<table>
<thead>
<tr>
<th>Map Display</th>
<th>Map Features</th>
<th>Route Calculation</th>
<th>Accuracy, Reliability and Efficiency</th>
<th>Number of POI’s</th>
<th>Speed of Calculations</th>
<th>Tunnel</th>
<th>Live traffic updates</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Garmin Nuvi 260</strong></td>
<td>- zoom - 2D and 3D view - Varying navigational images (car, boat, bike, feet) - Purple destination trail - Images for POI</td>
<td>- Up to 10 routes of multiple stops planning - Main road speed limit alerts - Safety cameras alerts - School zones alerts - Trip computer records distance (km), max speed, total time and more - Customised POI’s - Users can set proximity alerts for school zones, safety camera’s, POI’s, etc…</td>
<td>City Route-Distance: +0.2km Time: +1 min, 34 secs Urban Route-Distance: - 0.1 kms Time: + 38 secs</td>
<td>No problems on city route. On urban route device instructed a turn to a street even though the car was already on that street.</td>
<td>Uses Sensis R14 map data 550,000 POI</td>
<td>Sydney-WA-Calc time: 44.40 seconds, Shortest distance: 3961.5km</td>
<td>Failed- only worked for 30sec Displayed warning about speed camera in first 30sec</td>
</tr>
<tr>
<td><strong>Garmin Nuvi 760</strong></td>
<td>Similar to Garmin Nuvi 260 Route line depicted by image of a car only When turning screen split into two</td>
<td>- Multiple stops planning - Main road speed limit alerts - Text to speech (shows road names on the screen) - Safety camera alerts - School zones alerts</td>
<td>City Route-Distance: +0.13km Time: + 1 min, 50 secs Urban Route-Distance: - 0.15 kms Time: +1 min, 24 secs</td>
<td>No problems on city route. Although it instructed a no left turn from George Street into Argyle Street (CBD) On urban route PND directs to a non-existent road.</td>
<td>Uses Sensis R14 map data 550,000 POI</td>
<td>Sydney-WA-Calc time: 39.29 seconds, Shortest distance: 4063.4km</td>
<td>Same as above</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Speed of Calculations</th>
<th>Tunnel</th>
<th>Live traffic updates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sydney-WA-Calc time: 44.40 seconds, Shortest distance: 3961.5km</td>
<td>Failed- only worked for 30sec Displayed warning about speed camera in first 30sec</td>
<td>N/A</td>
</tr>
<tr>
<td>Navigon 2150max</td>
<td>Magellan Crossover GPS</td>
<td></td>
</tr>
<tr>
<td>------------------</td>
<td>------------------------</td>
<td></td>
</tr>
<tr>
<td>Display is simplistic and colourless</td>
<td>Automatically adjusts colours for day/night mode</td>
<td></td>
</tr>
<tr>
<td>Tools menu organises features</td>
<td>Display is simplistic</td>
<td></td>
</tr>
<tr>
<td>Journey is represented by orange line and pointer to show position</td>
<td>Directions displayed at bottom of screen</td>
<td></td>
</tr>
<tr>
<td>POI brand logos and icons</td>
<td>Presentation of POI and street names is cluttered</td>
<td></td>
</tr>
<tr>
<td>- Advanced land guidance</td>
<td>- Text to speech (shows road names on the screen)</td>
<td></td>
</tr>
<tr>
<td>- Safety camera alerts</td>
<td>- Safety cameras alerts</td>
<td></td>
</tr>
<tr>
<td>- School zone alerts</td>
<td>- Red light camera alerts</td>
<td></td>
</tr>
<tr>
<td>- Black spot alerts (to prevent accidents)</td>
<td>- Speed camera alerts</td>
<td></td>
</tr>
<tr>
<td>- Bus lane alerts</td>
<td>- School zones alerts</td>
<td></td>
</tr>
<tr>
<td>- Railway crossing alerts</td>
<td>- Number of different maps (city/urban, detailed rural, marine)</td>
<td></td>
</tr>
<tr>
<td>- Speed limit alerts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Text to speech</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Life-like 3D junction views and real road signage displays</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Route overview, including turn-by-turn listing and POI details</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No routes tested.</td>
<td>City Route-Distance: +0.11km</td>
<td></td>
</tr>
<tr>
<td>Other tests -</td>
<td>Time: + 2 min, 30 secs</td>
<td></td>
</tr>
<tr>
<td>1) Location of street centre-line passed</td>
<td>Urban Route-Distance: -0.1 kms</td>
<td></td>
</tr>
<tr>
<td>2) Testing of known control point variation +6.94m (Easting), -14.7m (Northing) and -2.6m (Ellipsoidal Height)</td>
<td>Time: + 1 min, 32 secs</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not tested.</td>
<td>No problems on city or urban routes.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>It was found to lack vital map data, ie. Roundabouts.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Device is accurate but slow and lagging in conducting calculations.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Navteq map data 600,000 POI</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Not tested.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Failed.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Sydney-WA-</td>
<td>Calc time: 10.45 seconds, Shortest distance: 4419km</td>
<td></td>
</tr>
<tr>
<td>Total time: 50 hrs, 4 mins</td>
<td>Sydney-TAS-</td>
<td></td>
</tr>
<tr>
<td>Calc time: 11.24 seconds, Shortest distance: 1687km</td>
<td>Total time: 32 hrs, 41 mins</td>
<td></td>
</tr>
<tr>
<td>Passed.</td>
<td>Device has a self positioning mechanism allowing for navigation through tunnels.</td>
<td></td>
</tr>
<tr>
<td>Device has a self positioning mechanism for navigation through tunnels. Advanced lane guidance noted.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TMC enabled but subscription through Suna service is not available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Navman n40i | Good use of colour, visuals and tool menu’s 3D and 2D map view | - Safety cameras alerts  
- Red light camera alerts  
- Speed camera alerts  
- School zones alerts  
- Text to speech (shows road names on the screen) | City Route- 
Distance: 
-0.6km  
Time: 
+ 2 min, 8 secs  
Urban Route- 
Distance: 
- 0.2 kms  
Time: 
-10 secs | No problems. Preformed well on city or urban routes. | Uses Sensis R14 map data  
550,000 POI | Sydney-WA- 
Calc time: 10.24 seconds, Shortest distance: 3956km  
Total time: 42 hrs, 27 mins | Failed. | N/A |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Navman s300T S-Series Platinum | Display is simplistic and colourless  
Photography illustrating attractions and 3D landmarks | - Advanced lane guidance  
- Safety camera alerts  
- School zone alerts  
- Black spot alerts (to prevent accidents)  
- Bus lane alerts  
- Railway crossing alerts  
- Speed limit alerts  
- Text to speech (shows road names on the screen)  
- Mileage reporter  
- 3D rotational landmarks  
- Photos of popular tourist attractions | Not tested. | Not tested. | Navteq map data  
Over 1,000,000 POI  
(600,00 pre-loaded, 400,000 obtained through local live search) | Sydney-WA- 
Calc time: 39.24 seconds  
Shortest distance: 4004km  
Total time: 43 hrs, 5 mins | Not tested. | TMC enabled provides live traffic updates through Suna. |
| TomTom Go930 | - zoom  
- 2D and 3D view  
- Varying car position symbols (14 different images)  
- Varying map colours (10 different map displays)  
- Images for POI  
- Safety camera alerts  
- Speed limit on streets  
- Mapshare  
- Advance lane guidance  
- IQ route technology  
- Enhanced positioning technology  
- Safety features  
- Alternative route function  
- School zone alerts  
- Text to speech  
- Not tested.  
- No routes tested.  
- Other tests-  
1) Location of street centre-line passed  
2) Testing of known control point variation 2.64m (Easting), -3.68m (Northing)  
- Height not given  
- Uses Sensis R15 map data  
- 600,000 POI  
- Map share could provide additional POI’s  
- 57 different POI categories  
- Sydney-WA-Calc time: 13.35 seconds  
- Shortest distance: 3954km  
- Total time: 47 hrs, 21 mins  
- Sydney-TAS-Calc time: 8.22 seconds  
- Shortest distance: 1651 km  
- Total time: 28 hrs, 11 mins  
- Passed.  
- Device has a enhanced positioning technology (Gyro and accelerometer)  
- Lane guidance did not work  
| TomTom XL X30 | - zoom  
- 2D and 3D view  
- Varying car position symbols  
- Varying map colours  
- Roundabout guidance  
- Safety camera alerts  
- Speed limit on streets  
- Mapshare  
- Advance lane guidance  
- Safety features  
- Alternative route function  
- School zone alerts  
- Text to speech  
- City Route-Distance: 0 m variation  
- Time: + 1 min, 29 secs  
- Urban Route-Distance: - 0.15 kms  
- Time: + 1 min, 13 secs  
- City Route-Instructed a right turn from Clarence St onto Kent St. This turn is illegal, and impossible due to an island existing in the middle of the road (CBD). No problems on urban route.  
- Uses Sensis R14 map data  
- 550,000 POI  
- Map share could provide additional POI’s  
| Sydney-WA-Calc time: 25.4 seconds  
- Shortest distance: 3960km  
- Total time: 47 hrs, 22 mins  
| Failed.  
- N/A  
- A live traffic update module can be purchased and attached to this PND but update to R15 required.  
|
| TravRoute | - Same as Navigon 2150max | - Safety camera alerts  
- 2D and 3D map display  
- Driving lane assistance  
- Walking and driving modes  
- Text to speech | City Route-  
Distance: +0.1km  
Time: - 29 secs  
Urban Route-  
Distance: - 0.2 kms  
Time: - 3 mins, 57 secs | - Directed around illegal turn but looped back to the same position.  
- No problems uncovered in urban route.  
- Roundabout information missing. | Navteq map data  
64,000 core POI | Not tested. | Failed. | N/A |