

Feature	Academic Packages					Near Surface/Geotechnical Series			
	Free EMIGMA BASIC	EMIGMA for Academics	FEM	Potential Fields	Complete PREMIUM	Complete Professional	Resistivity IP	FEM	Magnetics
BASIC tools									
Database backbone	*	*	*	*	*	*	*	*	*
Unlimited Survey Size	*	*	*	*	*	*	*	*	*
Plotting	*	*	*	*	*	*	*	*	*
Data editing	*	*	*	*	*	*	*	*	*
Raw Gravity Corrections	*	*	*	*	*	*	*	*	*
Data merging	*	*	*	*	*	*	*	*	*
Trend removal	*	*	*	*	*	*	*	*	*
Co-ordinate grid translations	*	*	*	*	*	*	*	*	*
Decimation filters	*	*	*	*	*	*	*	*	*
Averaging filters	*	*	*	*	*	*	*	*	*
Interpolation filters	*	*	*	*	*	*	*	*	*
Spatial filters -1D/2D	*	*	*	*	*	*	*	*	*
<i>mean, median, Gaussian, spline</i>	*	*	*	*	*	*	*	*	*
Gridding/gradient gridding	*	*	*	*	*	*	*	*	*
Local - Natural Neighbor, Shepard, Delauney	*	*	*	*	*	*	*	*	*
Global - Minimum Curvature, Splines	*	*	*	*	*	*	*	*	*
rectangular grid cells	*	*	*	*	*	*	*	*	*
Contouring	*	*	*	*	*	*	*	*	*
Data surfaces	*	*	*	*	*	*	*	*	*
3D Visualizer	*	*	*	*	*	*	*	*	*
PseudoShow	*	*	*	*	*	*	*	*	*
Export functions	*	*	*	*	*	*	*	*	*
<i>data, images</i>	*	*	*	*	*	*	*	*	*
Mapping tools	*	*	*	*	*	*	*	*	*
<i>raster calibration, annotation, underlays</i>	*	*	*	*	*	*	*	*	*
SURVEY STYLES									
ground	*	*	*	*	*	*	*	*	*
airborne	*	*	*	*	*	*	*	*	*
borehole	*	*	*	*	*	*	*	*	*
cross borehole	*	*	*	*	*	*	*	*	*
POTENTIAL FIELD PROCESSING									
<i>total field, components, derivatives</i>	*	*	*	*	*	*	*	*	*
derivative calculation	*	*	*	*	*	*	*	*	*
upward continuation	*	*	*	*	*	*	*	*	*
downward continuation	*	*	*	*	*	*	*	*	*
wavelength filters	*	*	*	*	*	*	*	*	*
Reduction-to-the-Pole	*	*	*	*	*	*	*	*	*
<i>FFT, enhanced FFT, equivalent source</i>	*	*	*	*	*	*	*	*	*
magnetic Compensation	*	*	*	*	*	*	*	*	*
gradient de-Rotation	*	*	*	*	*	*	*	*	*
INVERSION									
imaging									
<i>Apparent resistivity inversions</i>	*	*	*	*	*	*	*	*	*
<i>Sengpiel Depths for Airborne FEM</i>	*	*	*	*	*	*	*	*	*
<i>Airborne TEM CDI</i>	*	*	*	*	*	*	*	*	*
<i>Ground TEM CDI</i>	*	*	*	*	*	*	*	*	*
layered 1D inversions ³	*	*	*	*	*	*	*	*	*
<i>Smooth Overparametrized</i>	*	*	*	*	*	*	*	*	*
<i>Marquardt</i>	*	*	*	*	*	*	*	*	*
<i>Thickness constraints</i>	*	*	*	*	*	*	*	*	*
<i>Resistivity bounds</i>	*	*	*	*	*	*	*	*	*
<i>Entire surveys</i>	*	*	*	*	*	*	*	*	*
<i>Section contouring and display</i>	*	*	*	*	*	*	*	*	*
<i>3D volume display and slicing</i>	*	*	*	*	*	*	*	*	*
3D inversions ²	*	*	*	*	*	*	*	*	*
<i>Linear Born inversion</i>	*	*	*	*	*	*	*	*	*
<i>Gradient inversion</i>	*	*	*	*	*	*	*	*	*
<i>3D starting model</i>	*	*	*	*	*	*	*	*	*
<i>Inversion grid starting model</i>	*	*	*	*	*	*	*	*	*
<i>Airborne</i>	*	*	*	*	*	*	*	*	*
<i>Ground</i>	*	*	*	*	*	*	*	*	*
<i>Borehole</i>	*	*	*	*	*	*	*	*	*
Suite of Models	*	*	*	*	*	*	*	*	*
<i>plate suite</i>	*	*	*	*	*	*	*	*	*
<i>layer suite</i>	*	*	*	*	*	*	*	*	*
<i>prism suite</i>	*	*	*	*	*	*	*	*	*
<i>optimizer tool</i>	*	*	*	*	*	*	*	*	*
Quasi-3D for Potential Fields	*	*	*	*	*	*	*	*	*
<i>3D Extended Euler</i>	*	*	*	*	*	*	*	*	*
<i>Filtering</i>	*	*	*	*	*	*	*	*	*
<i>Clustering</i>	*	*	*	*	*	*	*	*	*
<i>Magnetization Vectors</i>	*	*	*	*	*	*	*	*	*
MODELLING									
3D Prisms	*	*	*	*	*	*	*	*	*
2D Prisms	*	*	*	*	*	*	*	*	*
3D Thin-Sheets	*	*	*	*	*	*	*	*	*
Polyhedra models	*	*	*	*	*	*	*	*	*
Multiple Prisms	*	*	*	*	*	*	*	*	*
Multiple Plates	*	*	*	*	*	*	*	*	*
Linear (Weak) Algorithms	*	*	*	*	*	*	*	*	*
Non-Linear Algorithms	*	*	*	*	*	*	*	*	*
Interactions	*	*	*	*	*	*	*	*	*
Frequency-to-Time transforms	*	*	*	*	*	*	*	*	*
<i>system specific/bandwidth limited/calibrated</i>	*	*	*	*	*	*	*	*	*
XHOLE Tools									
Tomography	*	*	*	*	*	*	*	*	*
3D Modelling	*	*	*	*	*	*	*	*	*
<i>grounded/ungrounded electric antennae</i>	*	*	*	*	*	*	*	*	*
<i>magnetic dipole antennae</i>	*	*	*	*	*	*	*	*	*

Notes: 1 : includes magnetics 2 : for gravity, magnetics or resistivity

Feature	Premium Series											
	Gravity	Magnetics	FEM	TEM	Potential Fields	Airborne FEM ¹	Airborne TEM/TDEM ¹	Res / IP	MT/AMT, VLF/R	CSAMT	GROUND	Complete Premium
BASIC tools												
Database backbone	*	*	*	*	*	*	*	*	*	*	*	*
Unlimited Survey Size	*	*	*	*	*	*	*	*	*	*	*	*
Plotting	*	*	*	*	*	*	*	*	*	*	*	*
Data editing	*	*	*	*	*	*	*	*	*	*	*	*
Raw Gravity Corrections	*	*	*	*	*	*	*	*	*	*	*	*
Data merging	*	*	*	*	*	*	*	*	*	*	*	*
Trend removal	*	*	*	*	*	*	*	*	*	*	*	*
Co-ordinate grid translations	*	*	*	*	*	*	*	*	*	*	*	*
Decimation filters	*	*	*	*	*	*	*	*	*	*	*	*
Averaging filters	*	*	*	*	*	*	*	*	*	*	*	*
Interpolation filters	*	*	*	*	*	*	*	*	*	*	*	*
Spatial filters -1D/2D	*	*	*	*	*	*	*	*	*	*	*	*
<i>mean, median, Gaussian, spline</i>	*	*	*	*	*	*	*	*	*	*	*	*
Gridding/gradient gridding	*	*	*	*	*	*	*	*	*	*	*	*
Local - Natural Neighbor, Shepard, Delauney	*	*	*	*	*	*	*	*	*	*	*	*
Global - Minimum Curvature, Splines	*	*	*	*	*	*	*	*	*	*	*	*
rectangular grid cells	*	*	*	*	*	*	*	*	*	*	*	*
Contouring	*	*	*	*	*	*	*	*	*	*	*	*
Data surfaces	*	*	*	*	*	*	*	*	*	*	*	*
3D Visualizer	*	*	*	*	*	*	*	*	*	*	*	*
PseudoShow	*	*	*	*	*	*	*	*	*	*	*	*
Export functions	*	*	*	*	*	*	*	*	*	*	*	*
<i>data, images</i>	*	*	*	*	*	*	*	*	*	*	*	*
Mapping tools	*	*	*	*	*	*	*	*	*	*	*	*
<i>raster calibration, annotation, underlays</i>	*	*	*	*	*	*	*	*	*	*	*	*
SURVEY STYLES												
ground	*	*	*	*	*	*	*	*	*	*	*	*
airborne	*	*	*	*	*	*	*	*	*	*	*	*
borehole	*	*	*	*	*	*	*	*	*	*	*	*
cross borehole	*	*	*	*	*	*	*	*	*	*	*	*
POTENTIAL FIELD PROCESSING												
<i>total field, components, derivatives</i>	*	*	*	*	*	*	*	*	*	*	*	*
derivative calculation	*	*	*	*	*	*	*	*	*	*	*	*
upward continuation	*	*	*	*	*	*	*	*	*	*	*	*
downward continuation	*	*	*	*	*	*	*	*	*	*	*	*
wavelength filters	*	*	*	*	*	*	*	*	*	*	*	*
Reduction-to-the-Pole	*	*	*	*	*	*	*	*	*	*	*	*
<i>FFT, enhanced FFT, equivalent source</i>	*	*	*	*	*	*	*	*	*	*	*	*
magnetic Compensation	*	*	*	*	*	*	*	*	*	*	*	*
gradient de-Rotation	*	*	*	*	*	*	*	*	*	*	*	*
INVERSION												
imaging												
<i>Apparent resistivity inversions</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>Sengpiel Depths for Airborne FEM</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>Airborne TEM CDI</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>Ground TEM CDI</i>	*	*	*	*	*	*	*	*	*	*	*	*
layered 1D inversions ³	*	*	*	*	*	*	*	*	*	*	*	*
<i>Smooth Overparametrized</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>Marquardt</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>Thickness constraints</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>Resistivity bounds</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>Entire surveys</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>Section contouring and display</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>3D volume display and slicing</i>	*	*	*	*	*	*	*	*	*	*	*	*
3D inversions ²	*	*	*	*	*	*	*	*	*	*	*	*
<i>Linear Born inversion</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>Gradient inversion</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>3D starting model</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>Inversion grid starting model</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>Airborne</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>Ground</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>Borehole</i>	*	*	*	*	*	*	*	*	*	*	*	*
Suite of Models	*	*	*	*	*	*	*	*	*	*	*	*
<i>plate suite</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>layer suite</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>prism suite</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>optimizer tool</i>	*	*	*	*	*	*	*	*	*	*	*	*
Quasi-3D for Potential Fields	*	*	*	*	*	*	*	*	*	*	*	*
<i>3D Extended Euler</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>Filtering</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>Clustering</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>Magnetization Vectors</i>	*	*	*	*	*	*	*	*	*	*	*	*
MODELLING												
3D Prisms	*	*	*	*	*	*	*	*	*	*	*	*
2D Prisms	*	*	*	*	*	*	*	*	*	*	*	*
3D Thin-Sheets	*	*	*	*	*	*	*	*	*	*	*	*
Polyhedra models	*	*	*	*	*	*	*	*	*	*	*	*
Multiple Prisms	*	*	*	*	*	*	*	*	*	*	*	*
Multiple Plates	*	*	*	*	*	*	*	*	*	*	*	*
Linear (Weak) Algorithms	*	*	*	*	*	*	*	*	*	*	*	*
Non-Linear Algorithms	*	*	*	*	*	*	*	*	*	*	*	*
Interactions	*	*	*	*	*	*	*	*	*	*	*	*
Frequency-to-Time transforms	*	*	*	*	*	*	*	*	*	*	*	*
<i>system specific/bandwidth limited/calibrated</i>	*	*	*	*	*	*	*	*	*	*	*	*
XHOLE Tools												
Tomography	*	*	*	*	*	*	*	*	*	*	*	*
3D Modelling	*	*	*	*	*	*	*	*	*	*	*	*
<i>grounded/ungrounded electric antennae</i>	*	*	*	*	*	*	*	*	*	*	*	*
<i>magnetic dipole antennae</i>	*	*	*	*	*	*	*	*	*	*	*	*

3 : for FDEM, TDEM or Resistivity o : upgrade option ● : included feature