UXO Land

GEOSOFT

A complete solution for locating and
assessing UXO targets

Market-leading software for UXO surveys

UXO Land provides a full suite of tools to locate and analyze UXO targets based on magnetic (total field and
gradiometer) and electromagnetic (EM61) data. A single workflow takes you from survey planning to target
identification.

- Easily process and visualize large volumes of data
- Quickly perform quality control and quality assurance
- Effectively locate and analyze UXO targets
- Optimize survey planning and reporting

Full Featured and Adaptable

Data QA and QC

Use a comprehensive set of quality assurance (QA) and quality control (QC) tools to identify and correct instrument and acquisition errors. Address repetitive data quality issues to prevent resurveying and improve productivity in UXO investigations. Automatically document results of standard QA/QC tests. Meet government data quality standards with tools to standardize the QA/QC process when collecting, processing and analyzing data for US Army Corps of Engineers (USACE) projects.

Data Processing

Process your data, and apply numerous filters and enhancements with ease. Pre-process large volume total field and vertical gradient magnetic survey data as well as EM61 survey data. Apply lag, heading, sensor offset and base station corrections to remove unwanted signal from data. To improve signal to noise, use spatial, non-linear, and vertical derivative filters to enhance your data. Create an analytic signal grid from magnetic data to position positive peaks over the center or edges of potential UXO targets.

Target Selection

Pick targets from both magnetic and EM data. Automatically pick targets from profile data or grids. Pick peaks from analytic signal or dipoles from total field magnetic data. Interactively select additional targets from profiles and grids. Refine your final target list with interactive target editing and grouping tools.

Target Analysis

Visualize UXO targets and conduct further analysis. Inversion and depth/size calculations help to characterize UXO targets and provide more accurate locations. Calculate the depth to source from a ratio of responses from the top and bottom EM coils. Measure the anomaly size by calculating the distance from the peak of an anomaly to its first inflection point. Apply Euler deconvolution tool to calculate the apparent depths of selected magnetic targets.

Planning and Reporting

Access a variety of tools to make your survey planning and progress reporting more effective. Map making tools enable the creation of UXO target maps for visualization and display of the target locations and reporting. Create an audit log to track all data processing as a historical archive record.

Expand your UXO Solution

Add more capabilities to your Oasis montaj UXO Subscription with extensions for marine magnetics (UXO Marine) and advanced classification and analysis of UXO targets with UX-Analyze.

UX-Analyze

A powerful solution for classification, modelling and analysis of UXO targets using advanced electromagnetic sensors. UX-Analyze extends the functionality of UXO Land to provide a complete solution for UXO surveys.

Features for geophysical target analysis and classification

- Set the project parameters
- Import the target data
- Define and refine anomaly footprints
- Perform data corrections
- Batch fitting a list of targets

- Inspect and refine existing targets
- Add new targets
- Classify targets
- Manage target lists
- Produce maps and a progress report

Flexible and cost-effective subscription options

Your UXO Land subscription gives you affordable access to high performance technology for UXO detection, analysis and survey planning.

- Select from monthly, annual and multi-year subscription plan options.

- Adjust your plan to match your project and business needs.

- Add more subscribers as your team grows.

- Add more tools to your subscription to meet changing project requirements.

- Get continuous support and access to online learning resources in My Geosoft.

Explore more effectively

Efficiently automate routine data processing tasks. Streamline your workflows to save time and allow you to focus on generating outcomes that drive results.

Collaborate across disciplines

Effectively share and progress your results with team members and knowledge experts. Work together to better manage project risk, costs and timelines.

Make confident decisions

Connect your 3D model with the original data to validate your thinking. Iteratively build and refine your 3D results as new data is collected and becomes available.

Learn more

Visit: seequent.com/products-solutions/geosoft-oasis-montaj

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Solve complex problems, manage risk and make better decisions across the lifecycle of projects.