

VENTSIM PRODUCT AND PRICING COMPARISON LIST - AUSTRALIA

ITEM	Ventsim 3.9 Professional	Ventsim Visual 1.0 Standard	Ventsim Visual 1.0 Advanced	Description
Graphics				
Graphics	3D Wireframe	3D Solid or Wireframe	3D Solid or Wireframe	Correctly sized airway graphics show true dimensions and shapes of airway
Non active display Option	Dark Color / Off	Semi Transparent / Off	Semi Transparent / Off	Simplify display by making some airways transparent - levels can be varied
Hardware Acceleration		✓	✓	Fast, smooth 3D display of any complexity on most modern PCs and laptops
Animated Airflows & Fans		✓	✓	Show airflows travelling in real time (or multiple of) through network, operating fans spin
Units	SI Metric/Imperial	SI Metric/Imperial	SI Metric/Imperial	Imperial planned for later visual versions
DXF Import	✓	✓	✓	Import centrelines from any CAD package for rapid building of Ventsim networks
Undo function	✓	✓	✓	Unlimited undo and redo steps
Simulation				
Maximum Network Airways	30000	30000	30000	
Simulation Method	Single Pass HC	MultiPass HC	MultiPass HC Mass Flow	Multipass simulation improves accuracy and robustness
Airway reversing	manual	automatic	automatic	Airways with no exits or entries are automatically reversed to allow simulation to continue
Compressible Flows			✓	compressible airflows effects at depth are modelled
Coloured Data Display	air type only	✓	✓	Display any data by colour with adjustable legend and sliders
Ventsim Air Data Types	24	34	52	Number of calculated data type that can be shown on screen, colour legend or spreadsheet
Switchable Fans (on/off)		✓	✓	fans can be switched on or off and left in network - fans can be made self closing or left open
Variable Speed Fans		✓	✓	Different fan speeds can be easily modified in network
Reversible Fans		✓	✓	fans can be reversed with reduced performance (for emergency simulation)
Thermodynamic				
Heating and Cooling			✓	includes heat or re Fridgeration options in network analysis
Rock Thermal Input			✓	predicts heat and moisture emanated from rock strata
Diesel Equipment			✓	predicts heat and humidity generated by diesel equipment
Natural ventilation	manual	manual	automatic	Uses thermodynamics to simulate natural ventilation effects
Contaminant				
Distribution Prediction	✓	✓	✓	Distributes smoke or other contaminants through network
Sourcing Assistant	✓	✓	✓	Shows spread and possible source location of smoke or other contaminants
Sourcing Concentration		✓	✓	Shows upstream path and concentrations of contaminated (or fresh) airflow
Diesel Particulate Simulation			✓	Utilises diesel engine sources to estimate DPM levels throughout the mine.
Other Features				
Recirculation Detector			✓	Searchs network for paths that recirculate a portion of air
Economic Airway Size Predictor			✓	Automatically graphs airflow and costs through a range of different airway sizes and types
Auto Simulate		✓	✓	Automatically updates and simulates networks while being built or modified
File System	*.SIM (text)	*.SIM *.VSM *.TXT	*.SIM *.VSM *.TXT	Ventsim Visual versions can load V3.9 SIM files and convert to Visual VSM files
Import Data	Text, DXF	Text, DXF, VNETPC	Text, DXF, VNETPC	Ventsim can build networks from CAD or Mine Planning DXF files, or directly import VNETPC
Pricing (DEC 2008)				
License Type	AUD\$1995 + GST Site	AUD\$2795 * + GST Per PC or Individual	AUD\$4995 * + GST Per PC or Individual	Visual licenses contain 'virtual keys" restricting use to one PC at a time
Optional annual maintenance **	N/A	AUD\$695 + gst	AUD\$1249 + gst	includes unlimited upgrades, updates, tech support, quartely newsletter
Rental Option (per 3 months)	N/A	AUD\$395 + gst	AUD\$749 + gst	time limited license
Additional Site Licenses	N/A	50% discount	50% discount	



* includes 12 month maintenance subscription