Product comparison

SoundPLANnoise - SoundPLANessential

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	SoundPLAN noise 8.2	SoundPLAN essential 5.1
Calculation of road, railway, industry noise and noise from parking lots	✓	✓
Indoor noise calculations	✓	✗
Calculation of room acoustic parameters (incl. STI)	✓	✗
Configuration of facade sound reduction	✓	✓
Aircraft noise calculations	✓	✗
Calculation of a digital ground model (DGM)	✓	✓
Automated optimization of noise protection walls and berms	✓	✗
Use of digital background maps for input and output	✓	✓
Connection to Google Maps and OpenStreetMap	✓	✓
Elevations from Google Maps	✓	✓
Interface to ASCII, DXF and Shape files for the model data import	✓	✓
Import of OpenStreetMap data	✓	✓
Import of object properties (e.g. building height)	✓	✗
Import of CityGML	✓	✗
Connection to WMS servers	✓	✗
Intelligent filter for imported elevation data	✓	✓
Two variants for the calculation without and with noise protection	✓	✓
Free variants	✓	✗
Distribution of the geometry data to any number of files and in any desired sorting (e.g. for efficiently editing the currently needed data in big investigation areas)	✓	✗
Simple tools to adjust the geometry data (e.g. duplicate, parallel object, place objects to a digital ground model)	✓	✓
Efficient and high-level tools to modify selected geometry data (e.g. combine areas, create embankments)	✓	✗
Checking and changing object properties of all entered Objects on the basis of a clearly arranged table	✓	✗
Enhanced data management for huge projects (noise mapping)	✓	✗
Industrial building with automatic generation of the sources from the noise levels inside	✓	✗

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Calculation of single frequencies, octave and third octave bands	✓	✓
Library for source emission spectra	✓	✓
Library for transmission and absorption	✓	✗
Time history for the sources hour by hour	✓	(✓)
2D, 2D rotational and 3D directivity	✓	✗
High performance calculation core with dynamic search algorithms	✓	✓
Calculations multi-threaded for multi core CPU	✓	✓
Distributed computing – calculation with multiple PCs in a network	✓	✗
User defined calculation job management (unattended processing of several calculation jobs)	✓	✗
Single receiver calculations	✓	✓
Grid noise map calculations	✓	✓
Facade noise map calculations	✓	✗
Dynamic triangulated meshed noise map	✓	✗
Cross sectional noise map	✓	✗
Integrated spreadsheet	✓	✗
Documentation of the noise sources in tabular format	✓	✓
Documentation of the results in tabular format	✓	✓
Optimization of noise reduction concepts for industrial sources	✓	✗
Single point map with level tables and contour maps	✓	✓
Noise contour maps with free selection of scales, colors etc.	✓	✓
User defined configuration of the drawing properties of objects (roads, buildings) for the printout	✓	✓
Arithmetic with noise maps (e.g. difference, energetic addition)	✓	✗
Cartographical enhancements for the graphics (own patterns, multiple plots on a sheet, …)	✓	✗
Map sections and overview map	✓	✗
3D solid view of the model data while generating the model	✓	✓
3D view overlaid with results, animated noise maps	✓	✗
Modular software structure – only buy the needed modules	✓	✗
Individually executable programs (e.g. process calculations and data modelling at the same time)	✓	✗