

# 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
- Wireless trigger for data collection
- 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

Innovative ultra-wideband (UWB) GPR antenna

DynaQ® – Dynamic Quality Auto Stacking to maximize data quality

Depth penetration up to 910 mm or 36 inches

0123

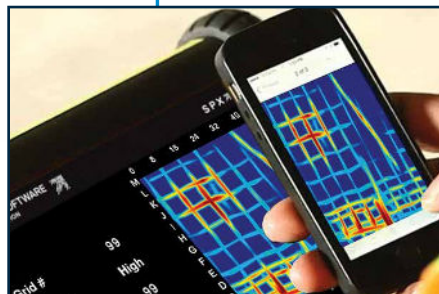
Odometer

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

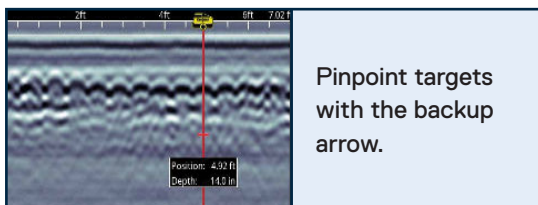
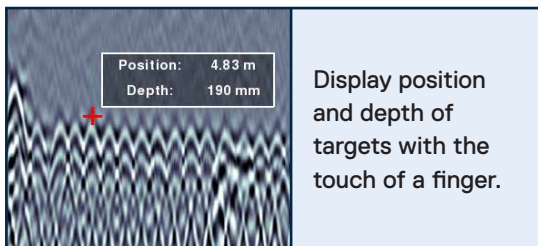
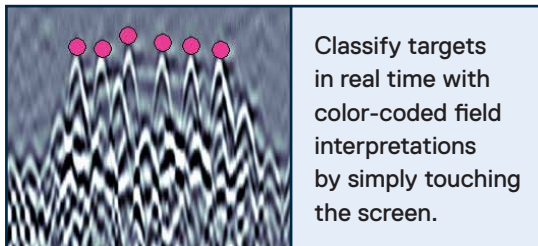
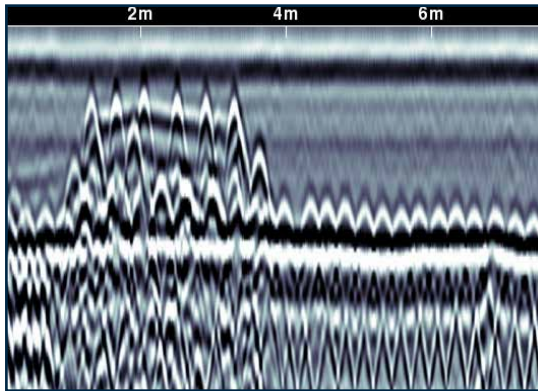
Enables easy scanning of walls and ceilings.



# CONQUEST 100 features

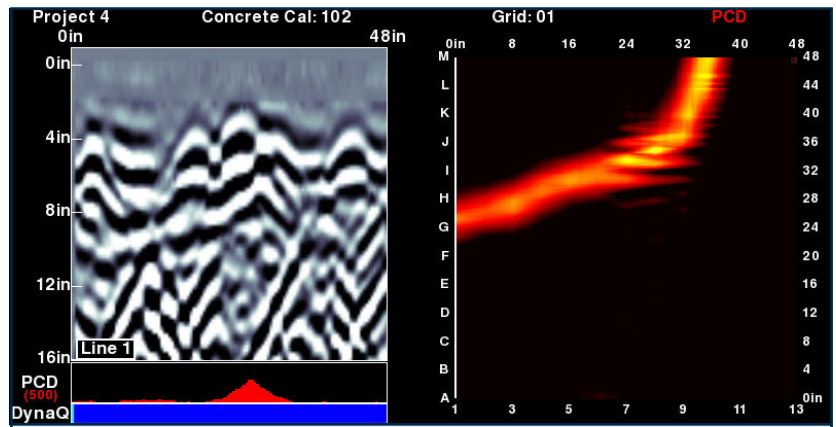
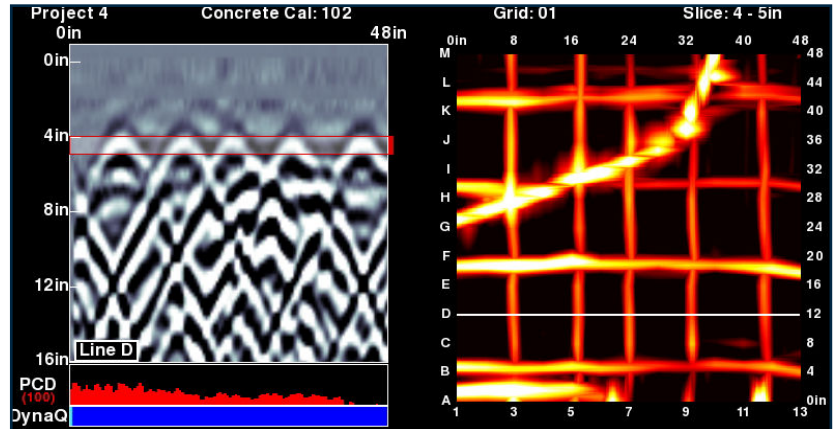
## Line Scan:

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

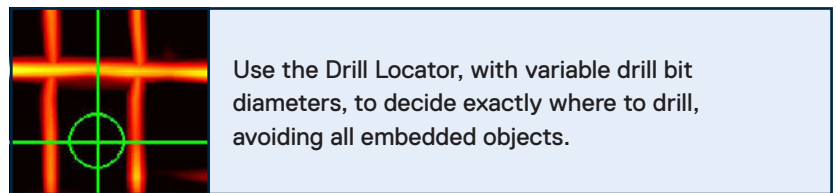


## Grid Scan Mode:

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.

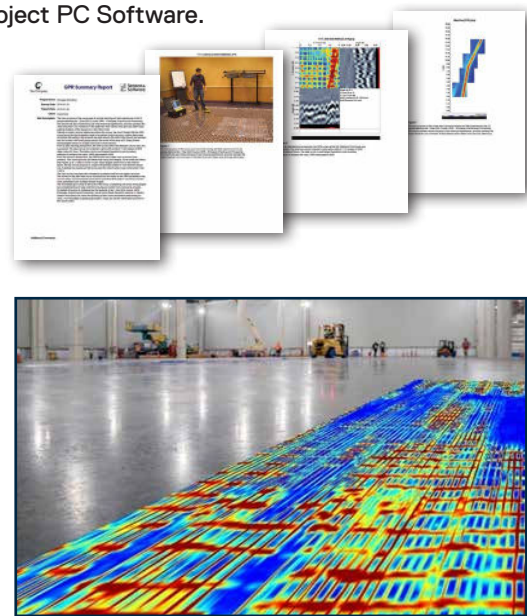
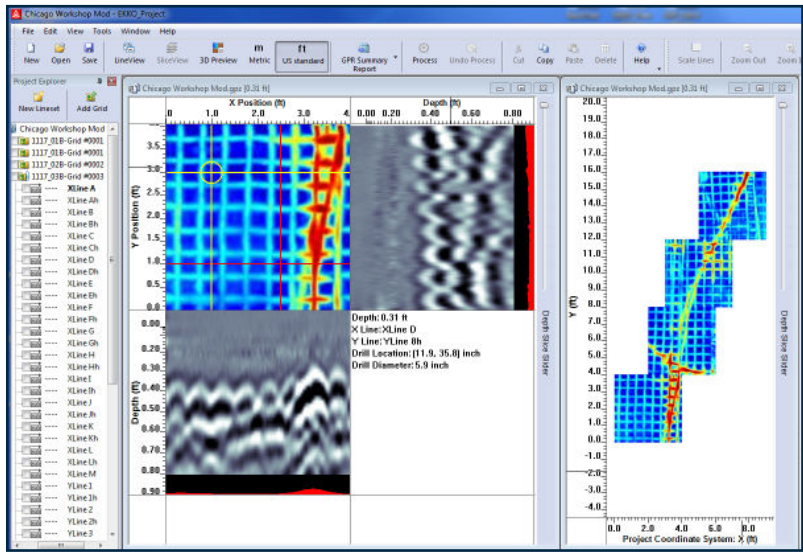


CONQUEST 100 Enhanced provides more projects and digital data (GPZ) output.

| 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:<br>20 grids, 200 lines, 1000 screenshots  | 20 Projects with a total of 400 grids, 4000 lines, 20,000 screenshots  |
| Grid sizes            | <div>US Standard</div> <div>24 x 24 in</div> <div>48 x 48 in</div> <div>48 x 24 in</div> <div>Metric</div> <div>600 x 600 mm</div> <div>1200 x 1200 mm</div> <div>1200 x 600 mm</div> | <div>US Standard</div> <div>24 x 24 in</div> <div>48 x 48 in</div> <div>48 x 24 in</div> <div>96 x 24 in</div> <div>96 x 96 in</div> <div>Metric</div> <div>600 x 600 mm</div> <div>1200 x 1200 mm</div> <div>1200 x 600 mm</div> <div>2400 x 600 mm</div> <div>2400 x 2400 mm</div> |
| PC-based data display | Any .JPG viewing software   | Post process GPR data using optional EKKO_Project™ software  |

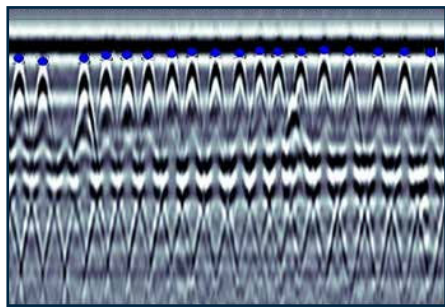
# EKKO\_Project Software

Visualize, Understand and Report your GPR results with the optional EKKO\_Project PC Software.

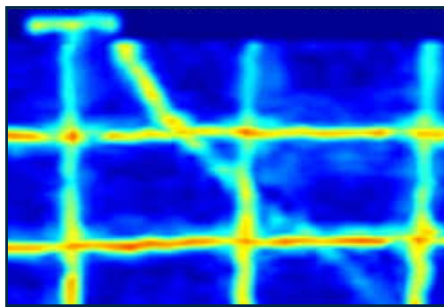


## Core

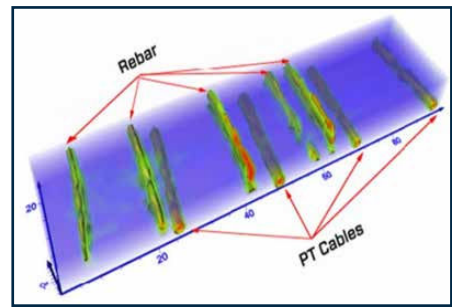
Organize your GPR data, photos and other files and save as a single project file. Easily create PDF reports of your findings.



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<br>(9.5 x 9.5 x 5.5 inches)   | 15 x 13 x 19 cm<br>(5.9 x 5.2 x 7.5 inches) | 56 x 46 x 27 cm<br>(22 x 18 x 10.5 inches) |
| Weight               | Display: 2.88 kg (6.35 lbs)<br>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

[www.sensoft.ca](http://www.sensoft.ca)



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