EMIGMA 9.5

relational database

Data Processing

Processing of raw data for marine, ground, borehole and airborne data including drones, UAV,

helicopter stinger and towed instruments

Total field, Vector, Gradient, higher order tensor data Enhanced gridding with rectangular grid cells

Tie Line Corrections

2D FFT/DFT processing for derivatives, continuation, filtering

1D, 2D spatial and digital filters

Trend removal

Analytic Signal,

Reduction-to-Pole including 3 algorithms for low latitudes

Advanced Aeromagnetic Compensation

for TMI and Vector data

Gradients

Gradients from TMI, imported gradients or components Gradient derivation from multiple sensors, de-rotation **Modeling and Inversion**

Enhanced contouring with horizontal gradients

Data Display/Analyses/Mapping

Survey and data imaging and contouring Map import/export, map underlays Scaled hardcopy maps 3D Surfaces ~ Contours~ Line Plots 2D and 3D .pdf exports

3D Modeling

Fast and accurate 3D simulations Unlimited prisms and polyhedra targets Non-linear effects, demagnetization, remanents Magnetic channelling & magnetic body interactions Import and exports to CAD software Simple integration of models with other types of data The only commercial product offering such accuracy

3D Inversion

Fast Matrix and Large Matrix techniques, Multi-Processing allowing rapid inversion Use of gradients and/or vector components, Inversions within Topography

3D inversion volume viewing and exporting, Visual grid setups

3D Extended Euler Solutions with Post-Processing, **Inversion for Magnetization Vectors**

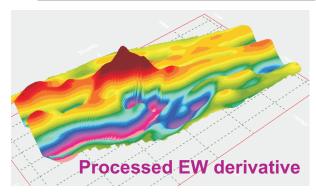
Processing, Imaging & Interpretation Suite for Mining, Oil & Gas, Near Surface Exploration, Environmental, UXO, Geotechnical, Delineation

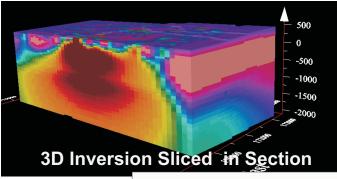
for XP / Vista / W7 / W8.1/W10

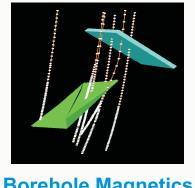
Potential Fields

Ground, Airborne, Borehole, Marine

Magnetics







Borehole Magnetics

EMIGMA 9.5

for XP/Vista/W7/W8.1/W10 Potential Fields

Ground, Airborne, Borehole, Marine

Data Processing

Basic gravity corrections includes QCTool with full gravity reductions with advanced topography corrections, marine and isostatic corrections

2D FFT processing- derivatives, continuation, filters 1D, 2D spatial and digital filters,



Survey and data imaging and contouring in 3D 2D multi-component grids with contouring and map overlays/underlays with transparencies Import/Export maps for many applications Comprehensive Line Plotting capabilities 5 interpolation techniques with user-selectable aspect ratio for rectangular cells

3D Modeling

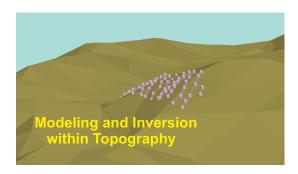
Fast and accurate 3D simulations
Unlimited prisms and polyhedral targets
Modeling of variable density topography
3D models with arbitrary strike length
Import and exports to and from CAD software
Simple integration with other types of data

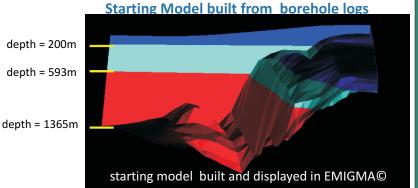
3D Inversion

Fast Matrix and Large Matrix techniques
Standard Iterative Search technique
3D inversion volume viewing and exporting
Use of gradients in inversions
Inversions within Topography
Visual grid setups
Three types of grid depth definitions
Inversion from profile or gridded data
3D Extended Euler Solutions with Post-Processing

Gravity







NEW! Fast Compiler 3D Inversion

Processing, Imaging & Interpretation Suite

Exploration, Environmental, Geotechnical, Delineation, UXO