

DATA SHEET

Encom™ PA v11.0

TURN EXPLORATION INTO REALITY WITH THIS ADVANCED GEOPHYSICAL VISUALISATION AND ANALYSIS SOLUTION.



Summary

Encom PA provides unique display and processing tools suited to interactive interpretation and the consistent presentation of geophysical survey data. The dynamics, interaction and ease-of-use make this an essential tool to ensure the delivery of the best outcomes for your project.

Benefits

- Create exciting profiles, maps, images and 3D displays within one software environment
- Enhance your primary data using a series of powerful processing, gridding and filtering utilities
- Pick anomalies (points) in line and section (CDI) data, and draw lines and regions in 2D map and 3D displays
- Build 3D models from interpreted lines and regions using advanced modelling tools.

OVERVIEW

Encom PA version 11.0 from Pitney Bowes Business Insight is the latest release in the advanced visualisation and interpretation product that makes it even easier for geoscientists to explore, interpret and realise data and models of the Earth. Encom PA v11.0 has notably improved its gridding and filtering of large datasets and now performs quality control checks on airborne geophysical survey data. It also allows the interpretation and integration of SEG-Y seismic sections.

How easy is it to collaborate with colleagues?

Encom PA's connectivity to industry geoscience data standards knows almost no limits. It allows you to interpret your geophysical data in the context of geochemistry, drilling, geological mapping, geological sections, models, GIS, cadastral, remote sensing, imagery and mining models.

Encom PA allows you to integrate most geophysical data in the form of points, lines, arrays, grids, images and models. Ground and airborne geophysical surveys covering magnetic, gravity, gradiometer, frequency domain EM, transient EM and gamma ray spectrometer data are all supported. Other geophysical data formats include SEG2 and SEG-Y seismic and drillhole data. Visualisation of geophysical models and inversions are supported for the magnetic, gravity, EM, DC resistivity and IP methods.

How easy is it to build an interpretation?

Encom PA 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.

Anomaly Picking

Diamond explorers appreciate the direct linkage and picking of targets within maps, sections, detailed curve profiles and 3D volumes. Find out how easy is it to produce a batch run of 50 standard, scaled plots for field follow-up using a prioritised set of targets.

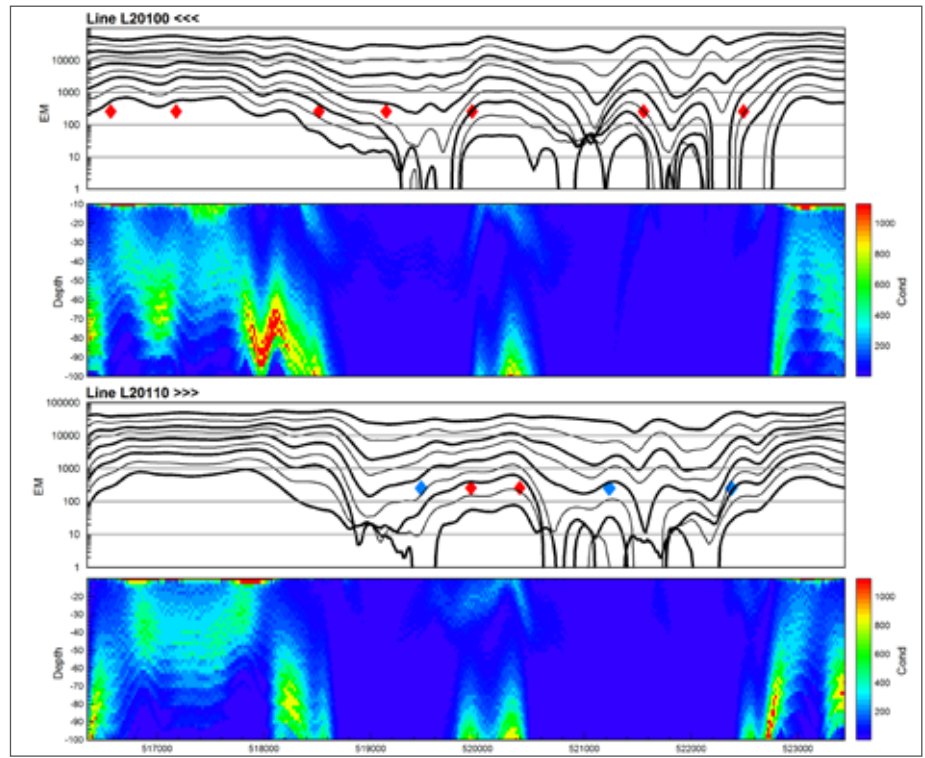
Curve and Section Interpretations

Airborne EM interpreters now enjoy the ability and power to present and pick multi-channel FEM and TEM data along with the track map, CDI inversion section, flight plan and associated image maps, such as seismic or geological sections. With Encom PA v11.0 you can now also display voxel models in section (and map) view. You can pick anomalies on the profiles or draw interpretations on each CDI section to demonstrate the most probable geological picture. Interpretations from sequential sections are easily joined to build complete 3D interpretations.

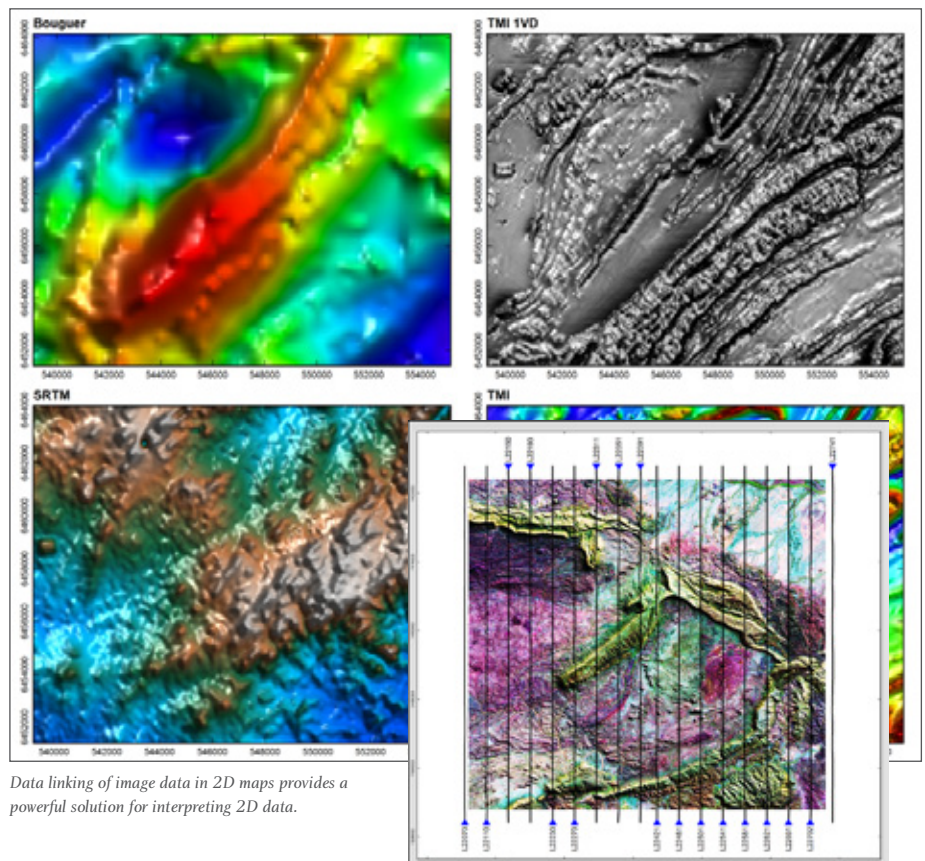
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Features

- Visualise line data in curve or section profiles to get a better understanding of your project area
- Display all data stored in a Geosoft database or MapInfo table in easy-to-use and interpret profiles
- Data linking between profile displays and 2D map displays allows the integration of data into a report style layout ready for batch printing
- Create map mosaics of 2D project data including, grid images, aerial photography, raster imagery, vector files and line, point or drillhole data
- Display line data in 2D to aid in interpretation and drilling decisions.



Use profile displays in Encom PA to visualise and interpret airborne EM data.

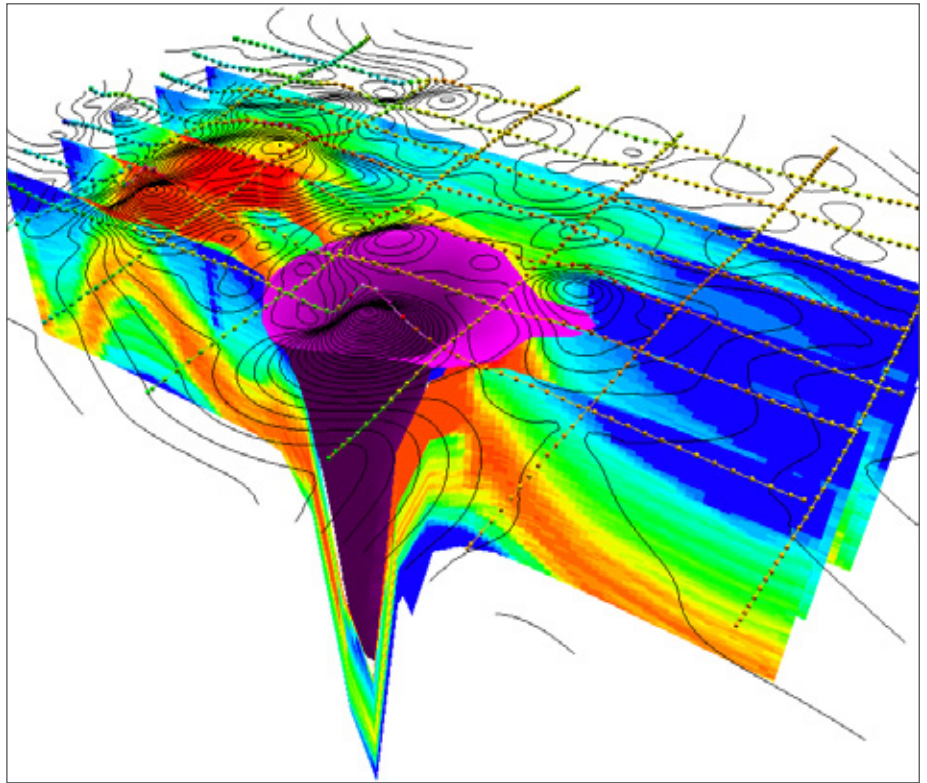


Data linking of image data in 2D maps provides a powerful solution for interpreting 2D data.

Overlay images with survey flight lines from loaded databases.

"WE AT PITNEY BOWES BELIEVE THAT ENCOM PA PROVIDES THE MOST COST-EFFECTIVE YET ADVANCED GEOPHYSICAL VISUALISATION TOOLS OF THE MODERN MARKET. IT PROVIDES ENGINEERS, GEOPHYSICISTS, GEOLOGISTS AND REPORT WRITERS WITH A POWERFUL AND COMPLETE SOLUTION FOR GEOPHYSICAL DATA COLLECTION, VISUALISATION, PROFESSIONAL REPORT PRODUCTION AND ANALYSIS IN 1D, 2D AND 3D ENVIRONMENTS."

Kerryn Parfrey
Product Manager, Geophysical Software
Pitney Bowes Business Insight



Integrate your geophysical data in 3D to produce geological models of the earth.

Map Interpretation

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 10 separate images. Use the Save Map Extents to Vector File option now available in v11.0 to generate a vector file of the current extents of a map area. You can convert map features to 3D objects by using the extrusion wizard to project features down from the terrain surface.

3D Interpretation

Encom PA makes it easy for you by allowing you to build your geological interpretations by synthesising all the data, model inversions, geochemistry and geological knowledge. This is where you turn exploration into reality for your colleagues. Nothing will be left to guesswork when you can show where the drillhole should be placed. With the Feature Manager you can create 3D

targets of untested volumes identified in the geophysics. You can also create and edit 3D geological surfaces and closed volumes to build complex 3D geological models. With the introduction of the seismic depth tool in Encom PA v11.0, it is now possible to model velocity data and output the results to a 3D display for integration with other forms of data.

How easy is it to enhance my data?

Encom PA 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.

Gridding

Encom PA has a rich set of gridding options that include minimum curvature, inverse distance weighting with elliptical weighting

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and triangulation. Gridding of cross-section data is also supported. Encom PA provides 3D voxel gridding options that include 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. With Encom PA v11.0 use the Import TKM utility in the Voxel Toolkit to populate a voxel model with density or susceptibility values contained within an Encom ModelVision .TKM model file.

Filtering and Processing

Encom PA 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 14 standard and non-linear methods. The non-linear filters include AGC, Median and noise methods. The FFT filters include bandpass, continuation, derivative, highpass, lowpass, pseudo-gravity, pseudo-mag, reduction to equator and reduction to pole.

The grid filtering tools provide a powerful and easy-to-use suite of filters and transformations that are focussed on interpretation. The convolution filter suite supports all conventional ER Mapper filters, user-defined filters and some non-linear filters. As well as the normal range of filters, the FFT suite include the ZS Geofilter suite, analytic signal, component, integral, pseudo-gravity, pseudo-magnetic and general phase transformations.

You can select either maximum entropy or minimum curvature padding with the latter offering high quality preservation of long wavelengths to improve RTP and pseudo-gravity transformations. A minimum curvature hole filling tool is especially useful for filling gaps in SRTM grids.

With Encom PA v11.0, you are able to use the new Airborne QC utility to help analyse airborne data and ensure that contractual obligations are fulfilled.

VISIT WWW.PBINSIGHT.COM.AU OR CALL
02.9437.6255 FOR MORE INFORMATION.