

CONQUEST® 100

Concrete scanning with GPR made simple

Cutting, coring or inspecting concrete structures?

Need to avoid dangerous and costly hits?

Looking for post-tension cables, conduits, rebar
or live power cables?

If so, then CONQUEST 100 is the right GPR for you!



CONQUEST® 100 is a light, portable device that provides a fast, non-invasive method to gain accurate insights of objects below the surface, even on a curved surface or column.



CONQUEST 100 reduces risk

- Locate rebar, post-tension cables, metallic and non-metallic conduits embedded in concrete.
- Create detailed maps of concrete floors, decks, columns, walls and ceilings to detect embedded objects before cutting or coring.
- Detect voids beneath slab-on-grade/concrete.
- Locate and map current-carrying wires using Power Cable Detector (PCD) technology.

Increase comfort and versatility with the optional Deluxe Mobility Kit

- Long reach resizable handle
- Bluetooth® remote trigger
- Carrying harness
- Extra battery pack
- Desktop charger
- Additional cable

CONQUEST 100 – Get rapid, reliable results and reduce the need for destructive testing



High visibility touch screen display unit

Free lifetime system software updates

User selectable languages

US Standard and Metric units



On-site Reports

Produce instant reports from your display unit in the field



USB

USB for easy data transfer



Wi-Fi

Built-in Wi-Fi capability



Li-Ion battery

Minimize downtime with long-lasting swappable batteries



GPR Sensor

Patented ultra-wideband (UWB) GPR antenna

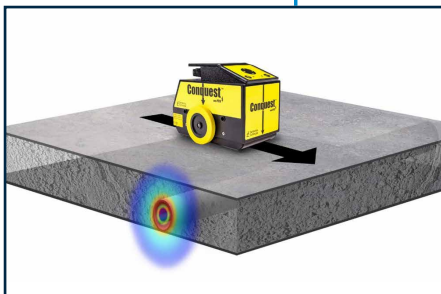
DynaQ - Dynamic Quality Auto Stacking to maximize data quality

Depth penetration up to 910 mm or 36 inches

0123

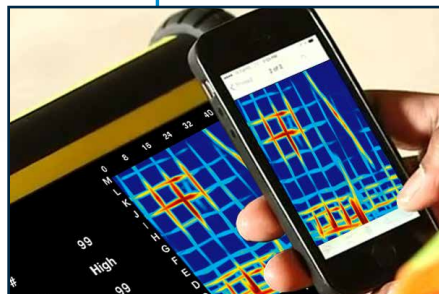
Odometer

2 wheel drive optical encoder
≤0.5 mm resolution



Power cable detector (PCD)

Ensures safety by locating hazardous current-carrying cables in the survey area.



Screen capture function

Transfer reports wirelessly via smartphone.



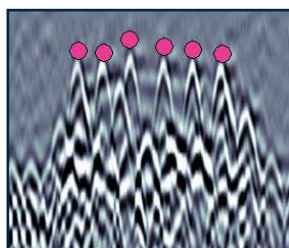
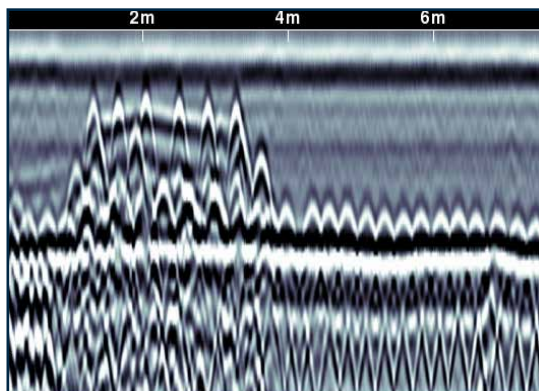
Lightweight sensor head

Enables easy scanning of walls and ceilings.

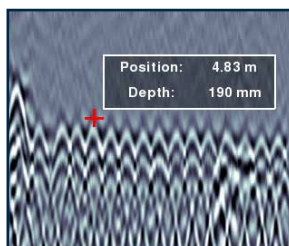
CONQUEST 100 features

Line Scan:

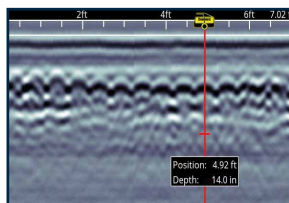
Line Scans provide a real-time assessment of targets embedded in concrete.



Classify targets in real time with color-coded field interpretations by simply touching the screen.



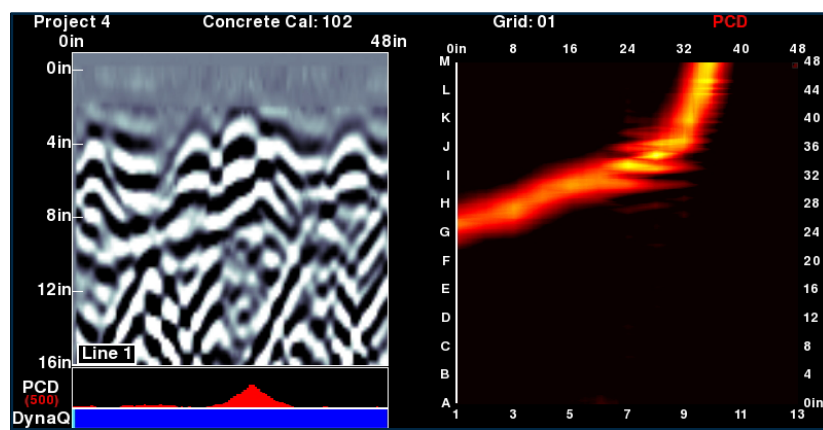
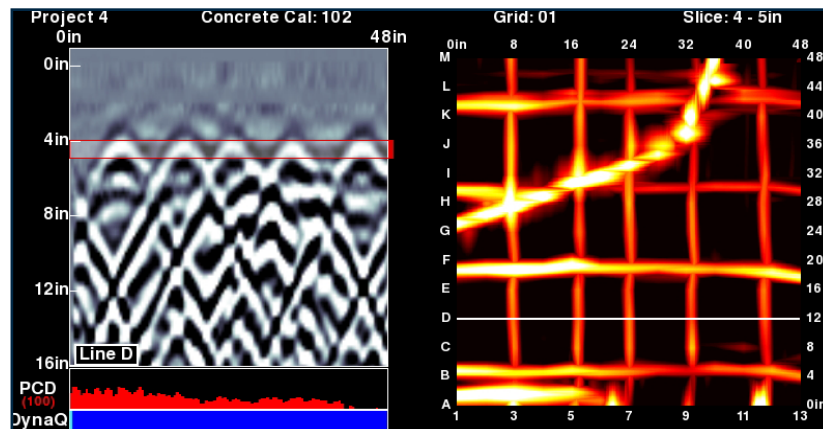
Display position and depth of targets with the touch of a finger.



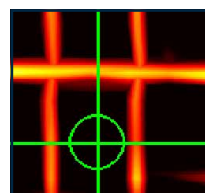
Pinpoint targets with the backup arrow.

Grid Scan Mode:

Grid Scan detailed mapping generates on-site 3D images to better visualize embedded objects. Multiple grid sizes available.



Detect current-carrying power lines with PCD and visualize in Line Scans and Grid Scans.



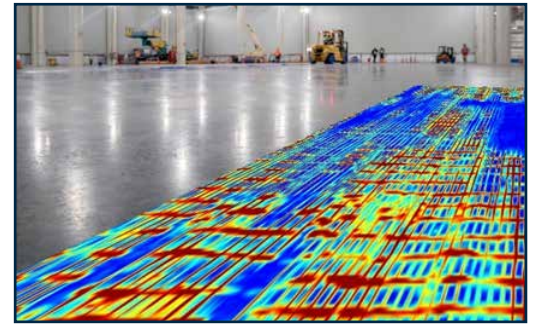
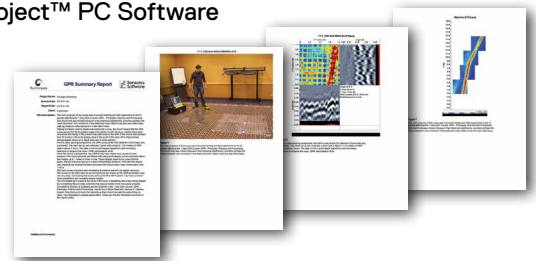
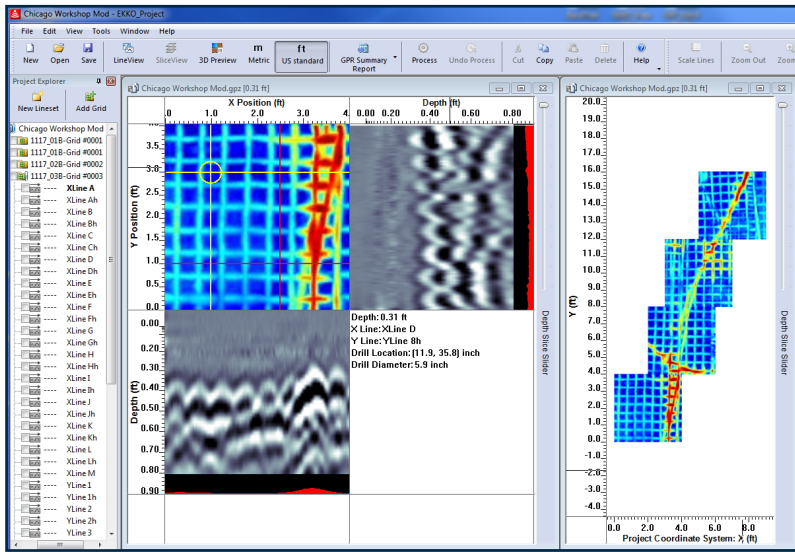
Use the Drill Locator, with variable drill bit diameters, to decide exactly where to drill, avoiding all embedded objects.

CONQUEST 100 Enhanced provides more projects and digital data (GPZ) output.

Criteria	CONQUEST 100	CONQUEST 100 Enhanced
Data Export Format	Screenshots (.JPG)	Screenshots (.JPG), and Project (.GPZ) files
File organization	Lines and Grids	Projects containing Lines, Grids & Screenshots
Data Storage	1 Project with: 20 grids, 200 lines, 1000 screenshots	20 Projects with a total of 400 grids, 4000 lines, 20,000 screenshots
Grid sizes	US Standard 24 x 24 in 48 x 48 in 48 x 24 in Metric 600 x 600 mm 1200 x 1200 mm 1200 x 600 mm	US Standard 24 x 24 in 48 x 48 in 48 x 24 in Metric 600 x 600 mm 1200 x 1200 mm 2400 x 600 mm 2400 x 2400 mm 1200 x 600 mm
PC-based data display	Any .JPG viewing software	Post process GPR data using optional EKKO_Project software

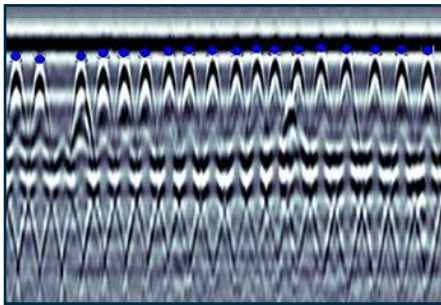
EKKO_Project™ Software

Visualize, Understand and Report your GPR results with the optional EKKO_Project™ PC Software

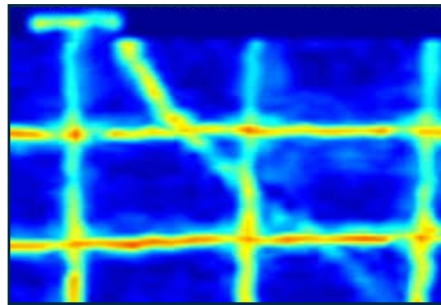


Core

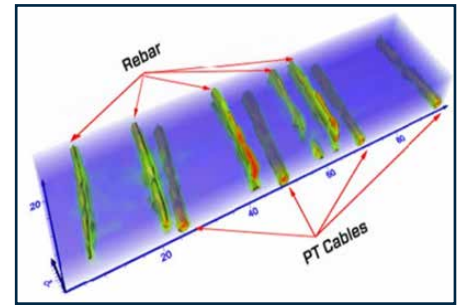
Organize your GPR data, photos and other files and save as a single project file. Easily create PDF reports of your findings.



Examine (Cross-sections)



Reveal (Depth Slices)



3D Reveal (3D Visualization)

Specifications – Hardware

Category	Display unit	Sensor head	Transport case
Size	24 x 24 x 14 cm (9.5 x 9.5 x 5.5 inches)	15 x 13 x 19 cm (5.9 x 5.2 x 7.5 inches)	56 x 46 x 27 cm (22 x 18 x 10.5 inches)
Weight	Display: 2.88 kg (6.35 lbs) Battery: 0.49 kg (1.08 lbs)	1.10 kg (2.43 lbs)	7.9 kg (17.5 lbs)
Power Cable Detector	Locates current at 50 Hz or 60 Hz		
Power	Li-Ion battery pack (user swappable), battery life: 4-6 hrs, battery capacity: 9 Ah, AC mains adapter (100-240 V) to power system		
View Depth	User Defined: 30 – 91 cm (12 – 36 in)		
Maximum Line Length	50 m (150 ft)		

Regulatory Standards: Meets FCC 15.509, Industry Canada RSS-220, ETSI EN-302066

Useful resources to make the most of your CONQUEST 100:

- [CONQUEST 100 training videos](#)
- [Concrete Scanning with GPR, interactive and online course \(SensoftU.com\)](#)
- [Webinars and free online resources](#)
- [Learn more about our training offerings](#)

Our Mission

Provide best in class equipment and solutions, to prevent damage to critical infrastructure, manage assets and protect lives.

Our Vision

To be the world's leader in the management of critical infrastructure and utilities.

Our Locations



USA

Raymond, ME
Kearneysville, WV

Canada

Mississauga, ON



Europe

United Kingdom **HQ**
France
Germany
The Netherlands



Asia Pacific

India
China
Hong Kong
Indonesia
Australia

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