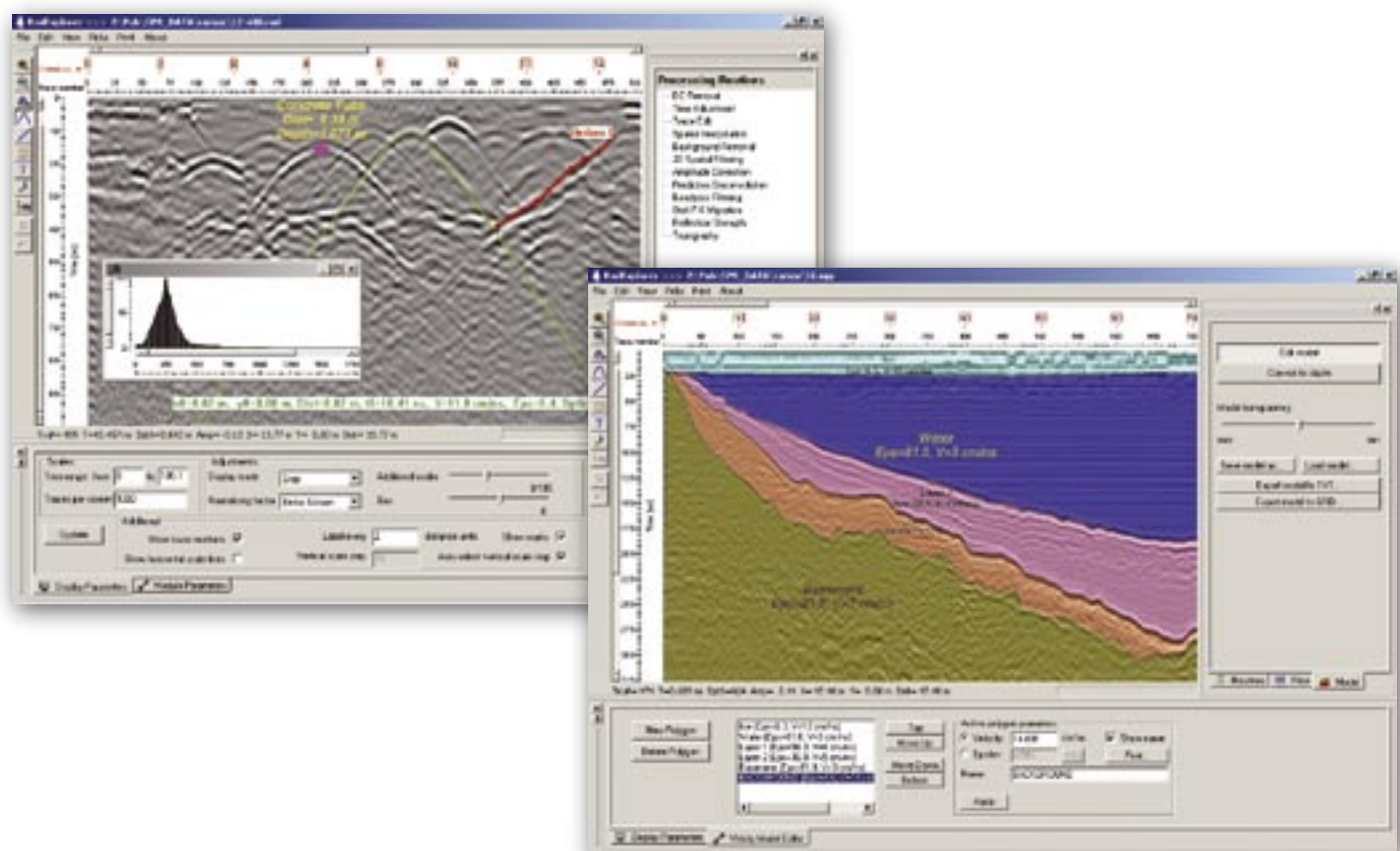RadExplorer™

RadExplorer™

Easy and effective GPR processing software

The RadExplorer GPR interactive software is a powerful, easy-to-learn tool that provides impressive data processing capabilities in a user-friendly package.

Discover the RadExplorer software that provides extensive functionality such as manual or semi-automatic layer picking, time to depth conversion using a velocity model and display of the interpretation results.

Zoom in on spectacular graphics, generate and edit earth models. Map out diffracted wave travel-time curves. Computation of amplitude-frequency spectrums in an arbitrary window.

Features:

- User-friendly interface
- Flexible visualization
- Interactive data analysis
- Easy and effective data processing
- Convenient data interpretation
- Standard printing and image export
- Support of the main data formats used in GPR surveying
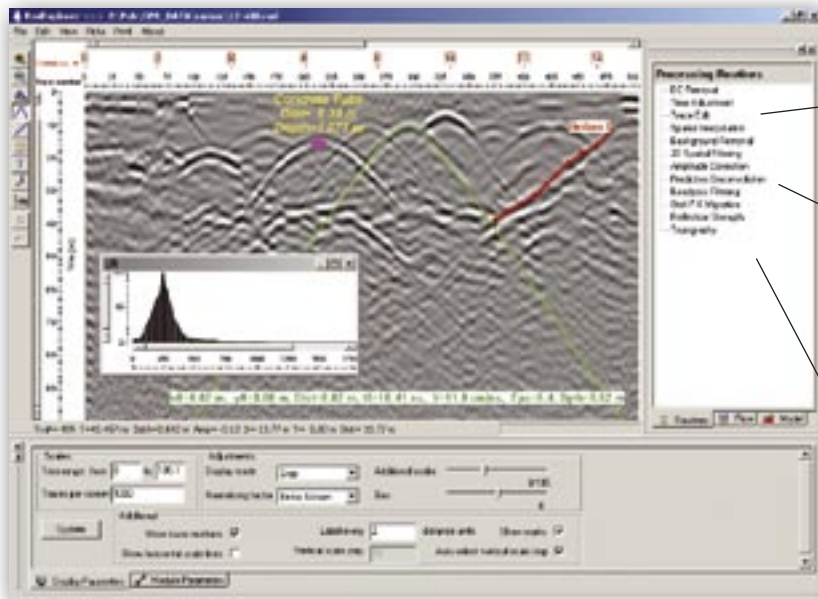
Processing routines

- DC removal
- Time Adjustment
- Trace Edit
- Spatial Interpolation
- Background Removal
- 2D Spatial Filtering
- Amplitude Correction
- Predictive Deconvolution
- Bandpass Filtering
- Stolt F-K Migration
- Reflection Strength
- Topography

User-friendly Interface

RadExplorer's user interface is similar to that of a graphics editor. Access to all parameters is quick and easy.

Flexible visualization tools

Radargrams can be displayed in several modes. Images are easily scaled (Zoom/Unzoom). Earth models with varying transparency can be superposed on radargrams resulting in spectacular and informative sections that can be printed out or saved in a graphical image format.

Interactive data analysis

- The software package comprises the following tools for interactive data analysis: Determination of mean velocity and depth to an object based on the diffracted wave travel time curves (hyperbola fitting).
- Computation of amplitude-frequency spectrums in an arbitrary window.

Easy and effective data processing

Most of the processing routines define their default parameters based on the properties of the recorded GPR data.

If you are not sure about processing parameters selection, try to use the parameters set by default!

The procedures that have been applied are automatically included into a processing flow/history that features an unlimited undo/redo function. It is also possible to reapply undone processing steps using different parameters. The processing flows can be changed, saved to disc and applied to different files.

Convenient data interpretation means

Data interpretation tools include layer picking (manual or semi-automatic), text markers and earth model editor. The earth model is a set of arbitrary shaped polygons with specified electromagnetic wave propagation velocities. The earth model is used for time to depth conversion of the radargrams and to display the results of interpretation.

Standard image printing and exporting

All the results of data processing and interpretation can be printed out and exported to a graphics file.

In addition to the standard RAMAC/GPR and SEGY data formats RadExplorer can also import data from SIR (GSSI), PulseEkko (S&S), Zond (Radar Systems, Inc.), OKO (Logicheskie Sistemy Co.).

System requirements

Minimum:
Pentium 166, 32 Mb RAM, SVGA, Windows 98/2000/ME/XP
Recomended:
Pentium 4, 256 Mb RAM, SVGA 1024x768, Windows 2000