

*Test certificate for Nokia 6110 on-board navigation system*

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<b>This certificate relates to the following systems tested:</b>  Nokia Nokia onboard navigation		<b>Test date: November 2007</b>  <b>Test protocol: see this report</b>	
Description	Result	Error details	
<b>Test investigation: finding the correct routes</b>			
A – Avoid residential areas in route (kid killer test)	error	KILLING ERROR	
B – Avoid residential access roads in route within built up area	error	KILLING ERROR	
C – Avoid residential access roads in route outside built up area	error	KILLING ERROR	
D – Avoid local roads when driving on motorways	ok		
<b>Test investigation: preventing searching behaviour</b>			
<b>1 – Motorways</b>			
A – Show number of lanes when motorway divides	error	dangerous manoeuvres, traffic jams, risk of accidents	
B – Show number of lanes at exit	error	dangerous manoeuvres, traffic jams, risk of accidents	
C – Show exits close together, warning	error	dangerous manoeuvres, traffic jams, risk of accidents	
D – Lane instructions at motorway junctions	error	dangerous manoeuvres, traffic jams, risk of accidents	
E – Warning when slip road turns into exit	error	dangerous manoeuvres, traffic jams, risk of accidents	
<b>2 – Non motorways</b>			
A – Indicate sorting lane	error	slowing of traffic flow	
B – Warning ahead of lane selection	error	dangerous manoeuvres	
<b>3 – Various</b>			
A - Tunnel navigation	error	dangerous manoeuvres, traffic jams, risk of accidents	
B – Road signs – motorways	error	false information, traffic jams, risk of accidents	
C – Road signs – exits	error	false information, traffic jams, risk of accidents	
<b>4 – Display</b>			
A – No superfluous data	error	concentration errors, traffic jams, risk of accidents	
B – Data easy to read	error	concentration errors, traffic jams, risk of accidents	
C – Symbol quality	error	concentration errors, traffic jams, risk of accidents	
<p><b>If you see KILLING ERROR, the Stichting Onderzoek Navigatiesystemen advises you not to use the navigator.</b></p> <p>The Nokia 6110 on-board navigation system was included in the investigation at a later date because the results of the off-board systems tested, with the exception of Nav4All, were so bad. The Stichting Onderzoek Navigatiesystemen was interested in seeing how a major market player such as Nokia would perform when tested against the criteria. The conclusion is that this Nokia system is unable to fulfil any of the test criteria.</p> <p>Nokia fails to find the ring roads and consequently uses roads that are not intended for through traffic. Navigation systems that direct drivers through residential areas where children play are popularly known as “kid-killers”. The Stichting Onderzoek Navigatiesystemen blames this on software faults which could have been avoided by using good testing procedures.</p> <p>On motorways and multi lane roads no lane instructions are given and drivers are not correctly warned about difficult situations ahead. In view of the high traffic density and high driving speed, these navigation systems put the driver and those around him in danger. This causes traffic queues, congestion and accidents.</p> <p>Nokia fails to read the correct direction at a motorway exit, thus confusing the driver. It was considered to be a serious error that Nokia did not interpret the road signs at all and placed the whole list on the display, which was illegible for the driver.</p> <p>In Nokia’s case as well the information on the colour display is mostly illegible for the driver. This results in searching behaviour, so that the driver’s attention is no longer concentrated on the vehicle and the road. This is also the cause of queues, traffic accidents and casualties.</p>			