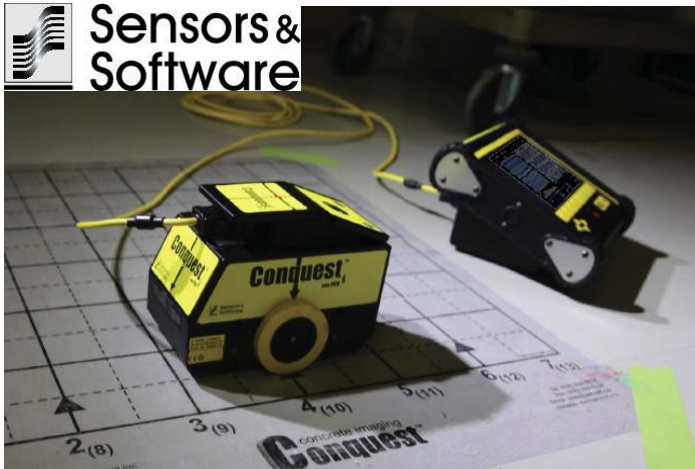


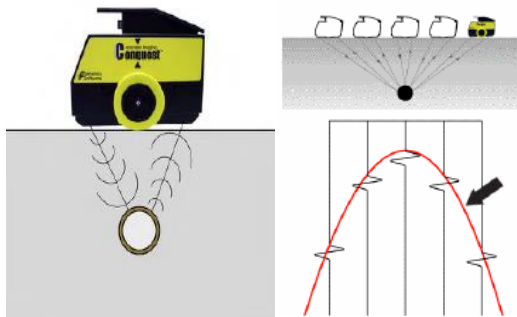
Conquest 100- MINI- Ground Penetrating Radar



Introduction

The Conquest 100 Ground Penetrating Radar (GPR) is designed for safe, non-destructive evaluation of concrete structures. Conquest offers rapid on-site imaging for cutting, coring, drilling, or the characterization of concrete slabs with limited or missing design drawings.

The Conquest 100 uses radio waves to locate objects of differing dielectric constant. Therefore materials such as plastics, metals, and filling material can be located inside the concrete.



The system can scan concrete to depths of up to 0.5m where a cover meter would be limited to 150-200mm. The system is simple to use and only requires one operator. It is the choice of equipment for locating services, Post Tensioning and rebar.

Benefits

- Safe and easy to use
- Operators train quickly
- Independent, completely self-contained operation
- Rapid "return on investment"

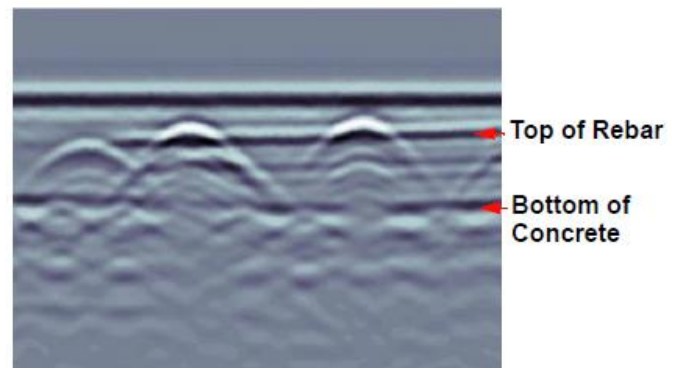
Features

- Line Scanning for reconnaissance surveys
- Grid Scanning for detailed mapping with on-site 3D imaging
- Power Cable Detector
- Real-time location of embedded objects
- Wireless report download straight from the DVL
- AC Power supply or Battery
- Optional Mobility Kit
- Optional Reporting Software

Type of Scans

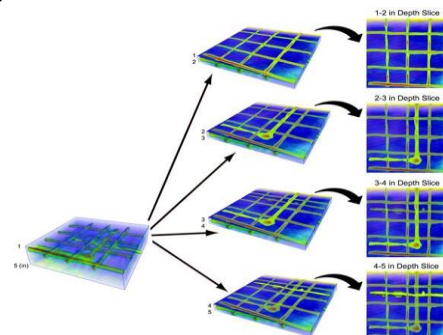
Line Scans

A line scan is a pseudo image which slices through the concrete. A cylindrical target like rebar appears as a hyperbolic shape on the Line Scan.



The image above shows three rebar at varying heights as well and the bottom of the concrete which is also reflects the radar signal.

Grid Scans



Collecting a grid of line scan results using the grid maps creates a data cube or 3D volume that can be visualized as a series of 25 mm thick depth slices or as a solid.



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The Conquest™ 100 Advantage

High Resolution Touchscreen
See targets clearly and intuitive on-screen operation.

Swappable Li-Ion Battery
Never lose work time with long lasting swappable batteries.

Power Cable Detector (PCD)
Ensure safety by locating current carrying cables in the area.

Easy Advanced Reporting
Transfer information wirelessly to your smart phone or make advanced reports in Conquest ImageView.

Compact and Lightweight
Lightweight sensor head allows easy scanning of walls & ceilings.

Systems Includes

Digital Video Logger (DVL) Control Module

- Controls data acquisition and processing
- Rugged, weather proof
- Bright, high contrast, sunlight visible LCD touch screen
- Wireless and USB Connectivity

Sensor Head

- Lightweight for overhead work
- Integrated odometer wheel
- Keypad for remote operation

Mobility Kit

- Harness, Handle, Second Short Cable, Second Battery, Desktop Charger

Optional ImageView Reporting Software

About PCTE

PCTE have over 30 years experience in the measurement and testing of concrete. With experience in research, consulting and construction they are able to assist you in reviewing issues and developing solutions. PCTE can provide more than just the equipment. They can provide leading technical support for your business.

Other Equipment

The full Proceq range of equipment is available for insitu non-destructive concrete measurement, including Schmidt Hammers, Covermeters, Half Potentials, Resistivity and Permeability. The Olson Instrument range includes the NDE360, CTG, Freedom Data PC and DAS as well as the resonance tester. We also supply Intelli-Rock maturity, temp and humidity logging systems, corrosion rate monitoring equipment, and Ground Penetrating Radar.