

Turn Exploration Into Reality with this Advanced  
Geophysical Visualisation and Analysis Builder

# PA EXPLORER

## WHO USES PA EXPLORER:

- ✓ Exploration Geologists
- ✓ Geophysicists
- ✓ Geotechnical Engineers



# PA EXPLORER

**PA Explorer** is an application for analysing and presenting geophysical data in profiles, maps and 3D displays. The information that can be analysed by this software includes single or multi-channel data acquired from airborne or ground surveys, including electro-magnetics (AEM) and potential field (gravity or magnetic) data.

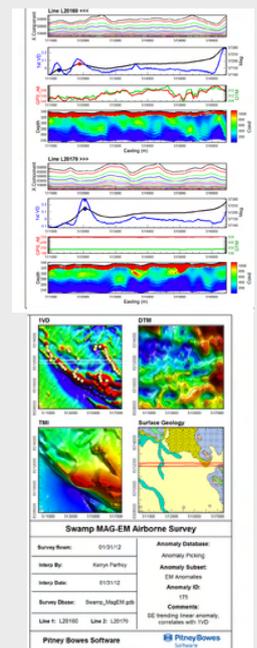
**PA Explorer** also provides advanced visualisation using both 2 and 3 dimensional displays. 3-dimensional presentations of images, sections, graphics, flight paths and data objects provides interactive display manipulation with zooming, pan and fly-through. Templates allow fast creation of application-specific displays for magnetic, gravity, EM and spectrometer data. The template capability enables combinations of various display times. For example, you can easily combine profiles, sections, maps and graphs together for high quality printed output. The routine production of maps, sections and profiles is simple when templates are used.

## KEY FEATURES

With PA Explorer you can visualise and compare all your line data, profiles, grids, modelling, images, drillholes, maps and 3D visualisations in a single interactive environment. This solution also allows data linking between profiles and 2D maps so that you can easily pick a feature in one view and have its location shown in another.

Airborne EM interpreters have the ability to present and interpret multi-channel FEM and TEM data alongside CDI inversion sections, flight maps, voxel models and imagery, such as seismic or geological sections. You can pick anomalies on profiles or draw interpretations on CDI sections to demonstrate the most probable geological picture. Interpretations from sequential sections are easily interpolated to form 3D geological models.

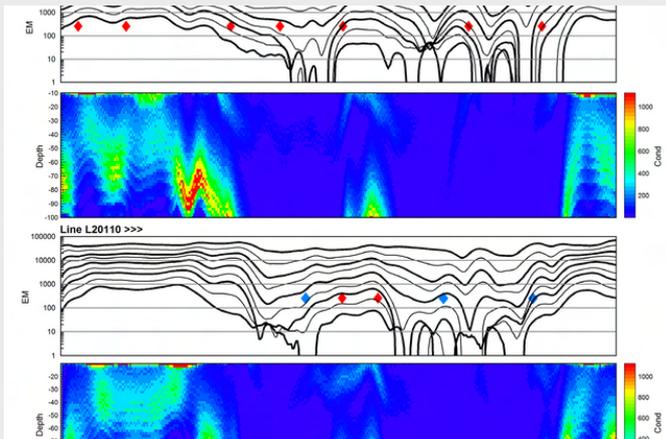
Geophysical data can be enhanced using the various data processing tools including line and grid FFT and Convolution filtering, 2D and 3D data gridding. With the separate free-to-use Viewer installation you can collaborate ideas with colleagues and clients or convey your information to joint venture or investment partners.



## INCREASED EFFICIENCY

PA Explorer will deliver more results from your existing software investments through better use of visualisation and cross-product integration. Forget trying to line up 5 different maps or sections, link them live with PA Explorer. Out of the box you can do some amazing things and then, in almost no time at all, build powerful applications that replace complex workflows using our unique application template designer.

**PA Explorer is the most cost-effective, advanced geophysical interpretation tool available today. It provides a complete solution for geophysical data visualisation, interpretation and report production.**



PA Explorer includes a complete range of FFT, convolution and non-linear filters for grids and line data. The line filters include convolution, FFT and some non-linear methods. The convolution filters include median, average and user-defined filter kernels plus fourteen standard and non-linear methods (AGC, Median and noise). As well as the normal range of filters (band pass continuation, reduction, derivative etc), the FFT suite includes the ZS Geofilter suite as well as analytic signal, component, integral, pseudo-gravity, pseudo-magnetic and general phase transformations.

## DATA IMPORT

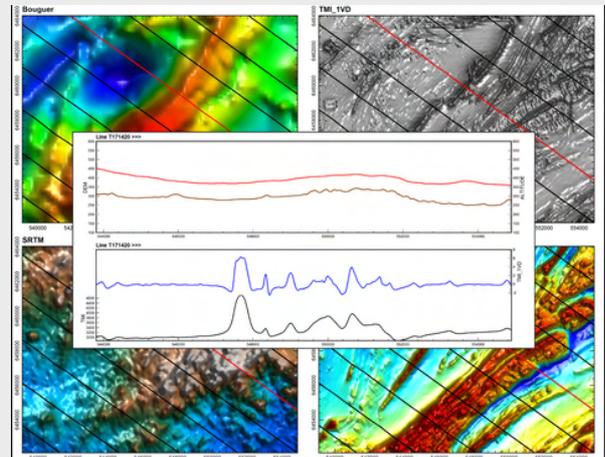
PA Explorer provides a rich environment for building interpretations that cover anomaly picking, map interpretations, section interpretation and 3D geological model building. The Feature Manager utility uses a 3D object database to capture your interpretation elements from which you can build sophisticated 3D targets, models, surfaces, faults, geological units and intrusions.

Map interpretation elements in the form of points, lines and polygons are easily drawn onto a map with live updates into any other concurrent map or 3D display. You can instantly see your interpretation in the same context as ten separate images.

## ENHANCING YOUR DATA

PA Explorer provides you with a range of interpretive enhancement tools that include line, section, grid and voxel gridding, filtering, calculators and toolkits. The calculator tools include a rich array of function capabilities which can be applied to line, feature or grid data formats.

PA Explorer has a rich set of gridding options that include minimum curvature and inverse distance weighting (with elliptical weighting and triangulation). Gridding of sectional data is also supported for processed EM or IP data. 3D voxel gridding options include discretely layered, inverse distance weighting, discretised (lithology) and 3D Kriging with full 3D variogram support. Advanced 2D and 3D toolkits are provided for manipulation, merging and calculation, and scripting of 3D voxel models. Use the Import Vector File utility to populate a voxel model with density or susceptibility values contained within a ModelVision model file.



# CONTACT US

AUSTRALIA | BRAZIL | CANADA | CHILE | CHINA |  
 ECUADOR | GHANA | INDIA | INDONESIA |  
 KAZAKHSTAN | MALAYSIA | MEXICO | MONGOLIA |  
 PERU | PHILIPPINES | RUSSIA | SOUTH AFRICA |  
 TURKEY | UNITED KINGDOM | USA



[www.dataminesoftware.com](http://www.dataminesoftware.com)