

NoiseMap Five and Enterprise Editions – Principal Features – October 2015

Feature Comparison Table	Enterprise	Five
Please see manual for full specification of features		
Basic Calculation methods		
Calculation of Road Traffic Noise	✓	✓
Calculation of Railway Noise	✓	✓
BS5228	✓	✓
Hourly and period noise levels (*simultaneously in five)	✓	✓
All methods integrated into single model	x	✓
Advanced Calculation methods		
Leq (Noise Advisory Council)	✓	✓
Lden (TRL, 2003 & 2005)	x	✓
Lden (NRA, Ireland)	x	✓
Calculation of Road Traffic Noise DMRB 2008 enhanced	x	✓
Calculation of Road Traffic Noise 24 x 1 hour	x	✓
Calculation of Railway Noise (TNMP L_{Aeq})	⓪	✓
Calculation of Railway Noise (TNPM L_{Amax})	⓪	✓
BS5228 Octave Bands (SiteNoise)	x	✓
ISO9613 Atmospheric Absorption (SiteNoise)	x	✓
Calculation options		
Selected point receivers	✓	✓
All point receivers	✓	✓
Contribution of each source	✓	✓
Noise contours	✓	✓
Group noise levels by category	✓	✓
Adjust cut-off distances for propagation and reflections	✓	✓
Adjust cut-off for angle of view	✓	✓
Adjust time period for calculation	✓	✓
Distributed calculation	x	✓
Multi-processor (core) calculation engine	x	✓
Scripting Interface (allowing modelling automation)	x	✓
Noise contouring options		
Select contour area on screen	✓	✓
Select contour area by exact co-ordinates	✓	✓
Display contours in ISO colours	✓	✓
Display contours in red-green-blue spectrum	✓	✓
Display contours in pastel colours	✓	✓
Display contours with labelled lines between	✓	✓
Display contours line drawn with labels	✓	✓
User-selectable contour values/ contour intervals	✓	✓
Intelligent contouring across building outlines	x	✓
Overlay contours on a bit-map (picture)	✓	✓
Noise contour calculations		
Compare (subtract) noise contours	✓	✓
Sum noise contours	✓	✓
Display measured noise levels as contours	✓	✓
Calculate area within contour	x	✓

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Noise contour storage		
In archive files	✓	✓
In flat-file database	x	✓
In remote database	x	✓
Noise contour export		
DXF	✓	✓
Shapefile	x	✓
ASCII comma-delimited file	✓	✓
ESRI Grid	x	✓
Receiver calculations		
Receiver calculations detailed on-screen	✓	✓
Receiver calculations stored in database	x	✓
Receiver results explorer to show and load results	x	✓
Receiver results selected for display on screen	✓	✓
Receiver results exported	✓	✓
Model objects		
Road segments	✓	✓
Rail segments	✓	✓
Point noise sources	✓	✓
Line noise sources	✓	✓
Mobile line sources	✓	✓
Ground contours/profiles	✓	✓
Noise barriers	✓	✓
Areas of hard/soft ground	✓	✓
Building outlines	x	✓
Water bodies	x	✓
General boundaries	x	✓
Annotation	x	✓
Receiver points	✓	✓
Receiver grid	✓	✓
Spot height chain	✓	✓
Input methods		
Flat files (NoiseMap format)	✓	✓
Archive (road/rail/site)	✓	✓
Archive (noisemap)	x	✓
Digital drawings (DXF)	✓	✓
Digital drawings (GIS Shapefiles)	x	✓
Conversion of DXF polylines	✓	✓
Conversion of DXF and Shapefile layers	x	✓
On-screen digitising	✓	✓
Digitising tablet	✓	✓
Noise levels from measurement on irregular grid	✓	x
Output methods		
Printer - any size and type, to scale	✓	✓
Picture (jpeg, png, bitmap)	✓	✓
Copy screen to clipboard	✓	✓
Flat Files (ASCII text)	✓	✓
Archive (road/rail/site)	✓	✓
Archive (noisemap)	x	✓
DXF (noise model and/or noise contour)	✓	✓

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Output methods (cont'd)	Enterprise	Five
Save calculation log file	✓	✓
Save results to fixed format file	✓	✓
Export noise contour grid as ASCII file	✓	✓
<i>See also Noise Contours</i>		
Storage		
Flat files (NoiseMap format)	✓	✗
Database - local	✗	✓
Database - Remote	✗	⊖
Archive (road/rail/site)	✓	✓
Archive (noisemap)	✗	✓
Model Size (number of each object type)	16000	Unlimited
Scenarios		
Multiple scenarios with inheritance	✗	✓
Scenario manager	✗	✓
Viewing tools		
Pan, scroll, zoom, rotate on screen	✓	✓
Centre view on model (zoom extents)	✓	✓
Centre view on DXF/ Shapefile	✓	✓
Model grid spacing user defined, on or off	✓	✓
Drawing titles and labels	✓	✓
Model labels on or off	✓	✓
Noise contours on or off	✓	✓
View results on screen by label or colour	✓	✓
White or black screen background	✓	✓
View as colour (thematic view)	✓	✓
Bitmap (at scale)	✓	✓
Digital drawings (DXF)	✓	✓
Shapefiles (GIS)	✗	✓
Calculation detail, receiver points (step-by-step)	✓	✓
Labelling of model objects on-screen	✓	✓
Adjust grid size	✓	✓
Adjust label size	✓	✓
Adjust label orientation	✗	✓
Print in grey-scale	✓	✓
Three-dimensional real-time fly-through	✓	✓
Cross-section / long-section	✓	✓
Editing tools		
Add object	✓	✓
Delete object	✓	✓
Select object	✓	✓
Find object	✓	✓
Move object	✓	✓
Split object	✓	✓
Select chain of objects	✓	✓
Break chain of objects	✓	✓
Join chain of objects	✓	✓
Edit object properties	✓	✓
Generate receivers round building outlines	✗	✓

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Editing tools (cont'd)	Enterprise	Five
Move/rotate model	✓	✓
Retain custom settings	✓	✓
Add file to model	✓	○
Delete file from model	✓	○
Change file name	✓	○
Change model name	✓	○
Locate objects in file	✓	○
Find objects by parameter value	✓	✓
Named map areas	x	✓
Automatic generation of receiver points	x	✓
Measuring ruler	x	✓
Height tools		
Import 3-d grid of heights	✓	✓
Get height of object from 3-d digital maps	✓	✓
Get height of object from NoiseMap Ground model	✓	✓
Get height of object from chain of spot heights	✓	✓
Colour objects according to their height	✓	✓
Cross-section view	✓	✓
Perspective (3-D) view	✓	✓
Adjust height of barrier temporarily	✓	✓
Segment tools		
Set local height	✓	✓
Set retained cut	✓	✓
Reverse segment direction	x	✓
Delete ground contours from segments	x	✓
Model checking tools		
Check for duplicated objects	x	✓
Check for receivers within outlines	x	✓
Detailed calculation print-out	✓	✓
Source contribution viewing	✓	✓
View-As-Colour	✓	✓
Cross-section and 3-d viewers	✓	✓
Perspective (3-d) viewer		
Turn and tilt about viewpoint	✓	✓
Move back, forth and sideways in direction of view	✓	✓
Move vertically	✓	✓
Locate position of viewpoint on plan view	✓	✓
Colour receiver points according to noise level	✓	✓
Overlay noise contour over ground	x	✓
Show sources, ground cover, buildings and receptors	✓	✓
Cross-section/Long-section viewer		
Multiple way-points	✓	✓
x, y, h variable scaling	✓	✓
Display noise levels	x	✓
Vertical noise contours	x	✓

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	Enterprise	Five
Security		
Log of operations	✓	✓
Timed backup	✓	✓
Save calculation settings to database	✘	✓
Undo	✓	✓
Re-do	✓	✓
Help		
On-screen	✓	✓
Context-sensitive	✓	✓
Searchable	✓	✓
Printed manuals	✓	✓
Check for new software versions automatically	✘	✓
Update licence automatically	✘	✓
Database Management		
Database Preview	○	✓
Database Optimise	○	✓
Database Backup	○	✓
Database Create	○	✓
User Account Handling	○	✓

Key: ○ - not relevant; ✘ - not available; ✓ - feature included; ∞ - feature optional.

Features may be implemented differently in NoiseMap Enterprise and NoiseMap five.

The NoiseMap system has been in professional use on major projects for decades. The above feature list has been prepared in good faith. NoiseMap Ltd constantly updates this software and the description of a feature in this list does not mean that it will be available in all or any installations, or that it is free from errors. Trial versions of the NoiseMap system are available and users should ensure that it meets their requirements prior to use. E&OE.