The Most Advanced GPR Data Processing Software

RADAN®

RADAN® is GSSI's state-of-the-art post-processing software. With its modular design, RADAN allows users to select the processing functions that best suit their professional needs. RADAN is also Windows® based, providing a familiar and easy-to-use environment for all levels of experience.

The RADAN software features bold and intuitive menu screens and clear data views for easier interpretation and enhanced post-processing capabilities.

Built for All Levels

- Familiar Windows-based interface
- Optional application-specific modules
- On-screen help features

Manage Data

- Identify, clarify and interpret data
- Enhanced 3D capabilities
- Uncompromised data quality

Deliver Results

- Automatic GPS integration
- Generic ASCII files for simple data export

Advanced Features

- Automated processing functions for quick data interpretation
- Ideal for single or multi-channel data processing
- Easy GPS and Goggle Earth™ integration
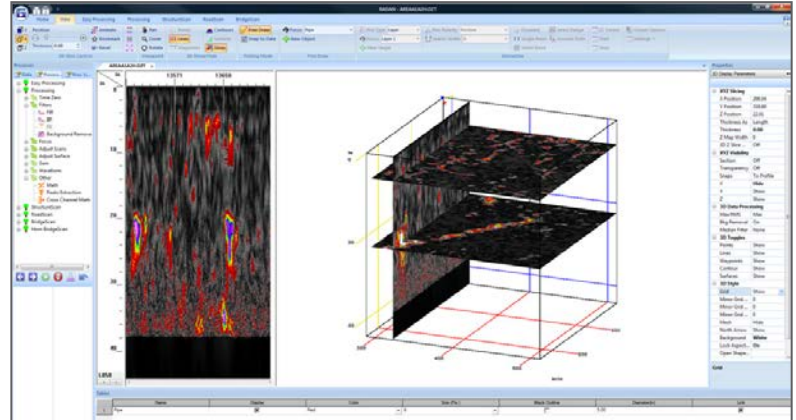
2D and 3D data displayed in RADAN showing a roman stone foundation.

The Next Generation of 3D Mapping with 3D Module

The 3D module provides enhanced 3D viewing options in a single dialog box. Users can stretch, shrink or zoom in on files as desired for customized presentation results. The 3D module also allows the entire data cube to be "sliced and diced" along various x, y, and z planes. This allows the user to easily interpret complex areas and to make sense of the data. With this module's simple, intuitive click-and-drag interface, viewing multiple slices and rotating the data for a better view has never been easier.
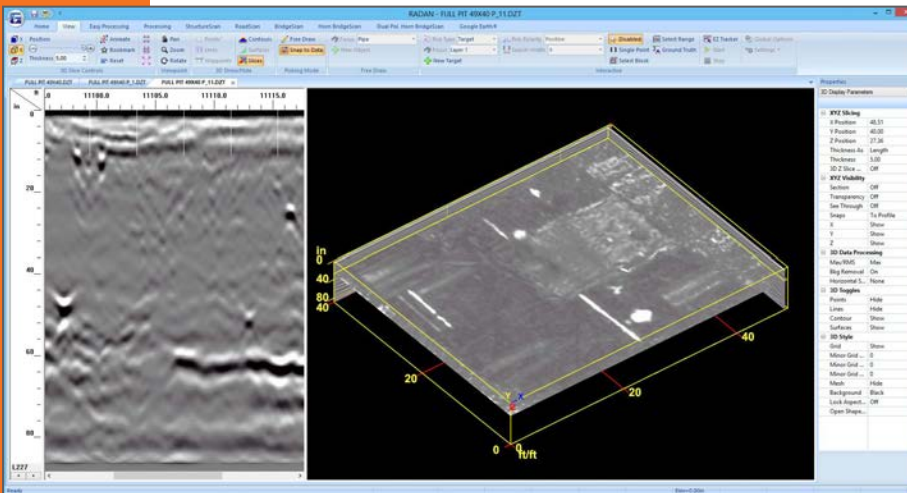

The 3D module also affords users the ability to show multiple interactive views of 2D and 3D data simultaneously and to create shapes (pipes, drums, lines, etc.) in the GPR data, which can then be exported for integration with CAD drawings. This way, the data can be presented to the client in a familiar, easy to understand format. All of these 3D options provide users with unparalleled data interpretation and presentation capabilities that allow them to showcase their expertise, make better interpretations and get more jobs.

Interpret Targets with the StructureScan™ Module

The StructureScan™ module is the heart of GSSI's StructureScan systems. This powerful tool allows for easy creation of plan view slices to aid in interpretation of StructureScan data files.

The versatility of this module allows for a broad range of civil/structural applications, including structures with different types of reinforcement.

- Semi-automatic mapping of rebar locations and depths on simple concrete structure
- Interactive location mapping of conduits within concrete structures
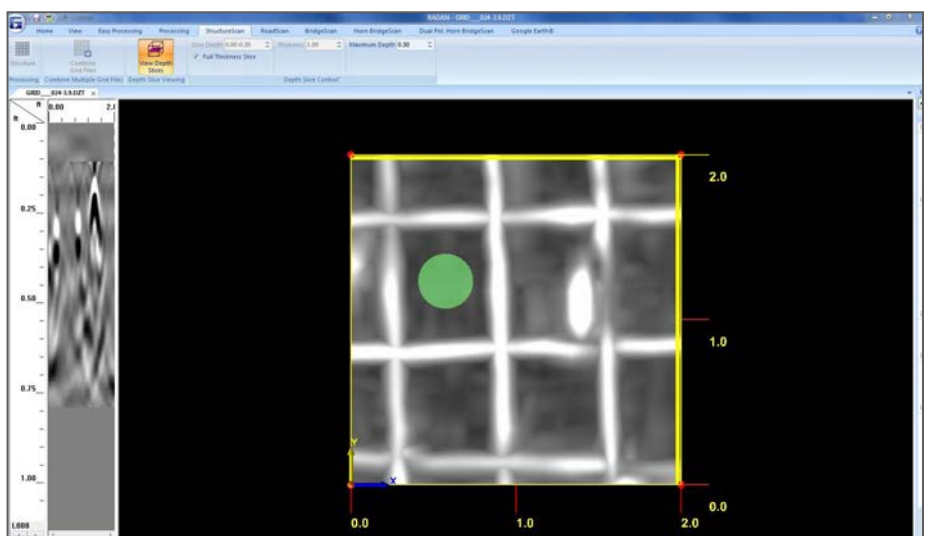
Conduct Pavement Layer Analysis with RoadScan™ Module

RADAN's RoadScan™ module is designed for use with horn (air-launched) antennas. This module uses a signal calibration technique (where a metal plate reflection amplitude is compared, scan by scan, to raw data obtained from pavement analysis surveys) that measures significant layer interface amplitudes from the pavement data and calculates the propagation velocity of the GPR signal through the pavement layer media.

This is significant because it allows pavement thickness, base thickness and other pavement structure properties to be calculated without the need for ground-truth (core) data.

This software module includes automatic and interactive layer interpretation, automatic and interactive pavement thickness (but user can specify core data, if desired), and provides output of signal and position information to an ASCII database for roadway condition assessment.
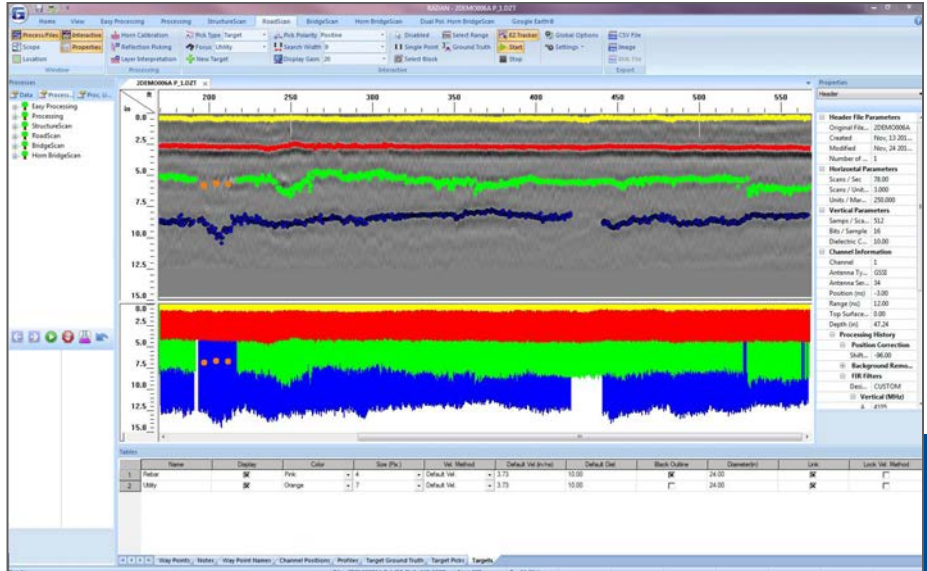

Map Bridge Deck Deterioration with BridgeScan™ Module

The BridgeScan™ Module allows users to:

- Identify rebar
- Calculate concrete cover over rebar on new deck structures
- Perform deterioration-mapping

This module incorporates GSSI's patented data analysis method and is designed for post-processing and analysis that are streamlined specifically for bridge deck data. This software module is ideal for large bridge deck structures with typical two-layer orthogonal grid reinforcement patterns.
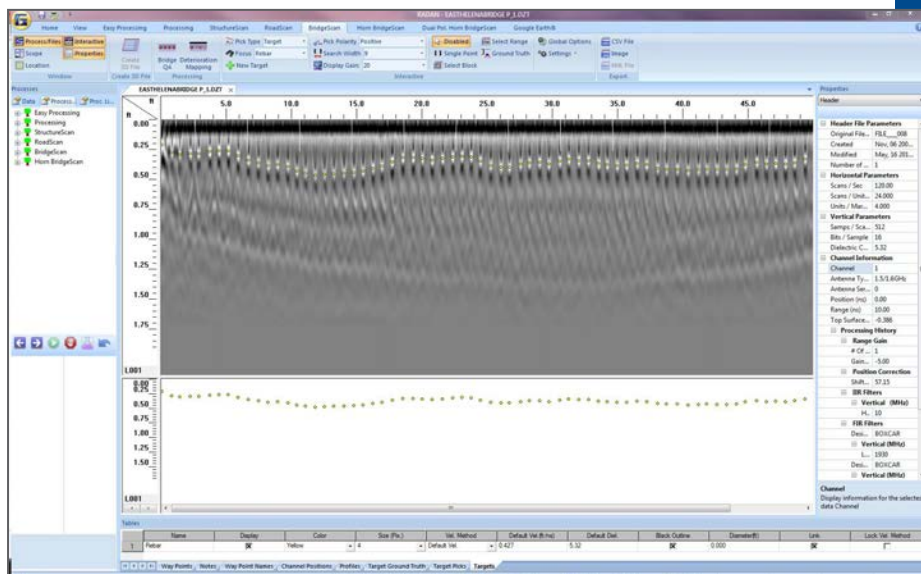
RADAN for StructureScan Mini™

RADAN for StructureScan Mini™ is a post-processing software package for the StructureScan Mini Series. It is designed to process, view, and document 2D and 3D data collected with the StructureScan Mini and StructureScan Mini HR. The software features bold and intuitive menu screens and clear data views for easy interpretation and enhanced post-processing capabilities.

Data Processing and Annotation

- Processing of 3D data sets collected with the StructureScan Mini and StructureScan Mini HR
- 3D target input – customize size and color of targets
- Virtual 3D borehole
- Multiple color table and transform options
- Windows® 7 based user-interface

Visualization

- Background Removal filtering
- Data Migration (focusing)
- Gain (Contrast) Control
- Use Ground Truth for accurate depth calculations

Report Building

- Report Writer – custom report output usingMicrosoft® Excel
- Copy data images to third party software for documentation purposes
- Add targets as colored circles and export target information in an Excel format
- Save data images as a .jpg file
- Print to all Windows supported printers
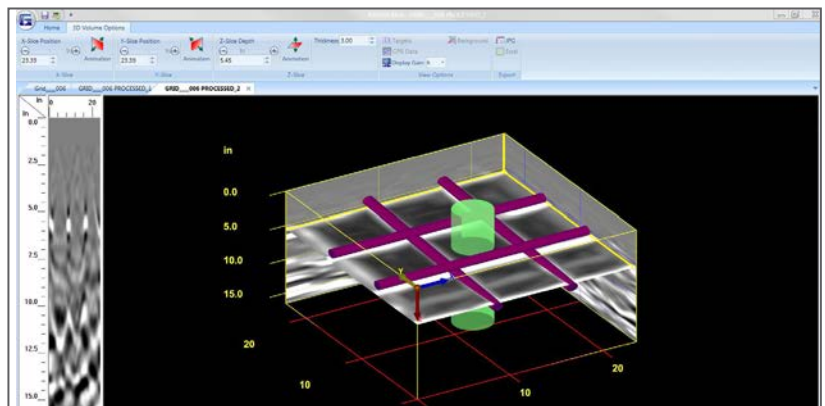
Data illustrates a volumetric view of a rebar mat with user-defined virtual borehole location.

Recommended System Requirements for RADAN

Microsoft Windows® 7   (32 or 64 bit)
Intel® Core i5 (or better) processor
3 GB (or better) system memory
500+ GB hard drive with a minimum of 100 GB available space
256+ MB dedicated graphics chipset with OpenGL drivers (Note: We only support NVidia and Intel graphics chipsets)

See Our Website For More Information

sales@geophysical.com

40 Simon Street • Nashua, NH 03060-3075
Tel: 603.893.1109 • Toll Free: 800.524.3011 • Fax: 603.889.3984

Geophysical Survey Systems, Inc.