

IDS Stream Technology & GPR SLICE

Multi-channel Ground Penetrating Radar and post processing software solution for large area GPR surveys



FCC certified solution

GPR SLICE

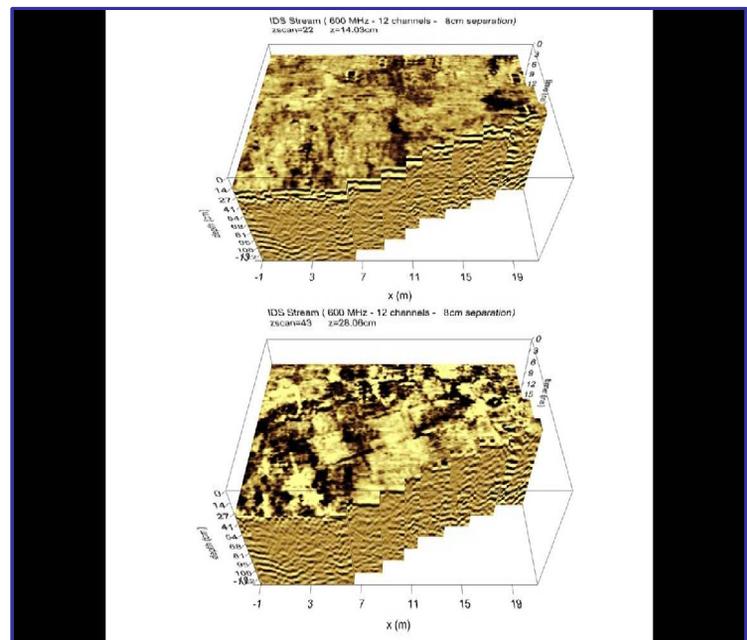
GPR-SLICE is a comprehensive ground penetrating radar imaging software designed for creation of 2D/3D subsurface images for use in a variety of geotechnical, engineering and archaeological applications.

The software include:

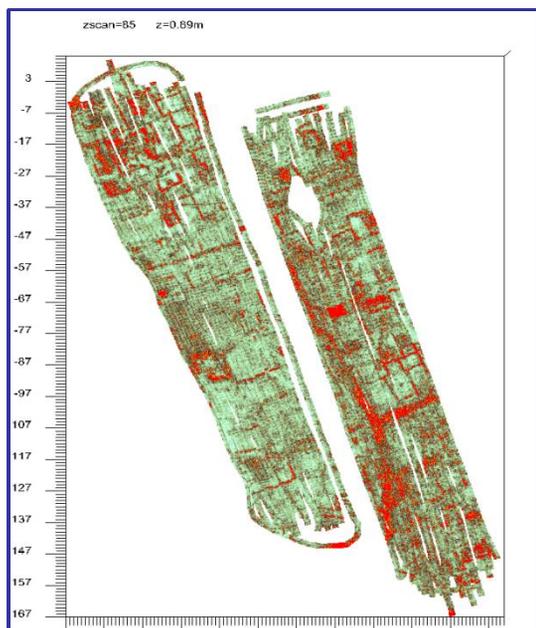
- **Fast 3D processed Multi-Channel GPR Volume Generation.**
- Complete Multi-Channel **GPR/GPS/total station integration** for the **IDS Stream**.
- **BlueBox Batch Operations**; raw data to processed 3D Volumes now available for multichannel GPR batch operation.

Stream X

STREAM X is the IDS vehicle-towed Ground Penetrating Radar solution, introducing a new concept for extensive 3D mapping of buried structures and geologic features. The array cover 6 feet wide swath with a single pass, and, to achieve complete coverage of the survey area, multiple passes can be controlled through sophisticated positioning systems and a dedicated navigation software. STREAM X provides the best possible tradeoff between accuracy and daily productivity, by means of innovative "massive antenna array". Stream X is the only FCC certified multichannel GPR system available in the market.

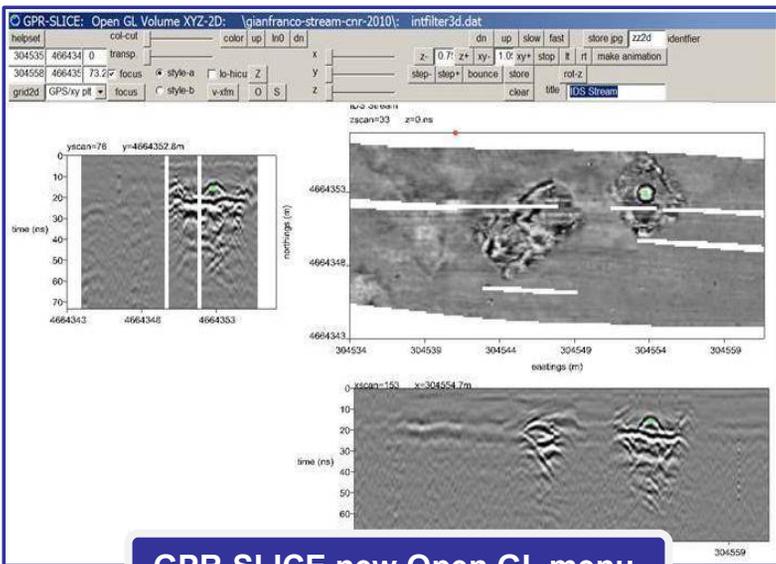


GPR-SLICE Solid Volume obtained with Stream X in the archaeological site of Castrocielo, Italy



Overlay Analysis slice at the Roman site of Empuries (Spain)

An overlay process is available in GPR-SLICE Software to enhance structures which may be at different depth levels across a site. Data collected with the Stream X by Geostudi Astier and SOT Prospection at Empuries archaeological site. In the tomo are possible to see ancient walls of Roman age villas.



GPR-SLICE new Open GL menu

New OpenGL XYZ-2D menu in GPR-SLICE allows the user to click on time slice anomalies and to instantaneously see the X and Y volume cuts. IDS Stream multichannel was used during the workshop "GPR methods for Archaeology and Historical Buildings" and were collected in the Geophysical Test Site of ITABC National Research Area of CNR Roma1. The site was surveyed by Gianfranco Morelli of Geostudi and processed in GPR-SLICE with multichannel options. The software was recently enhanced to properly account for phase lag in GPS collection with this multichannel system to properly position all the individual channels.

Multi-channel Ground Penetrating Radar

Multi-channel systems are **able to acquire multiple lines of data simultaneously** as the array moves along the surface. Positioning information is normally acquired at the same time which allows every point of data to be placed on a map. Each channel of radar is **closely spaced** allowing a dense grid of sample points to be created. This grid can be viewed from above much like a map. Once the data is processed, plan views can be displayed consecutively deeper into the earth. **As objects come into view, their shape, size and position can clearly be seen**, much like a medical image such as a CAT scan or MRI slicing through the human body.



Stream X acquiring data

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