (C key) then Answer (green key) to reset the tripmeter
- Double click backspace (C key) to switch between camera details and landmark details on Main screen
- Double click Answer (green key) to send application to background
- Press LSK (Options) to select Menu options (see below)
- Press RSK (Exit) to exit application

## 4. Display and handling Nokia Maps

### 4.1. Menu (Options Button)

press „Options“ - Button for Main Menu

### 4.2. Landmarks

Landmarks are created using Nokia Maps. The Landmark screen allows a landmark previously created by the user to be selected:

- Select required landmark then press OK
- Press Cancel option to cancel previously selected landmark.

### 4.3. Preferences

- **Foreground time:** how long in seconds Main screen will popup in foreground after alert. A value of 0 means that it wont popup to the foreground but the alert will still sound.
- **Minimum proximity:** minimum distance in metres that alert will sound.
- **Range per kph:** used in conjunction with Minimum proximity so that faster speeds get greater warning range, e.g. with value 3, the warning range at 80kph / 50mph will be  $100 + 3 * 80 = 340\text{m}$
- **Minimum speed:** the minimum speed in kph that will update the direction dial, because at low speeds, GPS bearings go random.
- **Speed units:** select *mph* or *kph* to match the speed units used by your **SpeedLimit.txt file:** and to switch speed display between mph and kph
- **Alert volume:** number between 1 (min) and 10 (max) to set alert sound volume.
- **Maps name:** for non-English language phones, change this to be exactly the name of the Maps application.
- **Mobile name:** for non-English language phones, change this to be the name in the *SpeedLimit.txt* file that indicates mobile cameras, so that they are distinguished form fixed cameras
- **Scan angle:** forward bearing angle within which speed cameras are scanned. A narrower angle will reduce false alerts from parallel roads, but may reduce warning time for cameras around a corner. Enter value between 1 and 360, although values above 180 are unlikely to be useful.
- **Start Nokia Maps:** select *yes* to automatically start Nokia Maps when SpeedLimit application started and close it when SpeedLimit closed, select *no* otherwise.

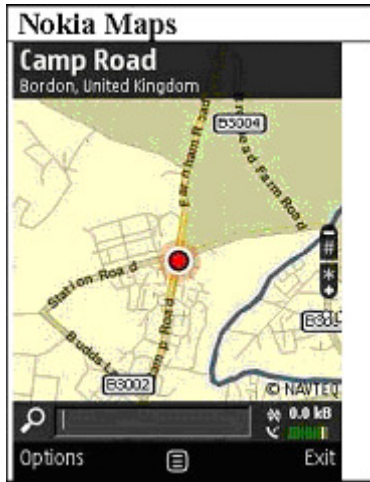
- **LSK Options:** use LSK (Options) key to edit values
- **RSK Back:** use RSK (Back) key to return to Main screen.

### 4.4. Language

The Language screen allows different language text to be used. The languages available are those in the *scLang.txt* file. Select the required language from the selection list and the on screen text will be changed. Press the \* key to reset the left hand flag.

## 5. Nokia Maps Overlay

If Nokia Maps v2 is the foreground application an overlay will be displayed as above:



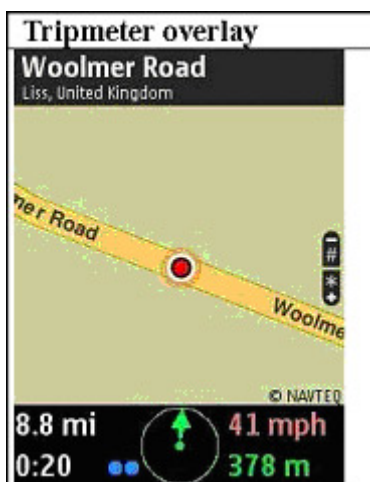
### 5.1. Nokia Maps without SpeedLimit Screen

- SpeedLimit works in background you see the normal Nokia Maps Screen



### 5.2. Nokia Maps with SpeedLimit Main Screen

- Speed cam overlay is a mini representation of the Speed Cam main screen



### 5.3. Nokia Maps with SpeedLimit Trip Screen

- Tripmeter overlay shows distance travelled and elapsed time in hours:minutes in place of the camera type.

#### 5.4. Keys used with Nokia Maps

- Double click Backspace (C key) to cycle between Speed Cam overlay, Tripmeter overlay, and Landmark overlay
- Press Answer (green key) then Backspace (C key) to hide or show overlay
- Press Backspace (C key) then Answer (green key) to reset tripmeter
- Double click Answer (green key) to bring Speed Cam application to the foreground. Repeat to bring Nokia Maps back to the foreground. Key sequences must be pressed within half a second to be recognised.