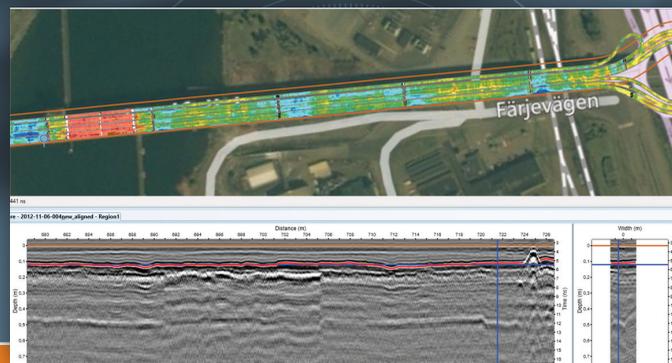


Examiner™



3D GPR DATA PROCESSING AND ANALYSIS SOFTWARE

Examiner software revolutionizes the processing and analysis of three-dimensional ground penetrating radar (GPR) data. Examiner provides an intuitive and user friendly environment for visualization, analysis, and reporting. It integrates global positioning system (GPS) coordinates, maps, imagery and external annotations. Its unique functionality allows quick processing and navigating of large data sets. Additionally, the tool enables the user to generate output data for final reporting. These capabilities enable Examiner to dramatically reduce the time required to process 3D GPR data.

EXAMINER HIGHLIGHTS

- › Optimized for large 3D GPR datasets
- › Results quickly available for field analysis
- › Geo-referenced maps and imagery
- › Virtual Trench option and 3D interface tracing
- › Adaptive Interference Suppression
- › Export to various formats, including DXF and KMZ

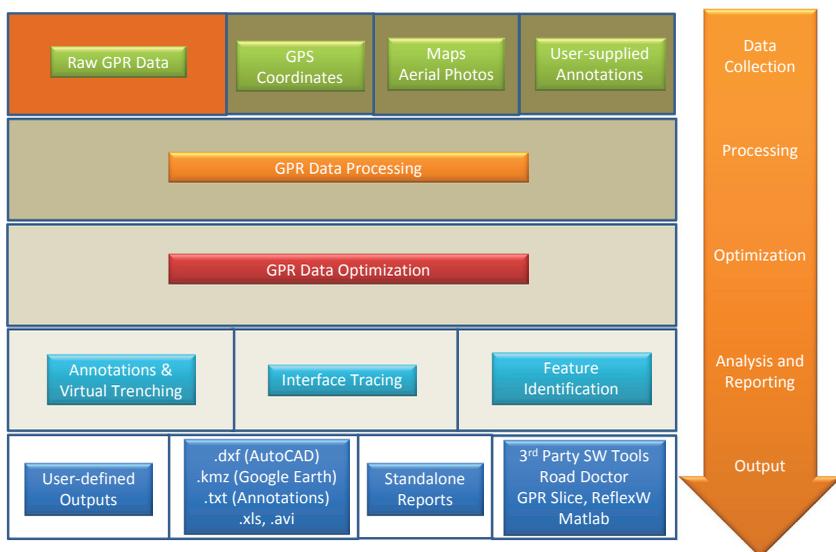


Figure 1: Examiner dataflow.

PROCESSING & VISUALIZATION

Examiner seamlessly handles and displays projects with multiple large GPR data files. A three-slice view allows easy navigation within the data volumes for detailed analysis. Users are offered a full resolution presentation to pan, zoom, and deep dive the data with real-time rendering. The data is displayed and traversed for an initial review giving the user the opportunity to quickly identify subsurface areas for further investigations.

MAP OVERLAYS

Examiner features a map view showing geo-referenced depth slices. The near reality display makes it easier to interpret features across the data. Data geo-referencing is based on advanced GPS filtering to ensure the best possible accuracy. Examiner provides global map imagery through the integrated map service, OpenStreetMap. Geo-referenced images can be imported from aerial, satellite, photos or maps in almost any projection, placing the GPR data quickly and accurately in the surrounding environment.

3D ANNOTATIONS AND VIRTUAL TRENCH

Examiner showcases a powerful and user-friendly tool to draw three-dimensional points and multi-segment annotations. When using the “Virtual Trench” option, the user can display vertical slices of data across multiple swaths following annotation lines.

INTERFACE TRACING

Examiner offers an advanced analysis tool for automatic interface/layer tracing. With a single click, it is possible to follow and trace an interface for kilometers using an automatic 3D tracing algorithm. The end result is visualization on screen as depth profiles and color coded maps.

EXPORT & EXTENSIBILITY

Examiner imagery can be directly copied and pasted into other applications for easy reporting or saved in the most commonly used image formats. It is also possible to generate a video to dynamically display how the data varies along a user selectable depth range. 3D processed data can be exported to a fully documented format which can then be imported into end-user developed software as well as leading third party analysis and reporting tools. Annotations, radar imagery and interfaces can be exported with rendered GPS data to various formats that are compatible with popular software such as AutoCAD (DXF) and Google Earth (KMZ). Traced interfaces can also be saved as point clouds in comma separated value files, or summarized in a comprehensive report with detailed statistics.

🔧 SPECIFICATIONS

SYSTEM	REQUIREMENTS
Operating System	Windows 7 or 8
CPU	64-bit, Intel Core i7 recommended
Memory	8GB or greater
Disk capacity*	250 GB or more

*Disk drives must be formatted with a file system capable of storing large files (e.g. NTFS, not FAT/ FAT 32). A Solid State Drive (SSD) will enhance performance, but is not required.

🔧 ORDERING INFORMATION

PART NUMBER	DESCRIPTION
3DR-EX-PRO-101	Examiner – Professional version, Single user

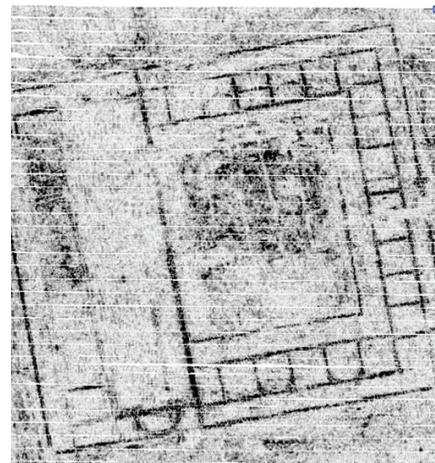


Figure 2: 3D GPR data from a 100 m x 100 m archaeological site.



Figure 3: Processed image from Figure 1 exported to Google Earth.

3D-RADAR RELATED PRODUCTS

- › DX Antenna Array Series
- › DXG Antenna Array Series
- › GeoScope™ Mk IV 3D GPR